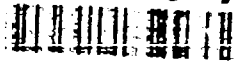


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PRINCIPAL INVESTIGATOR: Dr. William M. Shannon

CONTRACTING ORGANIZATION: Southern Research Institute
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PREPARED FOR: U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Fort Detrick, Frederick, Maryland 21702-5012

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FOREWORD

Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

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____ For the protection of human subjects, the investigator(s) have adhered to policies of applicable Federal Law 45CFR46.

____ In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

William M. Shannon
PI Signature

May 29th 1991
Date

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1. INTRODUCTION

This is the Annual/Final Report on SRI Project No. 6520, Contract No. DAMD17-88-H-8003. It covers the progress of the research program during the reporting period from January 4, 1988 to April 30, 1991.

The focus of this project was on the biological evaluation of new, potentially useful antiviral agents for selective activity against HIV. The compounds for testing include synthetic chemical compounds and natural products submitted to USAMRIID for evaluation in this National Cooperative Drug Discovery Group Program. Our specific aims were to:

1. Evaluate newly synthesized compounds or natural products (approximately 1500 materials per year) for their ability to selectively inhibit the infectivity and cytopathic effect of HIV in cell culture assays. The assay systems for the primary screen included inhibition of HIV-induced cytopathic effect in CEM and MT-2 cell lines using an MTT assay method. Quantitative data was obtained via a custom designed software package.

Compounds that were active in primary assays were confirmed by quantitation of virus growth in culture. Supernatant samples were tested for reverse transcriptase activity, p24, and number of infectious particles in order to quantitate the effect of the active compound on virus replication.

2. Examine the mechanism of antiviral action for compounds with activity against HIV. Initially these studies included an examination of their ability to inhibit reverse transcriptase in *in vitro* reactions using the enzyme from HIV-1, AMV, and Moloney MuLV with a synthetic homopolymer-template primer. During the last year of the contract, selected compounds were examined for their ability to inhibit only HIV-1 reverse transcriptase in an assay using ribosomal RNA as the template.

3. Provide useful information to the chemists with regard to structure-activity relationships and mechanism of action of compounds with anti-HIV activity to guide new synthetic efforts.

4. Determine the antiviral efficacy of candidate compounds, with demonstrated activity against HIV *in vitro*, against animal retroviruses, such as MuLV, SIV and FAIDS, *in vitro*. These data served to provide information on compounds that might be selected for further studies in animal models for retrovirus infection.

5. Determine the antiviral efficacy of candidate compounds in two murine models of retroviral disease: the LP-BM-5 virus mixture in adult C57BL/6 mice and the Rauscher leukemia virus in adult BALB/c. Viremia (quantitated in a UV-XC plaque assay), reverse transcriptase levels, and IgM levels (by ELISA) were measured in serum samples and animal and spleen weights taken. Agents that showed activity in these assay systems were further evaluated by monitoring various components of the immune system, including T-lymphocyte function, natural killer activity, and macrophage activation.

6. Determine the antiviral efficacy of candidate compounds in the simian model of retroviral disease.

This report summarizes our progress in implementing this research program and includes summaries of antiviral test data collected through April 30, 1991.

II. EXPERIMENTAL METHODS

A. Drug Acquisition, Scheduling, Distribution and Drug Preparation

Drug preparation for the HIV laboratory was initiated January 16, 1989. From January 16, 1989 through April 30, 1991, 4600 AVS samples have been prepared (this includes retest and positive control samples). The drug samples submitted for testing in the HIV system were shipped to the centralized drug preparation laboratory by Biological Research Faculty and Facility, Inc. (BRFF). The drugs were checked against the enclosed shipping list, and stored in numerical order in the drug repository facility under the appropriate conditions, according to the information supplied by BRFF.

If drug solubility information was included on the drug data sheet, then that information was used. If necessary, the solubility of a drug was determined by the following method. A 1-mg sample was weighed, placed in a homogenizer vessel, and the first solvent on the priority list was added. If the drug did not dissolve in the solvent, it was heated to 40 °C (unless it was known to be heat-unstable). If the drug was not in solution after heating, it was homogenized with a hand homogenizer. If the drug still was not in solution, another sample was weighed and this procedure used with the next solvent on the priority list. The priority list of solvents and the volume used to dissolve the 1-mg sample was as follows: H₂O (1ml), MeOH, EtOH, DMSO, or acetone (0.1 ml). If the drug is insoluble in all of the above listed solvents, it is to be tested as a suspension in cell culture assay medium with the aid of a hand homogenizer or a vortex mixer. The final concentration of solvent in the starting drug concentration should not exceed 1% (preferably <1%).

Requests for drug preparation were delivered to the centralized drug preparation laboratory five working days prior to the testing date (see Figure 1 for the drug request form). The drugs were solubilized and delivered to the HIV laboratory on the day of testing. All drugs were weighed in 5 mg amounts. If the drug was H₂O soluble, 2.5 ml H₂O was added to the 5 mg sample resulting in a concentration of 2 mg/ml. If the drug was soluble in any other solvent, then 0.125 ml of the solvent was added to the 5 mg sample resulting in a concentration of 40 mg/ml. Polystyrene snap-cap tubes were used for the weighed samples except for acetone-soluble drugs, then polypropylene tubes were used.

Drug preparation for the Reverse Transcriptase (RT) laboratory was initiated February 27, 1989. From February 27, 1989 through April 30, 1991, 138 AVS samples have been weighed and delivered to the RT laboratory (the drugs are not solubilized in the drug preparation laboratory). The drug samples submitted for testing in the RT system were shipped to the centralized drug preparation laboratory by BRFF, designated with an "A" suffix per shipment (eg. Shipment 1A). Water soluble drugs were dissolved at either 1 mg/ml or 0.5 mg/ml in 10% water on the day of the initial assay. DMSO soluble drugs were dissolved at 5.0 mg/ml in DMSO, diluted with assay buffer on the day of the initial assay to 0.2 mg/ml (5% in DMSO). Vortexing or sonicating the solution may be used to solubilize the compound. If needed, the solution may be heated. The drug solution was then diluted as needed with assay buffer. The DMSO soluble compounds were diluted with assay buffer containing sufficient DMSO to give the appropriate drug concentration in 5% DMSO.

B. Primary Screens

SRI conducted the primary screening of chemical compounds which were furnished by the Department of Antiviral Studies, USAMRIID, through its repository contractor (Biologic Research Facility and Facility, Inc., Ijamsville, MD) for antiviral efficacy in cell culture against HIV. SRI was scheduled to evaluate approximately 1500 compounds per year. All screening data were reported to Maxima, Inc. and to USAMRIID essentially as it was obtained in hardcopy form or on floppy diskettes.

1. Standard Screening Assay In CEM And MT-2 Cells

a. Compound dilution and delivery to the plates

Drugs were solubilized in the appropriate vehicle such as distilled water, DMSO, methyl alcohol, or any other vehicle as requested by the Project Officer or as determined at SRI. The maximum solubility was determined as appropriate. Latex gloves, lab coats, and masks were used during all phases of the handling process to prevent exposure to potentially harmful agents. At highest solubility, the drug was prepared and stored at -20°C until used by the screening laboratory. The first dilution of each compound was made in a dilution tube with medium to yield a concentration two-fold that of the highest test concentration. Sterile titer tubes were then used to make serial one half log dilutions of each compound. Following drug dilution, the diluted compound was added to the appropriate well of a 96-well microtiter plate. Up to 12 dilutions could conveniently assayed in triplicate on a single plate with all appropriate controls, including cell control, virus control, toxicity control, drug color control, medium control and plastic (background) control. When testing included only six dilutions, two drugs could be assayed on a single microtiter plate. The drugs were added to the plate in a final volume of 100 microliters.

b. Cells and virus

During the time that the drug dilutions were prepared, cells were washed and counted. Viability was monitored by trypan blue dye exclusion and assays were not performed if the viability fell below 90%. Cells were maintained in an exponential growth phase and were split 1:2 on the day prior to assay to assure exponential growth rate. For the primary screen, the cell lines utilized were CEM and MT-2. Unless otherwise indicated the medium used was phenol red-free RPMI 1640 with 10% heat-inactivated fetal calf serum (FBS), glutamine and antibiotics. Cells were propagated at 37°C in an atmosphere of 5% CO₂ in air. The virus employed for this work was HIV-1 isolates IIB and/or RF prepared by an acute infection process, Buckheit, *et al.*, (1991) and Cloyd, *et al.*, (1990). Briefly, virus infected cells were pelleted on a daily basis beginning at three days post-infection until the virus had killed all of the cells in the culture. Reverse transcriptase activity and p24 ELISA were used to identify pools with the greatest amount of virus. These 24-hour harvests were pooled, filtered and frozen at -90°C. Prior to use in the assay the infectious pool of virus was titered on all available cell lines in order to determine the amount of virus required in the anti-viral assay. In general, pools produced by the acute virus method required the addition of one microliter of infectious virus per well resulting in the screening of drugs at a multiplicity of infection of 0.01. In this manner enough virus was prepared and frozen to complete over one thousand microtiter plates, allowing the testing of up to two thousand compounds from a single stock of infectious virus. The use of a single stock of virus for a long period of testing has very favorable effects on the repeatability of the assay systems. Virus infection of the CEM cells was carried in a bulk infection process. The appropriate number of cells required to complete the assay were mixed with infectious virus in a conical centrifuge tube in a small total volume of 1 - 2 milliliters. Following a one hour incubation the infected cells were brought to the appropriate final concentration of 5×10^6 cells per milliliter with fresh tissue culture medium and 100 microliters were added to the appropriate experimental and virus control wells. Uninfected cells at the same concentration were plated for the toxicity controls and for the cell controls. Assays could also be performed using in well infection methods. In this case, drug, cells and virus were added to the well individually. In each case the MOI was adjusted to give complete cell killing in the virus control wells by day 6.

c. Evaluation of CPE-inhibition

Following the addition of cells and drugs to the microtiter plate the plate was incubated for 6 days at 37°C. Experience had determined that incubation for longer periods of time (7 - 8 days) or the use of higher input cell numbers (1×10^4) resulted in significant decreases in cell control viability and a narrowing in the differential in optical density between cell and virus controls upon staining with MTT.

The method of evaluating the antiviral assay involved the addition of 20 microliters of the tetrazolium salt MTT at 5 mg/ml to each well of the plate for 4 - 8 hours. After this incubation period the cells were disrupted by the addition of 50 μ l of 20% SDS in 0.01N HCl. The metabolic activity of the viable cells in the culture resulted in a colored reaction product which was measured spectrophotometrically in a Molecular Devices Vmax plate reader at 570nm. The optical density (O.D.) value was a function of the amount of formazan product, which is proportional to the number of viable cells. The plate reader was on-line to the screening laboratory microcomputer which evaluates the plate data and calculates plate data. The plate report provided a rundown of all pertinent information including the raw O.D. values, the calculated mean O.D.'s and the percent reduction in viral CPE as well as calculations including TC_{50} , IC_{50} and antiviral and specificity indices. Finally, the results included a plot which visually depicts the effect of the compound on uninfected cells (toxicity) and the protective or nonprotective effect of the compound on the infected cells. A representative example of a plate report is given in Figure 2.

d. Interpretation of results and quality control

The results shown for AZT (Figure 2) illustrate a frequently observed pattern for an active compound. At the concentrations tested (6 one-half log dilutions), the highest concentration of AZT (2.67 μ g/ml) is always toxic as shown by the low O.D. values for both uninfected and infected cells (see mean O.D. results, TC results, and the plot). The next three successive dilutions of AZT show 100% protection. At AZT concentrations below 0.0834 μ g/ml the level of protection decreases while the toxicity to uninfected cells shows no toxic effect of AZT. Patterns similar to this are recognized as active.

A drug could have much more or much less toxicity, and the uninfected and infected curves must always coincide at the toxic concentrations. Those that did not were considered unsatisfactory and were retested. A drug could be active at one concentration or across a range of concentrations. However, if it was active at a given concentration it must be active at all higher concentrations unless those concentrations were toxic. When apparent activity at one concentration was lost at a higher non-toxic concentration, that pattern was not recognized as meaningful and a repeat was performed. Generally, a valid test was one in which the virus control and cell control values differed by a significant margin. When they did not, the cause could be poor viral infectivity or poor cell growth. In these cases, assays were judged unsatisfactory. Assays were also suspect when there was widespread non-agreement between duplicate wells, when contamination occurred at key doses, and when background was not consistent with that expected.

A compound was judged inactive when no recognized pattern of protection was observed in an otherwise valid assay. When a low level of activity was observed the compound was considered possibly active and was rescheduled for testing. Protection at only high doses of the drug or low level activity across a range was not a mark of a particularly useful drug, but the information was valuable from the standpoint of the development of possible analogs of that compound and the structure of compounds with activity.

PLATE 000
DRUG AZT

IN VITRO ANTIVIRAL RESULTS
XTT ASSAY

DRUG AZT
TAI >76.45 SI: 111.90

	1	2	3	4	5	6	7	8	9	10	11	12	
A	0.113	0.110	reagent background			0.107	0.103	0.103	0.100	plasma background			
B	1.168	1.179	drug AZT absorbance			0.322	0.347	0.323	1.235	optic			
C	1.198	1.150	drug AZT absorbance			0.945	0.964	0.853	1.382	optic			
D	1.210	1.154	drug AZT absorbance			1.099	1.031	1.161	1.508	optic			
E	1.172	0.137	drug AZT absorbance			1.151	1.139	1.273	1.413	optic			
F	1.151	0.136	drug AZT absorbance			1.145	1.191	1.088	1.220	optic			
G	0.515	0.142	drug AZT absorbance			0.496	0.544	0.552	0.578	optic			
H	0.109	0.103	drug AZT absorbance background			0.100	0.103	0.103	0.104	optic			

VIRUS
CELLS

HIV
CEM Satisfactory; Active; Retest

PROJECT # 615
SPONSOR B. BUCKHEIT
TEST DATE 12/15/89
DATE READ 12/21/89

STRN

38 1:33

REAGENT

0.106

VIRUS CONTROL

0.025

CELL CONTROL

1.004

DIFFERENTIAL

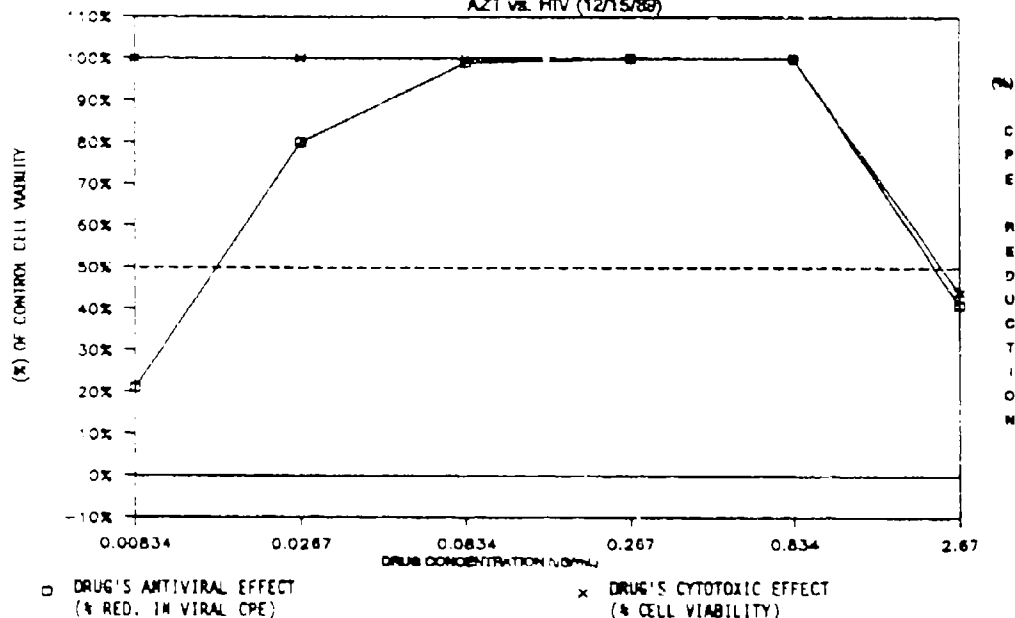
0.979

DRUG AZT	25%	50%	95%
TC (uG/mL)	1.85	2.47	> 2.67
IC (uG/mL)	3.09050	0.01	0.07
ANTIVIRAL INDEX (AI)	183.18	167.35	> 40.68

DRUG AZT	ANTIVIRAL TEST VALUES			CYTOTOXICITY TEST VALUES		
	CONC. PLATE (uG/mL)	MEAN C.O.	% RED. IN VIRAL CPE	MEAN C.O.	% CELL VIABILITY	COLORIMETRIC CONTROL
Low	0.00834	0.202	21%	1.098	100%	-0.02
C	0.0267	0.786	80%	1.187	100%	-0.03
D	0.0834	0.970	99%	1.256	100%	-0.03
E	0.267	1.063	100%	1.192	100%	-0.06
F	0.834	1.014	100%	1.083	100%	-0.03
High	2.67	0.401	41%	0.438	44%	0.003

SUMMARY GRAPH

AZT vs. HIV (12/15/89)



Example of Primary Screening Report (AZT)

Figure 2

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C. Confirmatory Screens

Drugs which demonstrate activity in the original screen were immediately scheduled for a second primary assay under the same conditions in order to confirm the results of the first test. If a drug was confirmed to be active in the second testing by the MTT assay additional information was collected to further verify the antiviral activity. Prior to the addition of MTT to the wells of the assay plate a 20 microliter sample was obtained. This sample of cell-free supernatant was tested for reverse transcriptase activity, p24 reactive material by ELISA, and infectious particle quantitation by syncytial assay. These assays were performed as follows:

1. Reverse Transcriptase Assays

Reverse Transcriptase Assays, Hoffman, *et al.*, (1985), were performed by mixing 15 microliters of supernatant with 10 microliters of RT reaction mixture. This reaction mixture contained (final concentrations) 10mM Tris, 10mM dithiothreitol, 8mM magnesium chloride, 0.5% triton X-100, 50ng/ml poly (rA), 10ng/ml oligo dT, and 2.5 μ Ci of tritiated thymidine triphosphate. The reactions were performed in a 96-well plate at 37°C for 90 minutes. The reaction mixture was then spotted onto DE81 chromatography paper and washed extensively in 5% sodium phosphate buffer, distilled water and 100% ethanol. After drying, a toluene based fluor was added and the amount of incorporated radioactivity quantitated and compared with the level incorporated by the cell and virus control wells. A positive and negative control virus supernatant was also included to standardize daily RT assays and allow comparisons of results obtained in different days.

2. p24 ELISA

p24 ELISA was performed according to the manufacturers recommendations utilizing cell free supernatant. ELISA was usually performed following RT assay to permit optimal dilution of the samples obtained so they could be quantitated in the range of sensitivity of the kit. Usually, the virus control sample required a 1:20,000 dilution prior to assay whereas a negative sample required only 1:100. Performance of RT assays prior to ELISA allowed dilutions along the curve of anti-viral activity to be accurately determined and avoided off-scale quantitation saving time and money. Standard curves for this analysis have been determined.

3. Infectious Particles

Infectious particles were quantitated utilizing CEM-SS cells (61). Plates were coated with poly-L-lysine and CEM-SS cells were placed in the well where they were fixed to the bottom of the plate. Virus was added in serial dilutions and the number of syncytia were quantitated at 4 days following infection.

4. Dot Blot RNA Hybridization

Dot blot RNA hybridization was utilized for further confirmation of the activity of certain compounds could be performed by determining the inhibition of HIV-1 RNA production. CEM cells were infected as described above and triplicate cultures were treated with the active concentrations of the test compound, as determined by the primary screening. Appropriate virus and cell controls were included and all cultures were maintained at 37°C in the presence of 5% CO₂ moisture and air. At day 6 post-infection, cultures of infected and uninfected cells were pelleted and processed for dot-blot hybridization assay. RNA were extracted from cell lysates using the chaotropic buffer guanidine thiocyanate (GuCN). Extracted RNA from the individual specimens was mixed with poly (dA) oligomer capture probe and a [¹²⁵I] CMP labeled HIV-POL RNA detector probe. Viral nucleic acid target probe complexes bound to or were captured by oligo (dT) magnetic particles and repeatedly cycled by washing, eluting and recapturing, effectively reducing non-specific background. Detection of the target complexes

was accomplished by immobilizing the hybridization mixture on a nitrocellulose membrane for autoradiography. For quantitative purposes the autoradiograph was scanned using a densitometer and the amount of HIV-1 RNA present in each specimen was quantified relative to standard amount of RNA added to uninfected CEM cells.

D. Secondary Screens

Following confirmation of the activity of the active compound additional testing was performed. These tests included the use of other human T, B, or macrophage-monocyte cell lines to quantitate the range of action of the compound. Additional testing also included pre- or post-treatment of cells with therapeutic compounds with respect to virus infection. Finally, mechanism of action studies could be performed as described in detail below.

1. Syncytial Assays

The ability of compounds to inhibit syncytia formation was evaluated in a microtiter assay system. Uninfected CEM cells were placed in wells of a 96-well microtiter plate at 1×10^5 cells per well. Chronically infected CEM cells (CEM-HIV) were added at one-half log dilutions from 10^5 to 10^2 cells per well. Drug was added at appropriate concentrations and the number of syncytia was quantitated at 24 hours post-mixing. In these assays syncytium formation was first detected at 6 hours post-infection and continued through 48 hours post-cocultivation.

2. Variation In Multiplicity Of Infection

The protective ability of an active compound was tested at different multiplicities of infections. MOI were varied to test at low, intermediate, and high levels of virus input. AZT and ddC were utilized as control test compounds.

3. Variation In Time Of Drug Addition

Compounds were added prior to, during and following virus infection to investigate the optimal time of drug addition. We routinely added compound at 24, 12, 6 and 2 hours pre-infection and 2, 4, 8, 12, 24, 48 and 72 hours post-infection. Drug addition at the time of infection was utilized as the relative control sample. AZT and ddC were used as control test compounds.

4. HIV Isolates

We have available at SRI a wide panel of HIV-1 isolates for use in our screening operations. These isolates include the commonly used isolates of HIV-1 (III_B, RF, LAV, MN and WMJ1) as well as a panel of isolates from ARC patients obtained at Duke University and used in the research program of Dr. Robert Buckheit. The biological and biochemical properties of these isolates are the subject of several publications and further characterization is ongoing. Buckheit, *et al.* (1991) and Cloyd, *et al.* (1990). The acute infection method employed for producing these pools of virus has been described above. Our assay systems will also include a panel of AZT resistant mutants which have been obtained from the AIDS Repository. These isolate will be a routine part of our screening efforts in a short period of time. We also have recently added two isolates of HIV-2 isolate to our standard screens and are in the process of securing other diverse isolates of HIV-2 in order to improve our screening panel. This panel of isolates will demonstrate the ability of a compound to act against a diverse group of HIV-1 isolates and will provide information regarding activity of a compound against the related HIV-2. We will also attempt to isolate mutant HIV isolates *in vitro* with resistance to selected therapeutic agents and then document the changes in nucleotide sequence and biological phenotype which resulted in this change of drug sensitivity. Mutants will be isolated by growth in medium with an optimal concentration of active

compound and repeated isolation of virus and reinfection. Any viruses produced in this manner will be biologically cloned by limiting dilution techniques and analyzed in our primary and confirmatory assays for drug resistance. Cross-resistance to other therapeutic agents will also be analyzed.

5. Antiviral Evaluations In Fresh Lymphocytes And Macrophages

Assays in fresh peripheral blood lymphocytes and fresh human macrophage cultures were performed as needed to confirm and expand results obtained by our collaborators at Vanderbilt University.

6. Acute And Chronic Infections

We primarily measured the therapeutic efficacy of drugs in acute infections by the standard MTT assay system described above. We also used larger cell culture systems to more accurately describe the cellular and virologic effects of therapy on the kinetics of HIV infection. In these assays, CEM cells were placed in a microtiter well at 2.5×10^5 cells/well and infected with 100 μ l virus at an appropriate previously determined multiplicity of infection. The infection proceeds for one hour at 37°C at which point the cells were resuspended and placed in a T25 tissue culture flask in 1.0 ml of tissue culture medium. Fresh media was added daily until a 10.0 ml of medium. Cells or supernatant were utilized at various timepoints (usually on a daily basis) and used for quantitation of infection kinetics. This quantitation involved total cell and viability counting, cellular proliferative rate measurement by thymidine incorporation or propidium iodide staining, and measures of virus growth, including reverse transcriptase, p24 ELISA, infectious titer and Western, Northern, and Southern immunoblotting. These assays were performed on intracellular and extracellular sources of virus or virus protein and additional assays could be performed on specified subcellular compartments. The performance of these assays will be described in detail below.

We also performed numerous assays to examine the effect of agents on chronically infected cells. Measurement of the number of cells in a chronically infected culture which express envelope glycoprotein or which were determined to be infected by syncytia assay suggests that only 10 - 40% of the cells in the culture were infected. We performed experiments which indicated that all of the cells in the culture were indeed infected but not all expressed detectable envelope glycoprotein. These assays attempted to allow any uninfected population to grow out in the presence of AZT; however, no uninfected cells were ever detected. These cells appeared to be a sensitive assay to detect agents which have cytotoxic activity against infected cells or agents which inhibited ongoing virus production. Agents which acted early in the infection process such as RT inhibitors had no effect on chronically infected cells. Chronically infected cells could be used in microtiter systems or large scale cell culture. Our assays included RT activity and p24 ELISA analysis on the supernatants to detect reductions in virus production and Northern, Western and p24 ELISA analysis of the cells to examine changes in virus transcription and translation. Various probes or monoclonal antibodies could be used in the Northern and Western analysis to examine changes in the production of viral structural or regulatory components. These same assays could be performed in T25 flasks to increase the scale of the assay in order to detect RNA or protein which are expressed at low level. Once again, details of these specific assays are described below. We also have available the U1 cell line which we obtained through the AIDS Repository which is a cloned chronically infected U937 cell line and has been in assays involving the induction of virus production from latently infected cells. The U1 line was used to complement studies performed on chronically infected T cell lines such as CEM or MT-2.

7. Cellular Assays

In addition to endpoint measurements involving the quantitation of virus in the cell-free supernatants assays could be performed to quantitate effects on cells. These assays could include the following: (1) The FACS analysis of viral envelope glycoprotein or cell surface protein such as CD4, CD8, or other lineage or histocompatibility markers was performed on cells prior to total cell killing. The timepoint selected for optimal FACS analysis was determined. Cells were incubated with the appropriate monoclonal antibody in a buffer of PBS containing 2% FCS and 0.1% EDTA for 30 minutes, washed extensively, and then incubated with FITC-conjugated second stage antibodies. Following washing, the cells were analyzed on an EPICS FACS machine. (2) Cells could also be examined immunofluorescently for intracellular p24 antigen expression. Cells were air dried on slides and fixed with cold acetone prior to staining as described above. The percentage of immunofluorescent cells was quantitated on a Zeiss fluorescent microscope in the microscopy/photography suite in the P-3 facility. (3) Syncytia assays could be performed by transferring the cells to a 96-well plate at various half log dilutions and incubation with an indicator cell line as described above. The quantitation of syncytia, or syncytia forming units, allowed quantitation of the percentage of cells in each well which were capable of initiating syncytia formation. (4) Viability counts could be used to confirm killing as measured by MTT staining. (5) A cell-based hybridization assay was performed to sensitively detect cells which were infected with virions and producing HIV. This assay was similar to in situ hybridization assays and was optimized using nonradioactive sources of hybridization.

8. Feline Leukemia Virus (FeLV) - FAIDS Variant

We obtained our initial stock of Feline Leukemia Virus, FAIDS variant from Dr. Ed Hoover of Colorado State University.

Following the procedure for growing stock virus established by Dr. Hoover, feline embryonic fibroblasts, AH-927 (Dr. Hoover), were grown in Eagle's minimum essential medium containing 10% heat inactivated fetal bovine serum (FBS) and 1% non-essential amino acids. Twenty-four hours prior to infecting with virus, the cells were subcultured at a ratio of 1:4 and 0.2 ml of polybrene (2 mg/ml stock) was added for each 100 ml growth medium. On the day of infection, the growth medium was removed and the cells were washed twice with phosphate buffered saline (PBS). The virus inoculum was allowed to adsorb for 1 hour at 37°C. The virus inoculum was removed, the cells washed twice with PBS, and then a minimal volume of growth medium containing polybrene was added. After five days incubation the culture fluid was collected and clarified by centrifugation (5000 rpm x 15 min). The supernate was dispensed into 1.0-ml aliquots, frozen, and then stored at -120°C. One aliquot was used to determine the TCID₅₀ and the focus forming unit (FFU) titers of the stock.

Antiviral screening of compounds for activity against FeLV-FAIDS was performed in 96-well trays (Corning). This screening procedure is a modification of the FeLV infectivity assay established by Fischinger *et al.*, (1974). Forty-eight hours prior to the assay, the indicator cells, 81C (obtained from D. Graves, University of Oklahoma, Oklahoma City, OK) were subcultured at a ratio of 1:2. Twenty hours prior to the assay, 96-well trays were seeded with the 81C cells at 5×10^3 cells/well. On the day of the assay, the cells were pretreated for 30 minutes at 37°C with DEAE-dextran (25 µg/ml) in 0.1 ml Hanks balanced salt solution. This was removed and then 0.1 ml of growth medium containing 32 TCID₅₀ of FeLV-FAIDS, or 0.1 ml of growth medium alone, was added to each well. The virus was

allowed to adsorb for 1 hour, then 0.1 ml of test or control compound (ddC or AZT), or growth medium was added. Plates were incubated at 37°C. Cells were fed fresh growth medium containing compound on Day 4 post-infection. Culture media were completely changed and replaced with fresh media containing compound on Day 7 post-infection. On Day 10 post-infection the cells were fixed by addition of 100 µl buffered formalin for at least 1 hr at room temperature. All liquid was then removed and then the cells were stained with 0.1% Coomassie Brilliant Blue R-250. The plates were rinsed with deionized water, allowed to dry, and then observed microscopically for CPE and drug cytotoxicity.

9. Simian Retrovirus - SAIDS (SRV-2)

We received from Dr. Che-Chung Tsai (Washington Regional Primate Research Center) one T-25 flask and one 15 ml tube of a co-culture of Raji cells infected with a simian type D retrovirus (SRV-2) isolated from a macaque with SAIDS at the Washington Regional Primate Research Center. Subsequently, we purchased uninfected Raji cells (CCL-86) from the ATCC for the purpose of making fresh co-cultures with which to propagate the virus. These cells were successfully grown in Iscove's Modified Dulbecco's Medium containing 15% FBS (complete Iscove's). The cells were subcultured every three days by a split ratio of 1:3. This yielded approximately $3-5 \times 10^5$ cells/ml.

Co-cultures of normal Raji cells and Raji cells infected with SRV-2 were also maintained in complete Iscove's. These cells were subcultured every three days by a split ratio of 1:3 (yield = $3-5 \times 10^5$ cells/ml). Raji cells and infected co-cultures were maintained regularly. Fresh co-cultures were routinely set up according to the procedure provided by Dr. Che-Chung Tsai. Briefly, 1 ml of 8 ml of an actively growing co-culture was added to a T-25 flask containing 8 ml of complete Iscove's medium to which 0.5 ml of actively growing Raji cells had been added. This new co-culture was incubated at 37°C with 5% CO₂ with the flask in an upright position.

The antiviral screening of compounds against the SAIDS virus was performed by a syncytia-inhibition assay on Raji cells. Compounds were diluted in complete Iscove's medium and then 100 µl of each dilution was added to the appropriate wells of a 96-well plate. Actively growing Raji cells, 5×10^3 cells in 50 µl of complete Iscove's medium, were then added to each well. This was followed by the addition of 50 µl of clarified supernate from an SRV-2/Raji cell co-culture. Plates were incubated at 37°C in a humidified atmosphere containing 5% CO₂. Syncytia were counted on Day 7 post-infection. Drug toxicities were ascertained by comparing viable cell counts of uninfected, drug-treated samples to the viabilities of uninfected, untreated controls.

10. Murine Leukemia Virus (Rauscher)

Falcon 6-well tissue culture plates were seeded with 1.75×10^5 SC-1 cells in 2.5 ml Eagle's minimum essential medium (EMEM) supplemented with 5% heat-inactivated FBS. On the following day the cultures were inoculated with 0.5 ml of a suspension of stock virus, at a dilution which produced a countable number of plaques per well, and 2.0 ml of the appropriate dilution of drug. Cell control cultures were refed with 2.5 ml medium and the virus control cultures received 0.5 ml virus suspension plus 2.0 ml medium. On Day 3 post-virus inoculation, the cultures were irradiated with an ultraviolet germicidal lamp for 20 seconds at a distance of 27.6 cm. Immediately after irradiation, 5×10^5 XC cells were added in 2.5 ml EMEM + 10% heat-inactivated FBS. On Day 3 post-UV-irradiation, the cultures were fixed with formalin and stained with crystal violet. The plaques were counted with the aid of a dissection microscope.

Antiviral activity was expressed in terms of the reduction in the mean number of plaques counted in the drug-treated virus-infected cultures compared with the mean number of plaques counted in the

untreated virus-infected control cultures. The drug concentration which reduced the mean plaque number by 50% (ID_{50}) was calculated using a regression analysis program for semi-log curve fitting and was expressed as $\mu\text{g/ml}$. The therapeutic index (TI) was determined by dividing the minimum toxic concentration (MTC) by the ID_{50} .

Drug toxicity was measured by the MTT dye conversion assay. SC-1 cells were seeded into 96-well tissue culture plates at a concentration of 6.0×10^3 cells per well in 0.2 ml EMEM + 5% heat-inactivated FBS. The following day the cell control cultures were refed with 100 μl fresh medium. Drug toxicity cultures and drug color controls received 20 μl medium + 80 μl of the appropriate drug dilution. On Day 3 after addition of drug, 50 μl of a solution containing 2 mg/ml MTT in EMEM + 5% FBS was added per well. Seven hours later 100 μl of 10% SDS:0.01N HCl was added per well. The cultures were incubated overnight and the optical density (O.D.) read the following day at 570 nm on a Perkin-Elmer lambda plate reader.

E. Mechanism of Action

1. ID_{50} For Reverse Transcriptase

The following compounds were obtained from the indicated sources: leupeptin, pepstatin, and ribosomal RNA (16 S and 23 S) from E. coli MRE 600, Boehringer Mannheim Chemicals; poly(rA) \cdot p(dT)₁₂₋₁₈, 2'-deoxythymidine 5'-triphosphate sodium salt (dTTP), 2'-deoxyguanosine 5'-triphosphate sodium salt (dGTP), 2'-deoxyadenosine 5'-triphosphate sodium salt (dATP), 2'-deoxycytidine 5'-triphosphate sodium salt (dCTP), and 2',3'-dideoxythymidine 5'-triphosphate sodium salt (ddTTP), Pharmacia; DNA primer (TAACCTTGCGGCCGT), Genetic Designs, Inc.; Triton X-100 (Surfact-Amps X-100 10% solution), Pierce; and [methyl, 1',2'-³H]-deoxythymidine 5'-triphosphate tetrasodium salt in Tricine buffer (100 Ci/mmol), NEN Research Products. Avian Myeloblastosis Virus (AMV) reverse transcriptase was purchased from Bio-Rad Laboratories and Moloney Murine Leukemia Virus (MuLV) reverse transcriptase from Bethesda Research Laboratories.

Prior to April of 1990, HIV-1 reverse transcriptase stocks were prepared in the following manner. Initially, H₉ or CEM cells infected with the HTLV-III_B strain of HIV-1 were used. The infected cells were grown in media for at least three days. The cells were removed by low speed centrifugation and virus pelleted from the clarified supernatant by centrifugation at 16,000 x g for 2 hours at 4°C. The virus pellet was resuspended in 1/10th of the initial supernatant volume in 10 mM Tris-HCl (pH 7.8), 1 mM ethylenediaminetetraacetic acid (EDTA), 200 mM KCl, 10 mM β -mercaptoethanol, 3 μM leupeptin, and 0.5% Triton X-100, dispersed by vortexing, and kept at room temperature for 1 hour to ensure complete disruption of the virus coat. Glycerol was added to the sample to make it 30% in that reagent and the sample stored at -20°C.

A stock of Rauscher MuLV reverse transcriptase was prepared from cell-free culture medium which contained only the Rauscher MuLV and none of the spleen focus-forming virus (SFVV). The virus pellet was resuspended in 1/10th of the initial supernatant volume in 40 mM Tris-HCl (pH 7.8), 0.2% Triton X-100, 20 mM β -mercaptoethanol, 6 μM leupeptin, 400 mM KCl, and 2 mM EDTA and dispersed by vortexing. Glycerol was added to the sample to make it 30% in that reagent and the sample stored at -20°C.

After April of 1990, partially purified stocks of HIV-1 or HIV-2 reverse transcriptases were used in the mechanism of action studies. CEM₁ cells were infected with either a strain of HIV-1 that produces high extracellular levels of reverse transcriptase (SK1 strain) or the ROD isolate of HIV-2. The virus

was pelleted from cell-free supernatant by centrifugation and resuspended in 10 mM Tris-HCl (pH 7.8), 1 mM EDTA, 200 mM KCl, 10 mM β -mercaptoethanol, 1 μ M pepstatin, 3 μ M leupeptin, and 0.5% Triton X-100. The HIV-1 reverse transcriptase was purified on a single-strand DNA cellulose column equilibrated in 25 mM potassium phosphate (pH 7.4), 10% glycerol, 1 mM phenylmethylsulfonyl fluoride (PMSF), and 10 mM β -mercaptoethanol. Reverse transcriptase was eluted from the column with a 0 - 1 N KCl gradient. The column was monitored by measuring reverse transcriptase activity, single strand DNA nuclease activity, and terminal transferase activity (Protein could not be detected by either measuring absorbance at 280 nm or by Bio-Rad's microprotein method.) Fractions from the ascending portion of the reverse transcriptase activity curve (which were essentially free of nuclease activity and free of terminal transferase activity) were pooled. The HIV-2 reverse transcriptase was purified by a two step procedure. The cell-free viral pellet was applied to a Blue-Sepharose column equilibrated with buffer containing 25 mM Tris-HCl (pH 7.4), 10% glycerol, 1 mM PMSF, and 10 mM β -mercaptoethanol. The reverse transcriptase was eluted by a gradient of 0.2 to 1.0 N KCl. Fractions containing HIV-2 reverse transcriptase activity greater than 500,000 dpm's/10 μ l were pooled and, after dialysis to remove salt, applied to a Affi-Gel Heparin column equilibrated in 25 mM potassium phosphate buffer (pH 7.4), 10% glycerol, 1 mM PMSF, and 10 mM β -mercaptoethanol. The reverse transcriptase was eluted with a gradient from 0 to 0.8 N KCl. This purification procedure gives a pool of HIV-2 reverse transcriptase free of contaminating nuclease and terminal transferase activity. Bovine serum albumin was added to the final pool of each reverse transcriptase at a final concentration of 200 μ g/ml. Each enzyme stock was dialyzed against 25 mM Tris (pH 7.4) buffer containing 10 mM β -mercaptoethanol, 30% glycerol, and 0.01% Triton X-100, aliquoted, and stored at -70°C until needed.

The poly(rA)*p(dT) template-primer was prepared by dissolving 1 mg of poly(rA)*p(dT)₁₂₋₁₈ in 1 ml of H₂O, heating at 42°C for 5 minutes, and cooling slowly to room temperature. The ribosomal RNA template-primer was prepared by annealing the DNA primer to the 16 S ribosomal RNA at a 3:1 molar ratio. Two hundred (200) μ g of 16 S/23 S ribosomal RNA and 2 μ g of DNA primer were mixed in 0.05 N NaCl, 0.2 M Tris-HCl, pH 8.0 (final volume 200 μ l). The mixture was placed in boiling H₂O and then allowed to cool slowly (overnight) to room temperature. Assuming that this 3:1 molar ratio of primer to template is sufficient to anneal one DNA primer to each 16 S ribosomal RNA molecule, then the concentration in the stock of 3'-hydroxyl's available for extension by the enzyme is 0.73 μ M. The gaped duplex DNA was prepared from calf thymus DNA by the method of Baril *et al.*, (1977). Stock solutions of each template-primer were divided into small aliquots and stored at -20°C until needed.

The following routine procedures were used to prepare the unknown compounds for testing. Water soluble compounds were dissolved at either 1.0 mg/ml or 0.5 mg/ml in H₂O on the day of the initial assay. Vortexing or sonicating the solution may be used to solubilize the compound. If needed, the solution may be heated. Hydrophobic compounds were dissolved at 5.0 mg/ml in solvent, diluted with H₂O on the day of the initial assay to 0.5 mg/ml (10% in solvent). Vortexing or sonicating the solution may be used to solubilize the compound. If needed, the solution may be heated. This stock is diluted as needed with H₂O and sufficient solvent to give the appropriate drug concentration in 10% solvent. The preferred solvent is DMSO followed by MeOH, EtOH, and acetone. If the drug is insoluble in these solvents then specific instructions are obtained from the project officer for testing the drug.

2. HIV-1 reverse transcriptase inhibition screen with the poly(rA)*p(dT)₁₂₋₁₈ template.

For water soluble drugs the following protocol was used. Ten μ l of a solution containing the test compound was added to one well of a 96-well flat bottom microtest plate with lid, followed by 10 μ l of enzyme solution, and finally 30 μ l of a mixture containing the assay buffer, template-primer, and substrate. The final assay for HIV-1 reverse transcriptase contained 59.4 mM Tris-HCl (pH 7.9), 0.07% Triton X-100, 109 mM KCl, 9.0 mM MgCl₂, 7.2 mM β -mercaptoethanol, 0.36 mM ethyleneglycol-bis-(β -aminoethyl ether) N,N,N',N'-tetraacetic acid (EGTA), 0.14 mM EDTA, 0.42 μ M leupeptin, 6% glycerol, 1 μ g of poly(rA)*p(dT)₁₂₋₁₈, and 60 μ M dTTP (4.16 mCi ³H/ μ mole dTTP). The final assay

for AMV reverse transcriptase contained 78 mM Tris-HCl (pH 7.9), 109 mM KCl, 12 mM MgCl₂, 8 mM β-mercaptoethanol, 0.49 mM EGTA, 1 μg of poly(rA)*p(dT)₁₂₋₁₈, and 60 μM dTTP (4.16 mCi ³H/μmole dTTP). The final assay for Moloney MuLV reverse transcriptase contained 78 mM Tris-HCl (pH 7.9), 12 mM MgCl₂, 8 mM β-mercaptoethanol, 0.49 mM EGTA, 0.25 μg albumin, 1 μg of poly(rA)*p(dT)₁₂₋₁₈, and 60 μM dTTP (4.16 mCi ³H/μmole dTTP). The final assay for Rauscher MuLV reverse transcriptase assay contained 69 mM Tris-HCl (pH 7.8), 0.028% Triton X-100, 136 KCl, 0.6 mM MnCl₂, 11 mM β-mercaptoethanol, 0.88 mM EDTA, 0.84 μM leupeptin, 6% glycerol, 1.25 μg of poly(rA)*p(dT)₁₂₋₁₈, and 200 μM dTTP (400 μCi ³H/μmole dTTP). The HIV-1 and AMV reverse transcriptase assays were run for 1 hour at 37° C, the Moloney MuLV reverse transcriptase assay for 45 minutes, and the Rauscher MuLV reverse transcriptase assay for 30 minutes. They were terminated by the addition of 65 μl of 0.2 M sodium pyrophosphate. One hundred μl from each well was spotted on a Whatman GF/A glass microfibre filter and processed by the method described by White *et al.*, (1982). For the HIV-1 and AMV reverse transcriptase assays results are expressed as picocuries of dTTP incorporated per hour, for the Moloney MuLV reverse transcriptase as picocuries of dTTP incorporated per 45 minutes, and for the Rauscher MuLV reverse transcriptase as picocuries of dTTP incorporated per 30 minutes. Each sample is assayed in quadruplicate and the average, standard deviation (S.D.), standard error (S.E.), and coefficient of variation (C.V.) are calculated.

For DMSO soluble compounds the protocol was modified as follows. Twenty-five μl of a solution containing the test compound was added to one well of a 96-well flat bottom microtest plate with lid, followed by 10 μl of enzyme solution, and finally 15 μl of a mixture containing the assay buffer, template-primer, and substrate. The final assay for HIV-1 reverse transcriptase contained 57.4 mM Tris-HCl (pH 7.9), 0.07% Triton X-100, 2% DMSO, 106.4 mM KCl, 8.68 mM MgCl₂, 7.0 mM β-mercaptoethanol, 0.35 mM EGTA, 0.14 mM EDTA, 0.42 μM leupeptin, 6% glycerol, 1 μg of poly(rA)*p(dT)₁₂₋₁₈, and 60 μM dTTP (4.16 mCi ³H/μmole dTTP). The final assay for AMV reverse transcriptase contained 76 mM Tris-HCl (pH 7.9), 2% DMSO, 106.4 mM KCl, 12 mM MgCl₂, 8 mM β-mercaptoethanol, 0.48 mM EGTA, 1 μg of poly(rA)*p(dT)₁₂₋₁₈, and 60 μM dTTP (4.16 mCi ³H/μmole dTTP). The final assay for Moloney MuLV reverse transcriptase contained 76 mM Tris-HCl (pH 7.9), 2% DMSO, 12 mM MgCl₂, 8 mM β-mercaptoethanol, 0.48 mM EGTA, 1 μg of poly(rA)*p(dT)₁₂₋₁₈, and 60 μM dTTP (4.16 mCi ³H/μmole dTTP). The HIV-1 and AMV reverse transcriptase assays were run for 1 hour at 37°C and the Moloney MuLV reverse transcriptase assay for 45 minutes at the same temperature. They were terminated by the addition of 65 μl of 0.2 M sodium pyrophosphate. One hundred μl from each well was spotted on a Whatman GF/A glass microfibre filter and processed by the method described above. Results are reported as described above.

Each screen was set up in the same format. The first four samples are blank filters which have been through the wash procedure. Two sets of controls (OE) which are assays without any enzyme solution are run; one is at the beginning and one at the end of each screen. Two sets of assays in which no inhibitor was present (OI) are always included. Positive controls with a known reverse transcriptase inhibitor, ddTTP or phosphonoformic acid (PFA), are also included. (If the compound is solubilized in DMSO then the OE, OI, and positive drug controls also contain 2% DMSO). In addition, 5 μl aliquots of the assay solution are also counted; this can be used to convert the data to picomoles of dTTP incorporated. Initially, each AVS compound is tested at 100, 50, and 10 μg/ml to see if it inhibits reverse transcriptase in this assay system. If it does, then additional screens are done at drug concentrations tailored to each compound so that the concentration that inhibits the enzyme by 50% (ID₅₀) can be calculated.

b. HIV-1 and HIV-2 reverse transcriptase inhibition screens with the heteropolymer templates.

To determine the effect of a water soluble inhibitor on HIV-1 and HIV-2 reverse transcriptase, 10 μ l of a solution containing the test compound was added to one well of a 96-well flat bottom microtest plate with lid, followed by 30 μ l of a mixture containing the assay buffer, template-primer, and substrates. The reaction was started by the addition of 10 μ l of a solution containing the enzyme. The assay on the ribosomal RNA template contained 50 mM Tris-HCl (pH 7.4), 50 mM KCl, 10 mM MgCl₂, 4 mM β -mercaptoethanol, 1 mg/ml bovine serum albumin, 3% glycerol, 6.66 μ g/ml of rRNA-primer, 10 μ M dATP, 10 μ M dCTP, 10 μ M dGTP, and 2 μ M dTTP (101.9 mCi ³H/ μ mole dTTP). The assay on a gaped duplex DNA template contained 50 mM Tris-HCl (pH 7.4), 125 mM KCl, 2 mM MgCl₂, 4 mM β -mercaptoethanol, 1 mg/ml bovine serum albumin, 10 μ g/ml of gaped duplex DNA, 10 μ M dATP, 10 μ M dCTP, 10 μ M dGTP, and 2 μ M dTTP (101.9 mCi ³H/ μ mole dTTP). Each assay was run for 1 hour at 37°C, and terminated by the addition of 65 μ l of 0.2 M sodium pyrophosphate. One hundred μ l from each well was spotted on a GF/A glass microfibre filter and processed by the method described by White *et al.*, (1982). For hydrophobic compounds, each well contained the solvent at 2% (v/v).

Each screen was set up in the same format. Two sets of controls (OE) which are assays without any enzyme solution are run; one is at the beginning and one at the end of each screen. Two sets of assays in which no inhibitor was present (OI) are always included. Positive controls with a known reverse transcriptase inhibitor, ddTTP, are also included. (If the compound is in a solvent other than H₂O then the assays for the OE, OI, and positive drug controls also contain that solvent at 2.0%.) In addition, 5 μ l aliquots of the assay solution are also counted; this could be used to convert the data to picomoles of dTTP incorporated. Initially, each AVS compound is tested at 100, 50, and 10 μ g/ml to see if it inhibits reverse transcriptase in this assay system. If it does, then additional screens are done at drug concentrations tailored to each compound so that the concentration that inhibits the enzyme by 50% (ID₅₀) can be calculated.

2. Comparison Of Known Inhibitors Of Reverse Transcriptase

Several known inhibitors of reverse transcriptase were tested against the enzymes from the four viruses. AZTTP was obtained from Burroughs Wellcome Company, the 5' triphosphate of carbovir was synthesized at SRI, and ddGTP was purchased from Boehringer Mannheim. When the two guanosine analogs were tested the template primer was poly (rC)₁₂₋₁₈ and the radioactive tracer was ³H-dGTP. As shown in Table 1, HIV-1 reverse transcriptase was at least an order of magnitude more sensitive to inhibition by all of the compounds than any of the other three enzymes.

Table 1

Reverse Transcriptase Inhibitors

Compound	Template	ID ₅₀ (μM)			
		HIV-1	AMV	McInoney MuLV	Rauscher MuLV
ddTTP	poly(rA)	0.03	3	33	> 50
AZTTP	"	0.03	0.29	0.8	17
PFA	"	0.2	7	n.t.	3
ddGTP	poly(rC)	0.05	0.58	5.6	> 50
Carbovir TP	"	0.03	0.75	2.6	14

n.t. = not tested

3. Characterization Of Cloned HIV-1 Reverse Transcriptase

Because of the potential hazards involved in preparing sufficient quantity of pelleted virus to serve as stock solutions for the HIV-1 reverse transcriptase inhibition assays, we investigated the possibility of using bacterial expressed viral reverse transcriptase. Dr. Casey Morrow at the University of Alabama in Birmingham has provided us with crude preparations of HIV-1 reverse transcriptase from *E. coli* containing either the viral gene segments for the protease, reverse transcriptase, and endonuclease or only the viral gene segment for the reverse transcriptase. We determined a number of enzymatic characteristics of these samples and compared them to those of the enzyme extracted from pelleted virus. For all of the parameters we examined, the three HIV-1 reverse transcriptase's appeared to be comparable, but not necessarily identical. Small differences, which may not be statistically significant, were observed in the K_m for dTTP, the ID₅₀ for ddTTP, and the degree of activation at low KCl concentrations.

The K_m for dTTP was 7 μM for the reverse transcriptase from pelleted virus, 15 μM for the enzyme from the bacterial expressed gene segment containing the protease and endonuclease as well as the reverse transcriptase, and 6 μM from the gene segment with only the reverse transcriptase. The effect of KCl on the activity of reverse transcriptase was also determined. The native enzyme and the reverse transcriptase from the gene segment without the protease appear to be identical. In the absence of KCl, the reverse transcriptase from the gene segment containing the protease and endonuclease is about 1/2

the activity of the other two reverse transcriptase's. An ID_{50} for ddTTP was determined for all three reverse transcriptase's. The HIV-1 reverse transcriptase from the gene fragment containing the protease and endonuclease has an ID_{50} (0.06 μ M) which is almost twice as large as that of the other two reverse transcriptase's (0.03 μ M). These data lend strong support to using bacterial expressed reverse transcriptase for the inhibition screen. In addition to being safer to handle than the virus, enzyme from this source does not contain the high levels of Triton X-100 needed to disrupt the virus pellet.

4. Purification Of Host Cell Enzymes

Human DNA polymerases α , β , and γ and DNA primase were partially purified from a human chronic myelogenous leukemia cell line (K562) grown in cell culture by a previously described method, Parker *et al.*, (1991). Briefly, 5 ml of packed cells were homogenized and loaded onto a 50-ml DEAE-cellulose column connected in tandem to a 50-ml cellulose-phosphate column equilibrated with a 50 mM potassium phosphate buffer (pH 7.5). The DNA polymerase α /DNA primase complex and DNA polymerase γ bound to the DEAE-cellulose column, and DNA polymerase β bound to the cellulose-phosphate column. DNA polymerase β was further purified by chromatography on single strand DNA-cellulose. The DNA polymerase α /DNA primase complex was separated from DNA polymerase γ by chromatography on cellulose-phosphate, and then each enzyme was further purified by chromatography on single strand DNA-cellulose. Under these mild purification procedures DNA polymerase α and DNA primase were not separated from one another. The three DNA polymerases were distinguished from one another by their chromatographic behavior, their template preference, and their sensitivities to dideoxynucleotides and N⁶-ethylmaleimide.

F. *In Vivo* Models

1. Murine Models

The overall rationale for establishing the *in vivo* model of murine ecotropic retrovirus disease is essentially the same as that for the primary drug discovery screens in tissue culture and cell-free systems, i.e., to evaluate the therapeutic potential of a variety of agents or combinations of agents and to select the most promising agents for further investigation and clinical trials. However, some major differences distinguish the *in vivo* murine retrovirus models from the primary drug screening programs. The primary screens were organized to evaluate large numbers of candidate agents, some of which had received little or no prior evaluation for any antiviral effects. The need to screen so many compounds required the development of a simple standardized panel of test cell lines for screening possible antiviral effects at non-lethal doses of the agents. However, screening potential antiretroviral agents with just a few cell lines has allowed only limited predictions of clinical activity. In contrast to this quantitatively extensive, but somewhat superficial approach to drug screening, the *in vivo* murine retroviral disease models evaluate in depth only a few selected agents, for which the primary drug screens or studies in other laboratories have indicated promise as biological response modifiers (BRM) and/or antiviral agents.

Two murine models of retroviral disease have been established: the LP-BM-5 virus mixture, dubbed murine AIDS (MAIDS) because it shares some of the features of the human disease, and Rauscher leukemia virus (RMuLV), which is actually a mixture of the Rauscher MuLV and the Rauscher SFVV. The LP-BM-5 model utilizes adult female C57BL/6 mice, and the RLV model uses adult female BALB/c mice. Treatment of infected mice with antivirals and BRM is initiated before or after infection with various schedules and doses. In the LP-BM-5 model, mice are sacrificed four weeks after infection. Anesthetized mice are weighed and exsanguinated, and spleen weights are recorded at the time of sacrifice. In the RLV model the same procedures are performed two or three weeks after infection.

Additional groups of LP-BM-5 infected mice are maintained without further treatment until death. Reduction in splenomegaly serves as the initial test for antiviral activity. Viremia (quantitated in an UV-XC plaque assay), RT levels, and IgM and IgG levels (by antibody-capture ELISA or radial immunodiffusion) are measured in serum samples. Agents which show activity in these assay systems are further evaluated for their ability to protect or restore immune function in LP-BM-5-infected animals. Various components of the immune system are monitored, including T-lymphocyte function by mixed lymphocyte reaction (MLR) and by mixed lymphocyte tumor reaction-cell mediated cytotoxicity (MLTR-CMC), which measures generation of cytotoxic T lymphocytes, natural killer (NK) activity, and macrophage activation. AIDS patients show deficiencies in a number of these immune functions. Additionally, due to the reported myelosuppressive effects of antiviral therapy, further studies focused on the effect of BRM and antivirals on the hematopoietic function of bone marrow stem cells, as measured in the *in vitro* colony formation assay.

a. UV-XC assay

The UV-XC assay involved a two-stage culture procedure to enumerate the number of plaque-forming units (PFU) in serum and other samples. SC-1 cells, originally derived from feral mouse embryos, were seeded in 12-well tissue culture plates at a density of 7×10^4 cells/ml. After 20 hours, the cultures were incubated with DEAE-dextran (25 μ g/ml) and rinsed. Then appropriate serial dilutions of virus samples were added. Three days after virus inoculation, the medium was decanted, and the cultures were irradiated with a UV lamp at a total dose of 1200 erg/mm². XC cells, a rat tumor cell line induced by Rous sarcoma virus, were added at a concentration of 2×10^5 /ml. Three days later, the cultures were rinsed, fixed with formalin and stained with crystal violet. Plaques in the cell monolayer were counted with a dissecting microscope. The infectious centers assay is a variation of the UV-XC assay in which single-cell suspensions of viable murine spleen cells serve as the source of virus, rather than serum or splenic homogenates. This assay quantitates the number of productively infected cells in the spleen.

b. Reverse transcriptase assay (murine)

The optimum conditions for the assay of RT from Rauscher MuLV were worked out using virus pelleted from cell-free culture medium. No Rauscher SFFV was present in the samples used for developmental work. The RT was extracted from the virus pellet by incubation with buffer containing 0.1% Triton X-100 and 200 mM KCl. The addition of the divalent cation Mn^{++} gave maximum enzyme activity in the range between 0.4 and 0.8 mM. KCl stimulated the enzyme activity up to about 150 mM, but was inhibitory at 220 mM. The pH optimum was tentatively determined to be around 7.8. The K_m for the template primer, poly(rA)*poly(dT)₁₂₋₁₈, was 4 μ g/ml and for the substrate dTTP it was 70 μ M.

The preceding information was used to establish a procedure for the assay of RT in sera infected with Rauscher MuLV and SFFV. Mouse sera are stored frozen (-70°C) and may either be thawed before beginning the procedure, or if the volume in the aliquot is known they may be thawed during the lysing procedure.

- 1) An equal volume of the following buffer is added to the mouse serum in a capped tube: 40mM Tris-HCl (pH 7.8) containing 0.2% Triton X-100, 20mM β -mercaptoethanol, 6 μ M leupeptin, 400 mM KCl, and 2 mM EDTA. This mixture may be left at room temperature until the sera has thawed.
- 2) Keep on ice for 30 minutes after thawing, invert once or twice during this period to ensure adequate mixing.
- 3) Either assay sample for RT activity immediately or store at 4°C until needed for assay.

- 4) Ten μ l of the lysate from Step 2 is incubated for 30 minutes at 37°C in a 50 μ l reaction containing 1.25 μ g of poly(rA) \cdot p(dT)₁₂₋₁₈, 200 μ M dTTP (400 μ Ci of ³H/ μ mole of dTTP), 8 mM β -mercaptoethanol, 120 mM KCl, 0.6 mM MnCl₂, 0.10 mM EDTA, 0.6 μ M leupeptin, and 0.02% Triton X-100 in 80 mM Tris-HCl (pH 7.8). The linear range of the assay is 1 to 100 picomoles of dTTP incorporated in the 30-minute incubation. Samples were then washed and harvested in a Skatron automated harvesting system. Incorporation of radioactivity was measured in a liquid scintillation counter.

A unit of activity is defined in terms of the number of picomoles of substrate incorporated in hour by 1 ml of sera.

c. Immunological methods

Natural Killer (NK) activity was measured in a 4-hour ⁵¹Cr release cytotoxicity assay. In this assay 10⁴ ⁵¹Cr-labelled YAC-1 target cells, a murine lymphoma line, were mixed with serial dilutions of effector cells, murine spleen cells, in the wells of a round-bottom, 96-well microtiter plate. The effector-to-target ratios range from 50:1 down to 6:1. After the 4-hour incubation, the supernatant was collected using a supernatant collection system (Skatron SCS), and release of radioactivity from killed target cells was measured in a gamma scintillation spectrometer. Results are expressed as % specific release of radioactivity, defined as 100 x [(experimental cpm released - spontaneously released cpm) / (maximum releasable cpm - spontaneously released cpm)], at the different effector-to-target ratios. Spontaneous release is measured in the absence of effector cells, and maximum release is determined by detergent lysis of the target cells. The activity of cytolytic T lymphocytes was measured by a MLTR-CMC assay. This is a two-stage procedure involving an *in vivo* immunization step, followed by a short-term cytotoxicity assay. In the immunization phase, murine spleen cells were co-cultured for five days with γ -irradiated, allogeneic P815 cells, a murine mastocytoma line, as stimulators. The stimulated spleen cells were harvested after the five-day culture, and their cytolytic activity against P815 cells was measured in a four-hour ⁵¹Cr release assay. This assay is performed in a fashion similar to the NK assay described above, except that ⁵¹Cr-labelled P815 cells are used as targets.

2. Simian Models

a. Antibody ELISA

A commercially produced HIV-2 antibody ELISA kit (Genetic Systems) has been tested for use for the detection of SIV antibodies with success. The assay is run over a 3 hour period and antibody titers can be determined using a kinetic microplate reader (Molecular Devices) allowing for the use of one set of duplicate wells.

b. ELISA Assay For SIV p24

A commercially produced HIV p24 ELISA kit (Coulter Electronics) cross-reacts with SIV p24.

c. Reverse Transcriptase Assay (Simian)

A microplate reverse transcriptase assay was developed. The assay is similar to that previously described by Spira *et al.*, (1987). Test fluids are treated with 30% polyethylene glycol overnight in order to precipitate the virus. The virus is pelleted and resuspended in 100 μ l TNE buffer (1 M Tris, 5 M NaCl, 0.1 M EDTA, pH 7.2). After the samples are mixed for two hours, 30 μ l of a polymerase reaction mix (0.0625 M Tris-HCl, pH 7.6, 0.125 M NaCl, 7.5 mM MgCl₂, 0.0125 M DTT, 5 mM oligo dT₁₂₋₁₈, 0.05 M poly (rA), 10% Triton X-100, 0.1562 mCi/ml ³H-dTTP) is added to 10 μ l of the virus suspension in a microtiter plate and allowed to incubate for 1 hr. The reaction is stopped by the

addition of 100 μ l of 10% TCA. The plates are harvested onto glass filters using a Skatron harvesting system and counted using a scintillation counter.

d. Virus Isolation Procedure

SIV is recovered from infected monkeys using a co-cultivation procedure. Fresh monkey peripheral blood leukocytes are collected with ficol-hypaque and stimulated with a maximal stimulating dose of phytohemagglutinin-p (5 μ g/ml) in RPMI 1640 containing 10% FBS. The cells are incubated overnight, washed and placed on 10% interleukin-2. The cell concentration is fixed at 3×10^6 per ml and 3×10^6 /ml phytohemagglutinin stimulated human peripheral blood leukocytes are added. The cultures are incubated for 28 days and sampled weekly for RT activity with weekly feeding with fresh human peripheral blood leukocytes and a 50% media replacement.

e. Infection Of Rhesus Macaques With SIVsmm/pbj

Two macaques lentivirus isolates (SIV_{mac} and SIV_{smm/pbj}) were chosen for SIV model development in Rhesus macaques. These isolates are similar in structure, but differ substantially in disease pathogenesis. The isolate developed is named SIV_{smm/pbj}, which causes death in pigtailed macaques within two weeks. The variant of SIV (strain SMM/PBj), isolated from a chronically infected pigtailed macaque at the Yerkes Primate Research Center, in previous studies produced acutely fatal disease in pigtail macaques. Six rhesus monkeys (three juveniles plus three adults) were inoculated IV with supernate fluid containing 3 TCID₅₀ from human peripheral blood lymphocyte cultures co-cultivated with spleen cells from the original pigtail macaque (PBj). Five of six seroconverted (Table 2), but only one rhesus monkey (a juvenile, #4EN) died (Day 10). Homogenized tissues from 4EN were passaged to additional monkeys in an attempt to increase lethality. One of the remaining juveniles developed diarrhea at Day 10, but recovered. Virus was recovered from all six monkeys on at least one occasion by co-cultivation of their lymphocytes with normal human peripheral blood leukocytes (PBL) (Table 3). In a second passage of the PBj isolate using 4EN derived tissue homogenates acute disease; four died (Days 8 - 10), one recovered (following rehydration), and one remained asymptomatic. All six seroconverted (Table 2) and had recoverable virus (Table 3). To date no adults (three of three) have developed acute disease, although two of three seroconverted and one of these has remained viremic (Table 3).

Clinical disease is characterized by diffuse, severe lymphadenopathy within 5 days of inoculation and severe diarrhea beginning 1 to 3 days before death. Anorexia, lymphopenia (<1000/mm³) and mild hypoalbuminemia preceded onset of diarrhea by 24 hours, while all other hematology and clinical chemistry parameters remained within normal limits. Aerobic and anaerobic blood cultures were negative, and there was no evidence of opportunistic viral or bacterial agents in GI or lymphoid tissues by light or electron microscopy or in feces by culture, ELISA, or electron microscopy. Necropsy revealed 2- to 10-fold increases in all lymphoid tissues; most severely affected were spleen, mesenteric lymph nodes, and gut-associated lymphoid tissues. Histologically lymphoid tissue is hyperplastic predominantly in T-cell dependent areas due to increased numbers of lymphocytes, histiocytes and reticular cells. Occasional multinucleated giant cells are present in the gut associated lymphoid tissues. In the gastrointestinal tract there was no gross or microscopic evidence of ulceration or erosion. However, there was severe multifocal to patchy villus blunting and fusion with crypt hyperplasia in the small intestine, and disorganization of mucosal epithelial structure in the colon. The cause of death appears to be untreatable GI fluid loss and acidosis.

Table 2

Antibody Titers for SIVpbj Infected Monkeys

Days Post Infection	Monkey Number								
	Adults			Juveniles			Controls		
Group 1	<u>112X</u>	<u>107X</u>	<u>LA26</u>	<u>HCI</u>	<u>4EN</u>	<u>4DH</u>	<u>48L</u>	<u>45E</u>	<u>46W</u>
0	0.9 ^a	1.3	0.9	1.3	1.0	0.6	0.6	0.6	0.5
7	0.9	0.8		0.9	1.0	0.5	0.6	0.5	0.6
14	0.9	0.6	1.0	0.6		0.8	0.5	0.5	0.6
21	1.1	0.4	1.1	4.8		3.6	0.5	4.9	0.8
35	7.6	1.0	5.1	10.9		6.9	0.5	0.6	0.9
67	9.2	2.8	15.6	14.4		9.2	0.6	0.7	0.8
80	9.9	2.2	14.5	13.0		10.1	1.1	1.1	0.9
94	4.2	2.3	17.0	14.2		12.8	0.8	0.8	0.8
178				18.3		15.4			
Group 2				<u>46A</u>	<u>46G</u>	<u>4CL</u>			
-11				0.3	0.3	0.2			
4				0.4	0.4	0.3			
7				0.5	0.5	0.3			
10					0.5				
18						1.8			
44						9.3			
129						23.0			
Group 3	<u>112X</u>	<u>107X</u>	<u>LA26</u>	<u>45E</u>	<u>48L</u>	<u>46W</u>			
4	11.9	1.6	19.3	1.0	0.3	0.6			
3	13.0	1.7	22.1	0.6	0.3	0.3			
10	13.5	1.9	19.8	1.4	0.4	0.8			
17	13.5	2.1	20.7	3.2	0.9				
30	15.3	1.6	26.3	8.0					
49	14.2	1.2	28.3	8.7					

^a milliOD/min on a kinetic read

Table 5
Virus Isolation by Cocultivation With Human PBI

Member No.	Days Post Challenge					
	11	12	23	27	30	34
Group 1						
4DH	POS(14) ^a	POS(14)	POS(21)	NEG	NEG	NEG
HCJ	POS(14)	POS(14)	POS(14)	POS(28)	NEG	POS(20)
4BN	POS(14)	DIED				
107X	NEG	POS(28)	NEG	NEG	NEG	NEG
112X	NEG	POS(28)	POS(21)	NEG	NEG	NEG
LA26	POS(14)	POS(14)	POS(14)	NEG	NEG	NEG
Controls						
48L	NEG	NEG	NEG	NEG	NEG	NEG
45F	NEG	NEG	NEG	NEG	NEG	NEG
46W	NEG	NEG	NEG	NEG	NEG	NEG
Group 2						
46A	4	7	10	12	22	42
46G	POS(14)	POS(14)	DIED			
4CL	POS(14)	POS(14)	POS(14)	DIED	NEG	POS(7)
	POS(14)	POS(14)	POS(14)	POS(14)		
Group 3						
46W	4	1	8	10	17	22
45F	NEG	POS(21)	POS(7)	DIED	POS(21)	NEG
48L	NEG	NEG	POS(14)	POS(7)	DIED	NEG
LA26	NEG	NEG	NEG	NEG	NEG	POS(28)
107X	NEG	NEG	NEG	NEG	NEG	NEG
112X	NEG	NEG	NEG	NEG	NEG	NEG

a = virus isolation (first day positive in cocultivation)

G. Special Projects

1. UV-XC Plaque Assay

Falcon 6-well tissue culture plates are seeded with 1.75×10^5 SC-1 cells in 2.5 ml Eagle's minimum essential medium supplemented with 5% heat-inactivated FBS, 100 u/ml penicillin, and 100 μ g/ml streptomycin. On the following day the medium is aspirated and the cultures are pretreated with DEAE-dextran (25 μ g/ml in FBS) for 1 hour at 37 °C. The DEAE-dextran is removed and the cultures are rinsed with PBS. Duplicate cultures are then inoculated with 0.5 ml of the appropriate dilution of serum. The inoculum is adsorbed for 1 hour, removed, and then the cultures are rinsed with PBS. The cultures are then refed with 2.5 ml medium.

On Day 3 post-virus inoculation, the medium is aspirated and cultures are irradiated with a UV germicidal lamp for 20 seconds at a distance of 27.6 cm. Immediately after irradiation, 5×10^5 XC cells are added in 2.5 ml Eagle's minimum essential medium + 10% FBS.

On Day 3 post-UV-irradiation, the cultures are fixed with formalin and stained with 0.1% crystal violet. The plaques are counted with the aid of a dissection microscope. The average PFU per ml is calculated by multiplying the average PFU $\times 2$ since the inoculum used is 0.5 ml.

2. Reverse Transcriptase Assay (Murine)

The optimum conditions for the assay of reverse transcriptase from Rauscher MuLV were worked out using Rauscher MuLV pelleted from cell-free culture medium. No Rauscher SFFV was present in the samples used for developmental work. The reverse transcriptase was extracted from the virus pellet by incubation with buffer containing 0.1% Triton X-100 and 200 mM KCl. The addition of the divalent cation Mn^{++} gave maximum enzyme activity in the range between 0.4 and 0.8 mM. KCl stimulated the enzyme activity up to about 150 mM, but was inhibitory at 220 mM. The pH optimum was determined to be around 7.8. The K_m for the template-primer, poly(rA) \cdot poly(dT)₁₂₋₁₈, was 4 μ g/ml and for the substrate, dTTP, it was 70 μ M.

The preceding information was used to establish a procedure for the assay of reverse transcriptase in sera infected with Rauscher MuLV SFFV. Mouse sera are stored frozen (-70 °C) and may either be thawed before beginning the procedure, or if the volume in the aliquot is known they may be thawed during the lysing procedure.

- a. An equal volume of the following buffer is added to the mouse serum in a capped tube: 40 mM Tris-HCl (pH 7.8) containing 0.2% Triton X-100, 20 mM β -mercaptoethanol, 6 μ M leupeptin, 400 mM KCl, and 2 mM EDTA. This mixture may be left at room temperature until the sera has thawed.
- b. Keep on ice for 30 minutes after thawing; invert once or twice during this period to ensure adequate mixing.
- c. Either assay sample for reverse transcriptase activity immediately or store at 4 °C until needed for assay.

- d. Ten μ l of the lysate (Step c) is incubated for 30 minutes at 37 °C in a 50 μ l reaction containing 1.25 μ g of poly(rA) \cdot p(dT)₁₂₋₁₈, 200 μ M dTTP (400 μ Ci of ³H/ μ mole of dTTP), 8 mM β -mercaptoethanol, 120 mM KCl, 0.6 mM MnCl₂, 0.10 mM EDTA, 0.6 μ M leupeptin, and 0.02% Triton X-100 in 80 mM Tris-HCl (pH 7.8). The linear range of the assay is 1 to 100 picomoles of dTTP incorporated in the 30-minute incubation.

A unit of activity is defined in terms of the number of picomoles of substrate incorporated in 1 hour by 1 ml of sera.

III. RESULTS

A. Primary Screens

During this reporting period (January 4, 1988 - April 30, 1991) we received 4481 compounds to be tested in the HIV primary screen. Cumulative primary screening activity has been summarized in Table 4. This Table denotes the number of compounds for which we have at least one satisfactory test (ATH8, MT-2 or CEM cells) against HIV-1. From January 1, 1990 until September 1, 1990, all submitted compounds were tested against MT-2 cells infected with the III_B isolate of HIV-1. Follow-up testing included assays on CEM cells infected with HIV-1_{RF}. For the remaining 4 months of 1990, all compound were routinely tested on both CEM and MT-2 cells infected with the RF isolate of HIV-1.

Table 4

In Vitro Antiviral Primary Screen: Number of Compounds Received and Tested According to Shipment Numbers as of April 30, 1991

Shipment Number	Compounds per Shipment	Date Received	HIV
9	16	09/12/86	16
11	38	10/17/86	38
12	7	11/03-04/86	7
13	40	11/13/86	40
15	26	12/05/86	26
16	32	12/12/86	32
17	31	01/13/87	31
18	30	01/30/87	30
19	101	03/02/87	101
20	71	03/18/87	71
21	85	04/14/87	76
22	89	05/05/87	85
23	4	05/08/87	4
24	7	06/03/87	6
25	9	06/12/87	8
26	67	06/26/87	67
27	46	07/21/87	46
28	12	08/10/87	12
29	6	08/19/87	6
30	134	09/03/87	120
31	110	09/11/87	106
32	130	10/09/87	103
33	69	11/03/87	69
34	46	11/25/87	46
35	80	12/22/87	78
36	49	01/29/88	49
37	47	03/09/88	47
38	2	03/15/88	2
39	76	03/23/88	76
40	88	04/26/88	88
41	78	05/13/88	75
42	85	06/14/88	49
43	84	07/08/88	46
44	56	08/10/88	56
45	83	09/13/88	82
46	75	10/06/88	73
47	1	10/20/88	1
48	33	11/02/88	33
51	12	01/10/89	12
52	5	02/09/89	5
53	84	03/15/89	84
54	30	04/19/89	28 ^a
56	117	05/12/89	111 ^a
57	67	06/07/89	60 ^a
58	91	07/13/89	79 ^a
59	34	08/11/89	30 ^a
60	46	09/07/89	46
61	83	10/06/89	83
62	158	11/21/89	140 ^a
63	129	02/07/90	129

Table 4 (Cont'd)

<u>Shipment Number</u>	<u>Compounds per Shipment</u>	<u>Date Received</u>	<u>HIV</u>
64	9	02/27/90	9
65	103	03/16/90	88 ^a
66	153	04/10/90	139 ^a
67	90	05/09/90	90
68	145	05/30/90	143 ^a
69	159	06/27/90	159
70	156	06/29/90	156
71	4	07/18/90	3 ^a
72	122	08/03/90	122
73	142	09/11/90	133 ^a
74	166	10/04/90	135 ^a
75	142	10/25/90	139 ^a
76	317	12/06/90	314 ^a
1A ^b	15	01/17/88	15
2A	1	02/23/88	1
3A	6	06/23/88	6
4A	19	08/26/88	19
5A	1	09/13/88	1
6A	1	10/05/88	1
7A	2	12/20/88	2
8A	15	12/29/88	15
9A	17	02/28/89	17
10A	9	03/02/89	8
11A	8	03/22/89	8
12A	1	05/10/89	1
13A	4	10/13/89	4
14A	15	12/01/89;01/04/90	14 ^a
15A	4	02/08/90	2 ^a
16A	6	02/27/90	6
17A	2	03/07/90	2
18A	4	04/09/90	4
19A	70	07/30/90;08/09/90	51 ^a
20A	324	09/12/90	324
21A	2	09/18/90	2
22A	203	09/21/90	203
23A	1	09/27/90	1
24A	8	11/09/90;11/19/90	8
25A	3	12/12/90	3
26A	3	12/20/90	3
27A	416	12/21/90	416
Cumulative Total	5767		5474

a = Supply of compound was insufficient for testing the remaining compounds in this shipment.

b = Shipment numbers with "A" code were received through the NCDDG program from Dr. Michael Chirigos.

Note: Compounds received prior to this contract period (i.e. 1/4/88 - 4/30/91) were tested on the AIDS ADD-ON Contract (Contract No. DAMD17-86-OC-6013).

MTT Assay: During this contract period we performed approximately 10,000 dose response test versus HIV-1 using ATH8, MT-2 or CEM cells. Approximately 10% of these tests were positive control (AZT and/or ddC) assays. A cumulative summary of all HIV testing (i.e., total experience through April 30, 1991) is included in Appendix A. Numerous compounds exhibited significant antiviral efficacy against HIV in ATH8, MT-2 or CEM cells during this contract period (See Appendix B). The most active compounds (i.e. confirmed activity with Selectivity Index (SI) of ≥ 10) are listed in Table 5.

During our overall experience of testing AVS compounds against HIV, several drugs have shown activity in one of the primary screens and were retested to confirm the initial positive results. These confirmed active compounds are listed in Appendix C. This list includes compounds from 1987, 1988, 1989, 1990 and 1991 testing.

Table 5

AVS Compounds Most Active^a Against HIV-1
from the Primary Screen

AVS No.	Activity Rating	AVS No.	Activity Rating	AVS No.	Activity Rating
0206	2	3819	3	5956	4
0598	4	3939	4	5996	2
0702	2	4035	4	6180	2
0703	2	4036	1	6184	2
0999	1	4075	2	6185	1
1603	4	4357	4	6192	1
1846	2	4593	1	6194	2
1850	1	4611	4	6195	1
2353	4	4730	4	6197	1
2572	1	4923	4	6198	1
2575	1	5025	2	6199	1
2581	1	5121	2	6200	2
2582	2	5186	3	6201	2
2585	2	5360	4	6208	3
2589	1	5691	2	6209	2
2600	2	5733	1	6210	3
2639	4	5872	1	6211	1
2657	4	5874	4	6215	3
2922	4	5875	1	6217	2
2955	4	5876	2	6218	3
2996	3	5880	2	6219	1
3345	3	5882	2	6220	2
3443	3	5884	3	6223	1
3491	4	5885	2	6289	2
3513	3	5887	3	6293	4
6466	4	7930	2	8260	3
6510	1	7974	4	8261	2

Table 5 (Cont'd)

AVS No.	Activity Rating	AVS No.	Activity Rating	AVS No.	Activity Rating
6511	3	7975	2	8366	1
6512	3	7976	4	8375	1
6777	1	7981	3	8434	2
6943	2	7983	2	8519	1
6947	2	8041	1	8520	4
7207	1	8225	3	8701	4
7208	2	8234	2	8702	4
7295	2	8235	1	8719	2
7767	4	8236	2	8720	2
7839	4	8237	2	9464	4
7890	2	8257	3	9466	3
7891	4	8259	4		

KEY	
Code	Selectivity Index (SI)
1	10-19
2	20-49
3	50-99
4	> 100

* Compounds included in this table have a Selectivity Index of ≥ 10 .

Two positive control drugs ddC and AZT were tested in parallel with each assay. ddC and AZT were tested at six concentrations per plate. The quality of the assay was determined by the activity displayed by the positive control drugs. If the positive control drug was not active (i.e. at least 50% CPE inhibition observed) in a given experiment, then the entire test was considered unsatisfactory and all compounds tested in parallel with this positive control drug were repeated. Typical results of the positive control drugs tested during this report period are listed in Tables 6, 7, 8 and 9. Results of these positive control drugs obtained during the course of this contract (i.e. total experience) are listed chronologically in Appendix A.

Table 6

Summary of Concurrent Positive Control Results for Dideoxycytidine
(ddC, AVS-2639) Versus HIV in CEM Cells (MTT Assay)

AVS No.	Plt Cell # Line	Test Date	Diff-rntl.	IC 50	TC 25	SI	TAI
2639	0AY CEM	03/28/89	1.361 <	0.03	0.83 >	25.90 >	14.89
2639	1G5 CEM	03/21/90	1.478	0.05	0.47	10.14 >	30.02
2639	1K8 CEM	04/26/90	0.700 <	0.03	0.25 >	7.85 >	32.76
2639	26J CEM	08/29/90	0.771	0.06	0.69	11.76 >	18.38
2639	2WX CEM	11/06/90	0.776	0.02	1.33	57.19	28.97
2639	3FM CEM	12/20/90	1.182	0.02	0.86	54.82	33.92
2639	47H CEM	01/29/91	0.813	0.002	0.08	36.90	33.12
2639	4AI CEM	02/08/91	0.988	0.003	0.18	66.16	33.52

Table 7

Summary of Concurrent Positive Control Results for Dideoxycytidine
(ddC, AVS-2639) Versus HIV in MT-2 Cells (MTT Assay)

AVS No.	Plt Cell # Line	Test Date	Diff-rntl.	IC 50	TC 25	SI	TAI
2639	23V MT2	08/23/90	1.193	0.47	9.50	20.30 >	52.65
2639	29U MT2	09/05/90	1.313	0.14 >	10.00 >	69.32 >	68.80
2639	2AF MT2	09/13/90	1.114	0.57 >	10.00 >	17.54 >	46.53
2639	2U4 MT2	10/23/90	0.952	0.05	4.94	93.50 >	66.19
2639	3ED MT2	12/12/90	0.920	0.05	4.55	99.52 >	72.00
2639	3ZC MT2	01/23/91	1.318	0.13	2.04	15.36 >	42.65
2639	481 MT2	01/31/91	1.465	0.09	1.90	20.81	43.62
2639	4DL MT2	02/22/91	1.325	0.15	9.74	53.71 >	69.09

Table 8

Summary of Concurrent Positive Control Results for AZT (AVS-1603)
Versus HIV in CEM Cells (MTT Assay)

AVS No.	Plt Cell # Line	Test Date	Diff-rntl.	IC 50	TC 25	SI	TAI
1603	2Z3 CEM	11/07/90	1.074	0.002 >	1.00 >	489.39 >	49.60
1603	JDT CEM	12/12/90	1.236	0.0009 >	1.00 >	1094.5 >	51.90
1603	3ES CEM	12/13/90	1.299	0.0007 >	1.00 >	1514.7 >	48.30
1603	3HC CEM	01/04/91	1.323	0.0005 >	1.00 >	1985.5 >	56.60
1603	3L7 CEM	01/11/91	0.665	0.0002 >	1.00 >	5436.2 >	76.20
1603	3NF CEM	01/18/91	0.958	0.0005 >	1.00 >	1975.9 >	53.87
1603	4J9 CEM	01/22/91	0.762	0.0006 >	1.00 >	1747.5 >	55.16
1603	3WD CEM	01/24/91	0.888	0.0005 >	1.00 >	2118.8 >	65.50
1603	3YQ CEM	01/25/91	1.368	0.002 >	1.00 >	409.49 >	41.09
1603	4CM CEM	02/20/91	0.758	0.0007 >	1.00 >	1420.8 >	48.46

Table 9

Summary of Concurrent Positive Control Results for AZT (AVS-1603)
Versus HIV in MT-2 Cells (MTT Assay)

AVS No.	Plt Cell # Line	Test Date	Diff-rntl.	IC 50	TC 25	SI	TAI
1603	OR6 MT2	08/08/89	1.227 <	0.03 >	10.00 >	312.50 >	83.13
1603	OQP MT2	08/09/89	1.094	0.05 >	10.00 >	207.09 >	81.65
1603	10F MT2	10/26/89	1.275	0.10 >	10.00 >	102.96 >	69.10
1603	14C MT2	12/05/89	1.366	0.13 >	10.00 >	75.30 >	67.54
1603	14L MT2	12/07/89	1.092 <	0.03 >	10.00 >	312.50 >	96.33
1603	15F MT2	12/20/89	1.309	0.06 >	10.00 >	160.24 >	82.94
1603	18N MT2	02/01/90	1.234	0.05 >	10.00 >	184.12 >	86.74
1603	1DS MT2	03/01/90	1.004	0.05 >	10.00 >	195.02 >	86.84
1603	1DK MT2	03/02/90	1.323	0.03 >	10.00 >	393.18 >	54.83
1603	1FG MT2	03/15/90	1.136	0.13 >	10.00 >	74.77 >	74.83

B. Secondary Screens

1. HIV

Five compounds received evaluation in secondary screening assays at SRI during 1990. These compounds included AVS 7891 and AVS 8520 as well as AVS 9466 (AM 242), AVS 9464 (AM 612) and AVS 9465 (AM 619). AVS 7891 and AVS 8520, derivatives of TIBO, were evaluated against a panel of HIV-1 and HIV-2 isolates, were evaluated in syncytial and chronic infection assays, and were evaluated in time of addition and variable MOI assays (see Experimental Methods, Section I). The results of these assays were accepted for publication in *Antiviral Research* in April, 1991. These data were also presented in Abstracts presented at Grenelle, FL (HIV Disease: Pathogenesis and Therapy), and New Orleans, LA (The Fourth International Conference on Antiviral Research). We determined in the performance of these assays that the TIBO compounds exhibited potent activity *in vitro* against HIV-1 but were totally inactive against isolates of HIV-2 (Table 10). In experiments examining the effect of delayed addition of the TIBO compounds (Figure 3), their activity paralleled that observed for AZT, consistent with their presumed mechanism of action. The TIBO compounds also exhibited activity similar to that observed for AZT in assays in which the multiplicity of infection was altered (Figure 4). We have also observed a reduction in syncytium formation when the TIBO compounds were incubated with chronically infected and uninfected CEM cells in short term (24 hours) cocultivation assays (Figure 5).

Table 10

Inhibition of HIV-1 Infectivity and Productivity by R82913

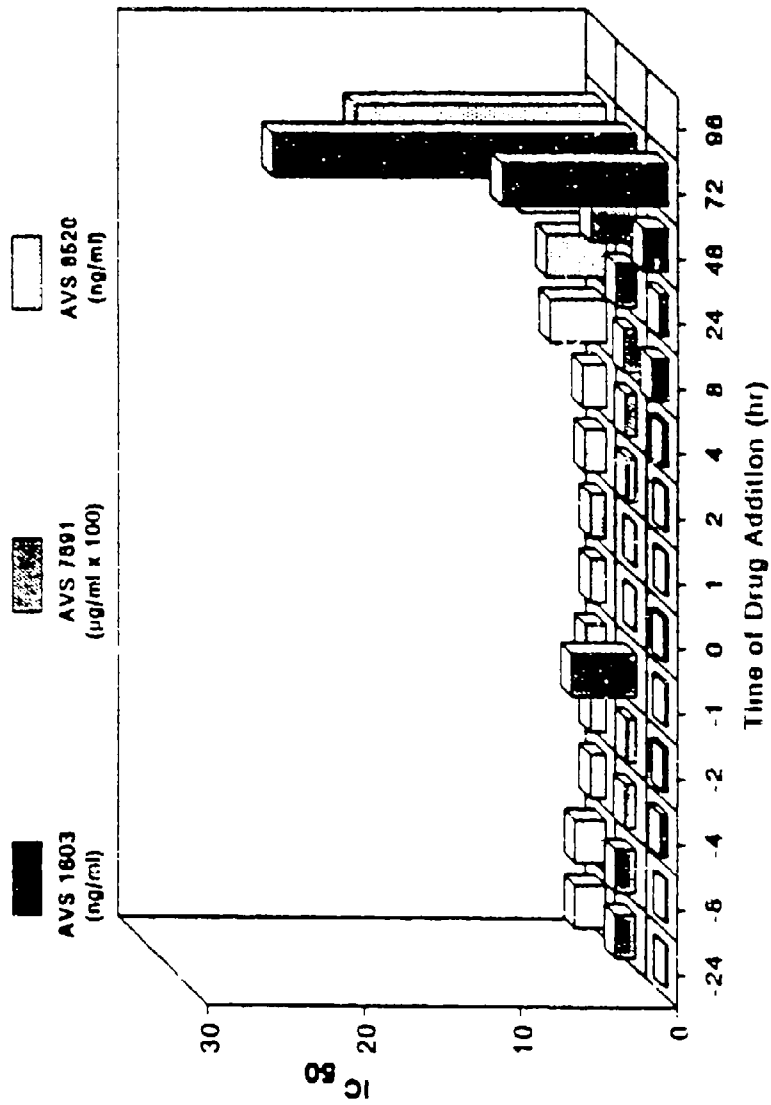
Isolate	IC ₅₀ (μM)	
	INFECTIVITY ^a	Productivity ^b
ED	0.009	0.060
SK1	0.034	0.031
RF	0.043	0.009
McK	0.064	0.078
HTLV-III _B	0.067	0.051
MN	0.124	0.092
LAV	0.148	0.149
214	0.161	0.058
KELL	0.183	0.143
G	0.188	0.075
205	0.205	0.065
C	0.222	0.095
PM16	0.652	0.161
HIV-2 _{ROD}	> 310	> 310

^aInfectivity is measured by MTT quantitation of cytopathic effects in culture.

^bProductivity is measured by reverse transcriptase assay of cell free supernatant samples.

The AM compounds were the subject of a poster presented at the Symposium of Antivirals, Vaccines, and Immunotherapy of HIV Infection, St. Petersburg Beach, FL, in May 1991. Two of these compounds, which are polysaccharides, are highly active against HIV-1 with toxicity observed at higher concentrations. The third compound (AM669) has a great deal of toxicity when tested in CEM and MT2 cells. The activity of these compounds was detected near the end of the funding period of this Contract.

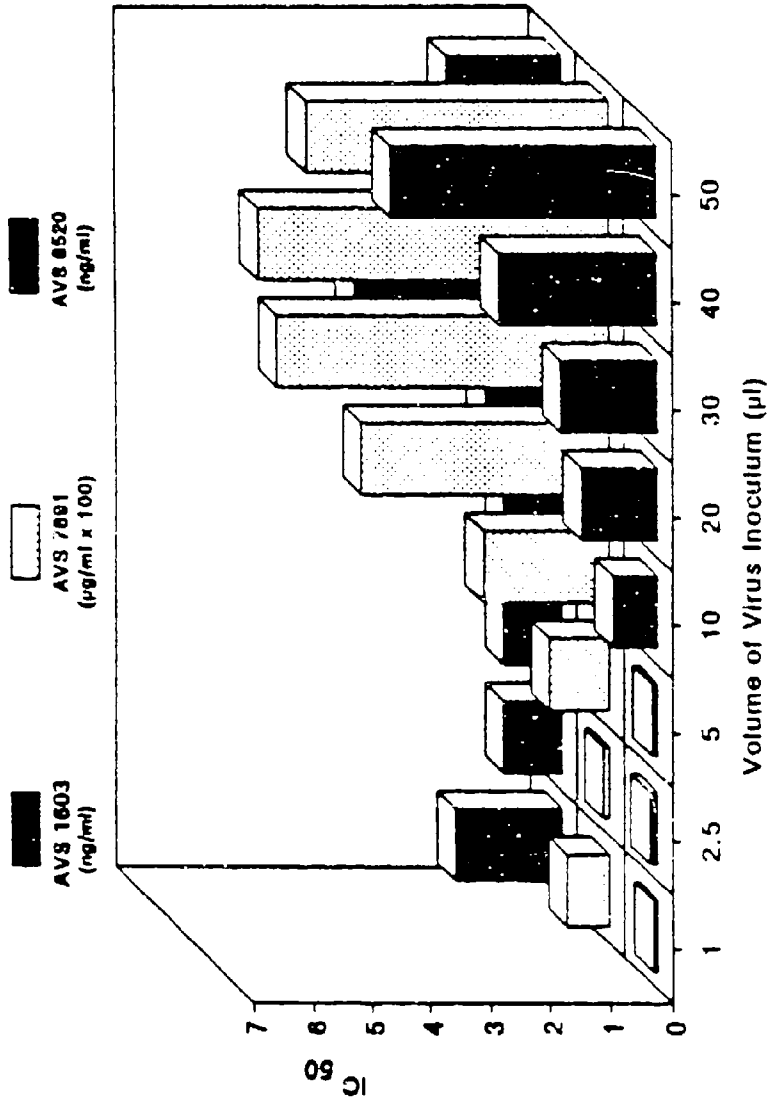
**Effect of Time of Drug Addition to HIV-Infected
CEM Cells on Antiviral Activity (XTT)**



**Effect of Time of Drug Addition to HIV-Infected
CEM Cells on Antiviral Activity (XTT)**

Figure 3

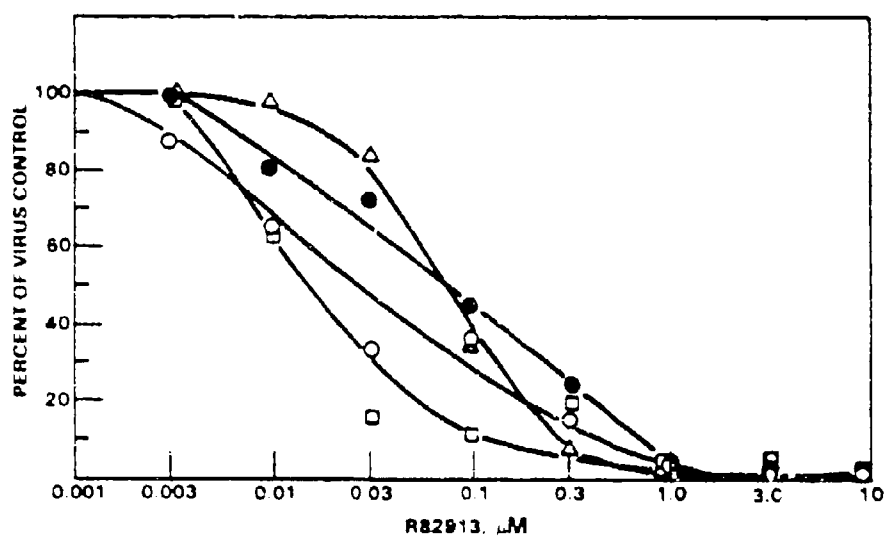
**Effect of Multiplicity of Infection on
Antiviral Activity in CEM Cells (XTT)**



**Effect of Multiplicity of Infection on
Antiviral Activity in CEM Cells (XTT)**

Figure 4

SYNCYTIUM REDUCTION ACTIVITY OF R82913



CEM cells were chronically infected with either HIV-1_{RF} (● and Δ) or HIV-1_{BR} (○). The effect of AZT on CEM-RF is shown for comparison (□).

Syncytium Reduction Activity of R82913

Figure 5

2. FeLV-FAIDS Variant

Selected compounds were requested to be tested against the FeLV. AVS 206, AVS 999 and AVS 2708 exhibited activity superior to the positive control, ddC with TI's of 13, 12 and 78, respectively. Dideoxycytidine (ddC) was tested in parallel as the positive control drug. These data are summarized in Table 11.

FAIDS assays were done in F81C cells. An active compound is defined here as having a (TI) of greater than 1.0 and a VR of 1.0 or greater. The VR is a measurement of selective antiviral activity which takes into account the degree of inhibition of virus-induced CPE and the degree of cytotoxicity produced by the test compound, determined by a modification of the method of Ehrlich *et al.*, (1965). The drug concentration which reduced the CPE by 50% (50% inhibitory dose, MIC₅₀) was calculated using a regression analysis program for semilog curve fitting and is shown here in units of $\mu\text{g/ml}$. The TI is calculated by dividing the MTC₅₀ by the MIC₅₀.

Table 11
Compounds Tested Against FAIDS Variant (FeLV)

AVS No.	VR	MIC ₅₀ (µg/ml)	MTC ₅₀ (µg/ml)	TI
0206	3.0	25	320	13
0215	1.6	21	32	1.6
0222	1.6	48	32	0.7
0999	2.4	8.1	100	12
2280	1.2	240	> 320	> 1.3
2291	2.2	9.7	100	10
2397	1.8	51	100	2.0
2445	1.9	46	32	0.7
2448	1.2	-	320	-
2563	0.6	-	3.2	-
2574	1.3	29	32	1.1
2585	1.6	12	32	2.7
2587	1.7	12	32	2.6
2657	1.4	17	< 100	5.9
2708	4.7	1.3	100	78
2748	0.2	-	0.32	-
5010	1.1	171	100	0.6
5011	1.2	-	100	-
5013	0.6	-	320	-
5014	0.3	-	100	-
5015	0.2	-	100	-
5016	0.5	294	100	0.3
5017	0.2	-	100	-

Positive Control Drug (Typical Results)

2639(ddC)	2.7	1.0	10	10
	2.7	0.6	3.3	5.4

3. SAIDS

Selected compounds were requested to be tested against the Simian Retrovirus 2 (SRV2). Eighteen of the 24 compounds showed some antiviral activity. AVS-2576, 2996 and 2629 demonstrated significant anti-HIV activity with TI's of 635, 82 and 61, respectively. Dideoxycytidine (ddC) was tested in parallel as the positive control and produced a mean TI of 71 (based on 4 tests). These data are summarized in Table 12.

Table 12
Compounds Tested Against SAIDS (SRV2)

AVS No.	Shipment	MIC ₅₀ ($\mu\text{g/ml}$)	MTC ₅₀ ($\mu\text{g/ml}$)	TI
5019	4A	100	> 320	> 3.2
5020	4A	179	> 320	> 1.8
5010	4A	-	> 320	-
5011	4A	-	> 320	-
5016	4A	-	> 320	-
5017	4A	-	> 320	-
5018	4A	-	> 320	-
5021	4A	-	320	-
2285		10.2	> 320	> 31
2576	19	0.5	> 320	> 635
2996	27	3.9	> 320	> 82
2629	19	1.6	< 100	61
0206	9	9.1	> 320	> 35
2708	22	10	> 320	> 32
2358	15	3.8	< 100	27
2397	16	13.6	> 320	> 24
2397 ^b	16	84.6	> 320	> 4
2574	19	14.7	> 320	> 22
2657	21	14.9	> 320	> 21
2445	18	4.8	< 100	21
2393	16	20.2	> 320	> 16
2353	11	27.6	> 320	> 12
2448	18	149.0	> 320	> 2
2340	13	320.0	> 320	> 1

Positive Control Data:

2639 (ddC)	3.4	> 10	> 3
	0.2	> 10	> 60
	0.1	> 10	> 181
	0.3	> 10	> 39

4. Murine Leukemia Virus (Rauscher)

Four compounds which demonstrated significant activity in the primary screen were tested against Rauscher murine leukemia virus *in vitro*. Dideoxycytidine (ddC, AVS-2639) was used as a positive control drug. The data is summarized in Table 13. AVS-1801 with an MIC₅₀ < 1.0 $\mu\text{g/ml}$ and a TI > 320 appeared to be more active than the positive control drug which had an MIC₅₀ of 1.2 $\mu\text{g/ml}$ and a TI > 80.5. AVS-1801 was retested to confirm activity. The dose range tested was increased by 2 log₁₀ to insure that an inactive dose level was tested. ddC was used as a positive control drug. AVS-1801 had an MIC₅₀ of 0.32 $\mu\text{g/ml}$ and a TI of > 1000. This data confirms the activity observed in the first experiment in which an MIC₅₀ of < 1.0 $\mu\text{g/ml}$ and a TI > 320 were obtained. The positive control drug, ddC, had an MIC₅₀ of 1.9 $\mu\text{g/ml}$ and a TI > 53. No significant cytotoxicity was observed with either drug.

Table 13
Compounds Tested Against Rauscher Murine Leukemia Virus (RMuLV)

<u>AVS No.</u>	<u>MIC₅₀</u> <u>(μg/ml)</u>	<u>MTC₅₀</u> <u>(μg/ml)</u>	<u>TI</u>	<u>Date</u>
1801	< 1.0	> 320	> 320	08/04/89
1801	0.32	> 320	> 1000	12/05/89
3513	30.1	100	3.3	08/04/89
3939	157.9	> 320	2.0	08/04/89
2353	2.0	> 100	> 49	01/12/88
2639*	1.2	> 100	> 80.5	08/04/89
2639*	1.9	> 100	> 53	12/05/89

*Positive Control (ddC)

C. Mechanism of Action

1. HIV-1 Reverse Transcriptase Inhibition Screen with the Poly(rA)•p(dT)₁₂₋₁₈ Template

A summary of all compounds that inhibited HIV-1 reverse transcriptase when poly(rA)•p(dT)₁₂₋₁₈ was the template are given in Table 14. This is a cumulative summary since the beginning of the project. One hundred and seventeen (117) compounds were tested in this assay for their ability to inhibit HIV-1 reverse transcriptase. In addition to the 10 compounds listed below which inhibited the enzyme by more than 50% (ID₅₀), there were two other compounds (AVS 5565 and 5566) which inhibited the enzyme but by less than 50%.

Table 14

Compounds Active in the HIV-1 Reverse Transcriptase Inhibition Screen
with Poly(rA)•p(dT)₁₂₋₁₈ as the Template

AVS No.	ID ₅₀ (μ g/ml)	Activity in Cell Culture
5025	3	confirmed active
4732	22	inactive
6286	65	inactive
6287	85	active; one test
4075	89	confirmed active
4287	100	inactive; one test
4730	100	confirmed active
4734	100	inactive
5024	100	confirmed active
6283*	0.08 (μ l/ml)	inactive

*AVS 6283 is a syrup and it is not possible to differentiate effect of compound from that of solvent

The enzyme used for this screen was from a viral pellet of HTLV-III_B which had been lysed by Triton X-100. The assay conditions were adjusted such that the template and the single deoxynucleotide substrate, thymidine 5'-triphosphate, were at saturating concentrations. This assay which uses a synthetic homopolymer template would be most efficient at measuring the ability of thymidine analogs to inhibit the polymerization reaction. This assay was replaced by the one described below in April of 1990.

2. HIV-1 Reverse Transcriptase Inhibition Screen with the Ribosomal RNA Template

In April of 1990 we started using ribosomal RNA template in our HIV-1 reverse transcriptase inhibition screen instead of the poly(rA)•p(dT)₁₂₋₁₈ template. All compounds that were active in the assay when ribosomal RNA was used as the template are listed in Table 15. To date there have been 58 compounds assessed in this assay. AVS 6779, 7590, 8524, 8525, and ST 704 inhibited HIV-1 reverse transcriptase by less than 50% at the highest concentration tested.

Table 15

Compounds Active in the HIV-1 Reverse Transcriptase Inhibition Screen
with Ribosomal RNA as the Template

AVS No.	ID ₅₀ ($\mu\text{g/ml}$)	Activity in Cell Culture
8520	0.0007	confirmed active
7891	0.003	confirmed active
AM 612	0.1	confirmed active
6511	0.11	confirmed active
6512	0.14	confirmed active
AM 669	0.51	inactive
AM 242	1.2	confirmed active
4032	4.2	confirmed active
6510	4.3	confirmed active
ST 686	5.5	inactive
4035	8	confirmed active
6505	18	minimal activity; one test
1761	19	minimal activity; one test
4036	23	confirmed active
8308	27	confirmed active
ST 725	35	minimal activity; one test

The enzyme used for this screen was from a strain of HIV-1 that produces high extracellular levels of reverse transcriptase (SK1 strain). The virus was grown in CEM cells, pelleted, lysed with Triton X-100, and partially purified by affinity column chromatography. The assay contains the ribosomal RNA template and three of the deoxynucleoside 5'-triphosphates, dGTP, dCTP, and dATP, at saturating concentrations. The fourth deoxynucleotide, thymidine triphosphate, which contains the radioactive label is present at a concentration about twice the K_m value.

Five compounds are more active than AZT-TP (ID₅₀ of 0.18 $\mu\text{g/ml}$) in this assay. Suramin, a non-deoxynucleotide reverse transcriptase inhibitor, has an ID₅₀ of 17 $\mu\text{g/ml}$. Six additional compounds would fall in the activity range between AZT-TP and suramin. Nine of these eleven compounds showed antiviral activity in the cell culture assays. One of the inactives, AM 669, was toxic to the cells at all concentrations tested. Since we switched to the ribosomal RNA template in April there have been a higher percentage of reverse transcriptase inhibitors as well as a better correlation between reverse transcriptase inhibition and antiviral activity in cell culture. This could be a result of the new template or a change in the type of compounds being submitted for testing.

3. Evaluation of the Reverse Transcriptases From Other Retroviruses as Surrogates for HIV-1

During the early stages of this program we tested compounds for their ability to inhibit the reverse transcriptase from two other retroviruses: avian myeloblastosis virus (AMV) and Moloney murine leukemia virus (MuLV). Early in the AIDS epidemic, several investigators were using the reverse transcriptases from these two viruses to screen compounds as potential anti-HIV agents. These two reverse transcriptases were easily obtainable whereas the reverse transcriptase from HIV-1 was not. The

assay for all three viruses was similar and used the poly(rA)•p(dT)₁₂₋₁₈ template. This part of the project was terminated early in 1990. Sixty compounds were screened against the reverse transcriptases from both HIV-1 and AMV; twenty-eight of those were also tested against Moloney MuLV reverse transcriptase. Five compounds (AVS 5025, 4732, 4730, 4734, and 5024) that inhibited HIV-1 reverse transcriptase were tried against AMV reverse transcriptase. Three (AVS 4732, 4734, and 5024) did not inhibit AMV reverse transcriptase. AVS 5024 was the only one of the five HIV-1 reverse transcriptase inhibitors screened against Moloney MuLV reverse transcriptase. It was very active with an ID₅₀ of less than 10 µg/ml. Of the fifty-five compounds that did not inhibit HIV-1 reverse transcriptase, eleven inhibited AMV reverse transcriptase. Six of these also inhibited the Moloney MuLV reverse transcriptase. Ten compounds inhibited Moloney MuLV reverse transcriptase but failed to inhibit either the HIV-1 or AMV reverse transcriptases. The reverse transcriptases from AMV and Moloney MuLV can not substitute for the enzyme from HIV-1, at least when synthetic homopolymer templates are used in the assays.

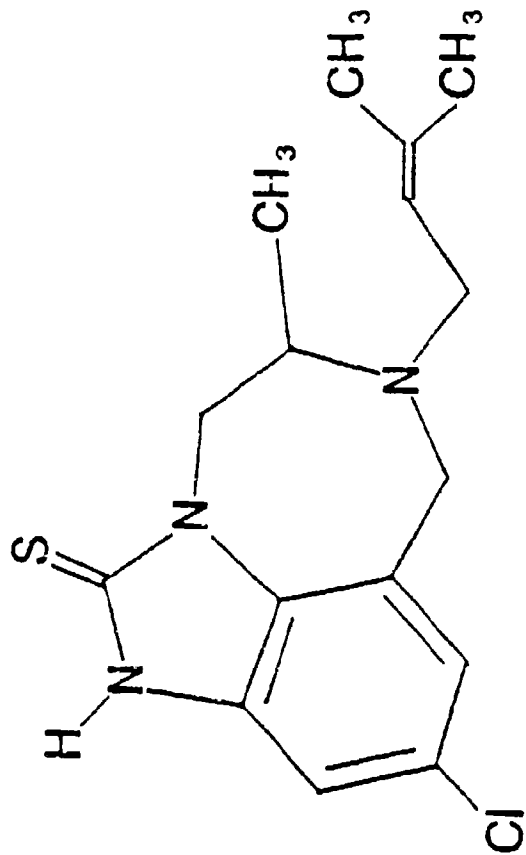
4. Evaluation of Two TIBO Derivatives

Recently, a novel series of non-nucleoside compounds, derivatives of tetrahydro-imidazo[4,5,1-jk][1,4]-benzodiazepin-2(1H)-one and thione (TIBO), have been shown to have potent and selective activity against human immunodeficiency virus type 1 (HIV-1) in cell culture Pauwels *et al.*, (1990). The authors concluded that their TIBO derivatives were acting by a "reverse transcriptase-associated process." They showed a statistical correlation for a series of TIBO derivatives between the IC₅₀ in cell culture and the ID₅₀ for inhibition of HIV-1 reverse transcriptase. On the synthetic homopolymer templates, these compounds had ID₅₀ values at least 50 times that of their cell culture antiviral activity which raised questions about reverse transcription being the most sensitive target for these compounds *in vivo*. R82913, (+)-S-4,5,6,7-tetrahydro-9-chloro-5-methyl-6-(3-methyl-2-butenyl)-imidazo[4,5,1-jk][1,4]-benzodiazepin-2(1H)-thione (Figure 6), was the most active of the TIBO derivatives described by Pauwels *et al.* We have recently tested this TIBO derivative in our assay with the ribosomal RNA template and found that it has an ID₅₀ (0.002 µg/ml) that is lower than the cell culture antiviral 50% endpoint. A second TIBO derivative (R86183) has an even lower ID₅₀ value (0.0007 µg/ml; Table 16). This is a new analog which was not included in the series studied by Pauwels *et al.*

Table 16

Inhibition of HIV-1 Reverse Transcriptase
by AVS 7891 (R82913), AVS 8520 (R86183) and AZT-TP

Template	ID ₅₀ (µg/ml)		
	AVS 7891	AVS 8520	AZT-TP
ribosomal RNA	0.002, 0.004, 0.002	0.0007	0.177
gapped duplex DNA	0.483	0.016	0.532
poly(rA)•p(dT) ₁₂₋₁₈	2.80, 2.35	n.d.	0.015



R82913

(+)-S-4,5,6,7-tetrahydro-9-chloro-5-methyl-6-(3-methyl-2-butenyl)-imidazo [4,5,1-jk][1,4]-benzodiazepin-2(1H)-thione

Structure of R82913

Figure 6

50

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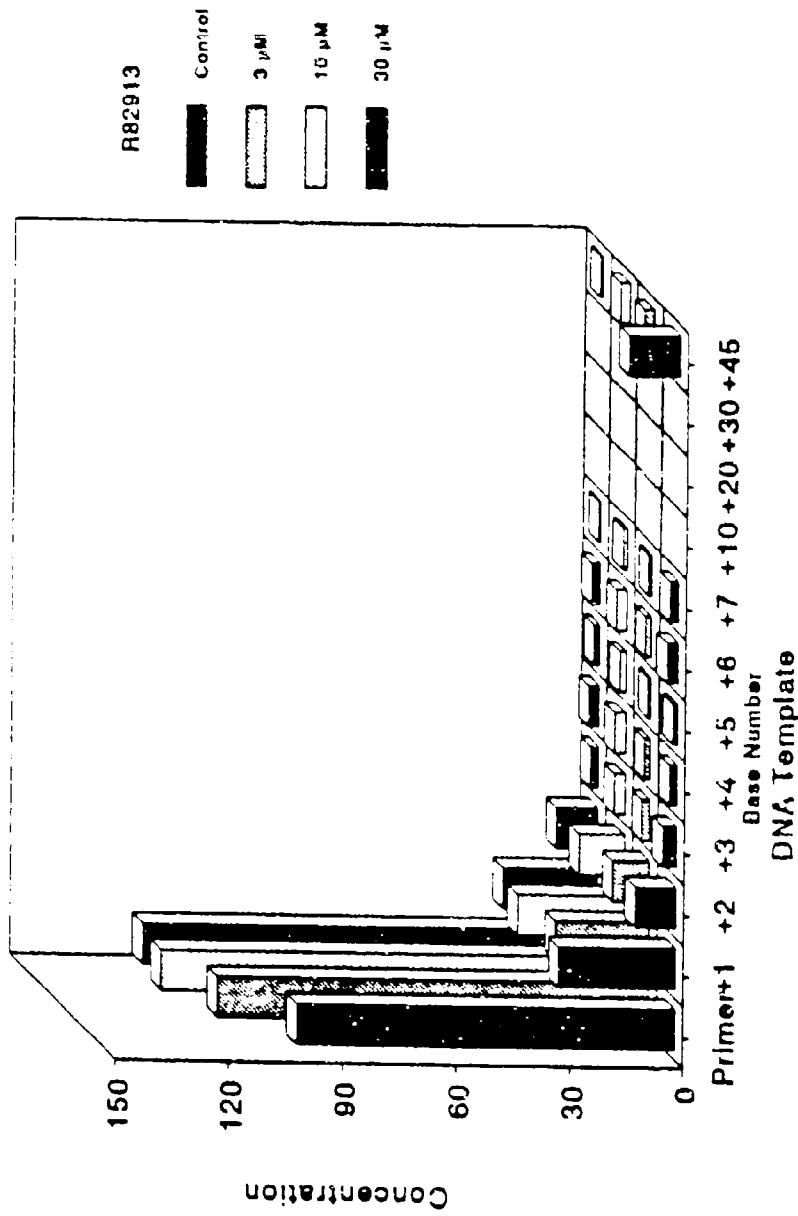
The data on R82913 has been accepted for publication in *Antiviral Research*, White *et al.*, (1991). To facilitate comparison with the data in this paper the following data has been converted to μM units. R82913 was 20-fold more potent than AZT-TP in the inhibition of HIV-1 reverse transcriptase in an assay using a natural template (ribosomal RNA) that more accurately resembles native viral RNA than a synthetic homopolymer. With this template, R82913 inhibited HIV-1 reverse transcriptase with an ID_{50} ($0.01 \mu\text{M}$) that was equal to, or lower than, the IC_{50} for this compound in all of our cell culture assays ($0.01 - 0.55 \mu\text{M}$). When gapped duplex DNA was used as the template, R82913 inhibited HIV-1 reverse transcriptase with an ID_{50} of $1.3 \mu\text{M}$.

Unlike nucleoside analogs, the mechanism by which these novel compounds inhibit reverse transcription is not immediately obvious. R82913 was not competitive with any of the deoxynucleotide triphosphates, nor did it act as a substrate for the enzyme. HIV-1 reverse transcriptase was incubated with 0, 3, 9, or $30 \mu\text{M}$ R82913. The primer/template used in the reaction was a ^{32}P -labeled 15 base oligomer annealed to a 47 base template. Ten μl samples from each incubation were removed at 0, 7.5, 15, 30, and 60 minutes, and the products of the reaction were separated from the original primer by electrophoresis through a 15% polyacrylamide gel containing 7 M urea. The position of the ^{32}P -labeled bands were determined by autoradiography and then quantitated with a densitometer (Figure 7). As expected, incubation with R82913 inhibited extension of the primer. The pattern of products in the TIBO containing reactions indicated that the inhibition was not by competition with any of the deoxynucleotides. Furthermore, R82913 inhibited the production of the longer products more than it did the shorter products. Preincubation of R82913 with the enzyme did not change this result, suggesting that R82913 did not bind to the enzyme and prevent binding of the template:primer.

Initial studies indicate that the compound was not reversibly competitive with either the RNA or DNA template. Double reciprocal plots for the RNA template (Figure 8) and the DNA template (Figure 9) show two different patterns of inhibition for R82913 with respect to the template. The RNA template data most closely resembles an uncompetitive type of inhibition. In three separate experiments K_i values of 0.05, 0.07, and $0.09 \mu\text{M}$ were obtained. An uncompetitive inhibitor is one which decreases the K_m and V_{max} to the same extent. In contrast, the DNA template data most closely resembles mixed type of inhibition. The K_i for R82913 is $0.2 \mu\text{M}$. This type of inhibitor also affects both the K_m and V_{max} values but to different degrees. Both types of inhibition imply that the enzyme, template, and R82913 are bound together in some type of tertiary complex.

As expected from the lack of antiviral effect in cell culture on HIV-2, neither TIBO derivative inhibits the reverse transcriptase from HIV-2. Both compounds were tested at concentrations up to $100 \mu\text{g/ml}$ in an assay with the ribosomal RNA template. The assay conditions were identical to those used for HIV-1 reverse transcriptase and may not be optimum for the enzyme from HIV-2.

Effect of R82913 on the Ability of HIV-1 RT to Extend the DNA Chain

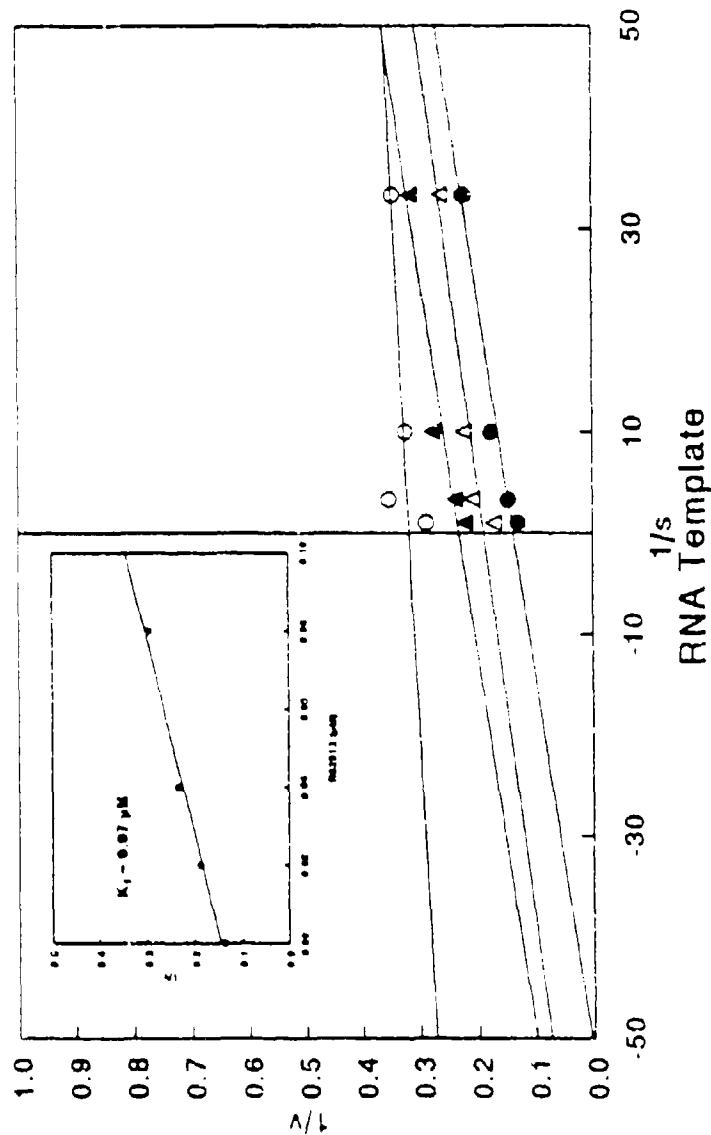


Effect of R82913 on the Ability of HIV-1 RT to Extend the DNA Chain

Figure 7

R82913

● 0 μM ○ 0.08 μM ▲ 0.04 μM △ 0.02 μM



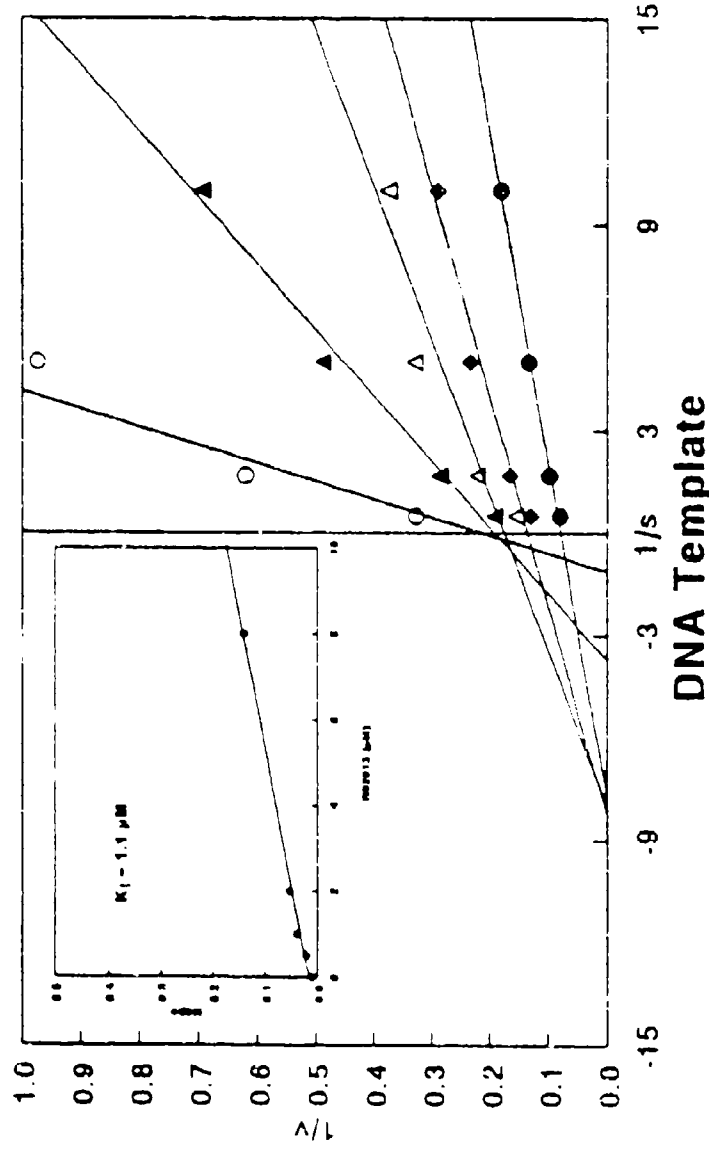
Inhibition of HIV-1 RT by R82913 on the RNA Template

Figure 8

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R82913

● 0 μM ○ 8 μM ▲ 2 μM △ 1 μM ◆ .5 μM



Inhibition of HIV-1 RT by R82913 on the DNA Template

Figure 9

D. In Vivo Models

1. Murine Models

Table 17 lists the agents which have been entered into *in vivo* murine models of retroviral disease. Mice were treated from day -1 through day 13 (IP, qd) or on other schedules for selected agents, and they were sacrificed on day 14. Spleen weights were recorded, and sera were collected for quantitation of viremia (by UV-XC assay) and reverse transcriptase.

Table 17

Agents Entered into *In Vivo* Murine Models of Retroviral Disease

AVS 0001 (Ribavirin)	AVS 5599 (Diethyl thiocarbamate or DTIC or Immuthiol)
AVS 0206 (Ribamidine)	AVS 5909 (Dideoxy inosine (ddI))
AVS 0598	AVS 6005 (Acemannan or Carrisyn)
AVS 0999	AVS 6170 (AIT 0080)
AVS 1603 (AZT)	AVS 6171 (AIT 0082)
AVS 1759 (MVE-1)	AVS 6172 (AIT 0083)
AVS 1761 (Poly[I,C]-LC)	AVS 6173 (AIT 0109)
AVS 1767 (AM-3)	AVS 6278 (BM 21.1160)
AVS 1790 (MVE-4)	AVS 6279 (BM 21.1162)
AVS 1792 (MVE-2)	AVS 6280 (BM 41.209)
AVS 1821	AVS 6281 (BM 41.237)
AVS 1850	AVS 6283 (Virucide-3)
AVS 1968 (CL 246,738 or acridine HCl)	AVS 6285 (P30 protein)
AVS 2639 (Dideoxy cytidine (ddC))	AVS 6286 (PharmaService-2)
AVS 2145 (Ampligen)	AVS 6287 (PharmaService-1)
AVS 2575 (L-BVW ₁₁₀₄₀)	AVS 6288 (Spirogermanium)
AVS 2576 (K ₆ BVW ₁₁₀₄₀)	AVS 6289 (DDG-1 or 2'-F-ddAraA)
AVS 2996	AVS 6293 (DD'-92 or 5-F-ddC)
AVS 3513	AVS 6505 (PSK or Krestin)
AVS 3939	AVS 6510
AVS 4075	AVS 6511
AVS 4594/5027 (Imexon)	AVS 6512
AVS 4596 (LCP-100)	AVS 6775 (AV-215)
AVS 4730 (Polyacrylic acid)	AVS 6776 (THF-γ2)
AVS 4732 (Ascorbate germanate)	AVS 7297 (BBR1957)
AVS 5019	AZT - ddI dimer
AVS 5020	D4C (2',3'-Dideoxydidehydrocytidine)
AVS 5025L (Poly [maleic acid anhydride cyclohexyl dioxopenyl])	Soluble glucan
AVS 5048 (purified 0999)	AZT + ddC
AVS 5073 (ELS-1)	AZT + Imexon
AVS 5074 (ELS-2)	AZT + MVE-2
AVS 5418 (BM 50.06812)	AZT + poly[I,C]-LC
AVS 5587 (7-thia-8-oxoguanosine)	MVE-2 + indomethacin
	Ribavirin + Imexon

Many of these agents have shown some antiviral activity. Among the most effective antiviral agent was AZT, which has served as the positive control in subsequent studies. AZT reduced splenomegaly in the RMuLV model and virtually eliminated viremia at a dose (IP, qd) of 100 mg/kg. The *in vivo* therapeutic index of AZT exceeded 5. Although Ribavirin and AVS 206, its amidine analog, both showed activity (therapeutic indices = 2.1 and 2.5, respectively), neither completely inhibited splenomegaly. However, further studies strongly suggested that ribavirin has even greater antiviral activity *in vivo* in the RMuLV model than AZT, which has served as the positive control in previous studies. Even more striking than the prophylactic antiviral activity of ribavirin was the observation that the antiviral activity of the drug did not diminish even when the initiation of treatment was delayed until five days after virus inoculation. We have demonstrated previously that virus production and viremia are well established by five days after infection, so these studies establish the therapeutic efficacy of ribavirin in this model. In contrast, AZT rapidly lost its antiviral effect when treatment was delayed.

The two related proprietary compounds, AVS 2575 and 2576, produced moderate activity at doses approaching the level of physiological toxicity. For the BRM MVE-2 and MVE-4, the treatment regimen was critical for therapeutic efficacy. Doses in the lower range were more effective, and prophylactic rather than therapeutic administration was essential for antiviral effect. Combination regimens with AZT and MVE-2 produced additive, but not synergistic activity.

Imexon also significantly reduced splenomegaly at doses (IP, qd) of 90 mg/kg or higher, whether administration was begun one day before or four hours after virus inoculation. Imexon also reduced virus titers, but not to the same extent as AZT. However, the combination of AZT and Imexon produced an antagonistic effect, particularly at low doses (10-60 mg/kg) of Imexon. Statistical analysis using a multiple linear models procedure revealed that this antagonism was significant at the $p=0.0003$ level. Similarly, the combination of Ribavirin and Imexon did not produce any additional therapeutic benefit. However, imexon by itself had significant therapeutic activity even when administration of the drug did not begin until 7 days after virus inoculation, by which time virus infection was well established. Imexon was also significantly effective when administered orally at doses of 110 and 220 mg/kg, qd. Additionally, the effect of imexon on the survival of RMuLV-infected mice was tested. Imexon produced little, if any, extension of survival in animals infected with a lower dose of virus, but the drug appeared to shorten the survival of mice infected with a higher dose of virus (Table 18).

Table 18
Effect of Imexon on Survival of RMuLV-Infected Mice

Route of Virus Admin.	Dilution of Virus	Treatment (day 2-13)	Dose (mg/kg)	Med. Surv. Time(days)	Alive at day 114
IV	Neat	Placebo		90	4/11
IV	Neat	Imexon	170	13	3/12
IP	Neat	Placebo		73	3/10
IP	Neat	Imexon	170	48	3/10
IV	1:3	Placebo		82	2/10
IV	1:3	Imexon	170	87	3/10
IP	1:3	Placebo		102	3/10
IP	1:3	Imexon	170	103	3/10

Further studies on the therapeutic activity of imexon in the RMuLV model *in vivo* were performed. We examined the efficacy of repeated rounds of imexon treatment interspersed with rest periods. Imexon treatment was given either every other week (one week on treatment, one week off) or every third week (one week on, then two weeks off). Two different dosing regimens were applied on both of these schedules: 110 mg/kg, qd, IP or 170 mg/kg, q2d, IP, and the treatment regimens were maintained for eleven weeks. The effect of imexon treatment on survival of infected animals was recorded. Either dose of imexon prolonged survival in mice treated every other week. Median times to death were: 49 days for placebo and 119 days for either imexon dose. This represents about a 2.5-fold increase in the median survival, and 40% of the animals treated with the higher dose of imexon are still alive. When imexon treatment was given every third week, the results were somewhat different. Imexon seemed not quite as effective when given less often. Median times to death were: 52.5 days for placebo, 98 days for the lower dose, and 35 days for the higher dose. The reduction in survival among the animals treated with imexon at 170 mg/kg could have been due to exacerbation of disease or to toxicity. In addition to this reduction in survival, other suggestions of toxicity, notably severe neurotoxicity characterized by loss of voluntary motor control in the limbs, were noted among several imexon-treated mice. These animals had to be sacrificed because they could not eat or drink water. Clearly, however, imexon treatment every other week did improve survival of RMuLV-infected mice.

Additionally, the efficacy of imexon in the LP-BM-5 model was examined. Mice were treated IP daily on days 3 through 27 with AZT (100 mg/kg) or imexon at 70, 110 or 170 mg/kg, and they were sacrificed on day 28. Single-cell suspensions of splenocytes were prepared and assayed for virus production in an infectious centers assay, a variant of the UV-XC assay in which viable spleen cells, rather than serum, serve as the source of virus. This assay is necessary because viremia is not characteristic of the LP-BM-5 model. As shown in Table 19, imexon reduced splenic cellularity (cells/spleen) in a dose-dependent fashion, with an

Table 19

Effect of Imexon on LP-BM-5 Virus Replication in Spleen

Treatment (d 3 to 27)	Dose (mg/kg)	Cells/spl. ($\times 10^6$)	PFU/ 10^7 spl. cells	PFU/spl. ($\times 10^5$)
No virus		100	6	
PBS		140	2.4×10^4	3.4
Imexon	70	75	3.3×10^4	2.5
Imexon	110	45	4.6×10^4	2.1
Imexon	170	7.5	2.3×10^5	1.8
AZT	100	180	7.4×10^3	1.3

almost twenty-fold reduction at the highest dose of imexon. Conversely, in a dose-dependent fashion imexon also increased the number of infected cells (plaque-forming units, or PFU) on a per cell basis (PFU/ 10^7 spleen cells), with an almost ten-fold increase at 170 mg/kg. The net result of these changes was that imexon reduced the number of infected cells (PFU)/spleen in a dose-dependent manner, with a reduction of almost 50% at 170 mg/kg. In contrast, AZT had only a slight effect on splenic cellularity, but decreased the number of infected spleen cells by about two-thirds whether expressed on a per cell or per spleen basis. Additional cohorts of mice from this experiment were held for survival analysis. Results are shown in Table 20. Although median survival increased in all groups of treated mice,

Table 20

Effect of Imexon on Survival of LP-BM-5 Infected Mice

Treatment (d 3-27)	Dose (mg/kg)	MST (days)	Range (days)	% Alive at day 196	P Value (vs. PBS)
PBS		117	83-152	0	
Imexon	70	141	128->196	20	0.247
Imexon	110	130	108->196	20	0.282
Imexon	170	170	115->196	20	0.0376
AZT	100	145	83->196	40	0.193

only mice treated with the highest dose of Imexon showed statistically significant increases in survival by the Cox-Mantel test. Thus in the LP-BM-5 model as well as in the RMuLV model Imexon has

significantly prolonged survival of retrovirus-infected mice. However, these results with imexon add a cautionary note because results in two different murine retrovirus *in vivo* models thus suggest that imexon may actually exacerbate disease in some circumstances. Therefore, caution would be indicated in considering imexon as a candidate for clinical development in AIDS treatment.

DDC showed good antiviral activity in the RMuLV model *in vivo* only at very high concentrations (≥ 300 mg/kg), but in this dose range ddl had no antiviral activity. These studies have been repeated with higher doses of ddl, and ddl had good antiviral activity at 1000 mg/kg. Animals were treated from day -1 through day 13 (IP, qd), and they were sacrificed on day 14. Spleen weights were recorded, and sera were collected for quantitation of viremia (by UV-XC assay) and reverse transcriptase. It should be emphasized again that even at these high drug concentrations no gross evidence of toxicity was noted, either in behavior or in body weight. We and others have previously reported that AZT shows better antiviral activity if treatment is given prophylactically (treatment begun before virus inoculation) rather than therapeutically (treatment begun after virus inoculation). The effect of delaying the onset of ddC treatment in RMuLV-infected mice was examined. Mice treated prophylactically (beginning one day before virus inoculation) with ddC were virtually indistinguishable from uninfected mice by any of the measures (splenomegaly, viremia, or serum RT). When the initiation of ddC treatment was delayed, splenomegaly and serum RT rose gradually, but were still only slightly above uninfected controls. However, viremia rose sharply to a plateau if treatment did not begin until the day of virus inoculation (day 0) or afterward. Nonetheless, even when treatment did not begin until a week after virus inoculation, by which time splenomegaly and viremia are readily apparent in untreated mice, ddC still reduced viremia by about 30-fold. These findings show that ddC is still effective therapeutically, but not to the same degree as prophylactically.

These results raised the question of whether a single administration of a drug early in the disease course might also be effective, possibly by inhibiting some critical early step in the infectious process. In order to examine this possibility, RMuLV-infected mice were given a single administration of ddC or AZT at various times. A single administration of ddC (1000 or 2500 mg/kg) had little or no antiviral effect at any time tested. In contrast, a single dose of AZT, especially at 250 mg/kg, was effective if given on day 0 or day 3. A result this striking demanded confirmation, which two repeats of this experiment failed to provide. Therefore, one must conclude that the original result was a fluke and that a single administration of ddC or AZT does not have antiviral activity in this system. Single administration of Imexon was also examined, and a transient antiviral activity, detectable for only one day after treatment, was noted.

DDC was also active by the oral route in drinking water with an ED_{50} of around 300 mg/kg, a dose similar to the ED_{50} for intraperitoneal administration. Curiously, however, when doses of oral ddC in drinking water were increased above 300 mg/kg, toxicity which had not previously been seen with intraperitoneally administered ddC was observed. Mice became extremely agitated, behavior which suggested neurotoxicity. Since peripheral neuropathy has been commonly reported as the primary dose-limiting toxicity of ddC in AIDS patients, this phenomenon may represent a small-animal model for peripheral neuropathy.

The effectiveness of the combination of AZT and ddC in the RMuLV model *in vivo* was also examined. Mice were treated from day -1 through day 13 with AZT, ddC or the combination of the two drugs. The combination of the two agents appeared to be more effective than treatment with either single agent at these doses. The data from this experiment were analyzed statistically with the Dose-Effect Analysis program of Chou and Chou (Elsevier Biosoft). This program analyzes the dose-response

surfaces and constructs isobolograms from combination studies for evidence of synergistic or antagonistic interactions. A complex pattern emerged from this analysis. Both synergistic and additive interactions were seen at certain ratios of AZT to ddC. Especially for splenomegaly, synergy was seen at virtually all AZT/ddC ratios. For both viremia and serum RT, strongly synergistic interactions were found at a 1:3 ratio of AZT to ddC, but only additive to subsynergistic effects at a 1:10 ratio. These results are consistent with data from Baba *et al.* (1987) on the inhibition of HIV replication *in vitro* by the combination of AZT and ddC. That study reported additive to subsynergistic interactions between the two drugs. Evidence that these dideoxynucleosides, which have proven activity against HIV and are undergoing clinical trials, have antiviral activity in the RMuLV model helps to validate this murine retrovirus model in AIDS drug development. The murine *in vivo* models can be especially useful in providing guidance for clinical trials, especially in terms of scheduling and drug combinations.

Progress was made in characterizing the LP-BM-5 model. Viremia could not be detected at any time tested, from 24 hours up to 14 weeks after virus inoculation. However, 2 weeks after infection, virus production in the spleen could be readily detected with an infectious centers assay (Table 21). Dramatic rises in splenic cellularity and in the number of infected

Table 21

Production of LP-BM-5 Virus by Spleen Cells

Wk after Infection	Cells Spleen (x 10 ⁶)	PFU/10 ⁷ Spleen Cells	PFU/spleen (x 10 ³)
1	N.D.	0	0
2	92	7100	65
3	55	2000	23
14	160	15,000	250

N.D. = not determined

PFU = plaque-forming units

spleen cells were evident 3 months after infection. It should also be noted that, in contrast to published reports from Mosier *et al.* (1987), LP-BM-5 infection did not prove fatal in our hands. At the same time, we examined the effect of LP-BM-5 infection on immune function. Splenic NK activity was depressed 3 months after infection, and it was not boosted by a single IP injection of the BRM poly(I,C)-LC at 10 µg/animal 48 hours before the assay, as was the NK activity of uninfected mice. Similarly, CTL activity was also depressed then. These animals also had significantly increased serum immunoglobulin levels. These findings indicate that, even in the absence of detectable viremia, the LP-BM-5 model can serve as a useful secondary screen for agents which show antiviral activity in the primary RMuLV screen. Virus production by spleen cells, immune function, and serum immunoglobulin levels can all be measured as indicators of antiviral activity in this system.

The possible efficacy of HP-5, a hemoregulatory peptide which stimulates bone marrow progenitor cells and which has activity by the oral route, in alleviating the established hematopoietic toxicity of AZT was investigated. Mice were given a high dose of AZT (2.5 mg/ml) in drinking water

for 21 or 42 days. The ability of HP-5, administered i.v. at 1.2 ng/kg (the optimal dose) on days 21-23, to overcome the anemia induced by AZT was measured at various times. HP-5 produced a transient rise in red blood cell numbers (as well as hemoglobin levels and hematocrit), but the long-term effects in animals receiving AZT continuously may have been deleterious.

A series of studies was undertaken to evaluate the relationship between augmentation of natural killer (NK) cell activity and the antiviral activity of several biological response modifiers (BRM) which are interferon inducers. Uninfected and RMuLV-infected mice were treated with BRM on various schedules, and NK and antiviral activity were assessed two weeks after infection. CL 264,738 had antiviral activity when given prophylactically, but not therapeutically, while the opposite was true for Amptigen. Poly [I,C]-LC had antiviral activity both therapeutically and prophylactically, but therapeutic activity was much greater than prophylactic activity. In fact, RMuLV-infected mice treated with poly [I,C]-LC therapeutically were not significantly different from uninfected mice by any of the three measures of viral disease, and no infectious virus was detected in serum. When antiviral activity was compared with augmentation of splenic NK activity, a consistent pattern emerged for these BRM and all others tested, namely that antiviral activity always correlated with augmentation of NK activity in infected animals. For instance, CL 264,738 boosted NK activity in infected mice treated prophylactically, but not therapeutically. Similarly, poly [I,C]-LC augmented NK activity much more in infected mice treated therapeutically than prophylactically. BRM such as soluble glycan, which did not boost NK activity in infected mice did not demonstrate antiviral activity. In contrast, augmentation of NK activity in uninfected mice bore no relationship with antiviral activity. For example, soluble glycan boosted NK activity in uninfected mice, but depressed NK activity in infected mice. These results suggest a causal role for the augmentation of NK cell activity in the antiviral efficacy of these BRM in this model.

In order to test whether NK cells are directly involved in the antiviral activity of these biological response modifiers (BRM), mice were treated with poly[I,C]-LC (AVS 1761), an interferon inducer with good antiretroviral activity, and with rabbit antibody to asialo GM₁, a ganglioside on the surface of murine NK cells, to deplete NK activity. In the initial experiment anti-asialo GM₁ eliminated NK activity in uninfected mice, but did not affect NK activity in infected mice. Similarly, antiviral activity was not affected by anti-asialo GM₁ treatment. The experiment was repeated with more frequent administration of higher doses of antiserum, and NK activity in infected and uninfected mice was eliminated. Similarly, anti-asialo GM₁ treatment eliminated the antiviral activity of poly [I,C]-LC as measured by splenomegaly and viremia. Some antiviral activity of poly [I,C]-LC was still detectable as judged by serum RT levels after anti-asialo GM₁ treatment. Because poly [I,C]-LC is an established interferon inducer, serum interferon levels were measured to determine if interferon induction is responsible for the antiviral effect of poly [I,C]-LC. However, serum interferon levels were not reduced by anti-asialo GM₁ treatment even though antiviral activity and NK augmentation were eliminated. These findings suggest that interferon is not directly involved in the antiviral action of poly [I,C]-LC, but that NK may mediate the antiviral effect of poly [I,C]-LC, but that augmentation of splenic NK activity by poly[I,C]-LC is critical for its antiviral activity. Therefore, NK cells may play a key role in resistance to this retrovirus.

We have also tested a series of protease inhibitors *in vitro* in the RMuLV model. Three compounds have shown consistent antiviral activity in the RMuLV model *in vitro* as well as against HIV and simian immunodeficiency virus (SIV). Lysates were prepared from infected cells treated with these compounds, and these lysates were analyzed for production of RMuLV proteins by Western blotting in the laboratory of Dr. Dennis Lambert at SmithKline Beecham. The same compounds inhibited production of p30 protein of RMuLV. Infected, treated cells were also examined by electron microscopy in the laboratory of Dr. Mary Beth Downs at USAMRIID. The same compounds virtually eliminated production of virions, but other compounds which did had not shown activity in other tissue culture

assays reduced, but did not eliminate the production of virions. With these compounds many empty nucleocapsids were seen. The truly striking result with these compounds was the similarity in their antiviral activity against three different retroviruses: HIV-1, SIV, and RMuLV. The same three compounds were active against all these retroviruses, with similar median effective concentrations *in vitro*.

2. Simian Models

a. Pathology Of SIVsm/pbj

Although both adults and juvenile Rhesus monkeys become infected by SIVsm/pbj, only juveniles die during the acute stage of the disease. Diarrhea and lymphopenia ($< 500/\mu\text{l}$) are observed by 7 days postinoculation. Death, precluded by metabolic acidosis ($\text{pH} < 7.1$), occurs by 10 days post inoculation. Necropsy of SIVsm/pbj infected monkeys revealed lesions of the hemolymphatic system and gastrointestinal tract. Although there was generalized lymphadenopathy, gut-associated-lymphoid-tissue and mesenteric lymph nodes were most severely enlarged with the latter measuring 10-40X the normal percentage of total body weight. All lymphoid organs and gut-associated-lymphoid-tissue had similar histologic changes including hyperplasia of T-cell areas containing up to 50% lymphoblasts, atrophy of B-cell areas and scattered multinucleated cells. T-cell areas consisted almost exclusively of CD-8 positive cells. In rhesus macaques immunohistochemistry demonstrated SIV antigen-positive lymphocytes and multinucleated cells in gut-associated-lymphoid-tissue (5-40/high powered field (HPF)), mesenteric node (1-30/HPF), and spleen (1-20/HPF) but not in the axillary nodes. By contrast pigtailed and cynomolgus macaques generally had greater than 30/HPF in all lymphoid tissues. Grossly in Rhesus monkeys the GI tract had multifocal submucosal edema with hyperemia and erosion of the mucosa in addition to prominently enlarged Peyer's Patches. Histologic changes away from gut-associated-lymphoid-tissue included villus subepithelial vesicles progressing to severe multifocal villus blunting and fusion. Diffusely there were increased numbers of lymphoid cells in the lamina propria. Multifocal infiltrates of neutrophils and multinucleated cells were present along with crypt disruption and/or loss. Antigen-positive lymphocytes and multinucleated cells were observed throughout the lamina propria and were most numerous (50/HPF) in foci with crypt disruption. However, neither viral antigens nor viral particles were detected in enterocytes. Multinucleated cells were pan-T and CD-4 positive. There was no evidence of opportunistic viral or bacterial agents in GI or lymphoid tissues by light or electron microscopy.

b. SIVpbj Seed Titration In Cynomolgus Macaques.

A virus seed of SIVpbj has been developed for future drug studies using human peripheral blood lymphocytes and a Pbj isolate from macaque Peyer's patch tissue. This seed contains 10^5 TCID and when undiluted it was shown to be lethal to six cynomolgus macaque, with death occurring within 9 days. Dilution of this seed by 1:10 caused only 1 of 3 cynomolgus macaques to die acutely (Table 22). A 1:100 dilution when given to 3 addition cynos caused no deaths. All of these monkeys became acutely ill.

Table 22

Effect of Dilution of HPBL Derived Seed in Cynomolgus Macaques

<u>Dilution</u>	<u>Disease</u>	<u>Death</u>
Undilute*	6/6	6/6
1:10	3/3	1/3
1:1000	3/3	0/3

* Titer 4.0 Log₁₀

c. Development Of An Infectivity Assay For Drug Screening Using The AA-2 Cell Line.

In an attempt to find cell line susceptible to SIV infection suitable for the rapid screening of infectious sample and for potential drugs, we tested a number of cell line shown to be susceptible to HIV-1 infection. We have tested a number of cell lines that replicate HIV-1 well, such as Cem-SS, H9, Hut-78, Molt-3, Molt-4, Sup-1, MT-2, and THP-1 for their ability to replicate SIV (Table 23). We identified an Epstein-Barr virus (EBV) positive B lymphoblastoid cell line, containing high levels of the CD4 glycoprotein, that can be infected easily by SIV's and HIV-1. This cell line, called AA-2, when infected with SIV, readily formed large syncytia and produced detectable gag antigen and reverse transcriptase within 2 to 3 days at 37°C. The peak virus production occurred between 6 and 15 days after infection. Various SIV strains including smm, mne, and agm, replicated to higher titer in the AA-2 cells than did HIV-1.

Table 23

Cell Lines Tested for Virus Growth and Syncytia Formation After Direct Infection with SIV/Mne, SIV/Cat, SIV/Cae or SIV/sm/pbj.

Cell Line	SIV/Mne (macaque)	SIV/Cat (mangabey) (wild caught)	SIV:sm:pj (mangabey)	SIV(Cae) (agm)	HIV-1
CEM-SS	-	-	-	+/-	+/+ + ^a
MOLT-4	-	-	-	-	+/-
MOLT-3	-	-	-	-	+/-
SupT1	+/-	+/-	+/-	-	+/+
THP-1	-	-	-	-	+/+
CEM-174	+/-	+/-	+/-	nd	+/+ +
MT-2	+/-	+/-	nd	nd	+/-
Hut-78	+/-	+/-	+/-	-	+/-
AA-2	+/+ +	+/+ +	+/+	+/+	+/+

^a Virus growth/Syncytia formation
nd = not determined

SIV's can be isolated more reliably from the peripheral blood lymphocytes (PBL) of infected macaques after cocultivation with the AA-2 cell line than with Hut-78 or gradient-purified human PBL (Table 24). In addition, cocultures with AA-2 cell and infected macaque PBL replicated to high titer, allowing for easier measurement of positive cultures. Virus-positive cultures can also be expanded and carried for extended periods of time (3 - 5 months) without the addition of fresh uninfected cells to the culture.

Table 24

Direct Comparison of Virus Isolation from SIV/sm/pbj-Infected Rhesus PBL by Cocultivation with Human PBL and AA-2 Cells

<u>Indicator Cells</u>	<u>No. Positive Cultures</u>
Human PBL	20
AA-2	40
Total Tested	40

PBL were isolated by ficoll density gradient separation from SIV/sm/pbj inoculated rhesus, stimulated for 24 hr with PHA-P and added to either PHA-P stimulated human PBL or AA-2 cells in medium containing Interleukin-2 and polybrene. Virus-infected cultures were tested for the presence of core protein using the Coulter HIV-1 p24 ELISA kit on Day 28 of cultivation.

A rapid microtiter syncytial cell reduction assay was developed with the AA-2 cell line to measure SIV neutralizing antibody in macaque plasma (Table 25). Reproducible neutralization titers can be obtained within 5 - 7 days. In a collaborative study with Dr. Raoul Benveniste we have recloned the AA-2 cell line and have isolated several new line that have a greater sensitivity to SIV infection than the parental line.

Table 25

Neutralization Titers of Macaque Plasma
After Inoculation with SIV/Mac

Animal	Date of Death (wks)	Plasma (weeks)	Titer	
			AA-2 Assay ^a	RT Assay ^b
<u>M. mulatta</u>	66	18	< 1:12	ND
		36	< 1:12	1:50
		66	< 1:12	ND
A85034	87	18	1:96	1:200
		36	1:24	1:50
		78	1:12	< 1:50
A85037	96	18	< 1:12	ND
		36	< 1:12	1:50
		78	< 1:12	< 1:50
<u>M. nemestrina</u>				
T85056*	15	3	< 1:12	< 1:50
		14	< 1:12	< 1:50
F85062	80	18	1:768	> 1:800
		35	1:384	1:800
		80	1:12	< 1:50
M85026	120	18	1:48	ND
		36	1:12	1:50
		105	< 1:12	ND

^a Assay was set up in a 96-well plate which had been pretreated with poly-L-lysine (10 µg/well). A total of 12,500 AA-2 cells in log phase was added to each well. Heat-inactivated plasma was serially diluted and incubated with virus dilutions for 2 hours at room temperature before adding to the AA-2 cells. The virus and antisera were removed after one hour and replaced with fresh media. Wells were scored for syncytia at 5-7 days.

^b Serially-diluted heat-inactivated plasma was incubated with virus dilutions overnight at 5° C and then added to human PBL cells (8×10^6) for 3 hours at 37° C. The cells were then washed twice and resuspended at 0.5×10^6 /ml. The cultures were held for 14-21 days and the supernatants were tested for the presence of RT activity. Neutralization titers represent the highest dilution of plasma resulting in no detectable RT activity.

* Seronegative

d. Elevated Levels Of Circulating Interleukin-6 Associated With Infection Acutely Fatal Simian Immunodeficiency Virus Isolate (SIVsm/pbj)

Interleukin-6 (IL-6) is an important mediator of inflammatory responses, usually associated with acute infections and tissue damage. IL-6 is released by numerous cell types and one of its roles is induction of acute-phase reactants in the liver. We measured the levels of the cytokines IL-1 α , IL-6 and TNF α in serum samples and IL-6 and IL-1 β in tissue samples of macaques experimentally infected with SIVsm/pbj, an acutely lethal SIV strain that causes death within 2 weeks of inoculation. No significant increase in circulating levels of IL-1 α or TNF α were observed. The highest levels of circulating IL-6 were observed in pigtailed macaques dying acutely (>10,000 units/ml), a 1000 fold increase over normal. Cynomolgus macaques dying acutely developed between 100 to 10000 fold increases of IL-6 (1000 to 100000 units/ml) and rhesus macaques had between 10 to 100 fold increases (100 to 1000 units/ml). Rhesus that survived the acute disease associated with SIVsm/pbj had an initial rise of circulating IL-6 (>100 units/ml) that returned to near-normal levels by 10 to 15 days post challenge. Elevated levels of IL-6 message RNA were observed in spleen and mesenteric lymph nodes and intestine of animals dying acutely. High levels of IL-1 β and IL-6 were observed in tissue samples collected from one pigtailed macaque. The high levels correlated with virus isolation from the tissues (Table 26). Levels of IL-6 correlate directly with virus load as determined by virus isolation from the tissues and serum p27 and were associated with elevated levels of acute-phase reactants and immunoglobulin production (Table 27). *In Situ* hybridization of mRNA for IL-6 was developed and results indicate that multiple cell type are involved in IL-6 production including lymphocytes, macrophage and fibroblasts.

Table 26
Cytokine and Virus Load in Selected Tissues from a Pigtailed Macaque Infected with SIVsm/pbj

Tissue	IL-1 β (pg/gram)	Virus (log ₁₀)	IL-6 (units/gram)
Heart	<100	-	10
Skin	<100	-	320
Liver	1830	-	19200
Thymus	2660	2	10
Kidney	<100	-	41600
Pancreas	<100	-	10
Lung	<100	-	2880
Salivary Gland	<100	-	1600
Spleen	10420	4	81200
Mesenteric LN	7610	3	38410
Inguinal LN	3550	2	3200
Esophagus	<100	-	2400
Stomach	1070	-	14080
Duodenum	11680	5	57600
Jejunum	17290	2	10240
Ileum	19090	ND	5600
Ileal-cecal valve	21160	3	76800
Cecum	7660	3	12800
Colon	9660	3	58880
Serum	ND	3	11625

ND = Not determined

Tissues were collected at posting of the animal following exsanguination and perfusion with normal saline. All tissues were snap frozen and stored at -70°C until use. A 10% homogenate was prepared in normal saline, the samples were filtered and run in the assays mentioned above. IL-1 β was quantitated using the Cistron IL-1 β ELISA kit. Virus isolation was determined using the AA2 cell line and the Coulter HIV p24 ELISA. IL-6 levels were determined using the B9 bioassay.

Table 27

Effect of SIV(pj) on Levels on Acute Phase Reactants in Macaques

Species	Increase		No change	Decrease
	10-100-fold	2-10-fold		
Rhesus	IgM C4 complement	IgA C3 complement Haptoglobin	a2-Macroglobin Transferin	IgG
Cynomolgus		IgM IgA C3 complement C4 complement Haptoglobin	a2-Macroglobin	IgG Transferin
Pigtailed	IgM C4 complement	IgA C3 complement Haptoglobin b2-Microglobulin	a2-Macroglobin Transferin	IgG

e. Inhibition Of SIVpbj Growth *In Vitro* By Protease Inhibitors

Five protease inhibitors (supplied by Smith Kline Beecham) were tested for their ability to inhibit SIVpbj syncytial cell formation (Table 28) and p27 production in the AA-2 cell line. The protease inhibitors were designed to act against the HIV-1 protease, and these studies were performed to determine their effect on SIV. The assay consisted of AA-2 cells incubated with three dilutions of SIVpbj and serial dilutions of the protease inhibitors. The results shown in Table 28 indicate that 2 of the five compounds were active against SIV *in vitro*. Compounds 4 and 5 were able to inhibit up to 2 logs of virus. Further studies were planned to determine the effect of these compounds on virus production in persistently infected cultures and their effect on other SIV isolates. Additional studies, in collaboration with Smith Kline Beechman, will determine the effect of these compounds on virus replication and viral protein processing.

Table 28

Inhibition of SIVpbj Syncytial Cell Formation with Five Protease Inhibitors

Drug No.	Virus Dilution	Drug Dilution (μ M)					
		20	10	5	2.5	1.2	0.7
1	10^{-2}	+	+	+	+	+	+
	10^{-3}	+	+	+	+	+	+
	10^{-4}	+	+	+	+	+	+
2	10^{-2}	+	+	+	+	+	+
	10^{-3}	+	+	+	+	+	+
	10^{-4}	-	-	+	+	+	+
3	10^{-2}	+	+	+	+	+	+
	10^{-3}	+	+	+	+	+	+
	10^{-4}	+	+	+	+	+	+
4	10^{-2}	+	+	+	+	+	+
	10^{-3}	-	-	+	+	+	+
	10^{-4}	-	-	-	-	-	-
5	10^{-2}	+	+	+	+	+	+
	10^{-3}	-	-	+	+	+	+
	10^{-4}	-	-	-	-	-	+

+ = Syncytial cells observed in well

f. Immunohistochemical Demonstration Of SIVsmm/PBj Specific Proteins In Fixed Tissues Using SIVmne Specific Antisera.

An immunohistochemical technique was developed for the staining of SIV specific proteins in tissue sections using antisera to SIVmne whole virus and specific proteins. The antisera was specifically to the whole virus, gp120, gp32, p28, p16 and p14 of SIVmne/E11S biologic clone. Using SIVsm/PBj infected tissues as the target for these antibodies, and an ABC immunoperoxidase staining method, we were able to visualize SIV infected cells within numerous tissue type collected from SIVsm/PBj infected macaques. The maximum number of SIV-antigen positive cells per high powered field in the tissues with greater than $10^5 \log_{10}$ TCID of virus ranged between 40 - 60. Lymphocytes, macrophage and numerous syncytial cells were observed as antigen positive. Staining patterns include (1) a light to intense diffuse precipitate with distinct nuclear staining, (2) intracytoplasmic focal granular precipitate, and (3) plasma membrane granular precipitate. The antibodies to gp120 and gp32 detected approximately half the cell observed when using antibody to whole virus and they were observed to produce a diffuse precipitate. Syncytial cells were more frequently noted than lymphocytes, and they stained more intensely with anti-gp32. The antibody to the gag proteins detected approximately a third of the maximum number of positive cells, producing a focal or plasma membrane granular pattern. Antibody to the p14 or X-ORF (sid) protein, which has been shown to bind to nucleic acids, produced a staining pattern similar to that observed with antibodies to whole virus, including intense staining of nuclei, and detected similar numbers of positive cells. A cocktail of antisera to all the purified viral proteins generated a pattern identical to the whole virus antisera and similar to the p14 antisera alone. A cocktail excluding p14 antisera identified approximately half of the cells detected by whole virus antisera and no nuclear staining was observed.

g. Ultrastructural Pathology Of SIVsm/PBj In Macaques.

Electron microscope analysis of lymphatic and gastrointestinal tissues collected from macaques that died from acute PBj infections demonstrated retroviral replication typical of lentiviruses in numerous lymphoblasts, macrophage and syncytial cells consistent with the above mentioned immunohistochemical results. Viral replication was not observed in parenchymal cells. Mature enveloped virions measured approximately 100nm in diameter, and contained an electron dense truncated conical core and lateral body. The nucleoid remained uncondensed in immature and/or defective particles. The morphology of the cells undergoing viral replication was distinctive. Lymphoblasts were characterized as round to oval cells containing round or slightly indented nuclei with marginated chromatin, and averaged 7 um in diameter. Their plasma membranes were only slightly irregular and the cytoplasm contained numerous free ribosomes with few mitochondria, lysosomes, and profiles of rough endoplasmic reticulum (RER). Macrophage, in contrast, averaged 10 um in diameter, had prominently indented nuclei, and displayed numerous microvilli and pseudopodia along the plasma membrane. Their nucleus/cytoplasm ratios were lower than in the lymphoblasts. The cytoplasm in macrophages contained many ribosomes, profiles of RER, a prominent Golgi apparatus, lysosomes, vesicles, residual bodies, and a prominent number of peripheral pseudo-intracellular vesicles containing budding virions. Syncytial cells morphologically were either of macrophage or lymphocyte origin with characteristics as described above. Lymphocyte syncytia, however, were smaller than the macrophage syncytia, averaging 15 um versus 27 um. Tubuloreticular arrays (viral-like particles) were observed in the RER of the lymphocytes and macrophages irrespective of viral replication.

Degenerative changes were observed in epithelial cells located along the villus tips in intestinal tissues. These included a marked loss of microvilli, cytoplasmic vacuolization, dilation of RER, loss of ground substance, and separation from the basal lamina. Evidence of ulceration was rare and remaining enterocytes maintained integrity over the lamina propria, appearing cuboidal and occasionally squamous. Crypt changes consisted of loss of microvilli, focal necrosis, separation of cells, invasion of lymphocytes and macrophages, and eventual loss of crypt organization. Occasional crypts contained infected lymphocytes surrounded by macrophages. Crypt lumina often contained sloughed epithelium and neutrophils. Epithelial changes were similar to those previously described with mild ischemia, and may be due to the extensive cellular infiltrate and inflammation noted in the lamina propria.

b. Phenotypic And Functional Alterations In Macaque Organs Following SIV Infection.

Analysis of peripheral lymphoid organs from PBj infected rhesus and cynomolgus macaques indicates that despite the absence of circulating lymphocytes, activated lymphocytes can be observed in the lymph nodes, but not in the spleen. To further study this observation, we used a new monoclonal antibody to the CD45 marker found on lymphocytes. This monoclonal was found to stain three populations of T cells which we designate as low, medium and high expressors. The low population was determined to be antigen naive resting cells. The medium peak was determined to be memory cells which express activation markers CD44, CD11a (LFA-1) and CD54 (ICAM-1). The high peak contained a population of T cells which is partially activated, containing cells that also express high levels of CD29, CD11a, CD44 and CD69. Using cell sorting technology, we determined that the CD45 high cell population, unlike the medium and low populations, were unresponsive to PHA stimulation but reacted to IL-2, indicating the presence of high affinity IL-2 receptors. Using this monoclonal antibody we determined that most normal rhesus peripheral blood samples contain all three peaks, while many cynos and pigtaills are deficient in both the low and medium peaks. Macaques infected with SIV (SIVsm/PBj, SIVcat or SIVmne/E11S) lose the low and medium peaks when a viremia is detected. Animals that later become virus negative can regain these peaks.

E. Special Projects

Serum samples from murine leukemia virus experiments conducted in Dr. James Rankin's laboratory at USAMRIID were sent to SRI for assay in the UV-XC plaque assay and the RT assay. The first shipment of serum samples, received on April 26, 1988, contained 48 samples to be assayed for the presence of Rauscher MuLV and 15 samples to be assayed for the presence of LP-BMS MuLV. The second shipment of samples, received on August 9, 1988, contained 59 serum samples to be assayed for the presence of Rauscher MuLV.

The results of serum samples assayed for the presence of Rauscher MuLV are reported in Tables 29 and 31. The results of the samples assayed for the presence of LP-BMS MuLV in the UV-XC plaque assay are reported in Table 30.

Table 29
 Assay for Rauscher MuLV
 in Serum by UV-XC Plaque and RT Assays
 (Samples Received 4-26-88)

Sample No.	UV-XC Plaque Assay (PFU/ml)	RT Activity (Units)	CV (%)
1	2.4×10^3	59,600	35
2	6.0×10^2	28,400	10
3	$<1.0 \times 10^2$	18,000	15
Average		35,333	50
4	$<1.0 \times 10^1$	5,200	12
5	$<1.0 \times 10^1$	1,600	43
6	$<1.0 \times 10^1$	13,200	12
Average		6,667	73
7	$<1.0 \times 10^1$	800	7
8	$<1.0 \times 10^1$	800	18
9	$<1.0 \times 10^1$	800	32
Average		800	0
10	$<1.0 \times 10^1$	400	28
11	6.5×10^4	27,200	15
12	$<1.0 \times 10^1$	800	43
Average		9,467	132
13	$<1.0 \times 10^1$	800	83
14	2.0×10^5	157,600	5
15	5.9×10^3	9,200	17
Average		55,867	129
16	1.3×10^4	20,800	27
17	1.3×10^4	31,600	9
18	5.3×10^4	31,600	2
Average		28,000	18
19	3.9×10^5	395,600	23
20	7.4×10^3	23,500	13
21	9.8×10^4	219,600	6
Average		212,933	71
22	$<1.0 \times 10^1$	1,600	35
23	$<1.0 \times 10^1$	1,200	20
24	$<1.0 \times 10^1$	1,200	21
Average		1,333	14
25	2.6×10^2	4,400	13
26	5.2×10^2	2,800	5
27	1.5×10^4	58,800	5
Average		22,000	118

Table 29 (Cont'd)

<u>Sample No.</u>	<u>UV-XC Plaque Assay (PFU/ml)</u>	<u>RT Activity (Units)</u>	<u>CY (%)</u>
28	7.5×10^2	6,000	16
29	5.0×10^1	3,200	12
30	5.6×10^2	5,600	14
Average		4,933	25
31	1.2×10^5	264,400	10
32	1.7×10^5	222,800	25
33	4.3×10^6	704,400	8
Average		397,200	55
34	$< 2.0 \times 10^1$	32,400	53
35	$< 1.0 \times 10^1$	4,800	55
36	6.6×10^3	17,200	12
Average		18,133	62
37	4.0×10^1	400	45
38	4.0×10^2	3,200	14
39	1.2×10^2	800	9
Average		1,467	84
40	3.9×10^3	50,400	12
41	7.6×10^2	4,800	19
42	8.9×10^4	154,400	19
Average		69,867	90
43	$< 2.0 \times 10^1$	1,600	62
44	$< 2.0 \times 10^1$	400	38
45	$< 2.0 \times 10^1$	800	82
Average		933	53
46	1.0×10^1	400	30
47	2.0×10^1	400	12
48	2.0×10^1	1,200	81
Average		667	57

Table 30
Assay for LP-BM5 Murine Leukemia Virus
in the UV-XC Plaque Assay
(Samples Received 4/26/88)

Sample Number	UV-XC Plaque Assay (PFU/ml)
49	$< 2.0 \times 10^1$
50	$< 2.0 \times 10^1$
51	$< 2.0 \times 10^1$
52	$< 2.0 \times 10^1$
53	$< 1.0 \times 10^1$
54	$< 1.0 \times 10^1$
55	$< 2.0 \times 10^1$
56	$< 1.0 \times 10^1$
57	$< 2.0 \times 10^1$
58	$< 1.0 \times 10^1$
59	$< 1.0 \times 10^2$
60	$< 1.0 \times 10^1$
61	$< 1.0 \times 10^1$
62	$< 1.0 \times 10^1$
63	$< 2.0 \times 10^1$

Table 31
Assay for Rauscher MuLV
in Serum by the UV-XC Plaque and RT Assays
(Samples Received 8-9-88)

Sample No.	UV-XC Plaque Assay (PFU/ml)	RT Activity (Units)	CV (%)
1	5.7×10^3	720	20
2	1.5×10^4	640	12
3	$< 2.0 \times 10^1$	400	31
4	3.2×10^5	17,840	23
5	$< 2.0 \times 10^1$	320	16
6	1.0×10^5	6,960	6
7	1.0×10^2	280	52
8	$< 2.0 \times 10^1$	240	11
9	9.0×10^4	3,200	13
10	2.0×10^4	9,040	34
11	4.0×10^5	24,680	23
12	7.2×10^2	440	24
13	$< 2.0 \times 10^1$	280	3
14	3.6×10^2	320	16
15	3.8×10^2	280	24
16	6.8×10^3	2,880	40
17	2.2×10^4	960	32
18	No sample submitted	-	-
19	1.0×10^2	280	9
20	4.8×10^3	1,080	21
21	8.1×10^4	1,600	46
22	3.9×10^5	7,320	0
23	3.6×10^5	10,800	7
24	1.6×10^5	10,040	31
25	1.7×10^5	5,520	9
26	1.4×10^5	2,120	1
27	1.3×10^5	2,400	10
28	1.2×10^6	48,800	37
29	$< 2.0 \times 10^1$	120	25
30	1.1×10^6	27,000	7
31	2.4×10^3	1,120	23
32	$< 2.0 \times 10^1$	240	30
33	5.4×10^2	240	29
34	3.3×10^5	3,680	14
35	3.5×10^5	4,560	5
36	6.5×10^5	18,120	8
37	2.6×10^5	14,480	2
38	$< 2.0 \times 10^1$	560	65
39	2.9×10^3	960	31
40	6.2×10^5	84,120	17

Table 31 (Cont'd)

Sample No.	UV-XC Plaque Assay (PFU/ml)	RT Activity (Units)	CV (%)
41	3.4×10^5	21,840	11
42	$<2.0 \times 10^1$	480	4
43	1.8×10^3	1,480	9
44	7.6×10^2	1,200	6
45	7.2×10^2	920	5
46	7.1×10^3	1,440	7
47	1.7×10^5	6,360	17
48	5.0×10^2	630	13
49	2.2×10^3	1,840	5
50	1.8×10^2	440	11
51	3.3×10^3	1,360	25
52	$<2.0 \times 10^1$	280	26
53	3.6×10^3	1,160	10
54	5.2×10^3	1,040	16
55	7.2×10^4	1,560	10
56	2.2×10^5	6,720	13
57	7.0×10^4	6,040	23
58	7.4×10^5	34,840	33
59	5.8×10^5	14,240	22
60	1.0×10^5	5,840	12

F. Conclusions

Primary Screening

Primary screening to assay unknown compounds for anti-HIV activity in tissue culture is well controlled and standardized to provide optimum reproducibility. We have screened about 4500 compounds during this contract period utilizing MT-2 and/or CEM cell lines.

Approximately 7-8 percent of the test compounds have demonstrated some activity as inhibitors of HIV-1. A total of 214 compounds were found active in two or more tests in the primary *in vitro* screen (see Appendix C). As illustrated in (Table 5), 116 compounds (2.5%) produced good anti-HIV activity with selectivity indices of ≥ 10 . Further evaluation of these compounds would certainly provide significant leads in the development of anti-HIV drugs.

Several compounds received further studies during the period of performance of this contract. AVS 7891 and AVS 8520, derivatives of TIBO, were shown to have significant activity in cell culture against HIV-1, but not HIV-2, confirming and expanding the work of Pauwels *et al.*, (1990). In addition, a series of compounds designated AM 242, AM 612, and AM 669 have received attention due to their high level activity against HIV-1. Both sets of compounds have been the subject of poster presentations and the TIBO data has been published in *Antiviral Research*.

Of the compounds tested in the synthetic homopolymer template assay, only AVS 5025 is a candidate for inhibition of HIV-1 replication via inhibition of reverse transcriptase. Any other antiviral compound would have to be metabolized to be a candidate for this mechanism of action. This conclusion may be limited by the artificial nature of the assay. Several compounds were found to be active against HIV-1 reverse transcriptase when the ribosomal RNA was used as the template. Five compounds are more active than AZT-TP (ID₅₀ of 0.18 $\mu\text{g}/\text{ml}$) in this assay. Suramin, a non-deoxynucleotide reverse transcriptase inhibitor, has an ID₅₀ of 17 $\mu\text{g}/\text{ml}$. Six additional compounds would fall in the activity range between AZT-TP and suramin. Nine of these eleven compounds showed antiviral activity in the cell culture assays. One of the inactives, AVS 9465, was toxic to the cells at all concentrations tested. Since we switched to the ribosomal RNA template in the last year of the project there have been a higher percentage of reverse transcriptase inhibitors as well as a better correlation between reverse transcriptase inhibition and antiviral activity in cell culture. This could be a result of the new template or a change in the type of compounds being submitted for testing.

The reverse transcriptases from AMV, Moloney MuLV, and Rauscher MuLV can not substitute for the enzyme for HIV-1, at least when synthetic homopolymer templates are used in the assays. Data published by ourselves and others on deoxynucleotide analogs supports this conclusion.

Recently, a novel series of non-nucleoside compounds, derivatives of tetrahydro-imidazo[4,5, 1-jk] [1,4]-benzodiazepin-2(1H)-one and thione (TIBO), have been shown to have potent and selective activity against human immunodeficiency virus type 1 (HIV-1) in cell culture (Pauwels *et al.*, (1990). We have found two of these analogs to be potent inhibitors of HIV-1 reverse transcriptase, when ribosomal RNA is used as the template for the assay. Detailed characterization of the kinetic data indicates that this class of compounds may act at a unique, previously unknown, site on the enzyme.

Two *in vivo* murine models of retroviral disease have been established and characterized. The RMuLV model serves well as a rapid primary screen, with the BM-5 model as a secondary screen for agents, especially BRM, active against RMuLV *in vivo*. A number of agents, including the established antiviral agents AZT and Ribavirin, have shown activity in these model systems. MVE-2 consistently demonstrated prophylactic, but not therapeutic, activity. Thus, the potential utility of MVE-2 in treating

HIV infection in patients seems limited. Poly [I,C]-LC showed consistent antiviral activity, especially when given therapeutically. Its antiviral activity seems to depend on its ability to augment splenic NK activity. Finally, protease inhibitors provided consistently strong antiviral activity *in vitro*, and they offer a new therapeutic target for antiviral action.

The SIV research program was concerned with the development of a functional modeling system in which a 100% lethality occurred in infected macaques. Initially, rhesus macaques were used for this project. After successive *in vivo* passage of SIVpbj in rhesus monkeys, only a 75% lethality could be achieved. This forced us to examine other potential macaque species for their usefulness. We currently use cynomolgus macaques for all SIVpbj drug screening protocols. These monkeys were found to uniformly respond to SIVpbj challenge. Five protease inhibitors (supplied by Smith Kline Beecham) were tested for their ability to inhibit SIVpbj syncytial cell formation and p27 production in the AA-2 cell line. The protease inhibitors were designed to act against the HIV-1 protease, and these studies were performed to determine their effect on SIV. The results shown in Table 28 indicate that two of the five compounds were active against SIV *in vitro*. Compounds 4 and 5 were able to inhibit up to 2 logs of virus.

IV. LITERATURE CITED

- Baba, M., Pauwels, R., Balzarini, J., Herdewijn, P., De Clercq, E., and Desmyter, J. (1987). Ribavirin Antagonizes Inhibitory Effects of Pyrimidine 2',3'-Dideoxynucleosides on Replication of Human Immunodeficiency Virus *In Vitro*. *Antimicrob. Agents Chemother.* 31:1613.
- Baril, E., Mitchener, J., Lee, L., and Baril, B. (1977). Action of pancreatic DNase: Requirements for activation of DNA as a template-primer for DNA polymerase α . *Nucleic Acids Res.* 4:2641-2653.
- Ehrlich, J., Sloan, B.J., Miller, F.A., and Machamer, H.E. (1965). Searching for antiviral materials from microbial fermentations. *Ann. N.Y. Acad. Sci.* 130:5-16.
- Fischinger, P.J., Blevins, C.S., and Nomura, S. (1974). Simple quantitative assay for both xenotropic murine leukemia and ecotropic feline leukemia viruses. *J. Virol.* 14:177-179.
- Harada, S., Koyanagi, Y., and Yamamoto, N. (1985). Infection of HTLV-III/LAV in HTLV-I-carrying cells MT-2 and MT-4 and application in a plaque assay. *Science* 229:563-566.
- Moster, D. E., Yeter, R. A., and Morse, H. C., III (1987). Functional T lymphocytes are required for a murine retrovirus-induced immunodeficiency disease (MAIDS). *J. Exp. Med.* 165:1737-1742.
- Nara, P.O., Hatch, W.C., Dunlop, N.M., Roley, W.G., Arthur, L.D., Gonda, M.A., and Fischinger, P.J. (1988). *Aids Res. Hum. Retroviruses* 3:283-302.
- Parker, W.B. and Chang, Y.-C., (1987). Inhibition of DNA primase by nucleoside triphosphates and their arabinofuranosyl analogs. *Mol. Pharmacol.* 31:146-151.
- Parker, W.B., White, E.L., Shaddix, S.C., Ross, L.J., Buckheit, R.W., Jr., Germany, J.M., Secrist, J.A. III, Vince, R., and Shannon, W.M. (1991). Mechanism of inhibition of human immunodeficiency virus type 1 reverse transcriptase and human DNA polymerase α , β , and γ by the 5'-triphosphates of carbovir, 3'-azido-3'-deoxythymidine, 2',3'-dideoxyguanosine, and 3'-deoxythymidine. A novel RNA template for the evaluation of antiretroviral drugs. *J. Biol. Chem.* 266:1754-1762.
- Pauwels, R., Andries, K., Desmyter, J., Schols, D., Kukla, M.J., Breslin, H. J., Raeymaeckers, A., Gelder, J.V., Woestenborghs, R., Heykants, J., Schellekens, K., Janssen, M.A.C., De Clercq, E., and Janssen, P.A.J. (1990). Potent and selective inhibition of HIV-1 replication *in vitro* by a novel series of TIBO derivatives. *Nature* 343:470-474.
- Reed, L.J., and Muench, H.A. (1938). A simple method for estimating fifty percent end-points. *Amer. J. Hyg.* 27:493-497.
- Spira, T.J., Bozeman, L.H., Holman, R.C., Warfield, D.T., Phillips, S.K., and Feorino, P.M. (1987). Micromethod for assaying reverse transcriptase of human T-cell lymphotropic virus type III/lymphadenopathy-associated virus. *J. Clin. Microbiol.* 25:97-99.
- Tada, H., Shiho, O., Kuroshimz, K., Koyama, M., and Tsukamoto, K. (1986). Improved colorimetric assay for interleukin 2. *J. Immunol. Methods* 93:157-165.

White, E.L., Parker, W.B., Mazy, L.J., Shaddix, S.C., McCaleb, G., Secrist, J.A. III, Vince, R., and Shannon, W.M. (1989). Comparison of the effect of carbovir, AZT, and dideoxynucleoside triphosphates on the activity of human immunodeficiency virus reverse transcriptase and selected human polymerases. *Biochem. Biophys. Res. Comm.* 161:393-398.

White, E.L., Shaddix, S.C., Brockman, K.W., and Bennett, L.L., Jr. (1982). Comparison of the actions of 9- β -D-arabinothiouracyl adenine on target enzymes from mouse tumor cells. *Cancer Res.* 42:2260-2264.

V. ABSTRACTS AND PUBLICATIONS

Papers:

Black, P.L., Ussery, M.A., Rankin, J.T., Chirigos, M.A. (1990) Therapeutic efficacy of reverse transcriptase inhibitors in murine retrovirus models. *Ann. NY Acad. Sci.* 616:486-490.

Chirigos, M.A., Ussery, M.A., Rankin, J.T., Herrmann, D., Bicker, U., and Black, P.L. (1990) Antiviral efficacy of Imexon in the Rauscher murine leukemia virus AIDS model. *Immunopharm. Immunotox.* 12:1-21.

Rosenberg, Y.R., White, B.D., P. permaster, S.F., Zack, P., Jahrling, P.B., Eddy, G.A., Burke, D.S. and Lewis, M.G. Variation in T lymphocyte activation and susceptibility to SIV/PBj-14 induced acute death in macaques. *J. Primatol.* (in press)

Manuscripts submitted for publication or in preparation:

Birx, D.L., Lewis, M.G., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L., Tosato, G. and Jahrling, P.B. Abnormally elevated serum levels of interleukin-6 in pigtailed macaques infected with SIVsm/pbj. (submitted)

Black, P.L., Downs, M.B., Lewis, M.G., Ussery, M.A., Dreyer, G.B., Petteway, S.B., and Lambert, D.M. Antiretroviral activity of protease inhibitors in animal models of AIDS. I. Activity against murine leukemia virus and simian immunodeficiency virus in tissue culture. (in preparation)

Black, P.L., Lewis, M.G., Petteway, S.W., Lambert, D., Ussery, M., and Jahrling, P.B. Inhibition of murine leukemia virus and simian immunodeficiency virus with an HIV protease inhibitor. (in preparation)

Brown, C.R., Lewis, M.G., Jahrling, J.B., Elkins, V.R., and Zack, P.M. Ultrastructural pathology of the acutely lethal primate lentivirus, SIVsm-pbj in pigtailed and cynomolgus macaques. (in preparation)

Klinman, D.M., Krieg, A., Conover, J., Ussery, M.A., and Black, P.L. Effect of cyclophosphamide, total body irradiation and zidovudine on retrovirus proliferation and disease progression in murine AIDS. (Submitted)

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L., Tosato, G. and Jahrling, P.B. Species variation of interleukin 6 product on associated with infection of an acutely fatal simian immunodeficiency virus isolate. (in preparation)

Lewis, M.G., Jahrling, P.B., Nara, P.L., Mann, D. and Benveniste, R.E. Utilization of a transformed B-cell line that produces readily detectible syncytia after infection with various SIV isolates. (in preparation)

Lewis, M.G., Zack, P.M., and Jahrling, P.B. Infection of rhesus and cynomolgus macaques with a rapidly fatal SIV isolate from sooty mangabeys (SIVsmm/pbj). (submitted)

White, E.L., Buckheit, R.W., Jr., Ross, L.J., Germany, J.M., Andries, K., Pauweis, R., Janssen, P.A.J., Shannon, W.M., and M.A. Chirigos. A TIBO Derivative, R82913, is a potent inhibitor of HIV-1 reverse transcriptase with heteropolymer templates. (1991) *Antiviral Research* (in press)

Zack, P.M., Hall, W., Lewis, M.G., Jahrling, P.B., Vogel, A.P. and Elkins, W.R. Immunohistochemical staining of simian immunodeficiency virus PBj infected tissues using SIVmne specific antibodies. (in preparation)

Zack, P.M., Vogel, A.P., Hall, W.C., Lewis, M.G., and Jahrling, P.B. Pathology of SIVsm-pbj in pigtailed macaques. (in preparation)

Abstracts:

Benveniste, B., Heidecker, G., Henderson, L., Powell, P., Lewis, M., Hu, S.L., Morton, W., Eddy, G., Burke D. and Shafferman, A. Pathogenesis and vaccine studies in SIV and Type D retrovirus-infected macaques. Annual Meeting of the Laboratory of Tumor Cell Biology, National Cancer Institute, Bethesda, MD, 1990.

Benveniste, R., Mann, D., Kuller, L., Morton, W., Hu, S.L., Eddy, G., Shafferman, A. and Lewis, M. Virus Neutralizing antibodies in SIV and Type-D vaccinated macaques, and in animals infected with SIV/Mne. Symposium on Nonhuman Primate Models of AIDS, New Orleans, LA, 1990.

Black, P.L., Lewis, M.G., Downs, M.B., Ussery, M.A., Lambert, D.M., Dreyer, G.B., and Petteway, S.R. (1991) Antiviral activity of protease inhibitors in animal models of AIDS. 4th International Conference on Antiviral Research, New Orleans, LA, Antiviral Res. Suppl. 1:130.

Black, P.L., Lewis, M.G., Downs, M.B., Ussery, M.A., Lambert, D.M. and Petteway, S.R., Jr. Antiviral activity of protease inhibitors in animal models for AIDS. International Society for Antiviral Research, New Orleans, LA, 1991.

Black, P.L., McKinnon, K.M., Wooden, S.L., and Ussery, M.A. (1991) Antiviral activity of the interferon inducer poly[I,C]-LC in a murine AIDS model: Requirement for augmentation of natural killer (NK) cell activity and synergy with oral AZT. Accepted for presentation at 17th International Congress of Chemotherapy, Berlin, Germany.

Black, P.L., Rankin, J.T., Ussery, M.A., and Chirigos, M.A. (1990) Evaluation of interferon inducers and other biological response modifiers in murine AIDS models. UCLA Symposium on Molecular Pathways of Cytokine Action, Park City, UT.

Black, P.L., Rankin, J.T., Ussery, M.A., and Chirigos, M.A. (1989) Murine models for evaluating the therapeutic efficacy of antiviral agents and biological response modifiers in treating retroviral disease. J. Cell. Biochem. Suppl. 13B:297.

Black, P.L., Rankin, J.T., Ussery, M.A., and Chirigos, M.A. (1989) Therapeutic efficacy of antiviral agents and biological response modifiers in murine AIDS models. 7th International Congress of Immunology. West Berlin, Germany.

Black, P.L., Ussery, M.A., McKinnon, K.M., Rankin, J.T., Wooden, S.L., and Chirigos, M.A. (1990) Antiviral activity of interferon inducers and other biological response modifiers in Rauscher leukemia virus-infected mice correlates with augmentation of natural killer cell activity. Conference on Advances in Molecular Biology and Targeted Treatments for AIDS, Washington, DC.

Black, P.L., Ussery, M.A., Rankin, J.T., and Chirigos, M.A. (1990) Antiviral activity of biological response modifiers in Rauscher leukemia virus-infected mice correlates with augmentation of natural killer cell activity. 8th International Congress of Virology, West Berlin, Germany.

Black, P.L., Ussery, M.A., Rankin, J.T., and Chirigos, M.A. (1990) Antiviral efficacy of the heteropolyanions AVS 2575 and AVS 2576 in murine AIDS models. UCLA Symposium on Animal Models of Human Viral Diseases, Keystone, CO, J. Cell. Biochem. Suppl. 14D:62.

Black, P.L., Ussery, M.A., Rankin, J.T., and Chirigos, M.A. (1989) Therapeutic efficacy of reverse transcriptase inhibitors in murine retrovirus models. 2nd International Conference on Drug Research in Immunologic and Infectious Diseases: AIDS. Arlington, VA.

Black, P.L., Wooden, S.L., McKinnon, K.M., and Ussery, M.A. (1991) Comparison of the activities of AZT, ddI and AZT-P-ddI dimer *in vitro* and *in vivo* in a murine AIDS model. Accepted for presentation at 7th International Conference on AIDS, Florence, Italy.

Brown, C.R., Lewis, M.G., Jahrling, J.B., Elkins, W.R. and Zack, P.M. Ultrastructural pathology of the acutely lethal primate lentivirus, SIVsm-pbj in pigtailed and cynomolgus macaques. Symposium on Nonhuman Primate Models of AIDS, New Orleans, LA, 1990.

Buckheit, R.W., Jr., Brown, R.D., White, E.L., Ross, L.J., Chirigos, M.A., Shannon, W.M., (1991). Significant Anti-HIV Activity of New Modified Polysaccharides *In Vitro*. Symposium of Antivirals, Vaccines and Immunotherapy of HIV Infection, St. Petersburg Beach, FL.

Chirigos, M.A., Black, P.L., Rankin, J.T., Ussery, M.A., Herrmann, D., and Bicker, U. (1990) Antiviral efficacy of Imexon in the Rauscher murine leukemia virus AIDS model. Conference on Advances in Molecular Biology and Targeted Treatments for AIDS, Washington, DC.

Jahrling, P.B., Lewis, M.G., Zack, P.M., Fultz, P.N., McClure, H.M. and Peters, C.J. Infection of rhesus macaques with a rapidly fatal mangabey SIV isolate (SIVpbj). International meeting on animal models in AIDS, Maastrich, The Netherlands, 1989.

Jahrling, P.B., Lewis, M.G., Zack, P.M., and Peter, C.J. Infection of rhesus and cynomolgus macaques with a rapidly fatal SIV isolate from sooty mangabeys (SIVsmm/pbj). Symposium on Nonhuman Primate Models of AIDS, Portland, OR, 1989.

Klinman, D.M., Ussery, M.A., Conover, J., Krieg, A., and Black, P.L. (1991) Elimination of infected lymphocytes by cyclophosphamide treatment and irradiation followed by syngeneic bone marrow reconstitution in the presence of AZT: Effect on retrovirus proliferation and disease progression in murine AIDS. Accepted for presentation at 17th International Congress of Chemotherapy, Berlin, Germany.

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L. and Jahrling, P.J. Elevated levels of circulating interleukin-6 are associated with infection with an acutely fatal simian immunodeficiency virus isolate. Annual Meeting of the Laboratory of Tumor Cell Biology, National Cancer Institute, Bethesda, MD, 1990.

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L. and Jahrling, P.J. Elevated levels of circulating interleukin-6 are associated with infection with an acutely fatal simian immunodeficiency virus isolate. Conference on Advances in Molecular Biology and Targeted Treatments for AIDS. Washington, D.C. 1990.

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L. and Jahrling, P.J. Elevated levels of circulating interleukin-6 are associated with infection with an acutely fatal simian immunodeficiency virus isolate. UCLA Symposium, Keystone, CO. Cell. Biochem. Supplement 14D, 1990

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.L. and Jahrling, P.J. Elevated levels of circulating interleukin-6 are associated with infection with an acutely fatal simian immunodeficiency virus isolate. VIIIth International Congress of Virology, Berlin, 1990.

Lewis, M.G., Birx, D.L., Zack, P.M., Vahey, M.A., Redfield, R.R., Burke, D.S. and Jahrling, P.B. Species variation of interleukin production associated with infection with an acutely fatal simian immunodeficiency virus isolate (SIVsmphj). Symposium on Nonhuman Primate Models of AIDS, New Orleans, LA, 1990.

Lewis, M.G., Jahrling, P.B., Peters, C.J., Nara, P.L. and Benveniste, R.E. Utilization of a transformed B-cell line that produces readily detectible syncytia after infection with various SIV isolates. Symposium on Nonhuman Primate Models of AIDS, Portland, OR, 1989.

Lewis, M.G., Jahrling, P.B., and Zack, P.M. Infection of rhesus macaques with a rapidly fatal mangabey SIV isolate (SIVpbj). Conference on Advances in Molecular Biology and Targeted Treatments for AIDS. Washington, D.C. 1990.

Rankin, J.T., Ussery, M.A., Black, P.L., and Chirigos, M.A. (1988) *In vivo* suppression of murine retrovirus replication by selected agents. N.I.H. AIDS National Cooperative Drug Discovery and Development Meeting. Oakland, California.

Rosenberg, Y.R., White, B.D., Lewis, M.G., Mosca, J., Papermaster, S.F., Kersey, K., de Crombrughe, I., Eddy, G.A. and Burke, D.S. Differences in T cell function in rhesus and pigtailed monkeys: Implications regarding susceptibility to SIV infection. Symposium on Nonhuman Primate Models of AIDS, New Orleans, LA, 1990.

Rosenberg, Y.R., White, B.D., Lewis, M.G., Mosca, J., Papermaster, S.F., Kersey, K., Eddy, G.A. and Burke, D.S. Phenotypic and functional alterations in primate lymphoid organs following SIV and HIV infection. Symposium on Nonhuman Primate Models of AIDS, New Orleans, LA, 1990.

Ussery, M.A., Black, P.L., Downs, M.B., Lewis, M.G., Lambert, D.M., Dreyer, G.B., and Petteway, S.R. (1991) *In vitro* and *in vivo* activity of HIV protease inhibitors in an animal retroviral model. Accepted for presentation at 7th International Conference on AIDS, Florence, Italy.

Ussery, M.A., Black, P.L., McKinnon, K.M., Rankin, J.T., Wooden, S.L., and Chirigos, M.A. (1990) Evaluation of dideoxynucleosides in murine retroviral models. Conference on Advances in Molecular Biology and Targeted Treatments for AIDS, Washington, DC.

Ussery, M.A., Black, P.L., Rankin, J.T., and Chirigos, M.A. (1990) Interferon inducers and other biological response modifiers in murine retrovirus models. 3rd International Conference on Antiviral Research, Brussels, Belgium, Antiviral Res. Suppl. 1:92.

Ussery, M.A., Black, P.L., Rankin, J.T., and Chirigos, M.A. (1989) *In vivo* efficacy of the immunomodulator MVE-2 alone and in combination with AZT in the Rauscher murine leukemia retrovirus model. 29th Interscience Conference on Antimicrobial Agents and Chemotherapy. Houston, TX

White, E.L. A Novel RNA Template for the Study of Reverse Transcriptase Inhibitors & Its Application to Understanding the Nature of the TIBO Binding Site. 4th Trilateral Meeting "Anti-HIV Drug Development" Berlin, Germany, 1991.

White, E.L., Buckheit, R., W., Jr., Parker, W.B., Ross, L.J., Germany, J.M., Shannon, W.M., and M.A. Chirigos. (1991) TIBO Derivatives are Potent Inhibitors of HIV-1 Reverse Transcriptase with Heteropolymer Templates. First Symposium on HIV Disease: Pathogenesis and Therapy, Orlando, Florida.

White, E.L., Buckheit, R., W., Jr., Parker, W.B., Ross, L.J., Germany, J.M., Shannon, W.M., Janssen, P.A.J., and M.A. Chirigos. (1991) TIBO Derivatives are Potent Inhibitors of HIV-1 Reverse Transcriptase with Heteropolymer Templates. Fourth International Conference on Antiviral Research, New Orleans, Louisiana.

White, E.L., Parker, W.B., Ross, L.J., Shaddix, S.C., and W.M. Shannon. A Novel RNA Template for the Study of Antiretroviral Drugs. (1991) Fourth International Conference on Antiviral Research, New Orleans, Louisiana.

Wooden, S.L., Ussery, M.A., McKinnon, K.M., Rankin, J.T., Chirigos, M.A., and Black, P.L. (1990) Antiviral efficacy of the heteropolyanions AVS 2575 and AVS 2576 in two murine retrovirus models of AIDS. Conference on Advances in Molecular Biology and Targeted Treatments for AIDS, Washington, DC.

Zack, P.M., Hall, W.C., Benveniste, R.E., Henderson, L.E., Lewis, M.G., Jahrling, P.B. Immunohistochemical demonstration of SIVsmm-pb1 specific proteins in fixed tissues using SIVsmm specific antisera. Symposium on Nonhuman Primate Models of AIDS, Portland, OR, 1989.

Zack, P.M., Hall, W.C., Vogel, A.P., Elkins, W.R., Brown, C.R., Lewis, M.G. and Jahrling, P.B. Pathology and immunopathology of SIVsmm-pb1 associated gastroenteritis in macaques. Symposium on Nonhuman Primate Models of AIDS, Portland, OR, 1989.

Zack, P.M., Vogel, A.P., Hall, W.C., Lewis, M.G., Jahrling, P.B., and Peters, C.J. Pathology of SIVsmm-pb1 in rhesus macaques. International meeting on animal models in AIDS, Maastrich, The Netherlands, 1989.

VI. LIST OF PERSONNEL RECEIVING CONTRACT SUPPORT,
GRADUATE DEGREES RECEIVED

<u>Professional</u>	<u>Non-Professional Research Staff</u>	<u>Support Service</u>
Black, Paul L., Ph.D.	Bailey, E. Jean, B.S.	Bell, Elijah
Bowdon, Bonnie Jean, B.S.	Barber, Judson W.	Billingsley, Ann B.
Brando, Lorraine V., Ph.D.	Borden, Walter	Bryant, Marguerite
Brazier, Anne D., B.S.	Brown, Richard D., B.S.	Duke, Jerome C.
Buckheit, Robert W., Jr., Ph.D.	Conway, Joan A., B.S.	Duke, Walter D.
Duimadge, Elizabeth A., M.S.	Crockett, Jacqueline, B.S.	Gurley, Mark R.
Herren, Thomas C., B.S.	Daniels, Pamela R., B.S.	Harris, Reginald
Hollingshead, Melinda G., Ph.D.	Danner, Ali B., B.S.	Hubbard, Melissa D.
Kahlon, Jasbir B., Ph.D.	Dorney, Kevin W.	Leopard, Robert H.
Lavelle, George C., Ph.D.	Edwards, Carrie F.	Meadows, Billy F.
Lewis, Mark G., Ph.D.	Farris, Lajuana A., A.A.S.	Millwood, M. Durlon
Parker, William B., Ph.D.	Germany, Julie M., B.S.	Milton, Ruthie W.
Peake, Valerie D., B.A.	Hultquist, John W., B.S.	Parham, Charles F.
Ross, Lucy M., B.S.	Johnson, Joan M., B.S.	Smith, Larry
Shaddix, Sue C., B.S.	Keith, Kathy A., M.S.	Trammer, George, Jr.
Shannon, William M., Ph.D.	Kozelman, James, B.S.	Williams, Timothy
Siddiqui, Khwaja M., Ph.D.	Lambert, Byron W., B.S.	Wright, Kenneth E.
Toyer, Barbara R., B.S.	Langston, Stephen A., B.S.	
Westbrook, T. Louise, B.S.	Macy, Lisa J., M.S.	
White, E. Lucile, B.A.	Mayomi, Edith E., B.S.	
Wilcox, Lee J., Ph.D.	McCain, Dorothy M., B.S.	
Williams, Gary J., Ph.D.	McDuffie, Teresa L.	
	McKinnon, Katherine Marie, B.S.	
	Merrill, Steven E., B.S.	
	Moody, Rosa G.	
	Morris, Karen L., B.S.	
	Nichols, Jeffrey A., B.S.	
	Niwas, Santosh, Ph.D.	
	Page, Kimberly C., B.S.	
	Parrell, Edward B.	
	Pickett, Sarah A.	
	Potts, Daniel C., B.S.	
	Preasley, Lonnie F.	
	Qualls, Karen J., B.S.	
	Roberts, Beverly D., B.S.	
	Ross, Larry J., M.S.	
	Ross, Martha J., M.S.	
	Rosenberry, J. David, B.S.	
	Rowe, Thomas, B.S.	
	Schnumph, Jane E., B.S.	
	Seifeldin, Galaleidin A., M.S.	
	Strangfellow, S. Ellen, B.S.	
	Strangfellow, Thomas D., B.S.	
	Sykes, Wendy J.	
	Talley, Judith B.	
	Tubbs, Robert C., Jr.	
	Tucker, Michael R., B.S.	
	Vance, Frank L., IV	
	Vizzina, Rose Marie, A.S.	
	Vannanonda, Sudhida, B.S., M.S.	
	Yalley Oguzro, Jacob E., B.S.	
	Waggoner, Kelly E.	
	Watkins, Stephen L., B.S.	
	Wooden, Sharon L., B.S.	
	Woraham, Robin D., B.S.	
	Zahorscak, Kathryn E., B.S.	

APPENDICES

APPENDIX A

Total Experience of *In Vitro* Antiviral
Screening Results

Part I - Summary of AID's Testing for
Period of 1/1/88 to 12/31/88

Part II - Summary of AID's Testing for
Period of 1/1/89 to 4/30/91

APPENDIX A

Part I - Summary of AIDS Testing for
Period of 1/1/88 to 12/31/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IC50	CELL	MT50	TI	DATE
AVS-0001	CPE	HIV	----	----	MT-2	51.40	----	4/14/88
AVS-0001	CPE	HIV	----	----	CEM	70.90	----	4/26/88
AVS-0079	CPE	FELV	1.45	5.00	B1C	3.20	0.63	6/ 3/88
AVS-0079	CPE	HIV	----	----	AT48	0.32	----	2/ 3/88
AVS-0094	CPE	HIV	----	----	AT48	> 100.00	----	1/27/88
AVS-0094	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-0094	CPE	HIV	----	14.70	MT-2	> 100.00	> 6.82	6/22/88
AVS-0094	CPE	HIV	----	68.50	MT-2	> 100.00	> 1.46	8/16/88
AVS-0111	CPE	HIV	----	----	MT-2	5.81	----	8/16/88
AVS-0136	CPE	HIV	----	4.73	MT-2	34.30	17.80	6/22/88
AVS-0136	CPE	HIV	----	----	MT-2	84.40	----	8/16/88
AVS-0136	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-0140	CPE	HIV	----	5.80	MT-2	> 100.00	> 17.00	6/22/88
AVS-0206	CPE	FELV	3.02	25.20	B1C	320.00	12.60	6/ 3/88
AVS-0206	CPE	HIV	----	----	MT-2	> 100.00	----	4/14/88
AVS-0206	CPE	HIV	----	----	CEM	> 100.00	----	4/26/88
AVS-0206	CPE	HIV	----	----	MT-2	> 10.00	----	5/23/88
AVS-0206	S1	SRV2	----	9.10	RAJ1	> 320.00	> 35.10	6/ 6/88
AVS-0215	CPE	FELV	1.60	20.70	B1C	32.00	1.54	6/ 3/88
AVS-0222	CPE	FELV	1.55	47.50	B1C	32.00	0.67	6/ 3/88
AVS-0233	CPE	HIV	----	----	MT-2	46.50	----	5/ 9/88
AVS-0253	CPE	HIV	----	----	MT-2	0.61	----	5/ 9/88
AVS-0272	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-0286	CPE	HIV	----	----	MT-2	< 0.10	----	5/18/88
AVS-0286	CPE	HIV	----	----	MT-2	< 0.32	----	12/28/88
AVS-0360	CPE	HIV	----	----	AT48	< 0.10	----	3/18/88
AVS-0360	CPE	HIV	----	----	AT48	< 0.10	----	3/23/88
AVS-0360	CPE	HIV	----	----	MT-2	< 0.10	----	3/29/88
AVS-0360	CPE	HIV	----	----	MT-2	< 0.10	----	4/15/88
AVS-0361	CPE	HIV	----	----	AT48	< 0.10	----	3/18/88
AVS-0361	CPE	HIV	----	----	AT48	< 0.10	----	3/23/88
AVS-0580	CPE	HIV	----	58.80	MT-2	> 100.00	> 1.70	4/15/88
AVS-0581	CPE	HIV	----	32.50	MT-2	> 100.00	> 3.08	4/15/88
AVS-0582	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0583	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0584	CPE	HIV	----	30.40	MT-2	> 100.00	> 3.29	4/15/88
AVS-0585	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0586	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0587	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0588	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0598	CPE	HIV	----	0.77	MT-2	> 100.00	> 130.00	3/29/88
AVS-0598	CPE	HIV	----	4.98	MT-2	> 100.00	> 20.00	4/15/88
AVS-0599	CPE	HIV	----	11.40	MT-2	> 100.00	> 8.77	4/15/88
AVS-0600	CPE	HIV	----	19.20	MT-2	> 100.00	> 5.19	4/15/88
AVS-0666	CPE	HIV	----	----	MT-2	7.86	----	1/ 1/88
AVS-0697	CPE	HIV	----	----	AT48	> 100.00	----	1/11/88
AVS-0697	CPE	HIV	----	16.20	MT-2	> 100.00	> 7.01	4/15/88
AVS-0698	CPE	HIV	----	----	AT48	> 100.00	----	1/11/88
AVS-0698	CPE	HIV	----	15.40	MT-2	> 100.00	> 6.49	4/15/88
AVS-0700	CPE	HIV	----	----	AT-5	1.00	----	1/11/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/82 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	ID50	CELL	MTG50	TI	DATE
AVS-0700	CPE	NIV	----	12.40	MT-2	> 100.00	> 7.66	4/15/88
AVS-0702	CPE	NIV	----	----	ATH8	32.00	----	1/11/88
AVS-0702	CPE	NIV	----	4.09	MT-2	> 100.00	> 24.50	4/15/88
AVS-0704	CPE	NIV	----	----	ATH8	3.20	----	1/11/88
AVS-0704	CPE	NIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-0705	CPE	NIV	----	----	ATH8	32.00	----	1/11/88
AVS-0705	CPE	NIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-0706	CPE	NIV	----	----	ATH8	< 32.00	----	5/11/88
AVS-0706	CPE	NIV	----	----	MT-2	91.80	----	4/ 6/88
AVS-0707	CPE	NIV	----	----	ATH8	< 10.00	----	1/11/88
AVS-0707	CPE	NIV	----	----	MT-2	22.40	----	4/ 6/88
AVS-0708	CPE	NIV	0.75	----	ATH8	1.00	----	1/11/88
AVS-0708	CPE	NIV	----	23.30	MT-2	95.60	4.11	4/ 6/88
AVS-0709	CPE	NIV	1.90	----	ATH8	100.00	----	1/11/88
AVS-0709	CPE	NIV	----	24.50	MT-2	> 100.00	> 4.08	4/ 6/88
AVS-0709	CPE	NIV	----	44.60	MT-2	> 100.00	> 2.24	11/ 9/88
AVS-0709	CPE	NIV	----	----	MT-2	> 320.00	----	11/22/88
AVS-0710	CPE	NIV	----	----	ATH8	3.20	----	1/30/88
AVS-0710	CPE	NIV	----	20.00	MT-2	60.30	3.02	4/ 6/88
AVS-0712	CPE	NIV	----	----	ATH8	10.00	----	1/30/88
AVS-0712	CPE	NIV	----	33.50	MT-2	> 100.00	> 2.82	4/ 6/88
AVS-0713	CPE	NIV	----	----	ATH8	3.20	----	1/30/88
AVS-0713	CPE	NIV	----	----	MT-2	25.70	----	4/ 6/88
AVS-0714	CPE	NIV	----	----	ATH8	100.00	----	1/30/88
AVS-0714	CPE	NIV	----	12.30	MT-2	78.80	6.60	4/ 6/88
AVS-0715	CPE	NIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-0716	CPE	NIV	0.80	----	ATH8	> 10.00	----	2/ 3/88
AVS-0901	CPE	NIV	----	----	MT-2	1.25	----	5/23/88
AVS-0913	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-0999	CPE	PELV	2.64	8.10	81C	100.00	12.20	7/22/88
AVS-0999	CPE	NIV	----	11.80	MT-2	> 100.00	> 8.67	4/14/88
AVS-0999	CPE	NIV	----	----	CEN	> 100.00	----	4/26/88
AVS-0999	CPE	NIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-1116	CPE	NIV	----	----	MT-2	> 100.00	----	11/22/88
AVS-1117	CPE	NIV	----	----	MT-2	> 100.00	----	11/22/88
AVS-1207	CPE	NIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-1307	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1308	CPE	NIV	----	----	MT-2	> 100.00	----	6/ 1/88
AVS-1312	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1315	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1337	CPE	NIV	----	0.55	MT-2	24.20	43.56	5/31/88
AVS-1371	CPE	NIV	----	----	MT-2	> 100.00	----	11/22/88
AVS-1372	CPE	NIV	----	----	MT-2	51.60	----	11/22/88
AVS-1381	CPE	NIV	----	----	MT-2	59.80	----	12/ 9/88
AVS-1392	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1403	CPE	NIV	3.95	< 0.10	ATH8	10.00	> 100.00	1/11/88
AVS-1403	CPE	NIV	3.85	< 0.10	ATH8	10.00	> 100.00	1/11/88
AVS-1403	CPE	NIV	4.50	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-1403	CPE	NIV	3.75	< 0.10	ATH8	10.00	> 100.00	1/11/88
AVS-1403	CPE	NIV	4.45	< 0.10	ATH8	32.00	> 320.00	1/11/88

SUMMARY OF AIDC TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	TD50	CELL	NTC50	TI	DATE
AVS-1603	CPE	NIV	1.25	----	ATM8	3.20	----	1/21/88
AVS-1603	CPE	NIV	4.85	< 0.10	ATM8	32.00	> 320.00	1/27/88
AVS-1603	CPE	NIV	6.15	< 0.10	ATM8	32.00	> 320.00	1/30/88
AVS-1603	CPE	NIV	3.90	< 0.10	ATM8	10.00	> 100.00	2/ 3/88
AVS-1603	CPE	NIV	5.25	< 0.10	ATM8	10.00	> 100.00	2/ 3/88
AVS-1603	CPE	NIV	1.50	0.32	ATM8	3.20	10.00	2/ 4/88
AVS-1603	CPE	NIV	7.05	< 0.10	ATM8	100.00	>1000.00	2/10/88
AVS-1603	CPE	NIV	4.00	< 0.10	ATM8	32.00	> 320.00	2/15/88
AVS-1603	CPE	NIV	3.80	< 0.10	ATM8	10.00	> 100.00	2/17/88
AVS-1603	CPE	NIV	4.63	< 0.10	ATM8	3.20	> 32.00	3/18/88
AVS-1603	CPE	NIV	5.55	< 0.10	ATM8	10.00	> 100.00	3/23/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	62.50	> 625.00	3/29/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	48.90	> 489.00	3/29/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	86.60	> 866.00	4/ 1/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	54.00	> 540.00	4/ 4/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	54.60	> 546.00	4/ 7/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	56.00	> 560.00	4/ 8/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	66.90	> 669.00	4/15/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	66.80	> 668.00	4/15/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	4/16/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	4/16/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	4/29/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	5/ 3/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	91.60	> 916.00	5/ 9/88
AVS-1603	CPE	NIV	----	0.19	MT-2	> 100.00	> 521.00	5/18/88
AVS-1603	CPE	NIV	----	0.01	MT-2	> 10.00	> 642.00	5/23/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	5/24/88
AVS-1603	CPE	NIV	----	2.25	MT-2	> 100.00	> 44.50	5/31/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	5/31/88
AVS-1603	CPE	NIV	----	0.18	MT-2	> 100.00	> 556.00	6/ 1/88
AVS-1603	CPE	NIV	----	0.64	MT-2	> 100.00	> 226.00	6/ 1/88
AVS-1603	CPE	NIV	----	0.32	MT-2	> 100.00	> 309.00	6/ 3/88
AVS-1603	CPE	NIV	----	0.87	MT-2	> 100.00	> 114.00	6/ 8/88
AVS-1603	CPE	NIV	----	0.13	MT-2	64.50	315.00	6/10/88
AVS-1603	CPE	NIV	----	1.07	MT-2	76.30	71.00	6/10/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/16/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/16/88
AVS-1603	CPE	NIV	----	0.15	MT-2	> 100.00	> 658.00	6/17/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/21/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/21/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	80.50	> 805.00	6/22/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	78.90	> 789.00	6/22/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/23/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/23/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	> 100.00	>1000.00	6/24/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	68.40	> 684.00	6/29/88
AVS-1603	CPE	NIV	----	< 0.10	MT-2	63.90	> 639.00	6/29/88
AVS-1603	CPE	NIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/15/88
AVS-1603	CPE	NIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/15/88
AVS-1603	CPE	NIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/20/88
AVS-1603	CPE	NIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/20/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTC50	VI	DATE
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/26/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	7/26/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/ 9/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/10/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/12/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/16/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/16/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/23/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/23/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	8/31/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/ 7/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/ 8/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/14/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/22/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/22/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/22/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	9/29/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	10/ 5/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	10/ 6/88
AVS-1603	CPE	HIV	----	< 0.01	MT-2	> 10.00	>1000.00	10/ 6/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/ 1/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	2.07	> 65.90	11/ 1/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/ 9/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/17/88
AVS-1603	CPE	HIV	----	----	MT-2	> 10.00	----	11/19/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/22/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/22/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/30/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	11/30/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	12/ 7/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 308.00	12/ 7/88
AVS-1603	CPE	HIV	----	< 0.03	MT-2	> 10.00	> 316.00	12/ 9/88
AVS-1603	CPE	HIV	----	0.10	MT-2	> 10.00	> 92.80	12/28/88
AVS-1603	CPE	HIV	----	0.17	MT-2	> 10.00	> 58.00	12/28/88
AVS-1645	CPE	HIV	----	51.60	MT-2	> 100.00	> 1.96	5/31/88
AVS-1794	CPE	HIV	----	----	MT-2	7.06	----	5/31/88
AVS-1754	CPE	HIV	----	----	AT4B	100.00	----	1/27/88
AVS-1759	CPE	HIV	----	----	MT-2	> 100.00	----	11/19/88
AVS-1760	CPE	HIV	----	60.80	MT-2	> 100.00	> 1.64	11/19/88
AVS-1760	CPE	HIV	----	----	MT-2	> 100.00	----	11/22/88
AVS-1764	CPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-1764	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-1764	CPE	HIV	----	----	MT-2	20.60	----	11/19/88
AVS-1772	CPE	HIV	----	----	MT-2	48.60	----	11/19/88
AVS-1777	CPE	HIV	----	----	MT-2	< 0.32	----	11/19/88
AVS-1782	CPE	HIV	----	----	MT-2	< 0.32	----	11/19/88
AVS-1784	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-1790	CPE	HIV	0.33	----	AT4B	100.00	----	2/ 3/88
AVS-1790	CPE	HIV	----	----	MT-2	> 100.00	----	4/14/88
AVS-1790	CPE	HIV	----	----	CEN	> 100.00	----	4/26/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	MTCSO	TI	DATE
AVS-1790	CPE	NIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-1790	CPE	NIV	----	0.20	MT-2	> 21.40	103.00	6/22/88
AVS-1790	CPE	NIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-1792	CPE	NIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-1795	CPE	NIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-1795	CPE	NIV	----	29.10	MT-2	> 55.00	1.89	11/ 9/88
AVS-1795	CPE	NIV	----	----	MT-2	> 5.16	----	11/22/88
AVS-1796	CPE	NIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-1801	CPE	NIV	----	54.20	MT-2	> 100.00	> 1.85	5/18/88
AVS-1801	CPE	NIV	----	22.60	MT-2	> 100.00	> 4.42	7/15/88
AVS-1801	CPE	NIV	----	39.40	MT-2	> 100.00	> 2.56	8/16/88
AVS-1811	CPE	NIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-1829	CPE	NIV	----	----	MT-2	> 100.00	----	5/18/88
AVS-1829	CPE	NIV	----	----	MT-2	> 21.00	----	7/15/88
AVS-1835	CPE	NIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-1835	CPE	NIV	----	49.40	MT-2	> 100.00	> 2.03	7/15/88
AVS-1841	CPE	NIV	----	26.30	MT-2	> 100.00	> 5.80	5/31/88
AVS-1843	CPE	NIV	----	43.10	MT-2	> 100.00	> 2.32	5/31/88
AVS-1843	CPE	NIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-1846	CPE	NIV	----	25.50	MT-2	> 100.00	> 3.92	5/31/88
AVS-1850	CPE	NIV	----	31.60	MT-2	> 100.00	> 3.16	5/ 3/88
AVS-1850	CPE	NIV	----	23.80	MT-2	> 100.00	> 4.20	5/31/88
AVS-1899	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1900	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1901	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1902	CPE	NIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-1968	CPE	NIV	----	----	MT-2	> 2.10	----	10/ 5/88
AVS-1970	CPE	NIV	----	----	MT-2	> 21.40	----	10/ 5/88
AVS-1976	CPE	NIV	----	----	MT-2	> 55.00	----	9/14/88
AVS-2145	CPE	NIV	----	----	ATMS	> 100.00	----	2/17/88
AVS-2145	CPE	NIV	----	----	MT-2	> 100.00	----	4/14/88
AVS-2145	CPE	NIV	----	----	CEM	> 100.00	----	4/26/88
AVS-2145	CPE	NIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2146	CPE	NIV	----	----	ATMS	> 100.00	----	1/27/88
AVS-2146	CPE	NIV	----	----	MT-2	> 100.00	----	4/14/88
AVS-2146	CPE	NIV	----	----	CEM	> 0.22	----	4/26/88
AVS-2146	CPE	NIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2274	CPE	NIV	----	----	MT-2	> 58.00	----	4/14/88
AVS-2274	CPE	NIV	----	----	CEM	> 61.10	----	4/26/88
AVS-2274	CPE	NIV	----	----	MT-2	> 61.70	----	5/24/88
AVS-2274	CPE	NIV	----	----	MT-2	> 56.50	----	7/20/88
AVS-2278	CPE	NIV	----	----	MT-2	> 70.40	----	4/14/88
AVS-2278	CPE	NIV	----	----	CEM	> 61.70	----	4/26/88
AVS-2278	CPE	NIV	----	----	MT-2	> 100.00	----	5/24/88
AVS-2280	CPE	FELV	1.24	240.00	B1C	> 320.00	> 1.33	6/10/88
AVS-2285	CPE	NIV	----	----	MT-2	> 100.00	----	5/24/88
AVS-2285	S1	SRV2	----	10.20	PAJ1	> 320.00	> 31.00	6/ 9/88
AVS-2286	CPE	NIV	----	----	MT-2	> 65.20	----	5/24/88
AVS-2291	CPE	FELV	2.16	9.70	B1C	> 100.00	10.20	6/10/88
AVS-2299	CPE	NIV	----	----	MT-2	> 100.00	----	5/24/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VE	TD50	CELL	MTCS0	TI	DATE
AVS-2299	CPE	HIV	----	----	HT-2	83.50	----	11/ 1/88
AVS-2301	CPE	HIV	----	----	HT-2	24.30	----	10/ 5/88
AVS-2311	CPE	HIV	----	----	HT-2	> 100.00	----	12/28/88
AVS-2317	CPE	HIV	----	----	HT-2	15.70	----	12/28/88
AVS-2325	CPE	HIV	----	----	HT-2	> 100.00	----	11/10/88
AVS-2340	CPE	HIV	----	----	ATH8	100.00	----	2/17/88
AVS-2340	CPE	HIV	----	----	HT-2	> 100.00	----	5/24/88
AVS-2340	S1	SRV2	----	320.00	RAJ1	> 320.00	> 1.00	2/26/88
AVS-2353	CPE	HIV	----	< 0.10	HT-2	> 100.00	>1000.00	4/16/88
AVS-2353	PR	RLV1	----	2.02	SC1	> 100.00	> 49.40	1/12/88
AVS-2353	S1	SRV2	----	27.60	RAJ1	> 320.00	> 11.50	3/ 7/88
AVS-2354	CPE	HIV	0.55	----	ATH8	3.20	----	1/30/88
AVS-2358	CPE	HIV	----	----	HT-2	2.24	----	5/24/88
AVS-2358	S1	SRV2	----	3.76	RAJ1	< 100.00	< 26.50	3/10/88
AVS-2359	CPE	HIV	----	----	ATH8	< 0.32	----	2/17/88
AVS-2359	CPE	HIV	----	----	HT-2	0.78	----	5/24/88
AVS-2365	CPE	HIV	----	----	HT-2	> 100.00	----	5/24/88
AVS-2393	CPE	FELV	0.80	----	B1C	10.00	----	5/11/88
AVS-2393	CPE	HIV	----	----	ATH8	> 100.00	----	2/17/88
AVS-2393	CPE	HIV	----	----	HT-2	> 100.00	----	5/24/88
AVS-2393	S1	SRV2	----	20.10	RAJ1	> 320.00	> 15.80	6/ 9/88
AVS-2394	CPE	HIV	----	----	ATH8	3.20	----	2/17/88
AVS-2396	CPE	HIV	----	----	HT-2	> 100.00	----	5/24/88
AVS-2396	CPE	HIV	----	----	HT-2	> 100.00	----	11/10/88
AVS-2397	CPE	FELV	1.75	51.00	B1C	100.00	1.96	5/11/88
AVS-2397	S1	SRV2	----	13.50	RAJ1	> 320.00	> 23.50	5/ 2/88
AVS-2397	S1	SRV2	----	84.50	RAJ1	> 320.00	> 3.78	9/ 6/88
AVS-2406	CPE	HIV	----	----	HT-2	0.20	----	11/10/88
AVS-2407	CPE	HIV	----	----	ATH8	1.30	----	2/17/88
AVS-2407	CPE	HIV	----	----	HT-2	9.72	----	5/24/88
AVS-2408	CPE	HIV	----	----	HT-2	58.30	----	11/10/88
AVS-2422	CPE	HIV	----	----	HT-2	63.80	----	5/23/88
AVS-2432	CPE	HIV	----	----	HT-2	> 100.00	----	12/28/88
AVS-2433	CPE	HIV	----	----	HT-2	> 100.00	----	12/28/88
AVS-2434	CPE	HIV	----	----	HT-2	> 100.00	----	12/28/88
AVS-2435	CPE	HIV	----	----	HT-2	22.60	----	12/28/88
AVS-2443	CPE	HIV	----	----	HT-2	> 100.00	----	12/28/88
AVS-2444	CPE	HIV	----	----	HT-2	> 100.00	----	5/24/88
AVS-2444	CPE	HIV	----	----	HT-2	> 100.00	----	11/10/88
AVS-2444	CPE	HIV	----	----	HT-2	> 100.00	----	11/22/88
AVS-2445	CPE	FELV	1.94	45.90	B1C	32.00	0.70	6/ 3/88
AVS-2445	S1	SRV2	----	4.81	RAJ1	< 100.00	< 20.70	6/ 6/88
AVS-2448	CPE	FELV	1.22	----	B1C	320.00	----	5/11/88
AVS-2448	S1	SRV2	----	149.00	RAJ1	> 320.00	> 2.14	9/ 6/88
AVS-2451	CPE	HIV	----	----	HT-2	17.50	----	12/28/88
AVS-2455	CPE	HIV	----	----	HT-2	1.92	----	5/23/88
AVS-2458	CPE	HIV	----	----	HT-2	5.23	----	12/28/88
AVS-2460	CPE	HIV	----	----	HT-2	63.30	----	11/10/88
AVS-2460	CPE	HIV	----	----	HT-2	> 100.00	----	11/22/88
AVS-2461	CPE	HIV	----	----	HT-2	23.40	----	11/10/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

CONFOUND	PROTOCOL	VIRUS	VR	1050	CELL	MTC50	TI	DATE
AVS-2481	OPE	HIV	----	----	MT-2	> 100.00	----	12/28/88
AVS-2482	OPE	HIV	----	----	MT-2	20.00	----	12/28/88
AVS-2483	OPE	HIV	----	----	MT-2	> 100.00	----	12/28/88
AVS-2488	OPE	HIV	----	----	ATMB	100.00	----	1/27/88
AVS-2488	OPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2499	OPE	HIV	----	----	MT-2	> 100.00	----	12/28/88
AVS-2502	OPE	HIV	----	----	ATMB	> 100.00	----	1/27/88
AVS-2502	OPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2520	OPE	HIV	----	----	MT-2	1.85	----	11/ 9/88
AVS-2525	OPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2527	OPE	HIV	----	----	MT-2	74.20	----	10/ 6/88
AVS-2528	OPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2543	OPE	HIV	----	----	MT-2	19.50	----	11/ 9/88
AVS-2563	OPE	FELV	0.05	----	B1C	3.20	----	2/26/88
AVS-2563	OPE	FELV	0.64	----	B1C	< 3.20	----	3/30/88
AVS-2565	OPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2565	OPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-2567	OPE	HIV	----	----	ATMB	100.00	----	2/17/88
AVS-2567	OPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2569	OPE	HIV	----	----	ATMB	> 100.00	----	1/27/88
AVS-2569	OPE	HIV	----	----	MT-2	> 10.00	----	5/23/88
AVS-2572	OPE	HIV	----	----	ATMB	10.00	----	2/17/88
AVS-2572	OPE	HIV	< 0.01	----	MT-2	> 10.00	>1000.00	5/23/88
AVS-2573	OPE	HIV	----	----	ATMB	32.00	----	2/17/88
AVS-2573	OPE	HIV	< 0.01	----	MT-2	> 10.00	>1000.00	5/23/88
AVS-2574	OPE	FELV	0.67	----	B1C	100.00	----	2/ 4/88
AVS-2574	OPE	FELV	1.34	28.40	B1C	32.00	1.12	6/10/88
AVS-2574	OPE	HIV	1.20	----	ATMB	100.00	----	1/27/88
AVS-2574	OPE	HIV	----	----	MT-2	> 100.00	----	5/23/88
AVS-2574	SI	SPY2	----	14.70	RAJ1	> 320.00	> 21.70	7/ 7/88
AVS-2575	OPE	HIV	< 0.10	----	MT-2	> 100.00	>1000.00	5/23/88
AVS-2576	OPE	HIV	0.60	17.80	ATMB	1.00	0.06	2/ 4/88
AVS-2576	OPE	HIV	< 0.10	----	MT-2	> 100.00	>1000.00	5/23/88
AVS-2578	SI	SPY2	----	0.50	RAJ1	> 320.00	> 634.00	4/ 4/88
AVS-2581	OPE	HIV	----	----	ATMB	10.00	----	2/15/88
AVS-2581	OPE	HIV	< 0.10	----	MT-2	> 100.00	>1000.00	5/23/88
AVS-2582	OPE	HIV	0.60	----	ATMB	> 100.00	----	1/27/88
AVS-2582	OPE	HIV	< 0.10	----	MT-2	> 100.00	>1000.00	5/23/88
AVS-2585	OPE	FELV	1.65	12.00	B1C	32.00	2.65	5/11/88
AVS-2585	OPE	HIV	< 0.10	----	MT-2	> 100.00	>1000.00	5/23/88
AVS-2589	OPE	HIV	----	----	ATMB	3.20	----	1/11/88
AVS-2589	OPE	HIV	----	----	ATMB	10.00	----	2/15/88
AVS-2589	OPE	HIV	----	28.40	MT-2	> 100.00	> 3.52	5/23/88
AVS-2591	OPE	HIV	----	----	ATMB	1.00	----	1/11/88
AVS-2591	OPE	HIV	----	----	ATMB	10.00	----	2/15/88
AVS-2591	OPE	HIV	----	21.80	MT-2	> 100.00	> 4.59	5/23/88
AVS-2600	OPE	HIV	----	----	ATMB	3.20	----	1/11/88
AVS-2600	OPE	HIV	----	----	ATMB	3.20	----	2/15/88
AVS-2600	OPE	HIV	----	37.50	MT-2	> 100.00	> 2.67	5/23/88
AVS-2621	OPE	HIV	----	----	ATMB	10.00	----	1/11/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTCSO	T1	DATE
AVS-2621	CPE	HIV	----	----	ATH8	32.00	----	2/15/88
AVS-2622	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2623	CPE	HIV	----	----	ATH8	32.00	----	1/11/88
AVS-2623	CPE	HIV	----	----	ATH8	100.00	----	1/27/88
AVS-2629	CPE	FELV	0.13	----	81C	10.00	----	5/11/88
AVS-2639	SI	BRV2	----	1.64	RAJI	< 100.00	< 60.00	9/ 6/88
AVS-2639	CPE	FELV	1.52	23.40	81C	100.00	4.26	2/ 4/88
AVS-2639	CPE	FELV	1.65	4.75	81C	> 10.00	> 2.10	2/26/88
AVS-2639	CPE	FELV	2.31	0.77	81C	10.00	14.00	3/30/88
AVS-2639	CPE	FELV	2.10	0.85	81C	3.20	3.73	5/11/88
AVS-2639	CPE	FELV	2.72	0.99	81C	10.00	10.00	6/ 3/88
AVS-2639	CPE	FELV	2.14	0.84	81C	3.20	3.80	6/10/88
AVS-2639	CPE	FELV	2.69	0.59	81C	3.20	5.40	7/22/88
AVS-2639	CPE	HIV	4.55	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-2639	CPE	HIV	4.70	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-2639	CPE	HIV	4.35	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-2639	CPE	HIV	4.55	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-2639	CPE	HIV	4.55	< 0.10	ATH8	32.00	> 320.00	1/11/88
AVS-2639	CPE	HIV	1.20	----	ATH8	3.20	----	1/21/88
AVS-2639	CPE	HIV	5.15	< 0.10	ATH8	32.00	> 320.00	1/27/88
AVS-2639	CPE	HIV	5.80	< 0.10	ATH8	32.00	> 320.00	1/30/88
AVS-2639	CPE	HIV	3.45	< 0.10	ATH8	3.20	> 32.00	2/ 3/88
AVS-2639	CPE	HIV	5.25	< 0.10	ATH8	10.00	> 100.00	2/ 3/88
AVS-2639	CPE	HIV	1.90	0.10	ATH8	3.20	32.00	2/ 4/88
AVS-2639	CPE	HIV	1.90	0.10	ATH8	3.20	32.00	2/ 4/88
AVS-2639	CPE	HIV	6.85	< 0.10	ATH8	100.00	> 1000.00	2/10/88
AVS-2639	CPE	HIV	3.70	< 0.10	ATH8	10.00	> 100.00	2/15/88
AVS-2639	CPE	HIV	3.90	< 0.10	ATH8	10.00	> 100.00	2/17/88
AVS-2639	CPE	HIV	6.15	< 0.10	ATH8	32.00	----	3/ 4/88
AVS-2639	CPE	HIV	6.45	< 0.10	ATH8	32.00	> 320.00	3/18/88
AVS-2639	CPE	HIV	6.35	< 0.10	ATH8	32.00	> 320.00	3/23/88
AVS-2639	CPE	HIV	----	< 0.01	MT-2	5.96	> 596.00	3/23/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	61.30	> 613.00	3/24/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	29.60	> 296.00	3/29/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	31.60	> 316.00	3/29/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	30.60	> 306.00	4/ 1/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	11.90	> 119.00	4/ 4/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	53.40	> 534.00	4/ 4/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	29.40	> 294.00	4/ 4/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	30.30	> 303.00	4/ 9/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	57.70	> 577.00	4/12/88
AVS-2639	CPE	HIV	----	0.12	MT-2	27.70	217.00	4/14/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	23.50	> 235.00	4/15/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	30.60	> 306.00	4/15/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	73.60	> 736.00	4/16/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	67.70	> 677.00	4/16/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	56.70	> 567.00	4/22/88
AVS-2639	CPE	HIV	----	< 0.10	CEH	24.00	> 240.00	4/26/88
AVS-2639	CPE	HIV	----	< 0.10	MT-2	74.70	> 747.00	4/29/88
AVS-2639	CPE	HIV	----	0.63	MT-2	85.80	197.00	5/ 3/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IC50	CELL	NTC50	TI	DATE
AVS-2639	OPE	HIV	----	1.79	MT-2	> 100.00	> 55.90	5/ 9/88
AVS-2639	OPE	HIV	----	1.61	MT-2	16.60	10.30	5/11/88
AVS-2639	OPE	HIV	----	0.75	MT-2	70.70	93.20	5/18/88
AVS-2639	OPE	HIV	----	1.55	MT-2	> 100.00	> 64.60	5/20/88
AVS-2639	OPE	HIV	----	0.23	MT-2	> 10.00	> 43.50	5/23/88
AVS-2639	OPE	HIV	----	0.63	MT-2	> 100.00	> 159.00	5/24/88
AVS-2639	OPE	HIV	----	3.13	MT-2	> 100.00	> 32.00	5/31/88
AVS-2639	OPE	HIV	----	0.78	MT-2	75.80	96.00	5/31/88
AVS-2639	OPE	HIV	----	2.44	MT-2	> 100.00	> 41.00	6/ 1/88
AVS-2639	OPE	HIV	----	3.43	MT-2	96.70	27.60	6/ 1/88
AVS-2639	OPE	HIV	----	2.32	MT-2	97.80	42.10	6/ 3/88
AVS-2639	OPE	HIV	----	4.49	MT-2	> 100.00	> 22.30	6/ 8/88
AVS-2639	OPE	HIV	----	0.48	MT-2	100.00	206.00	6/10/88
AVS-2639	OPE	HIV	----	1.22	MT-2	67.10	54.80	6/10/88
AVS-2639	OPE	HIV	----	0.18	MT-2	93.80	511.00	6/16/88
AVS-2639	OPE	HIV	----	0.34	MT-2	83.90	229.00	6/16/88
AVS-2639	OPE	HIV	----	1.56	MT-2	> 100.00	> 64.00	6/17/88
AVS-2639	OPE	HIV	----	2.73	MT-2	> 100.00	> 36.60	6/21/88
AVS-2639	OPE	HIV	----	0.10	MT-2	70.20	673.00	6/22/88
AVS-2639	OPE	HIV	<	0.10	MT-2	14.00	> 160.00	6/22/88
AVS-2639	OPE	HIV	----	0.43	MT-2	69.50	154.00	6/23/88
AVS-2639	OPE	HIV	<	0.10	MT-2	92.30	> 923.00	6/23/88
AVS-2639	OPE	HIV	<	0.10	MT-2	97.50	> 975.00	6/24/88
AVS-2639	OPE	HIV	----	0.23	MT-2	28.30	121.00	6/29/88
AVS-2639	OPE	HIV	----	0.24	MT-2	9.84	40.30	6/29/88
AVS-2639	OPE	HIV	----	0.22	MT-2	> 10.00	> 44.00	7/15/88
AVS-2639	OPE	HIV	----	0.06	MT-2	> 10.00	> 162.00	7/15/88
AVS-2639	OPE	HIV	----	0.07	MT-2	> 10.00	> 135.00	7/20/88
AVS-2639	OPE	HIV	----	0.15	MT-2	> 10.00	> 65.10	7/20/88
AVS-2639	OPE	HIV	----	0.07	MT-2	> 10.00	> 141.00	7/26/88
AVS-2639	OPE	HIV	----	0.05	MT-2	> 10.00	> 190.00	7/26/88
AVS-2639	OPE	HIV	----	0.06	MT-2	> 10.00	> 229.00	8/ 9/88
AVS-2639	OPE	HIV	----	0.07	MT-2	> 10.00	> 130.00	8/10/88
AVS-2639	OPE	HIV	----	0.11	MT-2	> 10.00	> 84.70	8/12/88
AVS-2639	OPE	HIV	----	0.12	MT-2	> 10.00	> 81.80	8/16/88
AVS-2639	OPE	HIV	----	0.11	MT-2	> 10.00	> 85.00	8/16/88
AVS-2639	OPE	HIV	----	0.03	MT-2	> 10.00	> 295.00	8/23/88
AVS-2639	OPE	HIV	----	0.05	MT-2	> 10.00	> 141.00	8/23/88
AVS-2639	OPE	HIV	----	0.09	MT-2	0.91	9.96	8/31/88
AVS-2639	OPE	HIV	----	0.14	MT-2	> 10.00	> 70.90	9/ 7/88
AVS-2639	OPE	HIV	----	0.50	MT-2	10.00	19.90	9/ 8/88
AVS-2639	OPE	HIV	----	0.30	MT-2	> 10.00	> 32.80	9/14/88
AVS-2639	OPE	HIV	----	0.03	MT-2	> 10.00	> 264.00	9/22/88
AVS-2639	OPE	HIV	----	0.04	MT-2	> 10.00	> 206.00	9/22/88
AVS-2639	OPE	HIV	----	0.08	MT-2	> 10.00	> 117.00	9/23/88
AVS-2639	OPE	HIV	----	0.11	MT-2	> 10.00	> 83.10	9/29/88
AVS-2639	OPE	HIV	----	0.09	MT-2	8.05	85.10	10/ 5/88
AVS-2639	OPE	HIV	----	0.29	MT-2	> 10.00	> 33.80	10/ 6/88
AVS-2639	OPE	HIV	----	0.14	MT-2	> 10.00	> 67.80	10/ 6/88
AVS-2639	OPE	HIV	----	0.18	MT-2	> 10.00	> 55.50	11/ 1/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	ID50	CELL	MTCSO	TI	DATE
AVS-2639	CPE	HIV	----	0.09	MT-2	6.18	63.60	11/ 1/88
AVS-2639	CPE	HIV	----	0.18	MT-2	> 10.00	> 53.30	11/ 9/88
AVS-2639	CPE	HIV	----	0.14	MT-2	> 10.00	> 67.70	11/17/88
AVS-2639	CPE	HIV	----	----	MT-2	> 10.00	----	11/19/88
AVS-2639	CPE	HIV	----	0.10	MT-2	> 10.00	> 97.90	11/22/88
AVS-2639	CPE	HIV	----	0.62	MT-2	> 10.00	> 16.10	11/22/88
AVS-2639	CPE	HIV	----	0.17	MT-2	> 10.00	> 57.70	11/30/88
AVS-2639	CPE	HIV	----	0.21	MT-2	> 10.00	> 46.90	11/30/88
AVS-2639	CPE	HIV	----	0.36	MT-2	8.92	29.40	12/ 7/88
AVS-2639	CPE	HIV	----	0.19	MT-2	9.62	48.00	12/ 7/88
AVS-2639	CPE	HIV	----	0.39	MT-2	> 10.00	> 25.50	12/ 9/88
AVS-2639	CPE	HIV	----	0.76	MT-2	> 10.00	> 13.10	12/28/88
AVS-2639	CPE	HIV	----	0.85	MT-2	> 10.00	> 11.70	12/28/88
AVS-2639	PR	MLV1	----	1.01	SC1	> 10.00	> 9.89	1/12/88
AVS-2639	S1	SRV2	----	0.05	RAJ1	> 10.00	> 180.00	2/26/88
AVS-2639	S1	SRV2	----	0.16	RAJ1	> 10.00	> 59.60	3/ 7/88
AVS-2639	S1	SRV2	----	3.38	RAJ1	> 10.00	> 2.95	3/10/88
AVS-2639	S1	SRV2	----	0.02	RAJ1	> 10.00	> 446.00	4/ 4/88
AVS-2639	S1	SRV2	----	1.65	RAJ1	> 10.00	> 6.05	5/ 2/88
AVS-2639	S1	SRV2	----	0.05	RAJ1	> 10.00	> 167.00	6/ 2/88
AVS-2639	S1	SRV2	----	0.35	RAJ1	> 10.00	> 26.10	6/ 6/88
AVS-2639	S1	SRV2	----	0.25	RAJ1	> 10.00	> 38.70	6/ 9/88
AVS-2639	S1	SRV2	----	0.34	RAJ1	> 10.00	> 28.90	7/ 7/88
AVS-2639	S1	SRV2	----	5.30	RAJ1	> 10.00	> 1.88	9/ 6/88
AVS-2642	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2643	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2645	CPE	HIV	----	----	MT-2	> 100.00	----	12/28/88
AVS-2647	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2648	CPE	HIV	----	----	MT-2	> 100.00	----	5/24/88
AVS-2648	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2657	CPE	FELV	1.44	16.90	B1C	< 100.00	< 5.89	6/10/88
AVS-2657	CPE	HIV	----	0.72	MT-2	> 100.00	> 138.00	5/24/88
AVS-2657	S1	SRV2	----	14.90	RAJ1	> 320.00	> 21.60	6/ 2/88
AVS-2660	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2661	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2662	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2663	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2665	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2666	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-2667	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2669	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-2670	CPE	HIV	----	----	MT-2	> 100.00	----	12/28/88
AVS-2673	CPE	HIV	----	----	MT-2	2.46	----	11/10/88
AVS-2708	CPE	FELV	4.69	1.28	B1C	100.00	77.80	7/22/88
AVS-2708	CPE	HIV	----	14.20	MT-2	> 100.00	> 7.07	5/24/88
AVS-2708	S1	SRV2	----	10.00	RAJ1	> 320.00	> 32.00	9/ 6/88
AVS-2748	CPE	FELV	0.22	----	B1C	0.32	----	2/ 4/88
AVS-2748	CPE	HIV	0.30	----	AT48	< 1.00	----	1/11/88
AVS-2748	CPE	HIV	----	----	AT48	< 0.32	----	2/15/88
AVS-2748	CPE	HIV	----	----	MT-2	0.92	----	5/24/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	NT-50	TI	DATE
AVS-2748	CPE	NIV	----	----	NT-2	0.57	----	7/20/88
AVS-2749	CPE	NIV	----	----	NT-2 >	100.00	----	5/24/88
AVS-2749	CPE	NIV	----	----	NT-2 >	100.00	----	7/20/88
AVS-2752	CPE	NIV	----	----	NT-2 >	100.00	----	11/10/88
AVS-2753	CPE	NIV	----	----	NT-2 >	100.00	----	11/10/88
AVS-2760	CPE	NIV	----	----	ATMB	10.00	----	1/11/88
AVS-2760	CPE	NIV	----	----	ATMB	32.00	----	2/15/88
AVS-2760	CPE	NIV	----	53.80	NT-2 >	100.00	1.86	5/24/88
AVS-2760	CPE	NIV	----	----	NT-2 >	100.00	----	7/20/88
AVS-2811	CPE	NIV	----	----	ATMB <	0.10	----	3/18/88
AVS-2811	CPE	NIV	----	----	ATMB <	0.10	----	3/23/88
AVS-2811	CPE	NIV	----	----	NT-2 <	0.10	----	5/ 3/88
AVS-2811	CPE	NIV	----	----	NT-2 <	0.62	----	8/10/88
AVS-2811	CPE	NIV	----	----	NT-2 <	0.10	----	9/22/88
AVS-2812	CPE	FELV	0.05	----	81C <	3.20	----	2/26/88
AVS-2812	CPE	FELV	0.60	----	81C <	0.01	----	3/30/88
AVS-2812	CPE	NIV	----	----	ATMB <	0.10	----	3/18/88
AVS-2812	CPE	NIV	----	----	ATMB <	0.10	----	3/23/88
AVS-2812	CPE	NIV	----	----	NT-2 <	0.10	----	5/31/88
AVS-2867	CPE	NIV	----	----	ATMB	1.00	----	1/27/88
AVS-2867	CPE	NIV	----	----	NT-2	4.48	----	5/24/88
AVS-2882	CPE	NIV	----	----	NT-2 >	100.00	----	12/28/88
AVS-2893	CPE	NIV	----	----	NT-2	66.90	----	12/28/88
AVS-2904	CPE	NIV	----	----	NT-2 >	100.00	----	10/ 6/88
AVS-2905	CPE	NIV	----	----	NT-2	58.80	----	10/ 6/88
AVS-2908	CPE	NIV	----	----	NT-2	82.60	----	11/10/88
AVS-2911	CPE	NIV	----	----	ATMB	100.00	----	2/15/88
AVS-2920	CPE	NIV	----	----	NT-2 >	100.00	----	5/ 3/88
AVS-2920	CPE	NIV	----	3.90	NT-2 >	100.00	25.50	7/15/88
AVS-2920	CPE	NIV	----	----	NT-2 >	100.00	----	8/16/88
AVS-2920	CPE	NIV	----	----	NT-2 >	100.00	----	10/ 5/88
AVS-2921	CPE	NIV	----	33.90	NT-2 >	100.00	2.95	5/ 9/88
AVS-2921	CPE	NIV	----	0.60	NT-2 >	100.00	269.60	7/15/88
AVS-2922	CPE	NIV	----	51.68	NT-2 >	100.00	1.95	5/ 3/88
AVS-2922	CPE	NIV	----	16.60	NT-2 >	100.00	5.98	7/15/88
AVS-2923	CPE	NIV	----	----	NT-2 >	100.00	----	5/ 9/88
AVS-2923	CPE	NIV	----	----	NT-2 >	100.00	----	7/15/88
AVS-2924	CPE	NIV	----	----	NT-2 >	100.00	----	5/ 3/88
AVS-2924	CPE	NIV	----	----	NT-2 >	100.00	----	7/15/88
AVS-2925	CPE	NIV	----	----	NT-2 >	100.00	----	5/ 3/88
AVS-2925	CPE	NIV	----	----	NT-2 >	100.00	----	7/15/88
AVS-2955	CPE	NIV	3.95	< 0.10	ATMB	3.20	32.00	1/11/88
AVS-2955	CPE	NIV	4.05	< 0.10	ATMB	10.00	> 100.00	2/15/88
AVS-2955	CPE	NIV	----	< 0.10	NT-2 >	100.00	> 1000.00	5/24/88
AVS-2965	CPE	NIV	----	----	NT-2	59.00	----	11/10/88
AVS-2967	CPE	NIV	----	----	NT-2	58.70	----	12/28/88
AVS-2969	CPE	NIV	----	----	NT-2	0.71	----	11/10/88
AVS-2971	CPE	NIV	----	----	NT-2	21.00	----	11/10/88
AVS-2973	CPE	NIV	----	----	NT-2	59.60	----	12/28/88
AVS-2976	CPE	NIV	----	55.60	NT-2	100.00	1.81	10/ 6/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	YR	TD50	CELL	HTC50	TI	DATE
AVS-2980	QPE	FELV	0.40	----	81C <	1.00	----	2/ 4/88
AVS-2991	QPE	HIV	0.45	----	ATMB	0.32	----	1/21/88
AVS-2991	QPE	HIV	----	----	ATMB <	0.10	----	1/30/88
AVS-2992	QPE	HIV	0.40	----	ATMB	100.00	----	1/21/88
AVS-2992	QPE	HIV	1.60	1.88	ATMB	32.00	3.29	1/30/88
AVS-2992	QPE	HIV	----	----	HT-2	84.00	----	11/18/88
AVS-2993	QPE	HIV	----	----	ATMB >	100.00	----	1/30/88
AVS-2994	QPE	HIV	1.40	11.20	ATMB <	100.00	8.88	1/21/88
AVS-2994	QPE	HIV	0.35	----	ATMB	32.00	----	1/30/88
AVS-2994	QPE	HIV	----	----	ATMB	3.28	----	2/ 4/88
AVS-2995	QPE	HIV	----	----	ATMB	10.00	----	1/21/88
AVS-2995	QPE	HIV	0.50	----	ATMB	100.00	----	2/ 3/88
AVS-2996	QPE	HIV	1.60	3.98	ATMB	10.00	2.50	1/21/88
AVS-2996	QPE	HIV	0.10	----	ATMB <	100.00	----	1/30/88
AVS-2996	QPE	HIV	1.30	3.20	ATMB	10.00	3.13	2/ 4/88
AVS-2996	SI	SRV2	----	3.88	RAJ1 >	320.00	82.20	6/ 2/88
AVS-3245	QPE	HIV	----	----	HT-2	0.21	----	6/10/88
AVS-3246	QPE	HIV	----	----	ATMB	10.00	----	2/15/88
AVS-3247	QPE	HIV	----	----	ATMB	10.00	----	2/10/88
AVS-3247	QPE	HIV	----	----	HT-2	51.40	----	4/ 8/88
AVS-3248	QPE	HIV	----	----	HT-2	21.90	----	4/ 8/88
AVS-3249	QPE	HIV	----	----	HT-2	100.00	----	10/ 6/88
AVS-3250	QPE	HIV	----	----	HT-2	52.60	----	4/ 8/88
AVS-3251	QPE	HIV	----	----	HT-2	75.90	----	4/ 8/88
AVS-3252	QPE	HIV	----	----	HT-2	61.00	----	4/12/88
AVS-3253	QPE	HIV	----	----	HT-2	67.90	----	4/12/88
AVS-3254	QPE	HIV	----	----	HT-2	23.00	----	4/12/88
AVS-3255	QPE	HIV	----	----	HT-2	57.50	----	4/12/88
AVS-3256	QPE	HIV	----	----	HT-2	66.20	----	4/12/88
AVS-3257	QPE	HIV	----	----	HT-2	25.40	----	4/12/88
AVS-3258	QPE	HIV	----	0.83	HT-2	48.00	57.60	4/12/88
AVS-3259	QPE	HIV	----	----	HT-2	66.10	----	4/12/88
AVS-3260	QPE	HIV	----	6.50	HT-2	63.60	9.76	4/12/88
AVS-3261	QPE	HIV	----	----	HT-2	60.00	----	4/12/88
AVS-3262	QPE	HIV	----	----	HT-2	34.30	----	4/12/88
AVS-3263	QPE	HIV	----	----	HT-2	21.80	----	7/15/88
AVS-3264	QPE	HIV	----	----	HT-2	2.22	----	7/15/88
AVS-3265	QPE	HIV	----	----	HT-2	48.00	----	7/15/88
AVS-3266	QPE	HIV	----	----	HT-2	21.90	----	7/15/88
AVS-3267	QPE	HIV	----	----	HT-2	69.50	----	7/15/88
AVS-3268	QPE	HIV	----	7.40	HT-2	52.70	7.04	7/15/88
AVS-3269	QPE	HIV	----	----	HT-2	27.00	----	7/15/88
AVS-3270	QPE	HIV	----	----	HT-2	49.40	----	7/15/88
AVS-3271	QPE	HIV	----	----	HT-2	48.20	----	9/22/88
AVS-3271	QPE	HIV	----	----	HT-2	73.70	----	7/15/88
AVS-3272	QPE	HIV	----	----	HT-2	73.80	----	7/15/88
AVS-3273	QPE	HIV	----	----	HT-2	7.97	----	4/16/88
AVS-3274	QPE	HIV	----	----	HT-2	45.80	----	4/16/88
AVS-3275	QPE	HIV	----	----	HT-2	22.90	----	4/16/88
AVS-3276	QPE	HIV	----	----	HT-2	23.40	----	4/16/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTC50	TI	DATE
AVS-3277	09E	HIV	----	----	HT-2	6.69	----	4/16/88
AVS-3278	09E	HIV	----	8.70	HT-2	60.20	6.87	4/16/88
AVS-3280	09E	HIV	----	----	HT-2	65.90	----	4/16/88
AVS-3282	09E	HIV	----	----	HT-2	66.20	----	4/16/88
AVS-3284	09E	HIV	----	0.10	HT-2	19.66	> 196.00	4/16/88
AVS-3286	09E	HIV	----	----	HT-2	45.66	----	4/29/88
AVS-3287	09E	HIV	----	----	HT-2	12.46	----	4/29/88
AVS-3290	09E	HIV	----	----	HT-2	23.80	----	4/29/88
AVS-3292	09E	HIV	----	----	HT-2	6.18	----	4/29/88
AVS-3293	09E	HIV	----	----	HT-2	22.60	----	4/29/88
AVS-3294	09E	HIV	----	----	HT-2	9.43	----	4/29/88
AVS-3295	09E	HIV	----	----	HT-2	4.94	----	4/29/88
AVS-3296	09E	HIV	----	----	HT-2	22.90	----	4/29/88
AVS-3297	09E	HIV	----	----	HT-2	22.30	----	4/29/88
AVS-3298	09E	HIV	----	----	HT-2	9.22	----	4/29/88
AVS-3299	09E	HIV	----	----	HT-2	> 100.00	----	4/29/88
AVS-3299	09E	HIV	----	----	HT-2	> 100.00	----	7/15/88
AVS-3300	09E	HIV	----	----	HT-2	41.00	----	5/11/88
AVS-3300	09E	HIV	----	----	HT-2	> 100.00	----	7/15/88
AVS-3301	09E	HIV	----	----	HT-2	21.10	----	5/11/88
AVS-3301	09E	HIV	----	23.30	HT-2	66.40	2.85	7/15/88
AVS-3301	09E	HIV	----	----	HT-2	21.60	----	8/12/88
AVS-3303	09E	HIV	----	----	ATMS	100.00	----	3/ 4/88
AVS-3304	09E	HIV	----	----	ATMS	32.00	----	3/ 4/88
AVS-3305	09E	HIV	----	----	ATMS	> 100.00	----	3/ 4/88
AVS-3306	09E	HIV	----	----	ATMS	3.20	----	3/ 4/88
AVS-3307	09E	HIV	----	----	ATMS	< 100.00	----	3/ 4/88
AVS-3308	09E	HIV	----	----	ATMS	< 32.00	----	3/ 4/88
AVS-3309	09E	HIV	----	----	ATMS	3.20	----	3/ 4/88
AVS-3310	09E	HIV	----	----	ATMS	32.00	----	3/ 4/88
AVS-3311	09E	HIV	----	----	ATMS	32.00	----	3/ 4/88
AVS-3312	09E	HIV	----	----	ATMS	10.00	----	3/ 4/88
AVS-3314	09E	HIV	----	----	ATMS	1.00	> 320.00	3/ 4/88
AVS-3315	09E	HIV	----	----	HT-2	7.64	----	5/11/88
AVS-3315	09E	HIV	----	----	HT-2	8.18	----	7/15/88
AVS-3317	09E	HIV	----	----	HT-2	22.70	----	5/11/88
AVS-3317	09E	HIV	----	----	HT-2	48.46	----	7/15/88
AVS-3318	09E	HIV	----	----	HT-2	73.20	----	5/11/88
AVS-3318	09E	HIV	----	19.20	HT-2	100.00	5.27	7/15/88
AVS-3320	09E	HIV	----	----	HT-2	47.50	----	5/11/88
AVS-3320	09E	HIV	----	----	HT-2	78.40	----	7/15/88
AVS-3321	09E	HIV	----	----	HT-2	> 100.00	----	5/11/88
AVS-3321	09E	HIV	----	----	HT-2	48.40	----	7/15/88
AVS-3322	09E	HIV	----	----	HT-2	5.34	----	5/11/88
AVS-3322	09E	HIV	----	19.20	HT-2	100.00	5.27	7/15/88
AVS-3324	09E	HIV	----	----	HT-2	15.40	----	5/11/88
AVS-3324	09E	HIV	----	----	HT-2	78.46	----	7/15/88
AVS-3325	09E	HIV	----	----	HT-2	20.40	----	5/11/88
AVS-3325	09E	HIV	----	----	HT-2	21.00	----	7/15/88
AVS-3326	09E	HIV	----	----	HT-2	5.31	----	5/11/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IDSC	CELL	NTCSO	TI	DATE
AVS-332A	CPE	HIV	----	----	MT-2	7.84	----	7/15/88
AVS-3327	CPE	HIV	----	----	MT-2	57.30	----	5/11/88
AVS-3327	CPE	HIV	----	----	MT-2	58.80	----	7/15/88
AVS-3328	CPE	HIV	----	----	MT-2	> 100.00	----	5/11/88
AVS-3328	CPE	HIV	----	----	MT-2	> 100.00	----	7/15/88
AVS-3330	CPE	HIV	----	----	MT-2	> 100.00	----	5/11/88
AVS-3330	CPE	HIV	----	----	MT-2	> 100.00	----	7/15/88
AVS-3331	CPE	HIV	----	----	MT-2	49.40	----	5/11/88
AVS-3331	CPE	HIV	----	----	MT-2	68.10	----	7/15/88
AVS-3332	CPE	HIV	----	64.20	MT-2	> 100.00	> 1.53	4/29/88
AVS-3333	CPE	HIV	----	----	MT-2	15.50	----	5/11/88
AVS-3333	CPE	HIV	----	----	MT-2	3.94	----	7/15/88
AVS-3335	CPE	HIV	----	----	MT-2	6.80	----	4/29/88
AVS-3335	CPE	HIV	----	----	MT-2	6.59	----	7/15/88
AVS-3336	CPE	HIV	----	13.30	MT-2	> 100.00	> 7.51	4/29/88
AVS-3336	CPE	HIV	----	----	MT-2	95.20	----	7/15/88
AVS-3337	CPE	HIV	----	----	MT-2	0.24	----	4/29/88
AVS-3338	CPE	HIV	----	----	MT-2	31.70	----	4/29/88
AVS-3339	CPE	HIV	----	----	MT-2	22.60	----	4/29/88
AVS-3340	CPE	HIV	----	----	MT-2	6.38	----	4/29/88
AVS-3341	CPE	HIV	----	----	MT-2	> 100.00	----	4/16/88
AVS-3342	CPE	HIV	----	----	MT-2	< 0.10	----	4/16/88
AVS-3343	CPE	HIV	----	----	MT-2	7.36	----	4/16/88
AVS-3344	CPE	HIV	----	----	MT-2	25.50	----	4/ 1/88
AVS-3344	CPE	HIV	----	7.30	MT-2	56.20	7.65	4/16/88
AVS-3345	CPE	HIV	<	0.10	MT-2	6.99	> 60.90	4/ 1/88
AVS-3345	CPE	HIV	----	----	MT-2	6.88	----	4/16/88
AVS-3346	CPE	HIV	----	----	MT-2	6.99	----	4/ 1/88
AVS-3346	CPE	HIV	----	----	MT-2	8.89	----	4/16/88
AVS-3347	CPE	HIV	----	0.13	MT-2	19.20	146.00	4/ 1/88
AVS-3347	CPE	HIV	----	----	MT-2	21.10	----	4/16/88
AVS-3348	CPE	HIV	----	----	MT-2	0.97	----	10/ 6/88
AVS-3349	CPE	HIV	----	----	MT-2	0.91	----	10/ 6/88
AVS-3350	CPE	HIV	----	----	MT-2	7.38	----	12/28/88
AVS-3351	CPE	HIV	----	----	MT-2	29.70	----	10/ 6/88
AVS-3352	CPE	HIV	----	----	MT-2	6.98	----	12/28/88
AVS-3353	CPE	HIV	----	----	MT-2	4.81	----	4/ 1/88
AVS-3353	CPE	HIV	----	----	MT-2	3.41	----	4/16/88
AVS-3354	CPE	HIV	<	0.10	MT-2	9.38	> 93.80	4/ 1/88
AVS-3354	CPE	HIV	----	----	MT-2	21.60	----	4/16/88
AVS-3355	CPE	HIV	----	----	MT-2	24.00	----	10/ 6/88
AVS-3356	CPE	HIV	----	----	MT-2	21.10	----	4/ 6/88
AVS-3357	CPE	HIV	----	----	MT-2	7.02	----	4/ 6/88
AVS-3358	CPE	HIV	----	----	MT-2	24.00	----	10/ 6/88
AVS-3359	CPE	HIV	----	----	MT-2	22.00	----	4/ 6/88
AVS-3360	CPE	HIV	----	----	MT-2	2.67	----	4/ 6/88
AVS-3361	CPE	HIV	----	0.82	MT-2	25.20	30.60	4/ 6/88
AVS-3362	CPE	HIV	----	4.80	MT-2	> 100.00	> 20.70	4/ 6/88
AVS-3363	CPE	HIV	----	----	MT-2	21.00	----	4/ 6/88
AVS-3364	CPE	HIV	----	----	MT-2	7.24	----	4/ 6/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IC50	CELL	MT50	TI	DATE
AVS-3365	CPE	HIV	----	----	MT-2	21.00	----	4/ 6/88
AVS-3366	CPE	HIV	----	----	MT-2	21.00	----	4/ 6/88
AVS-3367	CPE	HIV	----	----	MT-2	0.46	----	4/ 6/88
AVS-3368	CPE	HIV	----	----	MT-2	21.00	----	4/22/88
AVS-3369	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3370	CPE	HIV	----	----	MT-2	0.84	----	4/22/88
AVS-3371	CPE	HIV	----	----	MT-2	21.10	----	4/22/88
AVS-3372	CPE	HIV	----	----	MT-2	14.70	----	4/22/88
AVS-3373	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3374	CPE	HIV	----	6.30	MT-2	> 100.00	> 15.50	4/22/88
AVS-3375	CPE	HIV	----	----	MT-2	0.96	----	4/22/88
AVS-3376	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3377	CPE	HIV	----	11.30	MT-2	70.00	6.20	4/22/88
AVS-3378	CPE	HIV	----	1.82	MT-2	22.20	12.20	4/22/88
AVS-3379	CPE	HIV	----	----	MT-2	20.60	----	4/15/88
AVS-3380	CPE	HIV	----	----	MT-2	> 100.00	----	4/15/88
AVS-3381	CPE	HIV	----	----	MT-2	21.30	----	4/22/88
AVS-3382	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3383	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3384	CPE	HIV	----	----	MT-2	24.60	----	12/28/88
AVS-3385	CPE	HIV	----	4.97	MT-2	> 100.00	> 20.10	12/28/88
AVS-3386	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3386	CPE	HIV	----	----	MT-2	> 100.00	----	7/15/88
AVS-3387	CPE	HIV	----	2.15	MT-2	26.40	12.30	4/22/88
AVS-3387	CPE	HIV	----	----	MT-2	54.00	----	7/15/88
AVS-3388	CPE	HIV	----	----	MT-2	21.10	----	4/22/88
AVS-3388	CPE	HIV	----	----	MT-2	21.00	----	7/15/88
AVS-3389	CPE	HIV	----	----	MT-2	57.40	----	4/22/88
AVS-3390	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 8/88
AVS-3390	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3391	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 8/88
AVS-3391	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3391	CPE	HIV	----	----	MT-2	< 0.10	----	4/29/88
AVS-3392	CPE	HIV	----	46.60	MT-2	> 100.00	> 2.14	4/ 8/88
AVS-3392	CPE	HIV	----	33.50	MT-2	> 100.00	> 2.97	4/22/88
AVS-3393	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3393	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-3394	CPE	HIV	----	----	MT-2	> 100.00	----	4/22/88
AVS-3394	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-3395	CPE	HIV	----	----	MT-2	6.84	----	3/23/88
AVS-3396	CPE	HIV	----	----	MT-2	> 10.00	----	3/23/88
AVS-3397	CPE	HIV	----	1.01	MT-2	> 100.00	> 99.10	3/23/88
AVS-3398	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3399	CPE	HIV	----	----	MT-2	80.00	----	3/23/88
AVS-3400	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3401	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3402	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3403	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3404	CPE	HIV	----	----	MT-2	> 100.00	----	3/23/88
AVS-3405	CPE	HIV	----	----	MT-2	2.60	----	3/23/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTC50	TI	DATE
AVS-3408	OPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3409	OPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3410	OPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3411	OPE	HIV	----	----	MT-2	6.21	----	3/24/88
AVS-3412	OPE	HIV	----	----	MT-2	2.38	----	3/24/88
AVS-3413	OPE	HIV	----	75.50	MT-2	> 100.00	> 1.32	3/24/88
AVS-3414	OPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3415	OPE	HIV	----	----	MT-2	47.30	----	3/24/88
AVS-3416	OPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3417	OPE	HIV	----	----	MT-2	6.50	----	3/24/88
AVS-3418	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3418	OPE	HIV	----	----	MT-2	> 100.00	----	7/15/88
AVS-3419	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3419	OPE	HIV	----	86.60	MT-2	> 100.00	> 1.14	7/15/88
AVS-3420	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3420	OPE	HIV	----	----	MT-2	> 100.00	----	7/15/88
AVS-3421	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3421	OPE	HIV	----	----	MT-2	> 100.00	----	8/10/88
AVS-3422	OPE	HIV	----	----	MT-2	0.17	----	5/ 3/88
AVS-3423	OPE	HIV	----	----	MT-2	32.00	----	5/ 3/88
AVS-3424	OPE	HIV	----	----	MT-2	25.50	----	5/ 3/88
AVS-3425	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3425	OPE	HIV	----	----	MT-2	> 100.00	----	8/10/88
AVS-3425	OPE	HIV	----	----	MT-2	> 100.00	----	8/31/88
AVS-3426	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3426	OPE	HIV	----	24.20	MT-2	> 100.00	> 4.12	8/10/88
AVS-3426	OPE	HIV	----	----	MT-2	> 100.00	----	8/31/88
AVS-3427	OPE	HIV	----	----	MT-2	21.00	----	5/ 3/88
AVS-3427	OPE	HIV	----	----	MT-2	21.10	----	8/10/88
AVS-3427	OPE	HIV	----	25.90	MT-2	57.40	2.21	9/29/88
AVS-3428	OPE	HIV	----	----	MT-2	20.40	----	5/ 3/88
AVS-3429	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 3/88
AVS-3430	OPE	HIV	----	----	MT-2	82.00	----	5/ 3/88
AVS-3431	OPE	HIV	----	----	MT-2	67.50	----	5/ 3/88
AVS-3431	OPE	HIV	----	----	MT-2	61.10	----	8/10/88
AVS-3431	OPE	HIV	----	----	MT-2	62.20	----	8/31/88
AVS-3432	OPE	HIV	----	----	MT-2	7.61	----	5/ 3/88
AVS-3432	OPE	HIV	----	1.57	MT-2	7.75	4.94	8/10/88
AVS-3432	OPE	HIV	----	----	MT-2	8.67	----	8/31/88
AVS-3433	OPE	HIV	----	----	MT-2	58.30	----	5/ 3/88
AVS-3433	OPE	HIV	----	17.50	MT-2	> 100.00	> 5.71	8/10/88
AVS-3433	OPE	HIV	----	----	MT-2	> 100.00	----	8/31/88
AVS-3434	OPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-3434	OPE	HIV	----	----	MT-2	> 100.00	----	8/10/88
AVS-3435	OPE	HIV	----	----	MT-2	65.90	----	5/ 9/88
AVS-3435	OPE	HIV	----	33.50	MT-2	> 100.00	> 2.99	8/10/88
AVS-3435	OPE	HIV	----	----	MT-2	57.70	----	9/22/88
AVS-3436	OPE	HIV	----	2.71	MT-2	21.00	7.74	5/ 9/88
AVS-3436	OPE	HIV	----	4.71	MT-2	21.00	4.46	8/10/88
AVS-3436	OPE	HIV	----	----	MT-2	20.10	----	9/22/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	YR	IS50	CELL	MTCS0	TI	DATE
AVS-3437	CPE	HIV	----	----	MT-2	0.07	----	5/ 9/88
AVS-3437	CPE	HIV	----	0.33	MT-2	8.95	26.80	8/10/88
AVS-3437	CPE	HIV	----	----	MT-2	11.90	----	9/22/88
AVS-3438	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-3438	CPE	HIV	----	6.40	MT-2	> 100.00	> 15.50	8/10/88
AVS-3438	CPE	HIV	----	----	MT-2	69.20	----	9/22/88
AVS-3439	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-3439	CPE	HIV	----	5.40	MT-2	> 100.00	> 18.50	8/10/88
AVS-3439	CPE	HIV	----	----	MT-2	> 100.00	----	9/22/88
AVS-3440	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-3440	CPE	HIV	----	5.80	MT-2	> 100.00	> 17.00	8/10/88
AVS-3440	CPE	HIV	----	----	MT-2	> 100.00	----	9/22/88
AVS-3441	CPE	HIV	----	----	MT-2	> 100.00	----	5/ 9/88
AVS-3441	CPE	HIV	----	----	MT-2	> 100.00	----	8/10/88
AVS-3442	CPE	HIV	----	----	MT-2	29.80	----	5/ 9/88
AVS-3442	CPE	HIV	----	----	MT-2	20.30	----	8/10/88
AVS-3442	CPE	HIV	----	----	MT-2	58.50	----	9/22/88
AVS-3443	CPE	HIV	----	49.80	MT-2	> 100.00	> 2.01	5/ 9/88
AVS-3443	CPE	HIV	----	1.07	MT-2	59.00	55.30	8/10/88
AVS-3443	CPE	HIV	----	25.50	MT-2	60.20	2.35	9/22/88
AVS-3444	CPE	HIV	----	----	MT-2	69.40	----	5/ 9/88
AVS-3444	CPE	HIV	----	5.30	MT-2	52.40	9.85	8/10/88
AVS-3444	CPE	HIV	----	----	MT-2	61.20	----	9/22/88
AVS-3445	CPE	HIV	----	----	MT-2	6.59	----	5/ 9/88
AVS-3445	CPE	HIV	----	2.44	MT-2	7.15	2.93	8/10/88
AVS-3445	CPE	HIV	----	----	MT-2	7.21	----	8/31/88
AVS-3446	CPE	HIV	----	----	MT-2	7.84	----	10/ 6/88
AVS-3447	CPE	HIV	----	----	MT-2	> 100.00	----	5/11/88
AVS-3447	CPE	HIV	----	29.30	MT-2	> 100.00	> 3.41	7/20/88
AVS-3447	CPE	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-3448	CPE	HIV	----	----	MT-2	65.90	----	5/11/88
AVS-3448	CPE	HIV	----	----	MT-2	> 100.00	----	7/20/88
AVS-3449	CPE	HIV	----	----	MT-2	67.80	----	5/11/88
AVS-3449	CPE	HIV	----	----	MT-2	28.20	----	7/20/88
AVS-3450	CPE	HIV	----	----	MT-2	6.68	----	10/ 6/88
AVS-3451	CPE	HIV	----	----	MT-2	> 100.00	----	5/11/88
AVS-3451	CPE	HIV	----	----	MT-2	> 100.00	----	7/20/88
AVS-3452	CPE	HIV	----	----	MT-2	74.70	----	5/11/88
AVS-3452	CPE	HIV	----	----	MT-2	> 100.00	----	7/20/88
AVS-3453	CPE	HIV	----	----	MT-2	9.55	----	5/31/88
AVS-3454	CPE	HIV	----	----	MT-2	25.50	----	5/31/88
AVS-3455	CPE	HIV	----	----	MT-2	14.80	----	6/ 1/88
AVS-3456	CPE	HIV	----	----	MT-2	7.28	----	5/31/88
AVS-3457	CPE	HIV	----	42.30	MT-2	> 100.00	> 2.36	6/ 1/88
AVS-3458	CPE	HIV	----	----	MT-2	82.10	----	6/ 1/88
AVS-3459	CPE	HIV	----	34.10	MT-2	> 100.00	> 2.93	6/ 1/88
AVS-3459	CPE	HIV	----	1.13	MT-2	> 10.00	> 8.88	9/22/88
AVS-3460	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 1/88
AVS-3461	CPE	HIV	----	----	MT-2	0.19	----	6/ 1/88
AVS-3462	CPE	HIV	----	----	MT-2	> 100.00	----	5/31/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTCSO	T1	DATE
AVS-3463	CPE	HIV	----	----	NT-2 >	100.00	----	6/ 1/88
AVS-3464	CPE	HIV	----	----	NT-2	65.70	----	6/ 1/88
AVS-3465	CPE	HIV	----	----	NT-2	53.40	----	6/ 1/88
AVS-3466	CPE	HIV	----	----	NT-2	90.30	----	6/ 1/88
AVS-3466	CPE	HIV	----	1.50	NT-2	52.90	35.30	8/10/88
AVS-3466	CPE	HIV	----	----	NT-2	55.90	----	8/31/88
AVS-3467	CPE	HIV	----	----	NT-2	0.20	----	6/ 1/88
AVS-3467	CPE	HIV	----	----	NT-2 <	0.10	----	8/10/88
AVS-3467	CPE	HIV	----	----	NT-2 <	0.10	----	8/31/88
AVS-3468	CPE	HIV	----	----	NT-2	22.60	----	6/ 1/88
AVS-3468	CPE	HIV	----	----	NT-2	18.60	----	8/31/88
AVS-3469	CPE	HIV	----	----	NT-2	21.00	----	6/ 1/88
AVS-3469	CPE	HIV	----	----	NT-2	20.60	----	8/31/88
AVS-3470	CPE	HIV	----	----	NT-2	18.50	----	6/ 1/88
AVS-3470	CPE	HIV	----	----	NT-2	7.25	----	8/31/88
AVS-3471	CPE	HIV	----	----	NT-2	65.20	----	6/ 1/88
AVS-3472	CPE	HIV	----	----	NT-2	18.10	----	5/11/88
AVS-3472	CPE	HIV	----	----	NT-2	8.22	----	6/ 1/88
AVS-3472	CPE	HIV	----	----	NT-2	2.41	----	7/20/88
AVS-3472	CPE	HIV	----	----	NT-2	5.23	----	8/31/88
AVS-3473	CPE	HIV	----	----	NT-2	24.00	----	5/11/88
AVS-3473	CPE	HIV	----	----	NT-2 >	100.00	----	6/ 1/88
AVS-3473	CPE	HIV	----	----	NT-2 >	100.00	----	7/20/88
AVS-3475	CPE	HIV	----	----	NT-2 >	100.00	----	6/ 1/88
AVS-3476	CPE	HIV	----	----	NT-2	72.30	----	6/ 1/88
AVS-3478	CPE	HIV	----	----	NT-2 >	100.00	----	6/ 1/88
AVS-3479	CPE	HIV	----	----	NT-2	1.40	----	6/ 1/88
AVS-3480	CPE	HIV	----	----	NT-2	2.50	----	6/ 1/88
AVS-3481	CPE	HIV	----	----	NT-2	2.11	----	6/ 1/88
AVS-3482	CPE	HIV	----	----	NT-2	95.40	----	5/31/88
AVS-3483	CPE	HIV	----	----	NT-2	0.66	----	6/ 1/88
AVS-3484	CPE	HIV	----	----	NT-2	2.10	----	6/ 1/88
AVS-3484	CPE	HIV	----	----	NT-2	2.10	----	8/31/88
AVS-3485	CPE	HIV	----	----	NT-2	0.26	----	5/31/88
AVS-3485	CPE	HIV	----	----	NT-2 <	0.10	----	7/20/88
AVS-3486	CPE	HIV	----	----	NT-2 <	0.10	----	5/31/88
AVS-3486	CPE	HIV	----	----	NT-2 <	0.10	----	7/20/88
AVS-3487	CPE	HIV	----	----	NT-2	0.06	----	5/31/88
AVS-3487	CPE	HIV	----	----	NT-2 <	0.10	----	7/20/88
AVS-3488	CPE	HIV	----	----	NT-2	73.50	----	5/31/88
AVS-3488	CPE	HIV	----	----	NT-2	3.93	----	7/20/88
AVS-3489	CPE	HIV	----	----	NT-2	84.00	----	5/31/88
AVS-3489	CPE	HIV	----	----	NT-2	59.70	----	7/20/88
AVS-3490	CPE	HIV	----	----	NT-2 >	100.00	----	5/31/88
AVS-3490	CPE	HIV	----	----	NT-2	64.90	----	7/20/88
AVS-3491	CPE	HIV	----	0.46	NT-2	57.30	123.00	5/31/88
AVS-3491	CPE	HIV	----	51.10	NT-2 >	100.00	1.96	7/20/88
AVS-3491	CPE	HIV	----	52.90	NT-2 >	100.00	1.89	8/12/88
AVS-3492	CPE	HIV	----	----	NT-2 >	100.00	----	5/31/88
AVS-3492	CPE	HIV	----	----	NT-2 >	100.00	----	7/20/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOND	PROTOCOL	VIRUS	VR	ID50	CELL	MTC50	TI	DATE
AVS-3493	CPE	HIV	----	----	MT-2	> 100.00	----	5/31/88
AVS-3495	CPE	HIV	----	----	MT-2	> 100.00	----	7/20/88
AVS-3496	CPE	HIV	----	6.50	MT-2	> 100.00	> 15.30	5/31/88
AVS-3496	CPE	HIV	----	----	MT-2	> 100.00	----	7/20/88
AVS-3495	CPE	HIV	----	----	MT-2	6.59	----	5/31/88
AVS-3495	CPE	HIV	----	----	MT-2	6.52	----	7/20/88
AVS-3496	CPE	HIV	----	0.69	MT-2	21.30	30.60	5/31/88
AVS-3496	CPE	HIV	----	7.90	MT-2	21.80	2.74	7/20/88
AVS-3496	CPE	HIV	----	----	MT-2	21.00	----	8/12/88
AVS-3496	CPE	HIV	----	----	MT-2	8.10	----	10/ 5/88
AVS-3497	CPE	HIV	----	----	MT-2	2.10	----	5/31/88
AVS-3497	CPE	HIV	----	----	MT-2	2.11	----	7/20/88
AVS-3498	CPE	HIV	----	0.10	MT-2	2.27	> 22.70	5/31/88
AVS-3498	CPE	HIV	----	----	MT-2	2.11	----	7/20/88
AVS-3499	CPE	HIV	----	0.26	MT-2	0.66	2.45	5/31/88
AVS-3499	CPE	HIV	----	----	MT-2	2.11	----	7/20/88
AVS-3500	CPE	HIV	----	----	MT-2	2.23	----	5/31/88
AVS-3500	CPE	HIV	----	----	MT-2	2.10	----	7/20/88
AVS-3512	CPE	HIV	----	----	MT-2	0.10	----	5/31/88
AVS-3512	CPE	HIV	----	----	MT-2	0.59	----	7/20/88
AVS-3513	CPE	HIV	----	1.62	MT-2	> 100.00	> 61.80	5/31/88
AVS-3513	CPE	HIV	----	9.70	MT-2	80.50	8.22	7/20/88
AVS-3513	CPE	HIV	----	5.30	MT-2	> 100.00	> 18.70	8/12/88
AVS-3520	CPE	HIV	----	----	MT-2	20.70	----	3/24/88
AVS-3521	CPE	HIV	----	----	MT-2	66.80	----	10/ 6/88
AVS-3522	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-3523	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3524	CPE	HIV	----	26.00	MT-2	> 100.00	> 3.85	3/24/88
AVS-3525	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3526	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3527	CPE	HIV	----	31.10	MT-2	8.31	0.27	3/24/88
AVS-3528	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3529	CPE	HIV	----	52.60	MT-2	0.43	0.01	3/24/88
AVS-3530	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3531	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3532	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3533	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3534	CPE	HIV	----	----	MT-2	> 100.00	----	3/24/88
AVS-3537	CPE	HIV	----	----	MT-2	2.97	----	4/ 6/88
AVS-3538	CPE	HIV	----	----	MT-2	59.70	----	4/ 6/88
AVS-3539	CPE	HIV	----	----	MT-2	6.57	----	4/ 6/88
AVS-3540	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-3541	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-3542	CPE	HIV	----	----	MT-2	7.17	----	4/ 6/88
AVS-3543	CPE	HIV	----	3.16	MT-2	0.25	0.08	4/ 6/88
AVS-3544	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-3545	CPE	HIV	----	----	MT-2	75.10	----	4/ 6/88
AVS-3546	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-3547	CPE	HIV	----	0.83	MT-2	21.60	25.80	4/ 6/88
AVS-3548	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 6/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	MTC50	TI	DATE
AVS-3549	CPE	HIV	----	----	MT-2	67.90	----	4/ 6/88
AVS-3550	CPE	HIV	----	----	MT-2 >	100.00	----	4/ 6/88
AVS-3551	CPE	HIV	----	----	MT-2 <	0.10	----	4/ 6/88
AVS-3552	CPE	HIV	----	----	MT-2 >	100.00	----	4/ 6/88
AVS-3553	CPE	HIV	----	----	MT-2	68.70	----	4/ 6/88
AVS-3556	CPE	HIV	----	----	MT-2	50.50	----	4/ 6/88
AVS-3557	CPE	HIV	----	----	MT-2 >	100.00	----	4/ 6/88
AVS-3558	CPE	HIV	----	----	MT-2	90.30	----	4/ 6/88
AVS-3559	CPE	HIV	----	----	MT-2 >	100.00	----	4/ 6/88
AVS-3560	CPE	HIV	----	----	MT-2 >	100.00	----	12/28/88
AVS-3561	CPE	HIV	----	----	MT-2 >	100.00	----	10/ 6/88
AVS-3562	CPE	HIV	----	----	MT-2	8.24	----	10/ 6/88
AVS-3563	CPE	HIV	----	----	MT-2 >	100.00	----	10/ 6/88
AVS-3572	CPE	HIV	----	----	MT-2	58.40	----	10/ 6/88
AVS-3573	CPE	HIV	----	----	MT-2	59.90	----	10/ 6/88
AVS-3574	CPE	HIV	----	----	MT-2	22.10	----	5/18/88
AVS-3575	CPE	HIV	----	70.00	MT-2 >	100.00	1.42	5/18/88
AVS-3575	CPE	HIV	----	----	MT-2	2.52	----	10/ 5/88
AVS-3576	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3577	CPE	HIV	----	----	MT-2	3.17	----	5/18/88
AVS-3578	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3579	CPE	HIV	----	----	MT-2 <	0.10	----	5/18/88
AVS-3580	CPE	HIV	----	----	MT-2 <	0.10	----	5/18/88
AVS-3581	CPE	HIV	----	----	MT-2	0.24	----	5/18/88
AVS-3582	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3583	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3584	CPE	HIV	----	----	MT-2	29.10	----	5/18/88
AVS-3586	CPE	HIV	----	----	MT-2	2.74	----	5/20/88
AVS-3587	CPE	HIV	----	----	MT-2	75.50	----	5/20/88
AVS-3588	CPE	HIV	----	----	MT-2	69.00	----	5/20/88
AVS-3589	CPE	HIV	----	----	MT-2	73.50	----	5/20/88
AVS-3590	CPE	HIV	----	----	MT-2	29.50	----	5/18/88
AVS-3593	CPE	HIV	----	----	MT-2 >	100.00	----	4/ 6/88
AVS-3593	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3593	CPE	HIV	----	----	MT-2 >	100.00	----	10/ 6/88
AVS-3605	CPE	HIV	----	----	MT-2 >	100.00	----	12/28/88
AVS-3605	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3606	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3607	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3608	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3609	CPE	HIV	----	----	MT-2 >	100.00	----	5/18/88
AVS-3610	CPE	HIV	----	----	MT-2	23.00	----	5/18/88
AVS-3611	CPE	HIV	----	----	MT-2 >	100.00	----	5/20/88
AVS-3612	CPE	HIV	----	----	MT-2 >	100.00	----	5/20/88
AVS-3613	CPE	HIV	----	----	MT-2 >	100.00	----	5/20/88
AVS-3614	CPE	HIV	----	----	MT-2	60.70	----	5/20/88
AVS-3625	CPE	HIV	----	----	MT-2	0.21	----	4/ 6/88
AVS-3677	CPE	HIV	----	----	MT-2	0.93	----	5/20/88
AVS-3677	CPE	HIV	----	----	MT-2	22.90	----	7/20/88
AVS-3678	CPE	HIV	----	----	MT-2	5.71	----	5/20/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	NTCSO	T1	DATE
AVS-3678	CPE	HIV	----	----	MT-2	6.59	----	7/20/88
AVS-3679	CPE	HIV	----	----	MT-2	2.26	----	5/20/88
AVS-3679	CPE	HIV	----	----	MT-2	7.18	----	7/20/88
AVS-3681	CPE	HIV	----	----	ATH8	32.00	----	2/ 3/88
AVS-3682	CPE	HIV	----	----	ATH8	< 32.00	----	2/ 3/88
AVS-3683	CPE	HIV	----	----	ATH8	32.00	----	2/ 3/88
AVS-3684	CPE	HIV	0.60	----	ATH8	100.00	----	2/ 3/88
AVS-3685	CPE	HIV	----	----	ATH8	100.00	----	2/ 3/88
AVS-3686	CPE	HIV	----	----	ATH8	32.00	----	2/ 3/88
AVS-3687	CPE	HIV	----	----	ATH8	> 100.00	----	2/ 3/88
AVS-3688	CPE	HIV	----	----	ATH8	< 100.00	----	2/ 3/88
AVS-3689	CPE	HIV	----	----	ATH8	0.32	----	2/ 4/88
AVS-3690	CPE	HIV	----	----	ATH8	1.00	----	2/ 4/88
AVS-3691	CPE	HIV	----	----	ATH8	32.00	----	2/ 4/88
AVS-3700	CPE	HIV	----	----	ATH8	32.00	----	2/ 4/88
AVS-3701	CPE	HIV	----	----	ATH8	32.00	----	2/ 4/88
AVS-3702	CPE	HIV	2.10	----	ATH8	> 100.00	----	2/ 4/88
AVS-3702	CPE	HIV	----	----	MT-2	> 100.00	----	11/10/88
AVS-3724	CPE	HIV	----	----	MT-2	65.50	----	5/31/88
AVS-3724	CPE	HIV	----	----	MT-2	68.20	----	7/20/88
AVS-3725	CPE	HIV	----	----	MT-2	65.90	----	5/31/88
AVS-3725	CPE	HIV	----	----	MT-2	58.60	----	7/20/88
AVS-3727	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3728	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3729	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3730	CPE	HIV	----	2.50	MT-2	> 100.00	40.10	6/ 3/88
AVS-3731	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3732	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3733	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3734	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3735	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3736	CPE	HIV	----	----	MT-2	29.20	----	6/ 3/88
AVS-3737	CPE	HIV	----	----	MT-2	52.10	----	6/ 3/88
AVS-3738	CPE	HIV	----	----	MT-2	0.20	----	6/ 3/88
AVS-3739	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3740	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3741	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3742	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3743	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3744	CPE	HIV	----	2.26	MT-2	> 100.00	44.30	6/ 3/88
AVS-3745	CPE	HIV	----	0.36	MT-2	> 100.00	276.00	6/ 3/88
AVS-3746	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3747	CPE	HIV	----	----	MT-2	61.20	----	6/ 3/88
AVS-3748	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 3/88
AVS-3749	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 8/88
AVS-3750	CPE	HIV	----	----	MT-2	98.80	----	6/ 8/88
AVS-3751	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 8/88
AVS-3752	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 8/88
AVS-3753	CPE	HIV	----	----	MT-2	> 100.00	----	6/ 8/88
AVS-3754	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	ID50	CELL	HTC50	TI	DATE
AVS-3755	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3756	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3757	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3758	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3759	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3761	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3762	CPE	HIV	----	----	MT-2	6.13	----	6/10/88
AVS-3763	CPE	HIV	----	----	MT-2	< 0.10	----	6/10/88
AVS-3763	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3764	CPE	HIV	----	----	MT-2	69.00	----	6/10/88
AVS-3765	CPE	HIV	----	----	MT-2	21.00	----	6/10/88
AVS-3766	CPE	HIV	----	----	MT-2	73.10	----	6/10/88
AVS-3767	CPE	HIV	----	----	MT-2	19.60	----	6/10/88
AVS-3768	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3769	CPE	HIV	----	----	MT-2	8.35	----	6/10/88
AVS-3770	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3771	CPE	HIV	----	----	MT-2	75.50	----	6/10/88
AVS-3772	CPE	HIV	----	----	MT-2	68.90	----	6/10/88
AVS-3773	CPE	HIV	----	----	MT-2	51.40	----	6/10/88
AVS-3774	CPE	HIV	----	----	MT-2	7.15	----	6/10/88
AVS-3775	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3776	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3777	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3779	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-3780	CPE	HIV	----	----	MT-2	0.66	----	6/10/88
AVS-3781	CPE	HIV	----	----	MT-2	0.73	----	6/10/88
AVS-3782	CPE	HIV	----	----	MT-2	0.72	----	6/10/88
AVS-3783	CPE	HIV	----	----	MT-2	0.76	----	6/10/88
AVS-3784	CPE	HIV	----	----	MT-2	1.92	----	6/10/88
AVS-3785	CPE	HIV	----	----	MT-2	2.10	----	7/20/88
AVS-3786	CPE	HIV	----	----	MT-2	2.11	----	7/20/88
AVS-3787	CPE	HIV	----	----	MT-2	2.11	----	7/20/88
AVS-3788	CPE	HIV	----	----	MT-2	57.10	----	7/20/88
AVS-3789	CPE	HIV	----	----	MT-2	10.90	----	7/20/88
AVS-3790	CPE	HIV	----	----	MT-2	81.60	----	7/20/88
AVS-3791	CPE	HIV	----	----	MT-2	< 0.10	----	7/20/88
AVS-3792	CPE	HIV	----	----	MT-2	0.22	----	7/20/88
AVS-3793	CPE	HIV	----	----	MT-2	0.23	----	7/20/88
AVS-3794	CPE	HIV	----	----	MT-2	0.10	----	7/20/88
AVS-3795	CPE	HIV	----	----	MT-2	22.40	----	7/26/88
AVS-3796	CPE	HIV	----	----	MT-2	16.60	----	7/26/88
AVS-3797	CPE	HIV	< 0.10	----	MT-2	9.93	> 99.30	7/26/88
AVS-3798	CPE	HIV	----	----	MT-2	21.40	----	7/26/88
AVS-3799	CPE	HIV	----	----	MT-2	0.88	----	7/26/88
AVS-3800	CPE	HIV	----	----	MT-2	0.45	----	8/31/88
AVS-3801	CPE	HIV	----	----	MT-2	0.21	----	8/31/88
AVS-3802	CPE	HIV	----	----	MT-2	0.10	----	7/26/88
AVS-3803	CPE	HIV	----	----	MT-2	2.50	----	7/26/88
AVS-3804	CPE	HIV	----	----	MT-2	7.22	----	7/26/88
AVS-3805	CPE	HIV	----	----	MT-2	21.10	----	7/26/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIBES	VR	1050	CELL	HTC50	TI	DATE
AVS-3806	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3806	CPE	NIV	----	----	NT-2	> 100.00	----	7/26/88
AVS-3807	CPE	NIV	----	----	NT-2	68.40	----	6/23/88
AVS-3808	CPE	NIV	----	----	NT-2	53.46	----	6/23/88
AVS-3809	CPE	NIV	----	----	NT-2	21.40	----	6/23/88
AVS-3810	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3811	CPE	NIV	----	----	NT-2	22.40	----	6/23/88
AVS-3812	CPE	NIV	----	----	NT-2	23.50	----	6/23/88
AVS-3813	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3814	CPE	NIV	----	----	NT-2	2.42	----	6/23/88
AVS-3815	CPE	NIV	----	----	NT-2	50.00	----	6/23/88
AVS-3816	CPE	NIV	----	----	NT-2	71.50	----	6/23/88
AVS-3817	CPE	NIV	----	----	NT-2	21.10	----	6/23/88
AVS-3818	CPE	NIV	----	----	NT-2	22.20	----	6/23/88
AVS-3819	CPE	NIV	----	1.63	NT-2	> 100.00	> 61.30	6/23/88
AVS-3819	CPE	NIV	----	6.10	NT-2	66.90	10.90	8/15/88
AVS-3820	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3821	CPE	NIV	----	----	NT-2	25.20	----	6/23/88
AVS-3822	CPE	NIV	----	----	NT-2	59.60	----	6/23/88
AVS-3823	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3824	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3825	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3826	CPE	NIV	----	----	NT-2	64.10	----	6/23/88
AVS-3827	CPE	NIV	----	----	NT-2	76.30	----	6/23/88
AVS-3828	CPE	NIV	----	----	NT-2	24.90	----	6/23/88
AVS-3829	CPE	NIV	----	----	NT-2	27.00	----	6/23/88
AVS-3830	CPE	NIV	----	----	NT-2	66.60	----	6/23/88
AVS-3831	CPE	NIV	----	----	NT-2	25.80	----	6/23/88
AVS-3832	CPE	NIV	----	----	NT-2	25.70	----	6/23/88
AVS-3833	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3834	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3835	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3836	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3837	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3838	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3839	CPE	NIV	----	54.90	NT-2	> 100.00	> 1.82	6/23/88
AVS-3840	CPE	NIV	----	----	NT-2	< 0.10	----	6/23/88
AVS-3841	CPE	NIV	----	----	NT-2	21.00	----	6/23/88
AVS-3842	CPE	NIV	----	----	NT-2	9.78	----	6/23/88
AVS-3843	CPE	NIV	----	----	NT-2	2.01	----	6/23/88
AVS-3844	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3845	CPE	NIV	----	----	NT-2	21.10	----	6/23/88
AVS-3846	CPE	NIV	----	----	NT-2	23.40	----	6/23/88
AVS-3847	CPE	NIV	----	----	NT-2	58.10	----	6/23/88
AVS-3848	CPE	NIV	----	----	NT-2	> 100.00	----	6/23/88
AVS-3849	CPE	NIV	----	----	NT-2	66.70	----	6/23/88
AVS-3850	CPE	NIV	----	----	NT-2	> 100.00	----	6/24/88
AVS-3851	CPE	NIV	----	----	NT-2	> 100.00	----	6/24/88
AVS-3852	CPE	NIV	----	----	NT-2	50.40	----	6/24/88
AVS-3853	CPE	NIV	----	----	NT-2	57.40	----	6/24/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOND	PROTOCOL	VIRUS	VR	IDSD	CELL	HTCSD	T!	DATE
AVS-3854	CPE	HIV	----	----	HT-2	61.50	----	6/24/88
AVS-3855	CPE	HIV	----	----	HT-2	58.70	----	6/24/88
AVS-3856	CPE	HIV	----	----	HT-2	6.63	----	6/24/88
AVS-3857	CPE	HIV	----	----	HT-2	2.46	----	6/24/88
AVS-3858	CPE	HIV	----	----	HT-2	6.92	----	6/24/88
AVS-3859	CPE	HIV	----	----	HT-2	0.10	----	6/24/88
AVS-3860	CPE	HIV	----	----	HT-2	> 100.00	----	6/24/88
AVS-3861	CPE	HIV	----	----	HT-2	> 100.00	----	6/24/88
AVS-3862	CPE	HIV	----	----	HT-2	> 100.00	----	6/24/88
AVS-3863	CPE	HIV	----	----	HT-2	> 100.00	----	6/24/88
AVS-3864	CPE	HIV	----	----	HT-2	> 100.00	----	6/24/88
AVS-3865	CPE	HIV	----	----	HT-2	0.93	----	6/24/88
AVS-3866	CPE	HIV	----	----	HT-2	17.70	----	6/29/88
AVS-3867	CPE	HIV	----	----	HT-2	59.60	----	6/29/88
AVS-3868	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3869	CPE	HIV	----	----	HT-2	0.28	----	6/29/88
AVS-3870	CPE	HIV	----	----	HT-2	69.10	----	6/29/88
AVS-3871	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3872	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3873	CPE	HIV	----	----	HT-2	9.69	----	6/29/88
AVS-3874	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3875	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3876	CPE	HIV	----	----	HT-2	84.30	----	6/29/88
AVS-3877	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3878	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3879	CPE	HIV	----	----	HT-2	17.10	----	6/29/88
AVS-3880	CPE	HIV	----	----	HT-2	15.10	----	6/29/88
AVS-3881	CPE	HIV	----	----	HT-2	60.20	----	6/29/88
AVS-3882	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3883	CPE	HIV	----	----	HT-2	53.80	----	6/29/88
AVS-3884	CPE	HIV	----	----	HT-2	50.80	----	6/29/88
AVS-3885	CPE	HIV	----	----	HT-2	6.59	----	6/29/88
AVS-3886	CPE	HIV	----	----	HT-2	21.00	----	6/29/88
AVS-3887	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3888	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3889	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3890	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3891	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3892	CPE	HIV	----	----	HT-2	4.33	----	6/29/88
AVS-3893	CPE	HIV	----	----	HT-2	7.03	----	6/29/88
AVS-3894	CPE	HIV	----	----	HT-2	7.33	----	6/29/88
AVS-3895	CPE	HIV	----	----	HT-2	27.00	----	6/29/88
AVS-3896	CPE	HIV	----	28.40	HT-2	> 100.00	3.52	6/29/88
AVS-3897	CPE	HIV	----	----	HT-2	19.80	----	6/29/88
AVS-3898	CPE	HIV	----	----	HT-2	66.90	----	6/29/88
AVS-3900	CPE	HIV	----	----	HT-2	0.21	----	6/29/88
AVS-3901	CPE	HIV	----	----	HT-2	> 100.00	----	6/29/88
AVS-3902	CPE	HIV	----	----	HT-2	95.20	----	8/31/88
AVS-3903	CPE	HIV	----	----	HT-2	20.30	----	8/31/88
AVS-3904	CPE	HIV	1.00	----	ATMB	100.00	----	2/ 3/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	MTCSO	TI	DATE
AVS-3904	CPE	HIV	----	----	HT-2	4.67	----	11/10/88
AVS-3905	CPE	HIV	----	----	ATMS	32.00	----	2/ 3/88
AVS-3905	CPE	HIV	----	----	HT-2 >	100.00	----	5/31/88
AVS-3905	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3906	CPE	HIV	----	----	HT-2	0.07	----	6/ 8/88
AVS-3907	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3908	CPE	HIV	----	0.17	HT-2 >	100.00	> 571.00	6/ 8/88
AVS-3909	CPE	HIV	----	----	HT-2	100.00	----	6/ 8/88
AVS-3910	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3911	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3912	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3912	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3914	CPE	HIV	----	----	HT-2	65.00	----	6/ 8/88
AVS-3915	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3916	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3917	CPE	HIV	----	----	HT-2	95.10	----	6/ 8/88
AVS-3918	CPE	HIV	----	----	HT-2	69.90	----	6/ 8/88
AVS-3919	CPE	HIV	----	----	HT-2	21.80	----	6/ 8/88
AVS-3920	CPE	HIV	----	----	HT-2	26.30	----	6/ 8/88
AVS-3921	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3922	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3923	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3924	CPE	HIV	----	----	HT-2 >	100.00	----	6/ 8/88
AVS-3928	CPE	HIV	----	----	HT-2 <	0.32	----	11/ 9/88
AVS-3929	CPE	HIV	----	----	HT-2 <	0.32	----	11/ 9/88
AVS-3930	CPE	HIV	----	----	HT-2 <	0.32	----	11/ 9/88
AVS-3931	CPE	HIV	----	----	HT-2 >	100.00	----	11/17/88
AVS-3932	CPE	HIV	----	----	HT-2 >	100.00	----	11/17/88
AVS-3933	CPE	HIV	----	6.40	HT-2	61.20	9.56	7/26/88
AVS-3936	CPE	HIV	----	----	HT-2 >	100.00	----	10/ 6/88
AVS-3937	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3938	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3939	CPE	HIV	----	0.43	HT-2	65.30	166.00	7/26/88
AVS-3939	CPE	HIV	----	5.40	HT-2	58.40	10.80	8/12/88
AVS-3940	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3941	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3942	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3943	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3944	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3945	CPE	HIV	----	----	HT-2	23.80	----	7/26/88
AVS-3946	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3947	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3962	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3963	CPE	HIV	----	----	HT-2 >	100.00	----	7/26/88
AVS-3966	CPE	HIV	----	0.31	HT-2	8.03	25.40	5/31/88
AVS-3966	CPE	HIV	----	----	HT-2	7.01	----	7/26/88
AVS-3980	CPE	HIV	----	----	HT-2	17.90	----	12/ 9/88
AVS-3981	CPE	HIV	----	----	HT-2 >	100.00	----	12/ 9/88
AVS-3982	CPE	HIV	----	----	HT-2 >	100.00	----	12/ 9/88
AVS-3983	CPE	HIV	----	----	HT-2 >	100.00	----	12/ 9/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	NTC50	TI	DATE
AVS-3984	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3985	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3986	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3987	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3988	CPE	HIV	----	----	MT-2	73.20	----	12/ 9/88
AVS-3989	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3990	CPE	HIV	----	----	MT-2	75.00	----	12/ 9/88
AVS-3991	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3992	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3993	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3994	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3995	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-3996	CPE	HIV	----	----	MT-2	21.70	----	12/ 9/88
AVS-3997	CPE	HIV	----	----	MT-2	45.90	----	12/ 9/88
AVS-3998	CPE	HIV	----	----	MT-2	0.77	----	12/ 9/88
AVS-3999	CPE	HIV	----	----	MT-2	1.84	----	12/ 9/88
AVS-4000	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4001	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4002	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4003	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4004	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4005	CPE	HIV	----	----	MT-2	66.90	----	12/ 9/88
AVS-4006	CPE	HIV	----	----	MT-2	74.00	----	12/ 9/88
AVS-4021	CPE	HIV	----	----	MT-2	59.90	----	12/ 9/88
AVS-4022	CPE	HIV	----	----	MT-2	36.50	----	12/ 9/88
AVS-4023	CPE	HIV	----	----	MT-2	99.70	----	12/ 9/88
AVS-4024	CPE	HIV	----	----	MT-2	52.30	----	12/ 9/88
AVS-4025	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4027	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 9/88
AVS-4028	CPE	HIV	----	----	MT-2	60.20	----	12/20/88
AVS-4029	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4030	CPE	HIV	----	----	MT-2	63.60	----	12/ 9/88
AVS-4031	CPE	HIV	----	----	MT-2	25.10	----	12/ 9/88
AVS-4032	CPE	HIV	----	60.40	MT-2	> 100.00	> 2.48	12/ 9/88
AVS-4033	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4034	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4035	CPE	HIV	----	3.15	MT-2	> 100.00	> 31.80	12/ 9/88
AVS-4036	CPE	HIV	----	15.10	MT-2	> 100.00	> 6.63	12/ 9/88
AVS-4037	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4038	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4039	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4040	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4041	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4042	CPE	HIV	----	64.20	MT-2	> 100.00	> 2.26	6/16/88
AVS-4042	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4043	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4044	CPE	HIV	----	----	MT-2	71.70	----	6/16/88
AVS-4045	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4046	CPE	HIV	----	----	MT-2	85.60	----	6/16/88
AVS-4047	CPE	HIV	----	----	MT-2	6.73	----	6/16/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IDS0	CELL	NTCS0	TI	DATE
AVS-4048	CPE	HIV	----	----	MT-2	----	----	6/16/88
AVS-4048	CPE	HIV	----	----	MT-2	< 0.32	----	11/30/88
AVS-4048	CPE	HIV	----	----	MT-2	< 0.32	----	12/28/88
AVS-4049	CPE	HIV	----	----	MT-2	6.86	----	6/16/88
AVS-4050	CPE	HIV	----	----	MT-2	6.75	----	6/16/88
AVS-4051	CPE	HIV	----	----	MT-2	6.17	----	6/16/88
AVS-4052	CPE	HIV	----	----	MT-2	22.00	----	6/16/88
AVS-4053	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4060	CPE	HIV	----	70.60	MT-2	> 100.00	1.40	6/10/88
AVS-4061	CPE	HIV	----	70.90	MT-2	> 100.00	1.41	6/10/88
AVS-4062	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-4063	CPE	HIV	----	----	MT-2	14.90	----	6/10/88
AVS-4064	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-4065	CPE	HIV	----	----	MT-2	< 0.10	----	6/10/88
AVS-4065	CPE	HIV	----	----	MT-2	< 0.32	----	12/28/88
AVS-4066	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-4067	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-4068	CPE	HIV	----	----	MT-2	24.70	----	6/10/88
AVS-4069	CPE	HIV	----	----	MT-2	0.22	----	6/10/88
AVS-4070	CPE	HIV	----	----	MT-2	< 0.10	----	6/10/88
AVS-4070	CPE	HIV	----	----	MT-2	< 0.32	----	12/28/88
AVS-4071	CPE	HIV	----	----	MT-2	> 100.00	----	6/10/88
AVS-4073	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4074	CPE	HIV	----	----	ATMS	0.32	----	3/18/88
AVS-4074	CPE	HIV	0.15	----	ATMS	0.10	----	3/23/88
AVS-4074	CPE	HIV	----	----	MT-2	< 0.32	11/ 9/88	
AVS-4075	CPE	HIV	----	----	MT-2	< 0.32	11/ 9/88	
AVS-4076	CPE	HIV	----	----	MT-2	66.60	----	6/16/88
AVS-4077	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4078	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4079	CPE	HIV	----	----	MT-2	99.50	----	6/16/88
AVS-4080	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4080	CPE	HIV	----	----	MT-2	> 100.00	----	6/17/88
AVS-4081	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4082	CPE	HIV	----	----	MT-2	> 100.00	----	10/ 6/88
AVS-4083	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4084	CPE	HIV	----	----	MT-2	< 0.10	----	6/16/88
AVS-4084	CPE	HIV	----	----	MT-2	3.90	----	12/28/88
AVS-4085	CPE	HIV	----	----	MT-2	88.80	----	6/16/88
AVS-4086	CPE	HIV	----	----	MT-2	49.80	----	6/16/88
AVS-4087	CPE	HIV	----	----	MT-2	73.10	----	6/16/88
AVS-4088	CPE	HIV	----	----	MT-2	7.22	----	6/16/88
AVS-4089	CPE	HIV	----	----	MT-2	9.31	----	6/16/88
AVS-4090	CPE	HIV	----	----	MT-2	77.70	----	6/16/88
AVS-4091	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4092	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4093	CPE	HIV	----	----	MT-2	7.74	----	6/17/88
AVS-4094	CPE	HIV	----	----	MT-2	64.20	----	6/16/88
AVS-4095	CPE	HIV	----	----	MT-2	> 100.00	----	6/16/88
AVS-4096	CPE	HIV	----	----	MT-2	2.52	----	6/16/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	MT-50	TI	DATE
AVS-4100	CPH	HIV	----	----	MT-2	2.55	----	6/17/88
AVS-4101	CPH	HIV	----	0.34	MT-2	24.90	190.00	6/22/88
AVS-4102	CPH	HIV	<	0.10	MT-2	21.10	> 211.00	6/22/88
AVS-4103	CPH	HIV	----	----	MT-2	> 100.00	----	6/17/88
AVS-4104	CPH	HIV	----	----	MT-2	> 100.00	----	6/17/88
AVS-4105	CPH	HIV	----	----	MT-2	> 100.00	----	6/17/88
AVS-4108	CPH	HIV	----	----	PT-2	> 100.00	----	6/17/88
AVS-4109	CPH	HIV	----	----	MT-2	> 100.00	----	6/17/88
AVS-4110	CPH	ATV	----	----	MT-2	92.20	----	6/24/88
AVS-4111	CPH	HIV	----	----	MT-2	> 100.00	----	6/24/88
AVS-4112	CPH	HIV	----	----	MT-2	> 100.00	----	6/24/88
AVS-4113	CPH	HIV	----	----	MT-2	0.24	----	6/22/88
AVS-4114	CPH	HIV	----	----	MT-2	> 100.00	----	6/24/88
AVS-4115	CPH	HIV	----	----	MT-2	> 100.00	----	6/24/88
AVS-4116	CPH	HIV	----	----	MT-2	> 100.00	----	6/24/88
AVS-4117	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4118	CPH	HIV	----	3.97	MT-2	> 100.00	> 25.20	7/26/88
AVS-4118	CPH	HIV	----	----	MT-2	> 100.00	----	8/12/88
AVS-4118	CPH	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4119	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4120	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4121	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4122	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4123	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4124	CPH	HIV	----	----	MT-2	44.60	----	7/26/88
AVS-4125	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4126	CPH	HIV	----	----	MT-2	103.00	----	7/26/88
AVS-4127	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4128	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4129	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4130	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4131	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4132	CPH	HIV	----	----	MT-2	0.64	----	6/17/88
AVS-4133	CPH	HIV	<	0.10	MT-2	> 100.00	> 1000.00	6/22/88
AVS-4133	CPH	HIV	----	----	MT-2	> 10.00	----	9/22/88
AVS-4134	CPH	HIV	<	0.10	MT-2	> 100.00	> 1000.00	6/22/88
AVS-4134	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4134	CPH	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4135	CPH	HIV	----	23.50	MT-2	> 100.00	> 4.25	7/26/88
AVS-4135	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4135	CPH	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4136	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4137	CPH	HIV	----	----	MT-2	> 100.00	----	7/26/88
AVS-4138	CPH	HIV	----	72.90	MT-2	> 100.00	> 1.37	8/ 9/88
AVS-4138	CPH	HIV	----	6.60	MT-2	> 10.00	> 1.50	9/22/88
AVS-4139	CPH	HIV	----	54.70	MT-2	> 100.00	> 1.83	8/ 9/88
AVS-4139	CPH	HIV	----	02.70	MT-2	> 100.00	> 1.08	9/22/88
AVS-4140	CPH	HIV	----	11.80	MT-2	59.00	4.98	8/ 9/88
AVS-4140	CPH	HIV	----	----	MT-2	> 100.00	----	9/22/88
AVS-4141	CPH	HIV	----	----	MT-2	> 100.00	----	8/ 9/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	WT	ID50	CELL	NTC50	TI	DATE
AVS-4142	OSE	HIV	----	22.80	MT-2	> 100.00	> 4.39	6/17/88
AVS-4142	OSE	HIV	----	18.30	MT-2	> 100.00	> 5.46	8/12/88
AVS-4143	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/17/88
AVS-4144	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/17/88
AVS-4145	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/17/88
AVS-4146	OSE	HIV	----	-----	MT-2	6.12	-----	6/17/88
AVS-4147	OSE	HIV	----	-----	MT-2	26.20	-----	6/17/88
AVS-4148	OSE	HIV	----	15.90	MT-2	82.70	5.21	6/17/88
AVS-4149	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4150	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/29/88
AVS-4151	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/29/88
AVS-4152	OSE	HIV	----	-----	MT-2	0.71	-----	6/29/88
AVS-4153	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/29/88
AVS-4154	OSE	HIV	----	-----	MT-2	58.00	-----	6/29/88
AVS-4155	OSE	HIV	----	-----	MT-2	1.85	-----	6/29/88
AVS-4156	OSE	HIV	----	8.30	MT-2	> 100.00	> 12.00	8/ 7/88
AVS-4157	OSE	HIV	----	8.50	MT-2	22.70	2.65	8/ 9/88
AVS-4157	OSE	HIV	----	-----	MT-2	25.90	-----	9/22/88
AVS-4158	OSE	HIV	----	-----	MT-2	7.01	-----	8/ 9/88
AVS-4159	OSE	HIV	----	13.30	MT-2	> 100.00	> 7.51	8/ 9/88
AVS-4160	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4161	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4162	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4163	OSE	HIV	----	-----	MT-2	26.00	-----	8/ 9/88
AVS-4164	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4165	OSE	HIV	----	-----	MT-2	28.90	-----	8/ 9/88
AVS-4166	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4167	OSE	HIV	----	-----	MT-2	0.64	-----	8/ 9/88
AVS-4168	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4169	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4170	OSE	HIV	----	6.90	MT-2	> 100.00	> 14.20	4/ 1/88
AVS-4170	OSE	HIV	----	-----	MT-2	> 100.00	-----	4/16/88
AVS-4170	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/22/88
AVS-4171	OSE	HIV	----	-----	MT-2	> 100.00	-----	8/ 9/88
AVS-4172	OSE	HIV	----	0.29	MT-2	> 100.00	> 345.00	8/ 9/88
AVS-4173	OSE	HIV	----	-----	MT-2	64.80	-----	6/17/88
AVS-4174	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/17/88
AVS-4175	OSE	HIV	----	-----	MT-2	7.41	-----	6/17/88
AVS-4176	OSE	HIV	----	-----	MT-2	26.40	-----	6/17/88
AVS-4177	OSE	HIV	----	-----	MT-2	9.09	-----	6/17/88
AVS-4178	OSE	HIV	----	-----	MT-2	9.67	-----	6/17/88
AVS-4179	OSE	HIV	----	40.60	MT-2	> 100.00	> 2.47	6/21/88
AVS-4180	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/21/88
AVS-4181	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/21/88
AVS-4182	OSE	HIV	----	-----	MT-2	58.90	-----	6/21/88
AVS-4183	OSE	HIV	----	-----	MT-2	21.50	-----	6/21/88
AVS-4184	OSE	HIV	----	-----	MT-2	> 100.00	-----	6/21/88
AVS-4185	OSE	HIV	----	-----	MT-2	19.60	-----	6/21/88
AVS-4186	OSE	HIV	----	-----	MT-2	57.60	-----	6/21/88
AVS-4187	OSE	HIV	----	-----	MT-2	78.60	-----	6/21/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	MYC50	TI	LATE
AVS-4188	CPE	HIV	----	----	HT-2	25.70	----	6/21/88
AVS-4189	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4190	CPE	HIV	----	----	HT-2	2.10	----	6/21/88
AVS-4191	CPE	HIV	----	----	HT-2	60.60	----	6/21/88
AVS-4192	CPE	HIV	----	----	HT-2	21.10	----	6/21/88
AVS-4193	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4194	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4195	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4196	CPE	HIV	----	36.00	HT-2	> 100.00	2.43	6/21/88
AVS-4196	CPE	HIV	----	----	HT-2	> 100.00	10/ 5/88	
AVS-4197	CPE	HIV	----	----	HT-2	64.40	----	6/21/88
AVS-4198	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4199	CPE	HIV	----	----	HT-2	> 100.00	----	6/21/88
AVS-4200	CPE	HIV	----	----	HT-2	76.10	----	6/21/88
AVS-4201	CPE	HIV	----	----	HT-2	> 100.00	----	6/22/88
AVS-4202	CPE	HIV	----	----	HT-2	23.50	----	6/22/88
AVS-4203	CPE	HIV	----	----	HT-2	> 100.00	----	6/22/88
AVS-4204	CPE	HIV	----	----	HT-2	> 100.00	----	8/ 9/88
AVS-4205	CPE	HIV	----	----	HT-2	> 100.00	----	8/31/88
AVS-4206	CPE	HIV	----	----	HT-2	> 100.00	----	9/22/88
AVS-4207	CPE	HIV	----	----	HT-2	91.00	----	9/22/88
AVS-4209	CPE	HIV	----	----	HT-2	> 100.00	----	8/31/88
AVS-4210	CPE	HIV	----	----	HT-2	0.13	----	8/31/88
AVS-4211	CPE	HIV	----	----	HT-2	> 100.00	----	8/31/88
AVS-4212	CPE	HIV	----	----	HT-2	> 100.00	----	9/22/88
AVS-4214	CPE	HIV	----	----	HT-2	> 100.00	----	9/22/88
AVS-4215	CPE	HIV	----	----	HT-2	> 100.00	----	9/29/88
AVS-4216	CPE	HIV	----	----	HT-2	70.60	----	9/29/88
AVS-4217	CPE	HIV	----	----	HT-2	22.60	----	9/29/88
AVS-4218	CPE	HIV	----	----	HT-2	> 100.00	----	8/31/88
AVS-4221	CPE	HIV	----	----	HT-2	57.60	----	9/22/88
AVS-4224	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4225	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4226	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4227	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4228	CPE	HIV	----	----	HT-2	21.00	----	8/16/88
AVS-4229	CPE	HIV	----	----	HT-2	0.66	----	8/16/88
AVS-4230	CPE	HIV	----	----	HT-2	0.66	----	8/16/88
AVS-4231	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4232	CPE	HIV	----	----	HT-2	> 100.00	----	8/16/88
AVS-4233	CPE	HIV	----	----	HT-2	73.50	----	9/22/88
AVS-4234	CPE	HIV	----	----	HT-2	6.59	----	6/22/88
AVS-4240	CPE	HIV	----	----	HT-2	48.60	----	6/22/88
AVS-4241	CPE	HIV	----	----	HT-2	22.20	----	6/22/88
AVS-4242	CPE	HIV	----	----	HT-2	> 100.00	----	6/22/88
AVS-4243	CPE	HIV	----	----	HT-2	> 100.00	----	6/22/88
AVS-4244	CPE	HIV	----	----	HT-2	51.80	----	6/22/88
AVS-4245	CPE	HIV	----	----	HT-2	> 100.00	----	6/22/88
AVS-4246	CPE	HIV	----	----	HT-2	52.50	----	6/22/88
AVS-4247	CPE	HIV	----	----	HT-2	29.20	----	6/22/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IDS0	CELL	NTCS0	TI	DATE
AVS-4248	CPE	HIV	----	----	MT-2	51.70	----	6/22/88
AVS-4249	CPE	HIV	----	----	MT-2	62.70	----	6/22/88
AVS-4250	CPE	HIV	----	----	MT-2	0.10	----	6/ 8/88
AVS-4250	CPE	HIV	----	----	MT-2	53.10	----	6/22/88
AVS-4251	CPE	HIV	----	31.20	MT-2	100.00	3.21	6/22/88
AVS-4252	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4253	CPE	HIV	----	----	MT-2	50.30	----	6/22/88
AVS-4254	CPE	HIV	----	----	MT-2	63.50	----	6/22/88
AVS-4255	CPE	HIV	----	----	MT-2	20.50	----	6/22/88
AVS-4256	CPE	HIV	----	----	MT-2	50.50	----	6/22/88
AVS-4257	CPE	HIV	----	----	MT-2	22.70	----	6/22/88
AVS-4258	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4259	CPE	HIV	----	----	MT-2	5.99	----	6/22/88
AVS-4261	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4262	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4263	CPE	HIV	----	----	MT-2	6.59	----	6/22/88
AVS-4264	CPE	HIV	----	----	MT-2	50.10	----	6/22/88
AVS-4265	CPE	HIV	----	----	MT-2	8.97	----	6/22/88
AVS-4266	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4267	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4268	CPE	HIV	----	----	MT-2	100.00	----	6/22/88
AVS-4269	CPE	HIV	----	----	MT-2	53.80	----	6/22/88
AVS-4270	CPE	HIV	----	----	MT-2	66.70	----	6/22/88
AVS-4271	CPE	HIV	----	----	MT-2	22.30	----	6/22/88
AVS-4272	CPE	HIV	----	----	MT-2	21.10	----	6/22/88
AVS-4273	CPE	HIV	----	----	MT-2	7.63	----	6/22/88
AVS-4276	CPE	HIV	----	----	MT-2	58.80	----	9/22/88
AVS-4277	CPE	HIV	----	2.59	MT-2	7.31	2.83	9/29/88
AVS-4288	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4289	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4290	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4291	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4292	CPE	HIV	----	----	MT-2	2.00	----	8/16/88
AVS-4293	CPE	HIV	----	----	MT-2	21.00	----	8/16/88
AVS-4294	CPE	HIV	----	----	MT-2	2.11	----	8/16/88
AVS-4295	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4296	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4296	CPE	HIV	----	----	MT-2	100.00	----	8/16/88
AVS-4297	CPE	HIV	----	----	MT-2	100.00	----	9/29/88
AVS-4310	CPE	HIV	----	----	MT-2	23.30	----	9/29/88
AVS-4320	CPE	HIV	----	----	MT-2	59.60	----	9/29/88
AVS-4321	CPE	HIV	----	----	MT-2	0.05	----	9/29/88
AVS-4323	CPE	HIV	----	----	MT-2	49.00	----	9/29/88
AVS-4325	CPE	HIV	----	26.60	MT-2	100.00	4.06	9/29/88
AVS-4326	CPE	HIV	----	----	MT-2	65.90	----	9/29/88
AVS-4327	CPE	HIV	----	----	MT-2	21.10	----	9/29/88
AVS-4328	CPE	HIV	----	----	MT-2	21.80	----	8/16/88
AVS-4328	CPE	HIV	----	----	MT-2	21.80	----	8/16/88
AVS-4329	CPE	HIV	----	----	MT-2	102.00	----	8/16/88
AVS-4329	CPE	HIV	----	----	MT-2	102.00	----	8/16/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	1050	CELL	HTC50	TI	DATE
AVS-4330	CPH	HIV	----	----	MT-2	22.50	----	8/16/88
AVS-4331	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4332	CPH	HIV	----	----	MT-2	80.70	----	8/16/88
AVS-4333	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4334	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4335	CPH	HIV	----	----	MT-2	74.20	----	8/16/88
AVS-4336	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4337	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4338	CPH	HIV	----	----	MT-2	59.40	----	8/16/88
AVS-4339	CPH	HIV	----	----	MT-2	52.50	----	8/16/88
AVS-4340	CPH	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4341	CPH	HIV	----	----	MT-2	74.80	----	8/23/88
AVS-4342	CPH	HIV	----	1.63	MT-2	7.53	4.41	8/23/88
AVS-4343	CPH	HIV	----	----	MT-2	71.50	----	8/23/88
AVS-4344	CPH	HIV	----	----	MT-2	31.60	----	8/23/88
AVS-4345	CPH	HIV	----	13.10	MT-2	63.20	4.70	8/23/88
AVS-4345	CPH	HIV	----	----	MT-2	66.70	----	10/ 5/88
AVS-4346	CPH	HIV	----	1.64	MT-2	> 100.00	> 69.20	8/23/88
AVS-4346	CPH	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4347	CPH	HIV	----	58.00	MT-2	> 100.00	> 1.72	8/23/88
AVS-4348	CPH	HIV	----	----	MT-2	61.30	----	8/23/88
AVS-4349	CPH	HIV	----	----	MT-2	9.72	----	8/23/88
AVS-4350	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4351	CPH	HIV	----	0.77	MT-2	> 100.00	> 129.00	8/23/88
AVS-4351	CPH	HIV	----	----	MT-2	> 100.00	----	10/ 5/88
AVS-4352	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4353	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4354	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4355	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4356	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4357	CPH	HIV	----	0.19	MT-2	21.60	109.00	8/23/88
AVS-4357	CPH	HIV	----	< 0.01	MT-2	2.18	> 218.00	9/29/88
AVS-4358	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4359	CPH	HIV	----	----	MT-2	6.64	----	8/23/88
AVS-4360	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4361	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4362	CPH	HIV	----	----	MT-2	66.40	----	8/23/88
AVS-4363	CPH	HIV	----	----	MT-2	74.10	----	8/23/88
AVS-4364	CPH	HIV	----	----	MT-2	58.10	----	8/23/88
AVS-4365	CPH	HIV	----	6.30	MT-2	22.30	3.53	8/23/88
AVS-4365	CPH	HIV	----	----	MT-2	2.14	----	9/29/88
AVS-4366	CPH	HIV	----	----	MT-2	47.10	----	8/23/88
AVS-4367	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4368	CPH	HIV	----	----	MT-2	71.70	----	8/23/88
AVS-4369	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4370	CPH	HIV	----	----	MT-2	71.50	----	8/23/88
AVS-4371	CPH	HIV	----	----	MT-2	56.70	----	8/23/88
AVS-4372	CPH	HIV	----	----	MT-2	21.00	----	8/23/88
AVS-4373	CPH	HIV	----	----	MT-2	23.00	----	8/23/88
AVS-4374	CPH	HIV	----	----	MT-2	> 100.00	----	8/23/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IDS0	CELL	NTC50	TI	DATE
AVS-4375	CPE	HIV	----	----	MT-2	21.30	----	8/23/88
AVS-4376	CPE	HIV	----	26.10	MT-2	66.80	2.55	8/23/88
AVS-4376	CPE	HIV	----	----	MT-2	> 100.00	----	9/14/88
AVS-4376	CPE	HIV	----	----	MT-2	7.18	----	9/29/88
AVS-4377	CPE	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4377	CPE	HIV	----	----	MT-2	> 100.00	----	9/14/88
AVS-4377	CPE	HIV	----	----	MT-2	> 100.00	----	9/29/88
AVS-4378	CPE	HIV	----	17.60	MT-2	77.50	4.40	8/23/88
AVS-4378	CPE	HIV	----	----	MT-2	48.40	----	9/14/88
AVS-4378	CPE	HIV	----	----	MT-2	> 100.00	----	9/29/88
AVS-4379	CPE	HIV	----	----	MT-2	94.20	----	8/23/88
AVS-4380	CPE	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4381	CPE	HIV	----	----	MT-2	6.62	----	8/23/88
AVS-4382	CPE	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4383	CPE	HIV	----	54.70	MT-2	> 100.00	1.83	8/23/88
AVS-4383	CPE	HIV	----	----	MT-2	> 100.00	----	9/29/88
AVS-4395	CPE	HIV	----	----	MT-2	> 100.00	----	8/23/88
AVS-4397	CPE	HIV	----	1.62	MT-2	17.00	10.50	9/ 7/88
AVS-4397	CPE	HIV	----	3.76	MT-2	32.90	8.76	9/29/88
AVS-4398	CPE	HIV	----	----	MT-2	73.00	----	9/ 7/88
AVS-4399	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4400	CPE	HIV	----	----	MT-2	45.90	----	9/ 7/88
AVS-4401	CPE	HIV	----	----	MT-2	57.40	----	9/ 7/88
AVS-4402	CPE	HIV	----	----	MT-2	70.20	----	9/ 7/88
AVS-4403	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4404	CPE	HIV	----	----	MT-2	21.10	----	9/ 7/88
AVS-4405	CPE	HIV	----	----	MT-2	< 0.10	----	9/ 7/88
AVS-4406	CPE	HIV	----	----	MT-2	21.10	----	9/ 7/88
AVS-4407	CPE	HIV	----	----	MT-2	74.40	----	9/ 7/88
AVS-4408	CPE	HIV	----	----	MT-2	76.80	----	9/ 7/88
AVS-4409	CPE	HIV	----	----	MT-2	21.10	----	9/ 7/88
AVS-4410	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4411	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4412	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4413	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4414	CPE	HIV	----	----	MT-2	61.30	----	9/ 7/88
AVS-4415	CPE	HIV	----	----	MT-2	62.40	----	9/ 7/88
AVS-4416	CPE	HIV	----	----	MT-2	44.00	----	9/ 7/88
AVS-4417	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4418	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4419	CPE	HIV	----	----	MT-2	24.60	----	9/ 7/88
AVS-4420	CPE	HIV	----	----	MT-2	68.00	----	9/ 7/88
AVS-4421	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4422	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4423	CPE	HIV	----	----	MT-2	65.70	----	9/ 7/88
AVS-4424	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4425	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4426	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-4427	CPE	HIV	----	----	MT-2	6.62	----	9/ 7/88
AVS-4428	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPONO	PROTOCOL	VIRUS	VA	ID50	CELL	HTC50	T1	DATE
AVS-6429	CPE	HIV	----	----	MT-2	2.11	----	9/ 7/88
AVS-6430	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 7/88
AVS-6431	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 8/88
AVS-6432	CPE	HIV	----	----	MT-2	67.10	----	9/ 8/88
AVS-6433	CPE	HIV	----	----	MT-2	57.60	----	9/ 8/88
AVS-6434	CPE	HIV	----	----	MT-2	25.00	----	9/ 8/88
AVS-6435	CPE	HIV	----	----	MT-2	48.00	----	9/ 8/88
AVS-6436	CPE	HIV	----	----	MT-2	20.80	----	9/ 8/88
AVS-6437	CPE	HIV	----	----	MT-2	0.68	----	9/ 8/88
AVS-6438	CPE	HIV	----	----	MT-2	2.14	----	9/ 8/88
AVS-6439	CPE	HIV	----	----	MT-2	21.10	----	9/ 8/88
AVS-6440	CPE	HIV	----	----	MT-2	20.10	----	9/ 8/88
AVS-6441	CPE	HIV	----	----	MT-2	6.67	----	9/ 8/88
AVS-6442	CPE	HIV	----	----	MT-2	0.69	----	9/ 8/88
AVS-6443	CPE	HIV	----	----	MT-2	26.00	----	9/ 8/88
AVS-6444	CPE	HIV	----	----	MT-2	2.00	----	9/ 8/88
AVS-6445	CPE	HIV	----	----	MT-2	94.60	----	9/ 8/88
AVS-6446	CPE	HIV	----	55.10	MT-2	> 100.00	> 1.81	9/ 8/88
AVS-6446	CPE	HIV	----	26.50	MT-2	> 100.00	> 3.78	9/29/88
AVS-6447	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 8/88
AVS-6448	CPE	HIV	----	----	MT-2	62.80	----	9/ 8/88
AVS-6449	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 8/88
AVS-6450	CPE	HIV	----	----	MT-2	> 100.00	----	9/ 8/88
AVS-6451	CPE	HIV	----	----	MT-2	85.30	----	9/ 8/88
AVS-6452	CPE	HIV	----	----	MT-2	10.50	----	9/ 8/88
AVS-6453	CPE	HIV	----	----	MT-2	14.30	----	11/30/88
AVS-6454	CPE	HIV	----	----	MT-2	6.94	----	11/30/88
AVS-6455	CPE	HIV	----	----	MT-2	92.30	----	11/30/88
AVS-6456	CPE	HIV	----	----	MT-2	16.20	----	11/30/88
AVS-6457	CPE	HIV	----	----	MT-2	71.30	----	11/30/88
AVS-6458	CPE	HIV	----	----	MT-2	8.06	----	11/30/88
AVS-6459	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6460	CPE	HIV	----	----	MT-2	7.90	----	11/30/88
AVS-6461	CPE	HIV	----	----	MT-2	47.10	----	11/30/88
AVS-6462	CPE	HIV	----	----	MT-2	60.10	----	11/30/88
AVS-6463	CPE	HIV	----	----	MT-2	25.20	----	11/30/88
AVS-6464	CPE	HIV	----	----	MT-2	< 0.32	----	11/30/88
AVS-6465	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6466	CPE	HIV	----	----	MT-2	4.71	----	11/30/88
AVS-6468	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6469	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6470	CPE	HIV	----	----	MT-2	5.18	----	11/30/88
AVS-6471	CPE	HIV	----	----	MT-2	6.94	----	11/30/88
AVS-6472	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6473	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6474	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6475	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6476	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-6477	CPE	HIV	----	----	MT-2	11.60	----	11/30/88
AVS-6478	CPE	HIV	----	----	MT-2	70.60	----	11/30/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

CONPOLAD	PROTOCOL	VIRUS	VR	ID50	CELL	NTCSO	TI	DATE
AVS-4479	CPE	HIV	----	----	MT-2	49.10	----	11/30/88
AVS-4480	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-4481	CPE	HIV	----	----	MT-2	0.81	----	11/30/88
AVS-4482	CPE	HIV	----	----	MT-2	14.80	----	11/30/88
AVS-4483	CPE	HIV	----	----	MT-2	23.80	----	11/30/88
AVS-4484	CPE	HIV	----	----	MT-2	6.96	----	11/30/88
AVS-4485	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-4486	CPE	HIV	----	----	MT-2	60.90	----	11/30/88
AVS-4487	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-4488	CPE	HIV	----	----	MT-2	2.04	----	11/30/88
AVS-4489	CPE	HIV	----	----	MT-2	0.63	----	11/30/88
AVS-4490	CPE	HIV	----	----	MT-2	6.23	----	11/30/88
AVS-4491	CPE	HIV	----	----	MT-2	7.30	----	11/30/88
AVS-4492	CPE	HIV	----	----	MT-2	1.19	----	12/ 7/88
AVS-4493	CPE	HIV	----	----	MT-2	9.32	----	12/ 7/88
AVS-4494	CPE	HIV	----	----	MT-2	12.50	----	12/ 7/88
AVS-4495	CPE	HIV	----	----	MT-2	1.66	----	12/ 7/88
AVS-4496	CPE	HIV	----	----	MT-2	23.30	----	12/ 7/88
AVS-4497	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 7/88
AVS-4498	CPE	HIV	----	----	MT-2	1.41	----	12/ 7/88
AVS-4499	CPE	HIV	----	----	MT-2	0.66	----	12/ 7/88
AVS-4500	CPE	HIV	----	----	MT-2	12.20	----	12/ 7/88
AVS-4501	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 7/88
AVS-4502	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 7/88
AVS-4503	CPE	HIV	----	----	MT-2	70.50	----	12/ 7/88
AVS-4504	CPE	HIV	----	----	MT-2	14.40	----	12/ 7/88
AVS-4505	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 7/88
AVS-4506	CPE	HIV	----	----	MT-2	100.00	----	12/ 7/88
AVS-4507	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 7/88
AVS-4508	CPE	HIV	----	----	MT-2	22.70	----	12/ 7/88
AVS-4509	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 7/88
AVS-4510	CPE	HIV	----	----	MT-2	19.40	----	12/ 7/88
AVS-4511	CPE	HIV	----	----	MT-2	48.80	----	12/28/88
AVS-4512	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 7/88
AVS-4513	CPE	HIV	----	----	MT-2	5.69	----	12/ 7/88
AVS-4514	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 7/88
AVS-4515	CPE	HIV	----	----	MT-2	46.90	----	12/ 7/88
AVS-4516	CPE	HIV	----	----	MT-2	2.13	----	12/ 7/88
AVS-4517	CPE	HIV	----	----	MT-2	< 0.32	----	12/ 7/88
AVS-4518	CPE	HIV	----	----	MT-2	26.20	----	12/ 7/88
AVS-4519	CPE	HIV	----	----	MT-2	50.00	----	12/ 7/88
AVS-4520	CPE	HIV	----	----	MT-2	60.70	----	12/ 7/88
AVS-4521	CPE	HIV	----	----	MT-2	10.00	----	12/ 7/88
AVS-4522	CPE	HIV	----	----	MT-2	19.90	----	12/ 7/88
AVS-4523	CPE	HIV	----	----	MT-2	53.90	----	12/ 7/88
AVS-4524	CPE	HIV	----	----	MT-2	21.30	----	12/ 7/88
AVS-4525	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 7/88
AVS-4526	CPE	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4528	CPE	HIV	----	----	MT-2	> 100.00	----	8/16/88
AVS-4529	CPE	HIV	----	----	MT-2	> 100.00	----	8/16/88

SUMMARY OF AIDS TESTING
FOR PERIOD OF 1/1/88 TO 12/31/88

COMPOUND	PROTOCOL	VIRUS	VR	IDS0	CELL	MYC50	T1	DATE
AVS-4530	CPE	HIV	----	----	MT-2	5.05	----	8/16/88
AVS-4594	CPE	HIV	----	----	MT-2	5.79	----	11/17/88
AVS-4596	CPE	HIV	----	----	MT-2	5.24	----	11/30/88
AVS-4595	CPE	HIV	----	----	MT-2	> 100.00	----	11/17/88
AVS-4596	CPE	HIV	----	----	MT-2	> 100.00	----	11/17/88
AVS-4597	CPE	HIV	----	----	MT-2	> 100.00	----	11/17/88
AVS-4599	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-4599	CPE	HIV	----	----	MT-2	> 10.00	----	11/22/88
AVS-4610	CPE	HIV	----	2.68	MT-2	> 100.00	> 37.30	9/29/88
AVS-4611	CPE	HIV	----	3.04	MT-2	> 100.00	> 32.90	9/29/88
AVS-4929	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-4929	CPE	HIV	----	----	MT-2	> 3.20	----	11/22/88
AVS-4930	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-4930	CPE	HIV	----	----	MT-2	> 3.20	----	11/22/88
AVS-4931	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-4931	CPE	HIV	----	----	MT-2	> 3.20	----	11/22/88
AVS-5010	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-5011	CPE	HIV	----	----	MT-2	< 0.32	----	11/ 9/88
AVS-5012	CPE	HIV	----	----	MT-2	14.66	----	11/ 9/88
AVS-5013	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5014	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5015	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5016	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5017	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5018	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5019	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5020	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5021	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5022	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5023	CPE	HIV	----	----	MT-2	> 100.00	----	11/ 9/88
AVS-5024	CPE	HIV	----	23.90	MT-2	> 100.00	> 1.57	11/ 9/88
AVS-5024	CPE	HIV	----	21.50	MT-2	55.70	2.59	11/22/88
AVS-5027	CPE	HIV	----	----	MT-2	6.17	----	11/ 9/88
AVS-5040	CPE	HIV	----	----	MT-2	70.40	----	12/ 9/88
AVS-5041	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-5042	CPE	HIV	----	----	MT-2	> 100.00	----	12/ 9/88
AVS-5043	CPE	HIV	----	----	MT-2	51.80	----	9/23/88
AVS-5043	CPE	HIV	----	----	MT-2	5.01	----	11/ 9/88
AVS-5048	CPE	HIV	----	----	MT-2	> 100.00	----	11/22/88
AVS-5073	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-5074	CPE	HIV	----	----	MT-2	> 100.00	----	11/30/88
AVS-5535	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-5536	CPE	HIV	----	----	MT-2	> 100.00	----	4/ 6/88
AVS-7232	CPE	HIV	----	----	MT-2	55.30	----	11/ 9/88

APPENDIX A

Part II - Summary of AIDS Testing for
Period of 1/1/89 to 4/30/91

Cumulative Summary of AIDS Testing with AVS Compounds
January 1, 1989 - April 30, 1991

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-mtl.	IC 50	TC 25	SI	TAI
0001	52	009 MT2	08/01/89	1.238	0.00	8.06	0.00 >	3.74
0002	46	00F MT2	08/08/89	1.242	0.00	35.20	0.00	5.85
0065	53	00T MT2	05/24/89	1.329	0.00	2.90	0.00	0.00
0094	65	111 CEM	07/17/90	1.330	0.00 >	100.00	0.00	1.65
0094	68	11J CEM	02/01/90	0.912	0.00	40.70	0.00 >	3.81
0094	65	11R MT2	04/12/90	1.104	0.00 >	100.00	0.00 >	6.82
0095	53	00T AT2	05/24/89	1.329	0.00	10.80	0.00	0.82
0095	46	00F MT2	08/08/89	1.242	0.00	56.00	0.00	0.75
0124	69	125 MT2	08/09/90	1.136	0.00 >	100.00	0.00 >	3.90
0141	53	00U MT2	05/24/89	1.385	0.00 <	0.32	0.00	0.00
0141	53	101 MT2	10/25/89	1.360	0.00	0.01	0.00 >	0.01
0141	65	11R MT2	04/12/90	1.104	0.00 >	100.00	0.00	0.00
0148	67	20A	08/07/90	1.163	0.00 <	0.32	0.00	0.00
0148	67	106 MT2	07/24/90	1.298	0.00 <	0.32	0.00	0.00
0217	61	10A MT2	10/31/89	1.473	0.00 >	100.00	0.00 >	7.41
0223	53	00L MT2	05/24/89	1.385	0.00 >	100.00	0.00 >	0.89
0275	44	00G MT2	08/08/89	1.254	0.00 >	100.00	0.00 >	0.79
0253	52	009 MT2	03/01/89	1.238	0.00	0.55	0.00	0.00
0286	32	043 MT2	12/21/88	1.054	0.00 <	0.32	0.00	0.00
0303	44	00G MT2	08/05/89	1.254	0.00	0.62	0.00	0.00
0303	62	172 MT2	01/24/90	1.207	0.00	1.78	0.00	0.00
0581	68	11J CEM	08/01/90	0.912	26.30	48.50	1.85	8.88
0581	65	11R MT2	04/12/90	1.117	17.60	15.60	0.89	1.49
0584	68	11X CEM	08/01/90	1.052	0.00 >	100.00	0.00 >	19.50
0584	65	11R MT2	04/12/90	1.117	0.00 >	100.00	0.00 >	0.31
0599	61	111 CEM	07/17/90	1.330	0.00 >	100.00	0.00 >	4.66
0599	68	11X CEM	08/01/90	1.052	0.00 >	100.00	0.00 >	27.70
0599	61	108 MT2	10/31/89	1.394	0.00 >	100.00	0.00 >	1.67
0599	65	11T MT2	04/12/90	1.124	0.00 >	100.00	0.00 >	3.56
0600	65	11R CEM	07/05/90	1.134	0.00	77.30	0.00	1.41
0600	65	11V CEM	07/19/90	0.649	0.00 >	100.00	0.00 >	3.96
0600	65	11T MT2	04/12/90	1.124	0.00 >	100.00	0.00 >	1.90
0646	67	106 MT2	07/24/90	1.298	0.00	1.90	0.00 >	1.66
0697	68	40N CEM	02/20/91	0.787	0.00 >	100.00	0.00	0.43
0697	65	11U MT2	04/12/90	1.102	0.00 >	100.00	0.00	0.00
0497	68	40C MT2	02/20/91	1.443	0.00 >	100.00	0.00	0.00
0698	68	10R CEM	08/01/90	1.007	72.20	100.00	1.38	27.37
0698	65	11U MT2	04/12/90	1.102	0.00 >	100.00	0.00	0.00
0700	68	10R CEM	08/01/90	1.007	0.00	69.80	0.00 >	24.73
0700	65	11V MT2	04/12/90	1.130	78.40	53.50	0.68	0.47
0702	65	11R CEM	07/05/90	1.134	4.28	100.00	23.36	53.89
0702	73	38M CEM	12/06/90	0.627	4.43	100.00	22.56	53.09
0702	75	34D CEM	01/04/91	1.376	51.70	1000.0	19.34	51.31
0702	68	40N CEM	02/20/91	0.787	20.10	0.32	0.02	26.25
0702	65	11V MT2	04/12/90	1.130	0.00 >	100.00	0.00 >	0.05
0702	75	38A MT2	12/06/90	0.728	16.50	100.00	6.07	22.73
0702	68	40C MT2	02/20/91	1.443	17.30	100.00	5.77	32.24
0703	75	38M CEM	12/06/90	0.627	2.05	0.28	0.13	45.29
0703	75	34D CEM	01/04/91	1.376	19.60	45.20	2.31	26.77
0703	75	38A MT2	12/06/90	0.728	2.32	100.00	43.05	49.65
0708	61	108 MT2	10/31/89	1.394	0.00	14.00	0.00	1.32
0708	65	11J MT2	04/18/90	1.187	0.00	34.70	0.00	1.35
0709	65	11T CEM	07/05/90	1.211	20.40	100.00	4.90	22.97
0709	68	40T CEM	02/20/91	0.715	22.60	100.00	4.43	27.62
0709	30	01R MT2	11/22/88	1.770	0.00	84.00	0.00	11.13
0709	65	11J MT2	04/18/90	1.167	0.00	100.00	0.00	1.70
0709	68	40D MT2	02/20/91	1.444	13.70	100.00	7.29	33.98
0710	68	11X CEM	08/01/90	0.902	21.70	55.00	2.53	18.62
0710	65	11G MT2	04/18/90	1.088	0.00	14.90	0.00	1.85
0712	68	11G CEM	08/01/90	0.902	6.84	100.00	14.62	41.91
0712	65	11G MT2	04/18/90	1.088	0.00	100.00	0.00	0.20
0714	65	11J CEM	07/17/90	1.336	0.00	100.00	0.00	10.50
0714	68	11P CEM	08/01/90	0.968	44.50	100.00	2.24	32.13
0714	65	11H MT2	04/18/90	1.005	0.00	50.20	0.00	0.55
0801	68	11G MT2	07/31/90	1.054	0.00 <	0.32	0.00	0.00
0801	68	21K MT2	08/16/90	1.321	0.00 >	1.00	0.00 >	1.10
0919	52	00A MT2	08/01/89	1.248	0.00	61.70	0.00	0.20
1005	64	11X MT2	04/10/90	0.991	0.00	15.50	0.00	0.00
1009	64	11X MT2	04/10/90	0.991	0.00	1.52	0.00	0.00
1017	64	11V CEM	04/25/90	0.554	14.10	100.00	7.10	43.52
1017	64	11T CEM	07/05/90	1.211	0.00 >	100.00	0.00 >	9.35
1017	64	11Y MT2	04/10/90	1.060	0.00 >	100.00	0.00 >	0.03
1028	64	11V CEM	04/25/90	0.554	0.00 >	100.00	0.00 >	33.91
1028	68	11P CEM	08/01/90	0.968	0.00	60.70	0.00	4.92
1028	64	11Y MT2	04/10/90	1.060	0.00 >	100.00	0.00 >	0.55
1116	45	039 MT2	12/01/88	2.072	0.00 >	100.00	0.00 >	7.71

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-rcnt.	IG 50	TC 25	SI	TAI	
1117	45	039	NT2	12/01/88	2.072	0.00	> 100.00	0.00	0.88
1159	52	06A	NT2	08/01/89	1.248	0.00	> 36.80	0.00	0.00
1176	46	06H	NT2	08/08/89	1.206	0.00	> 100.00	0.00	0.70
1210	61	10C	NT2	10/31/89	1.376	0.00	> 53.80	0.00	1.83
1214	52	06B	NT2	08/01/89	1.219	0.00	> 2.76	0.00	0.00
1215	53	06V	NT2	05/24/89	1.308	0.00	> 10.00	0.00	0.49
1217	52	06B	NT2	08/01/89	1.219	0.00	> 49.20	0.00	0.40
1297	64	1K9	CEN	04/26/90	0.647	0.00	> 100.00	0.00	13.01
1297	64	1KZ	NT2	04/10/90	0.841	0.00	> 100.00	0.00	4.41
1307	67	1U7	NT2	07/24/90	1.252	0.00	> 18.30	0.00	1.20
1308	67	206	CEN	08/07/90	1.178	0.00	> 87.00	0.00	1.45
1308	67	1U7	NT2	07/24/90	1.252	0.00	> 100.00	0.00	0.30
1315	67	400	CEN	02/20/91	0.715	0.00	> 96.40	0.00	7.06
1515	67	400	NT2	02/20/91	1.466	10.00	> 100.00	> 10.00	31.19
1337	64	1R0	CEN	07/05/90	1.164	0.00	> 49.90	0.00	3.40
1337	64	1K0	CEN	08/01/90	1.038	0.00	> 23.20	0.00	1.23
1337	65	1JH	NT2	04/18/90	1.005	0.00	> 51.30	0.00	1.10
1355	64	1K9	CEN	04/26/90	0.647	0.00	> 100.00	0.00	12.90
1355	64	1KZ	NT2	04/10/90	0.841	0.00	> 74.50	0.00	7.42
1356	64	1TJ	CEN	07/17/90	1.334	0.00	< 0.32	0.00	0.00
1356	64	110	NT2	04/10/90	1.034	0.00	< 0.32	0.00	0.00
1356	64	1JH	NT2	04/24/90	1.048	0.00	< 0.06	0.00	1.86
1371	45	03A	NT2	12/01/88	1.982	0.00	> 100.00	0.00	0.00
1372	45	03A	NT2	12/01/88	1.982	0.00	> 22.80	0.00	0.00
1381	45	03B	NT2	12/01/88	2.017	0.00	> 53.30	0.00	0.77
1603		140	CEN	12/07/89	0.827	< 0.03	> 10.00	> 312.50	> 74.18
1603		103	CEN	02/22/90	0.880	< 0.03	> 10.00	> 312.50	> 64.11
1603		10L	CEN	03/02/90	0.696	0.00	> 10.00	> 0.00	> 82.40
1603		1FM	CEN	03/20/90	1.335	0.00	> 0.10	> 0.00	> 13.90
1603		1FM	CEN	03/20/90	1.315	0.00	> 0.10	> 0.00	> 14.20
1603		105	CEN	03/21/90	1.478	< 0.03	> 10.00	> 312.50	> 86.01
1603		1KX	CEN	04/01/90	0.949	< 0.03	> 10.00	> 312.50	> 82.82
1603		11K	CEN	04/12/90	0.611	< 0.03	> 10.00	> 312.50	> 93.30
1603		1JC	CEN	04/18/90	0.989	< 0.03	> 10.00	> 312.50	> 78.90
1603		1K8	CEN	04/26/90	0.700	< 0.03	> 10.00	> 312.50	> 88.88
1603		1M1	CEN	05/10/90	1.414	< 0.03	> 10.00	> 312.50	> 74.00
1603		1M8	CEN	05/16/90	1.386	< 0.03	> 10.00	> 312.50	> 64.82
1603		104	CEN	06/12/90	1.057	< 0.03	> 10.00	> 312.50	> 63.73
1603		10U	CEN	04/26/90	1.455	< 0.09	> 10.00	> 104.02	> 75.95
1603		18P	CEN	07/05/90	1.044	< 0.03	> 10.00	> 312.50	> 91.00
1603		17N	CEN	07/17/90	1.414	< 0.01	> 1.00	> 111.03	> 32.00
1603		10U	CEN	07/19/90	0.723	0.0004	> 1.00	> 2682.7	> 58.00
1603		1YL	CEN	07/24/90	0.840	0.002	> 1.00	> 477.06	> 46.70
1603		1X1	CEN	08/01/90	0.880	0.02	> 1.00	> 53.32	> 35.60
1603		179	CEN	08/02/90	0.778	0.002	> 1.00	> 353.22	> 51.70
1603		21X	CEN	08/14/90	0.824	0.01	> 1.00	> 127.11	> 42.90
1603		22N	CEN	08/15/90	1.045	0.01	> 1.00	> 86.60	> 34.40
1603		239	CEN	08/18/90	0.800	0.003	> 1.00	> 330.55	> 49.50
1603		248	CEN	08/21/90	0.696	0.002	> 1.00	> 446.68	> 49.75
1603		26J	CEN	08/29/90	0.771	0.01	> 1.00	> 133.35	> 33.47
1603		28T	CEN	09/04/90	0.933	0.003	> 1.00	> 332.44	> 47.10
1603		296	CEN	09/05/90	1.300	0.0006	> 1.00	> 1676.8	> 50.50
1603		27J	CEN	09/06/90	0.838	0.01	> 1.00	> 146.78	> 23.60
1603		2AU	CEN	09/11/90	0.899	0.01	> 1.00	> 167.88	> 41.60
1603		28M	CEN	09/25/90	0.744	< 0.03	> 5.47	> 177.27	> 72.67
1603		2EX	CEN	09/27/90	0.868	< 0.03	> 2.35	> 75.56	> 63.87
1603		2M4	CEN	10/02/90	0.672	< 0.00	> 1.00	> 0.00	> 86.30
1603		211	CEN	10/03/90	0.277	< 0.00	> 1.00	> 0.00	> 100.00
1603		20K	CEN	10/05/90	0.701	< 0.00	> 0.80	> 0.00	> 81.80
1603		107	CEN	10/17/90	2.01	> 0.027	> 0.00057	> 47.12	> 54.49
1603		2VA	CEN	10/30/90	0.955	0.002	> 1.00	> 825.36	> 45.80
1603		20N	CEN	10/31/90	1.148	0.03	> 0.15	> 4.71	> 16.69
1603		22X	CEN	11/01/90	1.207	0.002	> 1.00	> 410.67	> 48.61
1603		31P	CEN	11/02/90	0.937	0.0006	> 1.00	> 1454.6	> 52.83
1603		26W	CEN	11/06/90	0.776	0.003	> 1.00	> 367.74	> 50.48
1603		223	CEN	11/07/90	1.074	0.002	> 1.00	> 489.39	> 49.60
1603		312	CEN	11/08/90	1.041	0.001	> 1.00	> 715.61	> 59.60
1603		330	CEN	11/09/90	1.311	0.001	> 1.00	> 954.55	> 49.98
1603		340	CEN	11/13/90	0.902	0.004	> 1.00	> 241.12	> 38.26
1603		35L	CEN	11/14/90	0.581	0.0003	> 1.00	> 3366.6	> 66.30
1603		34M	CEN	11/20/90	0.751	0.0006	> 0.00007	> 0.01	> 61.85
1603		370	CEN	11/21/90	0.720	0.0009	> 1.00	> 1055.0	> 62.00
1603		38A	CEN	11/27/90	1.146	0.002	> 1.00	> 444.30	> 45.03
1603		39E	CEN	11/29/90	1.490	0.001	> 1.00	> 811.63	> 56.60
1603		3AA	CEN	11/30/90	1.349	0.002	> 0.69	> 297.03	> 36.51
1603		38M	CEN	12/04/90	0.641	0.0002	> 1.00	> 5914.7	> 75.60
1603		30I	CEN	12/11/90	0.910	0.0004	> 1.00	> 2054.0	> 60.80
1603		30T	CEN	12/12/90	1.286	0.0009	> 1.00	> 1094.5	> 51.90

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
1603	3E8	CEM		12/13/90	1.299	0.0007	1.00	1514.7	48.30
1603	3F8	CEM		12/20/90	1.182	0.001	1.00	878.32	58.40
1603	3AC	CEM		01/04/91	1.328	0.0005	1.00	1980.5	56.60
1603	314	CEM		01/08/91	0.725	0.00	1.00	0.00	88.70
1603	3J4	CEM		01/09/91	0.801	0.001	1.00	681.29	40.75
1603	3L7	CEM		01/11/91	0.665	0.0002	1.00	5434.2	76.20
1603	3M6	CEM		01/17/91	0.600	0.01	1.00	164.56	38.79
1603	3M7	CEM		01/18/91	0.958	0.0005	1.00	1975.9	53.87
1603	3OM	CEM		01/21/91	0.681	0.0002	1.00	6309.4	73.00
1603	42J	CEM		01/22/91	0.758	0.0008	1.00	1186.0	50.27
1603	439	CEM		01/22/91	0.762	0.0006	1.00	1747.5	55.16
1603	413	CEM		01/23/91	0.970	0.0004	1.00	2238.7	67.20
1603	45F	CEM		01/23/91	1.145	0.0008	1.00	1279.8	58.40
1603	46V	CEM		01/24/91	0.884	0.0005	1.00	2118.8	45.50
1603	3AD	CEM		01/24/91	0.858	0.0005	1.00	2118.8	65.50
1603	3Y9	CEM		01/25/91	1.368	0.002	1.00	609.49	41.09
1603	47N	CEM		01/29/91	0.813	0.00	1.00	0.00	63.40
1603	48L	CEM		01/31/91	0.962	0.0001	1.00	6918.3	59.40
1603	49M	CEM		02/05/91	1.238	0.002	1.00	538.21	48.98
1603	4A1	CEM		02/08/91	0.988	0.0003	1.00	3074.7	65.86
1603	4CM	CEM		02/20/91	0.758	0.0007	1.00	1420.8	48.46
1603	4B7	CEM		02/21/91	0.392	0.001	1.00	750.89	42.60
1603	46V	CEM		02/22/91	0.515	0.0001	1.00	8347.7	62.53
1603	019	MT2		11/22/88	1.522	0.03	10.00	313.00	84.53
1603	021	MT2		11/22/88	1.758	0.03	10.00	313.00	96.64
1603	020	MT2		11/22/88	1.722	0.03	10.00	313.00	66.94
1603	029	MT2		11/29/88	1.823	0.03	4.02	126.00	72.55
1603	02Y	MT2		11/29/88	1.279	0.03	6.92	212.00	76.79
1603	038	MT2		12/01/88	1.577	0.03	10.00	313.00	71.32
1603	03M	MT2		12/01/88	1.827	0.03	10.00	313.00	82.24
1603	04J	MT2		12/21/88	1.101	0.11	10.00	93.60	77.17
1603	04J	MT2		12/21/88	1.012	0.17	10.00	57.30	72.82
1603	04Y	MT2		01/16/89	0.610	0.04	10.00	224.00	86.85
1603	05A	MT2		02/01/89	0.961	0.03	10.00	313.00	93.21
1603	05W	MT2		02/07/89	0.777	0.03	1.87	56.90	40.88
1603	06Z	MT2		02/14/89	0.879	0.03	6.98	218.00	75.54
1603	07B	MT2		02/15/89	0.816	0.03	6.71	216.00	79.59
1603	089	MT2		02/23/89	1.072	0.03	10.00	313.00	91.02
1603	091	MT2		03/16/89	1.252	0.23	7.59	32.90	51.28
1603	081	MT2		03/28/89	1.530	0.13	10.00	77.20	68.53
1603	087	MT2		03/28/89	1.427	0.05	10.00	210.00	78.07
1603	0AF	MT2		03/29/89	1.212	0.17	10.00	59.40	65.06
1603	0AG	MT2		03/29/89	1.207	0.46	10.00	21.60	52.35
1603	0AS	MT2		03/30/89	1.173	0.21	10.00	68.50	67.14
1603	0BK	MT2		04/06/89	1.313	0.14	10.00	72.60	77.64
1603	0BO	MT2		04/06/89	1.372	0.68	10.00	14.80	34.42
1603	0CM	MT2		04/11/89	1.798	0.16	10.00	61.60	62.71
1603	0FC	MT2		05/09/89	0.998	0.54	10.00	18.50	51.20
1603	0FD	MT2		05/09/89	1.087	0.51	10.00	19.60	47.42
1603	0FO	MT2		05/09/89	1.235	0.59	8.30	14.20	35.71
1603	0F1	MT2		05/10/89	0.912	0.28	9.43	34.30	53.71
1603	0G2	MT2		05/10/89	1.175	0.17	10.00	58.30	68.53
1603	0FU	MT2		05/11/89	1.603	0.06	10.00	168.00	82.95
1603	0FY	MT2		05/11/89	1.268	0.06	10.00	154.30	85.75
1603	0AM	MT2		05/15/89	1.347	0.11	10.00	92.00	78.84
1603	0M1	MT2		05/16/89	1.135	0.14	10.00	70.10	76.25
1603	0M5	MT2		05/16/89	1.136	0.14	10.00	70.90	76.35
1603	0G7	MT2		05/17/89	1.274	0.58	10.00	17.30	46.51
1603	0G2	MT2		05/17/89	1.317	0.57	10.00	17.50	47.11
1603	014	MT2		05/17/89	1.029	0.38	10.00	26.10	57.51
1603	018	MT2		05/22/89	1.222	0.08	10.00	123.00	74.94
1603	010	MT2		05/22/89	1.149	0.07	10.00	138.00	83.24
1603	0M9	MT2		05/23/89	1.085	0.24	10.00	41.80	67.14
1603	0J2	MT2		05/23/89	1.107	0.52	10.00	19.11	47.92
1603	0M4	MT2		05/24/89	1.345	0.14	10.00	70.50	64.95
1603	0M8	MT2		05/24/89	1.423	0.13	10.00	75.30	68.56
1603	011	MT2		05/24/89	1.528	0.16	10.00	64.20	64.45
1603	0M0	MT2		06/20/89	1.186	0.16	10.00	63.28	71.12
1603	0L0	MT2		06/20/89	1.150	0.07	10.00	134.27	75.65
1603	0L9	MT2		06/20/89	1.091	0.07	10.00	144.33	76.35
1603	0L8	MT2		06/20/89	1.094	0.07	10.00	144.33	75.35
1603	0LW	MT2		06/21/89	1.151	0.11	2.15	19.26	47.48
1603	0L6	MT2		06/22/89	1.448	0.12	10.00	87.07	77.24
1603	0M6	MT2		06/27/89	1.169	0.12	10.00	81.08	74.74
1603	0M2	MT2		06/28/89	1.277	0.12	10.00	80.76	72.13
1603	0M3	MT2		06/28/89	1.183	0.12	10.00	83.02	76.24
1603	0M1	MT2		07/05/89	1.520	0.30	10.00	32.81	62.72
1603	0M3	MT2		07/05/89	1.489	0.33	10.00	30.78	59.02

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
1603	006	MT2		07/10/89	1.168	0.14	10.00	72.84	70.92
1603	00J	MT2		07/10/89	1.105	0.15	10.00	66.33	74.13
1603	001	MT2		07/19/89	0.892	0.10	10.00	96.22	78.05
1603	007	MT2		07/20/89	1.235	0.12	10.00	80.94	73.33
1603	00P	MT2		07/25/89	0.760	0.07	10.00	137.25	84.63
1603	00L	MT2		07/25/89	1.016	0.15	10.00	65.70	74.33
1603	00O	MT2		07/25/89	0.954	0.20	10.00	49.02	70.72
1603	00V	MT2		07/26/89	0.910	0.07	10.00	139.42	75.89
1603	007	MT2		07/26/89	1.168	0.17	10.00	59.14	65.54
1603	00O	MT2		07/26/89	1.152	0.17	10.00	59.14	67.58
1603	00Z	MT2		08/01/89	1.166	0.13	10.00	79.84	77.54
1603	002	MT2		08/01/89	1.175	0.13	10.00	73.36	71.73
1603	006	MT2		08/01/89	1.145	0.14	10.00	72.59	71.53
1603	00A	MT2		08/01/89	1.204	0.08	7.45	95.97	79.37
1603	00I	MT2		08/03/89	1.030	0.14	10.00	71.03	75.23
1603	00L	MT2		08/03/89	1.047	0.14	10.00	71.41	70.63
1603	00E	MT2		08/08/89	1.192	0.06	6.90	119.81	80.58
1603	00O	MT2		08/08/89	1.247	0.03	10.00	312.50	87.23
1603	006	MT2		08/08/89	1.227	0.03	10.00	312.50	83.13
1603	00B	MT2		08/08/89	1.635	0.12	10.00	86.15	74.32
1603	00C	MT2		08/08/89	1.407	0.11	10.00	91.84	75.22
1603	00D	MT2		08/08/89	1.445	0.05	10.00	198.11	78.42
1603	00E	MT2		08/08/89	1.505	1.76	30.40	17.28	58.70
1603	00Y	MT2		08/09/89	1.644	0.05	10.00	200.08	74.32
1603	00K	MT2		08/09/89	1.300	0.05	10.00	191.77	70.84
1603	00M	MT2		08/09/89	1.205	0.05	10.00	205.37	77.85
1603	00P	MT2		08/09/89	1.094	0.05	10.00	207.09	81.65
1603	002	MT2		08/17/89	1.450	0.13	10.00	77.47	74.43
1603	00O	MT2		08/17/89	1.343	0.09	10.00	115.31	66.54
1603	00P	MT2		08/17/89	1.514	0.15	10.00	67.30	73.34
1603	00Q	MT2		08/17/89	1.389	0.32	53.30	165.59	82.68
1603	00X	MT2		08/22/89	1.562	0.11	6.91	62.87	67.76
1603	00R	MT2		08/23/89	0.973	0.07	10.00	135.90	84.06
1603	00Z	MT2		08/23/89	1.354	0.10	10.00	95.07	80.24
1603	00I	MT2		08/23/89	1.343	0.07	6.98	106.54	78.88
1603	00O	MT2		08/24/89	1.174	0.09	10.00	110.91	79.83
1603	00Y	MT2		08/24/89	1.157	0.14	10.00	70.89	77.62
1603	002	MT2		08/24/89	0.959	0.12	10.00	85.18	77.13
1603	007	MT2		08/24/89	0.964	0.12	10.00	86.69	76.43
1603	00T	MT2		08/24/89	1.312	0.04	3.20	76.07	60.23
1603	00V	MT2		08/30/89	1.255	0.39	10.00	34.09	59.62
1603	00W	MT2		08/30/89	1.237	0.29	10.00	34.71	59.02
1603	004	MT2		08/31/89	1.201	0.06	10.00	180.28	84.84
1603	00E	MT2		09/07/89	1.712	0.17	10.00	60.12	72.14
1603	00I	MT2		09/07/89	1.743	0.17	10.00	59.47	71.84
1603	005	MT2		10/10/89	1.582	0.27	10.00	36.76	58.79
1603	00X	MT2		10/11/89	1.068	0.21	10.00	48.58	60.42
1603	00V	MT2		10/12/89	1.177	0.15	10.00	68.71	70.84
1603	00Y	MT2		10/12/89	1.407	0.21	10.00	48.29	66.21
1603	00Z	MT2		10/12/89	1.380	0.17	10.00	58.20	66.91
1603	003	MT2		10/12/89	1.279	0.15	10.00	65.00	72.22
1603	009	MT2		10/17/89	1.278	0.16	10.00	62.05	73.73
1603	00C	MT2		10/17/89	1.202	0.15	10.00	67.86	75.33
1603	00W	MT2		10/25/89	1.423	0.16	10.00	54.14	73.43
1603	100	MT2		10/25/89	1.411	0.15	10.00	66.65	73.03
1603	104	MT2		10/26/89	1.275	0.10	10.00	102.96	69.10
1603	101	MT2		10/26/89	1.231	0.11	10.00	93.89	69.00
1603	029	MT2		10/31/89	1.458	0.41	10.00	24.37	57.51
1603	109	MT2		10/31/89	1.441	0.32	10.00	31.25	63.52
1603	10M	MT2		11/02/89	1.244	0.14	10.00	70.92	75.24
1603	111	MT2		11/02/89	1.322	1.55	10.00	6.44	28.75
1603	112	MT2		11/07/89	1.330	0.16	10.00	61.59	70.13
1603	114	MT2		11/07/89	1.329	0.16	10.00	61.59	70.92
1603	110	MT2		11/07/89	1.316	0.17	10.00	59.23	71.02
1603	111	MT2		11/07/89	1.307	0.16	10.00	61.13	70.62
1603	12F	MT2		11/08/89	0.908	0.06	10.00	156.06	86.16
1603	129	MT2		11/13/89	1.076	0.12	10.00	80.54	77.83
1603	130	MT2		11/21/89	1.488	0.11	10.00	58.59	78.72
1603	13E	MT2		11/28/89	1.576	0.14	10.00	72.55	66.33
1603	13K	MT2		11/30/89	1.347	0.09	10.00	106.18	54.54
1603	141	MT2		11/30/89	1.050	0.03	10.00	293.83	91.04
1603	14E	MT2		12/05/89	1.328	0.12	10.00	80.94	73.75
1603	14C	MT2		12/05/89	1.346	0.13	10.00	75.30	67.54
1603	149	MT2		12/05/89	1.383	0.13	10.00	74.77	67.05
1603	147	MT2		12/05/89	1.376	0.13	10.00	74.77	68.15
1603	14L	MT2		12/07/89	1.092	0.03	10.00	312.50	96.33
1603	148	MT2		12/14/89	1.353	0.11	10.00	90.18	80.04
1603	15E	MT2		12/20/89	1.309	0.06	10.00	160.24	62.94

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit Cell # Line	Test Date	Diff- rnt..	TC 50	TC 25	SI	IAI
1603		153 HT2	12/20/89	1.358	0.07	10.00	143.31	71.72
1603		154 HT2	01/04/90	1.380	0.07	10.00	152.16	83.74
1603		15T HT2	01/17/90	1.106	0.05	10.00	190.41	86.15
1603		16V HT2	01/23/90	1.200	0.07	4.92	65.38	68.79
1603		167 HT2	01/23/90	1.192	0.05	5.74	116.95	74.33
1603		171 HT2	01/24/90	1.256	0.09	1.55	16.72	42.20
1603		160 HT2	01/24/90	1.313	0.07	1.55	22.64	45.51
1603		17J HT2	01/30/90	0.922	0.07	10.00	149.11	35.47
1603		181 HT2	01/30/90	1.184	0.04	5.01	126.62	73.31
1603		186 HT2	01/30/90	0.874	0.13	10.00	78.87	74.94
1603		17U HT2	01/31/90	1.206	0.07	10.00	147.80	82.75
1603		19M HT2	02/01/90	1.234	0.05	10.00	184.12	86.74
1603		180 HT2	02/01/90	1.269	0.08	10.00	127.94	81.44
1603		19J HT2	02/06/90	1.114	0.16	10.00	62.08	74.03
1603		18X HT2	02/06/90	1.016	0.14	10.00	73.15	74.44
1603		19N HT2	02/07/90	1.177	0.22	10.00	44.70	66.53
1603		193 HT2	02/07/90	1.181	0.17	10.00	57.84	72.43
1603		1A1 HT2	02/08/90	1.252	0.20	10.00	49.26	68.31
1603		19W HT2	02/08/90	1.279	0.14	10.00	70.85	74.23
1603		1AW HT2	02/13/90	1.092	0.37	10.00	26.71	65.11
1603		1A3 HT2	02/13/90	1.112	0.36	10.00	27.66	64.42
1603		1BL HT2	02/14/90	1.041	0.12	10.00	86.47	78.43
1603		1B2 HT2	02/14/90	1.166	0.10	10.00	103.51	77.34
1603		1B2 HT2	02/20/90	1.200	0.10	10.00	95.42	80.75
1603		1B8 HT2	02/20/90	1.136	0.07	10.00	143.31	84.25
1603		1CM HT2	02/27/90	1.112	0.07	10.00	140.75	84.45
1603		10E HT2	02/27/90	1.187	0.14	10.00	74.21	74.84
1603		12S HT2	02/28/90	1.173	0.10	10.00	95.62	81.74
1603		15S HT2	03/01/90	1.004	0.05	10.00	195.02	86.84
1603		10K HT2	03/02/90	1.323	0.03	10.00	393.18	54.83
1603		1EQ HT2	03/06/90	1.160	0.13	10.00	76.46	76.84
1603		10Y HT2	03/06/90	1.233	0.14	10.00	72.82	76.44
1603		1E4 HT2	03/07/90	1.203	0.15	10.00	66.56	70.24
1603		1EA HT2	03/08/90	1.325	0.14	10.00	74.15	75.13
1603		1FD HT2	03/13/90	1.241	0.26	10.00	38.57	65.32
1603		1FG HT2	03/15/90	1.136	0.13	10.00	74.77	74.83
1603		100 HT2	03/17/90	1.239	0.12	10.00	81.99	73.94
1603		1FZ HT2	03/20/90	1.054	0.15	10.00	64.65	71.54
1603		1G7 HT2	03/21/90	1.051	0.21	10.00	66.56	67.24
1603		1GS HT2	03/28/90	1.288	0.47	9.27	19.68	51.53
1603		1HM HT2	03/28/90	1.347	0.47	10.00	21.10	53.00
1603		1KX HT2	04/04/90	1.263	0.35	10.00	28.65	53.57
1603		1HW HT2	04/10/90	1.022	0.12	10.00	54.97	72.55
1603		11Q HT2	04/12/90	1.109	0.11	10.00	89.79	81.43
1603		1JE HT2	04/18/90	1.089	0.34	10.00	29.26	65.82
1603		1J0 HT2	04/24/90	0.891	0.32	10.00	31.25	58.37
1603		1JK HT2	04/24/90	0.927	0.34	10.00	29.23	58.46
1603		1L6 HT2	05/02/90	1.141	0.18	10.00	55.21	70.62
1603		1KY HT2	05/02/90	1.166	0.29	10.00	33.87	57.02
1603		1L1 HT2	05/03/90	1.254	0.15	10.00	64.65	72.63
1603		1LC HT2	05/03/90	1.261	0.13	10.00	79.24	77.34
1603		1K2 HT2	05/08/90	1.051	0.21	10.00	44.34	70.82
1603		1LY HT2	05/09/90	1.088	0.12	10.00	81.58	77.03
1603		1LW HT2	05/09/90	1.079	0.12	10.00	83.62	77.63
1603		1MM HT2	05/10/90	1.022	0.34	10.00	28.97	51.42
1603		1LU HT2	05/10/90	0.905	0.20	10.00	49.02	68.92
1603		1LR HT2	05/10/90	1.004	0.23	10.00	44.10	63.72
1603		1ND HT2	05/10/90	0.825	0.18	10.00	53.24	70.63
1603		1M7 HT2	05/15/90	0.993	0.15	10.00	67.86	73.64
1603		1M8 HT2	05/15/90	0.933	0.15	10.00	55.61	75.04
1603		1MF HT2	05/16/90	1.033	0.12	10.00	62.70	78.14
1603		1M1 HT2	05/16/90	1.073	0.22	10.00	45.12	70.02
1603		108 HT2	05/22/90	1.037	0.13	10.00	77.94	79.83
1603		1OM HT2	05/24/90	1.261	0.10	10.00	100.30	79.24
1603		106 HT2	05/24/90	1.141	0.08	10.00	118.64	82.73
1603		101 HT2	05/24/90	1.192	0.10	10.00	100.00	81.73
1603		1OK HT2	05/30/90	1.063	0.15	10.00	96.33	69.83
1603		1OE HT2	05/30/90	1.072	0.15	10.00	67.86	68.63
1603		1PB HT2	06/05/90	0.948	0.19	10.00	53.78	71.92
1603		1P1 HT2	06/06/90	1.004	0.11	10.00	90.64	80.13
1603		1PG HT2	06/06/90	0.986	0.11	10.00	91.28	81.24
1603		1PE HT2	06/06/90	1.017	0.11	10.00	90.76	80.83
1603		1PM HT2	06/07/90	1.118	0.13	10.00	79.76	76.63
1603		1PT HT2	06/12/90	0.932	0.14	10.00	71.03	69.80
1603		1QA HT2	06/24/90	0.934	0.10	10.00	96.07	77.53
1603		1QH HT2	06/27/90	1.077	0.07	10.00	142.77	83.15
1603		1QG HT2	06/27/90	1.050	0.09	10.00	117.02	70.97
1603		1Q0 HT2	06/28/90	1.156	0.12	10.00	86.69	80.83

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit Cell # Line	Test Date	Diff-entl.	IC 50	IC 25	\$I	TAI
1603		19M NT2	06/28/90	0.981	0.35	10.00	28.72	68.73
1603		19O NT2	07/03/90	1.008	0.14	10.00	73.50	74.83
1603		19P NT2	07/03/90	1.188	0.21	10.00	43.36	63.02
1603		19S NT2	07/11/90	1.086	0.27	10.00	37.55	68.62
1603		19Y NT2	07/12/90	1.514	0.19	10.00	52.74	63.77
1603		19O NT2	07/17/90	1.122	0.28	10.00	34.31	66.02
1603		19M NT2	07/17/90	1.114	0.27	10.00	37.70	66.72
1603		19K NT2	07/17/90	1.088	0.26	10.00	37.94	67.52
1603		19I NT2	07/17/90	1.075	0.26	10.00	37.94	67.62
1603		19F NT2	07/17/90	1.071	0.29	10.00	33.96	66.02
1603		19B NT2	07/18/90	1.083	0.06	10.00	172.05	85.53
1603		195 NT2	07/18/90	1.104	0.07	10.00	134.97	83.43
1603		195 NT2	07/24/90	1.281	0.05	10.00	208.03	84.93
1603		19G NT2	07/25/90	1.239	0.07	10.00	139.42	79.93
1603		19G NT2	07/26/90	1.278	0.31	10.00	32.06	62.32
1603		19X NT2	07/26/90	1.225	0.08	10.00	126.59	77.93
1603		19P NT2	07/26/90	1.194	0.18	10.00	56.08	69.02
1603		19W NT2	07/31/90	1.289	0.59	10.00	16.84	48.66
1603		19W NT2	08/01/90	1.304	0.18	10.00	55.21	71.13
1603		19I NT2	08/02/90	1.264	0.47	10.00	21.37	56.61
1603		19R NT2	08/07/90	1.151	0.17	10.00	58.22	69.53
1603		19J NT2	08/07/90	1.244	0.15	10.00	67.86	75.13
1603		19Y NT2	08/07/90	1.139	0.21	10.00	47.97	68.83
1603		19H NT2	08/08/90	1.305	0.18	10.00	54.51	71.23
1603		19C NT2	08/09/90	1.297	0.14	10.00	71.92	76.04
1603		194 NT2	08/09/90	1.161	0.07	10.00	141.99	84.84
1603		228 NT2	08/14/90	1.270	0.13	10.00	80.03	77.44
1603		210 NT2	08/14/90	1.298	0.39	10.00	25.40	60.51
1603		216 NT2	08/15/90	1.312	0.14	10.00	73.55	74.84
1603		209 NT2	08/15/90	1.317	0.48	10.00	20.68	49.30
1603		20W NT2	08/15/90	1.303	0.58	10.00	17.23	46.22
1603		210 NT2	08/16/90	1.356	0.11	10.00	87.58	77.45
1603		211 NT2	08/16/90	1.264	0.45	10.00	22.46	55.51
1603		244 NT2	08/21/90	1.179	0.11	10.00	87.88	79.33
1603		226 NT2	08/21/90	1.129	0.14	10.00	72.20	75.93
1603		24A NT2	08/22/90	1.117	0.14	10.00	68.99	72.22
1603		233 NT2	08/22/90	1.206	0.36	10.00	28.01	64.52
1603		22Y NT2	08/22/90	1.103	0.14	10.00	68.99	73.32
1603		241 NT2	08/23/90	1.127	0.09	10.00	115.31	81.84
1603		23V NT2	08/23/90	1.195	0.14	10.00	79.85	76.14
1603		23F NT2	08/23/90	1.140	0.09	10.00	111.66	81.64
1603		26C NT2	08/23/90	1.186	0.12	10.00	74.37	77.14
1603		24B NT2	08/23/90	1.136	0.09	10.00	114.81	81.94
1603		251 NT2	08/29/90	1.329	0.58	10.00	17.37	47.42
1603		25A NT2	08/29/90	1.333	0.58	10.00	17.37	43.82
1603		25K NT2	08/30/90	1.357	1.12	10.00	3.92	35.73
1603		27Y NT2	08/30/90	1.497	1.17	10.00	8.52	33.23
1603		296 NT2	08/30/90	1.285	1.14	10.00	8.79	38.55
1603		294 NT2	09/04/90	1.257	0.97	10.00	10.32	45.48
1603		26V NT2	09/05/90	1.197	0.57	10.00	17.39	47.80
1603		29U NT2	09/05/90	1.313	0.03	10.00	312.50	96.23
1603		298 NT2	09/05/90	1.376	0.13	10.00	77.81	75.34
1603		28F NT2	09/06/90	1.111	0.53	10.00	13.73	51.40
1603		2A6 NT2	09/12/90	1.010	0.36	10.00	27.58	57.71
1603		29H NT2	09/12/90	1.053	0.36	10.00	27.81	58.11
1603		2AF NT2	09/13/90	1.114	0.44	10.00	22.51	54.51
1603		29I NT2	09/13/90	1.169	0.46	10.00	21.95	54.11
1603		28I NT2	09/13/90	1.025	1.09	10.00	9.16	40.43
1603		2CD NT2	09/25/90	0.955	0.03	10.00	312.50	99.94
1603		254 NT2	09/26/90	0.663	0.03	7.60	237.50	65.85
1603		28C NT2	09/27/90	0.916	0.03	10.00	312.50	96.93
1603		2FW NT2	09/28/90	1.052	0.03	10.00	312.50	75.76
1603		26K NT2	10/02/90	0.516	0.03	10.00	312.50	88.24
1603		21W NT2	10/04/90	0.847	0.03	4.75	148.30	68.05
1603		21O NT2	10/09/90	0.340	0.03	7.34	229.35	65.12
1603		298 NT2	10/10/90	0.728	0.03	0.06	1.85	62.73
1603		296 NT2	10/12/90	0.608	0.03	10.00	312.50	81.72
1603		20M NT2	10/17/90	0.632	0.03	10.00	312.50	97.51
1603		28X NT2	10/18/90	0.873	0.03	6.76	211.31	86.57
1603		204 NT2	10/23/90	0.952	0.03	10.00	312.50	92.59
1603		27I NT2	10/23/90	1.021	0.03	10.00	312.50	93.10
1603		20Q NT2	10/26/90	0.874	0.03	10.00	312.50	93.29
1603		28N NT2	10/30/90	1.078	0.03	10.00	312.50	98.91
1603		19I NT2	10/31/90	1.07	0.027	0.00613	4.36	24.33
1603		22O NT2	11/01/90	1.205	0.03	10.00	312.50	94.32
1603		329 NT2	11/02/90	1.178	0.03	10.00	312.50	95.13
1603		24D NT2	11/06/90	1.212	0.03	10.00	312.50	97.42
1603		27I NT2	11/07/90	1.204	0.03	10.00	312.50	95.34

Cumulative Summary (cont'd)

AVB No.	Ship-ment	File Coll. # Line	Test Date	Diff-rcntl.	IC 50	TC 25	SI	TAI
1603		30W HT2	11/08/90	1.054 <	0.03 >	10.00 >	312.50 >	79.60
1603		32T HT2	11/09/90	1.162 <	0.03 >	10.00 >	312.50 >	96.52
1603		32L HT2	11/13/90	1.182 <	0.03 >	10.00 >	312.50 >	91.10
1603		35A HT2	11/14/90	0.762 <	0.03 >	10.00 >	312.50 >	94.70
1603		366 HT2	11/20/90	0.893 <	0.03 >	10.00 >	312.50 >	99.01
1603		37B HT2	11/21/90	0.702 <	0.03 >	10.00 >	312.50 >	100.00
1603		37D HT2	11/27/90	0.905 <	0.03 >	10.00 >	312.50 >	98.60
1603		38U HT2	11/29/90	1.088 <	0.03 >	0.32 >	10.00 >	62.66
1603		39Y HT2	11/30/90	1.204 <	0.03 >	3.61 >	112.88 >	76.28
1603		3E3 HT2	12/06/90	0.669 <	0.03 >	10.00 >	312.50 >	91.81
1603		3C8 HT2	12/11/90	1.067 <	0.03 >	10.00 >	312.50 >	97.61
1603		3D0 HT2	12/12/90	1.007 <	0.03 >	10.00 >	312.50 >	99.80
1603		3ED HT2	12/12/90	0.920 <	0.00 >	10.00 >	0.00 >	100.00
1603		3EF HT2	12/13/90	1.031 <	0.03 >	10.00 >	312.50 >	94.10
1603		3F5 HT2	12/20/90	0.461 <	0.03 >	10.00 >	312.50 >	100.00
1603		3HO HT2	01/08/91	1.222 <	0.03 >	10.00 >	312.50 >	96.11
1603		3IO HT2	01/09/91	1.353 <	0.03 >	6.42 >	200.66 >	78.84
1603		3IO HT2	01/11/91	1.389 <	0.03 >	1.24 >	38.89 >	64.46
1603		3MI HT2	01/17/91	1.174 <	0.03 >	5.77 >	178.29 >	86.85
1603		3NV HT2	01/18/91	1.438 <	0.03 >	3.05 >	95.42 >	71.13
1603		3O1 HT2	01/21/91	1.423 <	0.03 >	7.15 >	223.39 >	86.64
1603		43Z HT2	01/22/91	1.259 <	0.03 >	2.85 >	89.14 >	80.44
1603		44P HT2	01/22/91	1.106 <	0.03 >	4.25 >	132.69 >	84.15
1603		3ZD HT2	01/23/91	1.318 <	0.03 >	0.95 >	29.73 >	66.45
1603		465 HT2	01/24/91	1.354 <	0.03 >	2.35 >	73.54 >	77.76
1603		3U7 HT2	01/24/91	1.268 <	0.03 >	1.64 >	107.59 >	85.77
1603		3Z8 HT2	01/25/91	0.993 <	0.03 >	1.24 >	38.42 >	56.15
1603		46X HT2	01/29/91	1.390 <	0.03 >	2.10 >	65.63 >	66.20
1603		481 HT2	01/31/91	1.465 <	0.03 >	2.73 >	85.27 >	68.37
1603		495 HT2	02/05/91	1.134 <	0.03 >	0.89 >	27.71 >	66.90
1603		4A5 HT2	02/08/91	1.384 <	0.03 >	2.05 >	64.13 >	64.05
1603		4C3 HT2	02/20/91	1.454 <	0.03 >	2.98 >	93.13 >	69.13
1603		4C4 HT2	02/21/91	1.359 <	0.03 >	7.41 >	231.55 >	86.25
1603		4D1 HT2	02/22/91	1.325 <	0.03 >	7.03 >	219.53 >	90.17
1644	64	1KA CEM	04/26/90	0.600	18.30 >	100.00 >	5.44 >	37.35
1644	68	21Y CEM	08/14/90	1.013	55.20 >	100.00 >	1.81 >	11.43
1644	64	110 HT2	04/10/90	1.034	0.00	51.30 >	0.00 >	1.29
1644	68	1X2 HT2	08/02/90	1.264	0.00	57.40 >	0.00 >	4.65
1653	67	20B CEM	08/07/90	1.178	0.00	27.20 >	0.00 >	0.00
1653	67	1UB HT2	07/24/90	1.250	0.00 >	100.00 >	0.00 >	2.41
1654	53	0WV HT2	05/24/89	1.308	0.00	3.78 >	0.00 >	0.00
1654	46	0BW HT2	08/08/89	1.206	0.00	3.20 >	0.00 >	0.00
1654	67	1UB HT2	07/24/90	1.230	0.00	1.89 >	0.00 >	0.32
1655	62	17Z HT2	01/24/90	1.207	0.00	37.80 >	0.00 >	5.57
1752	53	0WV HT2	05/24/89	1.402	0.00	14.50 >	0.00 >	0.61
1752	46	0B1 HT2	08/08/89	1.289	0.00	32.90 >	0.00 >	2.27
1760	21	01R HT2	11/22/88	1.770	0.00 >	100.00 >	0.00 >	12.09
1761	21A	2UR HT2	10/26/90	0.860	0.00 >	100.00 >	0.00 >	4.13
1764	68	1X2 HT2	08/02/90	1.264	0.00 >	100.00 >	0.00 >	1.90
1767	8A	0DF HT2	04/21/89	1.022	0.00 >	100.00 >	0.00 >	1.00
1768	10A	019 HT2	05/22/89	1.277	0.00	40.90 >	0.00 >	2.50
1776	21A	2UR HT2	10/26/90	0.840	0.00 >	100.00 >	0.00 >	4.14
1790	53	10J HT2	10/26/89	1.204	0.00 >	1.00 >	0.00 >	3.85
1795	1A	018 HT2	11/22/88	1.717	0.00	4.90 >	0.00 >	4.91
1801	67	209 CEM	08/07/90	1.075	68.00 >	100.00 >	1.47 >	7.84
1801	53	0WV HT2	05/24/89	1.402	46.30 >	100.00 >	2.16 >	17.23
1801	67	1U9 HT2	07/24/90	1.172	0.00 >	100.00 >	0.00 >	8.57
1811	45	03B HT2	12/01/88	2.017	0.00 >	100.00 >	0.00 >	0.70
1829	67	205 CEM	08/07/90	1.075	0.00 >	100.00 >	0.00 >	8.72
1829	67	1U9 HT2	07/24/90	1.172	0.00 >	100.00 >	0.00 >	2.14
1838	64	111 HT2	04/10/90	1.040	0.00 >	100.00 >	0.00 >	2.44
1841	55	1BU CEM	07/05/90	1.144	5.04 >	100.00 >	19.86 >	65.28
1841	53	0WV HT2	05/24/89	1.295	0.00	95.00 >	0.00 >	2.37
1841	65	1J1 HT2	04/18/90	1.130	0.00 >	100.00 >	0.00 >	2.98
1844	65	1RV CEM	07/05/90	1.117	2.22 >	100.00 >	44.95 >	31.32
1844	68	1X0 CEM	08/01/90	1.038	32.00 >	100.00 >	3.13 >	19.55
1846	65	1J1 HT2	04/18/90	1.130	0.00 >	100.00 >	0.00 >	0.13
1850	53	0WV HT2	05/24/89	1.295	7.2 >	100.00 >	13.80 >	43.11
1850	67	1UA HT2	07/24/90	1.104	7.59 >	100.00 >	13.18 >	42.79
1901	67	1UA HT2	07/24/90	1.104	0.00	61.30 >	0.00 >	0.10
1973	67	1UB HT2	07/24/90	1.291	0.00	64.60 >	0.00 >	0.00
1974	67	1UB HT2	07/24/90	1.291	0.00	42.00 >	0.00 >	0.00
1983	61	10C HT2	10/31/89	1.376	0.00 >	100.00 >	0.00 >	3.96
1985	53	0WV HT2	05/24/89	1.390	0.00	0.50 >	0.00 >	0.00
1985	67	1UC HT2	07/24/90	1.164	0.00	0.95 >	0.00 >	0.00
2026	53	0WV HT2	05/24/89	1.390	0.00	48.80 >	0.00 >	0.60
2034	56	00B HT2	07/25/89	0.837	0.00	1.24 >	0.00 >	0.00
2138	67	1UC HT2	07/24/90	1.164	0.00 >	100.00 >	0.00 >	1.93

Cumulative Summary (cont'd)

AVS No.	Ship- mt	Plt #	Cell Line	Test Date	Diff- mtl.	TC 50	TC 25	SI	TAI
2162	53	01J	MT2	05/24/89	1.666	0.00	100.00	0.00	0.29
2274	67	1UD	MT2	07/24/90	1.262	0.00	49.00	0.00	2.21
2275	53	01J	MT2	05/24/89	1.666	0.00	10.70	0.00	0.27
2275	67	1UD	MT2	07/24/90	1.262	0.00	34.90	0.00	3.96
2299	68	1YR	CEM	08/02/90	0.876	0.00	10.00	0.00	0.00
2309	53	01K	MT2	05/24/89	1.385	0.00	100.00	0.00	3.89
2311	13	043	MT2	12/21/88	1.054	0.00	100.00	0.00	1.80
2317	17	044	MT2	12/21/88	1.096	0.00	7.35	0.00	4.92
2318	67	20A	CEM	08/07/90	1.163	0.00	0.32	0.00	0.00
2318	53	01K	MT2	05/24/89	1.385	0.00	0.32	0.00	0.00
2318	53	101	MT2	10/25/89	1.360	0.00	0.07	0.00	0.20
2318	67	1UE	MT2	07/24/90	1.299	0.00	0.32	0.00	0.00
2320	53	01L	MT2	05/24/89	1.602	0.00	0.74	0.00	0.00
2354	62	10E	CEM	12/28/90	0.99	40	0.13	320.00	83.92
2354	62	4CP	CEM	02/20/91	0.722	0.00	33.90	0.00	0.00
2354	62	4CE	MT2	02/20/91	1.473	0.00	2.68	0.00	0.00
2358	68	1YR	CEM	08/02/90	0.876	0.00	55.90	0.00	0.63
2396	68	1YR	CEM	08/02/90	0.833	0.00	100.00	0.00	0.00
2397	74	34Y	CEM	11/13/90	0.839	0.00	100.00	0.00	0.63
2397	53	01L	MT2	05/24/89	1.602	0.00	100.00	0.00	0.80
2397	74	34B	MT2	11/13/90	1.160	0.00	100.00	0.00	0.00
2422	68	1YR	CEM	08/02/90	0.833	0.00	60.80	0.00	0.60
2432	13	044	MT2	12/21/88	1.096	0.00	68.40	0.00	2.01
2433	17	045	MT2	12/21/88	1.141	0.00	75.60	0.00	15.12
2434	17	045	MT2	12/21/88	1.141	0.00	83.50	0.00	4.61
2439	17	046	MT2	12/21/88	1.066	0.00	17.50	0.00	3.21
2443	18	046	MT2	12/21/88	1.066	0.00	100.00	0.00	3.81
2444	68	1YR	CEM	08/02/90	0.778	0.00	100.00	0.00	13.02
2444	18	018	MT2	11/22/88	1.717	0.00	100.00	0.00	9.43
2445	74	34Z	CEM	11/13/90	0.829	0.00	100.00	0.00	0.00
2445	74	34C	MT2	11/13/90	1.153	0.00	100.00	0.00	0.00
2451	18	047	MT2	12/21/88	0.982	0.00	15.60	0.00	2.80
2455	68	1YR	CEM	08/02/90	0.778	0.00	1.59	0.00	0.00
2456	18	047	MT2	12/21/88	0.982	0.00	4.92	0.00	1.50
2460	18	011	MT2	11/22/88	1.603	0.00	100.00	0.00	4.60
2481	19	048	MT2	12/21/88	1.062	0.00	100.00	0.00	8.13
2482	19	048	MT2	12/21/88	1.062	0.00	13.80	0.00	2.15
2483	19	049	MT2	12/21/88	1.109	0.00	100.00	0.00	7.41
2499	19	049	MT2	12/21/88	1.109	0.00	100.00	0.00	5.35
2503	67	24T	CEM	08/21/90	0.523	0.00	0.32	3.00	0.00
2503	53	01M	MT2	05/24/89	1.593	0.00	0.32	0.00	0.00
2503	53	102	MT2	10/25/89	1.320	0.00	0.16	0.00	1.37
2503	67	1UE	MT2	07/24/90	1.289	0.00	0.32	0.00	0.00
2561	56	1L1	MT2	05/09/90	1.105	0.00	0.32	0.00	0.00
2568	67	1UF	MT2	07/24/90	1.251	0.00	44.60	0.00	2.14
2570	56	1L1	MT2	05/09/90	1.105	0.00	14.10	0.00	6.89
2572	56	1LJ	MT2	05/09/90	1.103	6.66	100.00	15.02	45.39
2572	65	1MT	MT2	05/15/90	0.989	13.00	100.00	7.69	43.98
2573	65	24T	CEM	08/21/90	0.523	33.40	100.00	2.99	41.87
2573	56	1LJ	MT2	05/09/90	1.103	32.70	100.00	3.06	28.75
2573	56	1UZ	CEM	07/19/90	0.578	10.60	100.00	9.47	39.79
2573	56	1LK	MT2	05/09/90	1.112	5.51	100.00	18.16	47.09
2576	56	1LK	MT2	05/09/90	1.112	5.06	100.00	19.78	48.19
2579	56	1LL	MT2	05/09/90	0.945	0.00	100.00	0.00	2.79
2580	56	1LL	MT2	05/09/90	0.945	0.00	2.00	0.00	1.75
2581	65	24U	CEM	08/21/90	0.820	16.10	100.00	6.22	26.48
2581	56	1LR	MT2	05/09/90	1.182	5.91	100.00	16.91	45.19
2581	65	1MT	MT2	05/15/90	0.989	13.40	100.00	7.44	42.58
2582	65	24U	CEM	08/21/90	0.820	28.00	100.00	3.57	15.71
2582	56	1LD	MT2	05/03/90	1.232	17.00	100.00	5.89	38.07
2582	65	1MU	MT2	05/15/90	1.077	36.80	100.00	2.72	27.95
2582	65	1T6	MT2	07/18/90	1.087	8.99	332.00	37.36	28.88
2585	65	1MS	CEM	05/16/90	1.508	20.50	100.00	4.87	16.97
2585	56	1LD	MT2	05/03/90	1.232	6.56	100.00	15.24	44.69
2585	65	1MU	MT2	05/15/90	1.077	12.30	100.00	8.11	44.49
2585	65	1T6	MT2	07/18/90	1.087	12.30	311.00	25.24	29.15
2585	65	21J	MT2	08/16/90	1.279	13.80	100.00	7.25	33.23
2586	56	1T0	CEM	07/17/90	1.363	0.00	58.30	0.00	1.68
2586	56	1LE	MT2	05/03/90	1.345	0.00	100.00	0.00	7.87
2589	65	1MS	CEM	05/16/90	1.508	38.40	100.00	2.61	18.66
2589	56	1LE	MT2	05/03/90	1.345	14.70	100.00	7.02	33.78
2589	65	1MW	MT2	05/15/90	1.060	9.71	100.00	10.30	33.28
2589	65	1T7	MT2	07/18/90	1.113	17.50	311.00	17.81	23.65
2589	65	21J	MT2	08/16/90	1.279	17.00	50.50	2.97	16.96
2600	65	1MT	CEM	05/16/90	1.420	54.30	100.00	1.84	8.18
2600	56	1LF	MT2	05/03/90	1.237	4.53	100.00	22.06	60.11
2600	65	1MW	MT2	05/15/90	1.060	20.20	100.00	4.94	33.57
2600	65	1T7	MT2	07/18/90	1.113	0.00	1.00	0.00	8.35

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- mcl.	IC 50	TC 25	ST	TA1
2600	56	227	MT2	08/21/90	1.131	14.90	> 100.00	> 6.71	> 35.07
2603		10L	CEM	03/02/90	0.696	< 0.00	1.41	> 0.00	> 75.32
2603	46	00M	MT2	08/03/89	1.055	0.00	43.50	0.00	> 2.86
2609	56	10V	CEM	07/19/90	0.649	0.00	> 100.00	0.00	> 18.54
2609	56	11F	MT2	05/03/90	1.237	0.00	> 100.00	0.00	> 0.20
2625	56	11G	MT2	05/03/90	1.246	16.50	> 100.00	> 6.07	> 18.77
2625	65	17B	MT2	07/18/90	1.086	0.00	> 1.00	0.00	> 3.84
2629	56	11G	MT2	05/03/90	1.246	0.00	66.00	0.00	> 0.10
2629	65	18M	MT2	05/15/90	0.908	0.00	28.30	0.00	> 4.22
2630	56	11Z	MT2	05/03/90	1.185	41.10	> 100.00	> 2.44	> 21.84
2639		0AY	CEM	03/28/89	1.361	< 0.03	0.83	> 25.90	> 14.89
2639		1C3	CEM	02/22/90	0.880	< 0.03	0.10	> 2.96	> 30.64
2639		1FH	CEM	03/20/90	1.335	0.00	0.08	0.00	> 16.10
2639		1FH	CEM	03/20/90	1.315	0.01	> 0.10	> 18.66	> 24.50
2639		1G5	CEM	03/21/90	1.478	0.05	0.47	10.14	> 30.02
2639		1KX	CEM	04/01/90	0.949	0.04	0.25	6.37	> 27.18
2639		1JC	CEM	04/18/90	0.989	< 0.03	0.25	> 7.71	> 22.34
2639		1K8	CEM	04/26/90	0.700	< 0.03	0.25	> 7.85	> 32.76
2639		1M1	CEM	05/10/90	1.414	< 0.03	0.21	> 6.54	> 14.23
2639		1MR	CEM	05/16/90	1.386	0.10	0.29	2.95	> 20.80
2639		1MU	CEM	06/26/90	1.455	0.79	> 10.00	> 12.71	> 48.18
2639		18P	CEM	07/05/90	1.044	< 0.33	0.28	> 8.43	> 34.99
2639		17H	CEM	07/17/90	1.414	0.06	0.68	10.04	> 15.69
2639		1UJ	CEM	07/19/90	0.723	0.03	> 10.00	> 316.23	> 30.61
2639		1VL	CEM	07/24/90	0.840	0.07	0.10	1.43	> 13.81
2639		21X	CEM	08/14/90	0.824	0.06	> 10.00	> 157.19	> 28.70
2639		22N	CEM	08/15/90	1.045	0.36	0.44	6.82	> 10.48
2639		239	CEM	08/16/90	0.800	0.04	7.58	178.67	> 30.10
2639		24J	CEM	08/21/90	0.696	0.06	0.34	5.61	> 10.46
2639		26J	CEM	08/29/90	0.771	0.06	0.69	11.76	> 18.38
2639		28T	CEM	09/04/90	0.933	0.09	0.15	5.20	> 19.11
2639		296	CEM	09/05/90	1.300	0.02	0.84	54.17	> 28.84
2639		27J	CEM	05/06/90	0.838	0.01	0.60	75.54	> 19.69
2639		2AU	CEM	09/11/90	0.899	0.05	0.51	11.02	> 23.15
2639		28X	CEM	09/27/90	0.868	< 0.03	0.20	> 6.18	> 28.64
2639		2M4	CEM	10/02/90	0.672	< 0.0001	0.01	> 100.00	> 36.31
2639		211	CEM	10/03/90	0.377	< 0.0001	0.36	> 3571.4	> 52.04
2639		20K	CEM	10/05/90	0.701	< 0.0001	0.03	> 300.00	> 27.37
2639		10X	CEM	10/17/90	2.01	> 0.211	0.00672	> 24.18	> 40.07
2639		2VA	CEM	10/30/90	0.955	0.01	0.99	10.08	> 21.42
2639		20M	CEM	10/31/90	1.140	0.03	0.10	2.84	> 16.64
2639		22X	CEM	11/01/90	1.207	0.05	0.07	1.26	> 11.03
2639		31P	CEM	11/02/90	0.937	0.005	0.09	17.90	> 18.17
2639		26X	CEM	11/06/90	0.776	0.02	1.33	57.19	> 28.97
2639		223	CEM	11/07/90	1.074	0.03	0.09	3.60	> 22.29
2639		312	CEM	11/08/90	1.041	0.02	0.43	39.34	> 27.45
2639		330	CEM	11/09/90	1.311	0.03	0.45	14.02	> 19.77
2639		340	CEM	11/13/90	0.902	0.02	0.08	4.64	> 19.04
2639		35L	CEM	11/14/90	0.581	0.002	0.26	172.98	> 37.08
2639		36M	CEM	11/20/90	0.751	0.01	0.87	91.82	> 34.71
2639		370	CEM	11/21/90	0.720	0.01	0.0004	0.01	> 35.30
2639		38A	CEM	11/27/90	1.146	0.02	0.34	19.14	> 28.93
2639		39E	CEM	11/29/90	1.490	0.01	0.00	0.12	> 12.01
2639		3AA	CEM	11/30/90	1.369	0.04	0.07	1.95	> 10.96
2639		38M	CEM	12/06/90	0.641	0.002	0.00006	0.03	> 41.19
2639		3C8	CEM	12/11/90	0.910	0.02	0.28	14.57	> 24.26
2639		30T	CEM	12/12/90	1.286	0.04	0.00	0.00	> 13.23
2639		38E	CEM	12/13/90	1.299	0.01	0.06	6.78	> 14.10
2639		3FM	CEM	12/20/90	1.182	0.02	0.86	54.82	> 33.92
2639		34C	CEM	01/04/91	1.328	0.03	0.71	28.00	> 29.53
2639		316	CEM	01/08/91	0.725	< 0.0001	0.0005	> 5.30	> 22.22
2639		3J8	CEM	01/09/91	0.801	0.004	0.38	86.77	> 23.91
2639		3J7	CEM	01/11/91	0.665	0.004	0.45	104.79	> 34.77
2639		3MG	CEM	01/17/91	0.600	0.005	0.10	20.69	> 20.86
2639		3M7	CEM	01/18/91	0.958	0.004	0.06	14.85	> 22.51
2639		30R	CEM	01/21/91	0.684	0.002	1.59	670.57	> 53.01
2639		42J	CEM	01/22/91	0.758	0.03	0.01	0.32	> 14.04
2639		439	CEM	01/22/91	0.762	0.03	0.01	0.34	> 15.51
2639		413	CEM	01/23/91	0.970	0.004	0.07	17.62	> 24.25
2639		45F	CEM	01/23/91	1.145	0.01	0.05	6.08	> 15.73
2639		46Y	CEM	01/24/91	0.886	0.003	0.67	200.66	> 44.46
2639		3M8	CEM	01/24/91	0.888	0.003	0.68	205.67	> 44.60
2639		37B	CEM	01/25/91	1.348	0.004	0.06	14.07	> 16.31
2639		47H	CEM	01/29/91	0.813	0.002	9.08	36.90	> 33.12
2639		48L	CEM	01/31/91	0.962	0.004	0.09	22.17	> 25.81
2639		49N	CEM	02/05/91	1.238	0.01	0.07	6.68	> 16.54
2639		44I	CEM	02/08/91	0.988	0.003	0.18	66.16	> 33.52
2639		60A	CEM	02/20/91	0.758	0.004	0.06	12.37	> 25.13

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-rnct.	IC 50	TC 25	SI	TAI
2639	407	CEH	02/21/88	0.892	0.01	0.03	3.79	11.57
2639	40V	CEH	02/22/88	0.515	0.01	0.05	7.28	11.35
2639	01a	HT2	11/22/88	1.522	0.10	10.00	100.00	68.69
2639	021	HT2	11/22/88	1.758	0.17	8.20	47.20	59.72
2639	020	HT2	11/22/88	1.722	0.21	7.81	36.40	51.35
2639	029	HT2	11/29/88	1.823	0.30	4.17	13.80	42.77
2639	02Y	HT2	11/29/88	1.279	0.20	4.08	20.70	34.00
2639	038	HT2	12/01/88	1.372	0.62	10.00	16.10	30.93
2639	03M	HT2	12/01/88	1.827	0.40	10.00	25.30	52.65
2639	042	HT2	12/21/88	1.101	0.77	10.00	13.00	42.02
2639	04J	HT2	12/21/88	1.012	0.85	10.00	11.80	45.90
2639	04Y	HT2	01/16/89	0.610	0.72	10.00	13.80	51.02
2639	05K	HT2	02/01/89	0.792	0.75	9.06	12.10	31.12
2639	062	HT2	02/07/89	0.631	0.07	9.43	146.00	39.75
2639	06T	HT2	02/14/89	0.639	0.34	5.47	16.00	38.99
2639	089	HT2	02/23/89	1.072	0.47	10.00	21.40	53.85
2639	091	HT2	03/16/89	1.252	0.45	6.24	13.80	43.30
2639	096	HT2	03/16/89	1.449	0.21	1.13	5.30	22.22
2639	081	HT2	03/28/89	1.530	0.49	6.69	13.70	47.65
2639	08J	HT2	03/29/89	1.212	0.11	10.00	93.60	70.94
2639	08S	HT2	03/30/89	1.173	0.46	10.00	21.80	53.25
2639	08K	HT2	04/06/89	1.313	0.48	10.00	20.80	56.62
2639	080	HT2	04/06/89	1.372	0.61	6.22	10.10	30.85
2639	08N	HT2	04/11/89	1.798	0.14	10.00	69.70	56.98
2639	09E	HT2	04/11/89	1.062	0.73	8.68	11.80	31.75
2639	04C	HT2	05/02/89	0.998	1.44	10.00	6.93	38.48
2639	040	HT2	05/09/89	1.233	0.16	10.00	63.50	66.93
2639	04T	HT2	05/10/89	0.912	10.00	6.53	0.65	40.77
2639	062	HT2	05/10/89	1.175	10.00	6.98	0.70	44.20
2639	04U	HT2	05/11/89	1.403	0.46	10.00	21.70	44.62
2639	06N	HT2	05/16/89	1.347	0.55	10.00	18.10	45.12
2639	041	HT2	05/16/89	1.135	0.49	10.00	20.20	54.72
2639	045	HT2	05/16/89	1.136	0.49	10.00	20.40	54.92
2639	06T	HT2	05/17/89	1.274	1.59	7.53	4.73	22.73
2639	06Z	HT2	05/17/89	1.317	1.59	7.28	4.59	22.33
2639	014	HT2	05/17/89	1.029	0.52	10.00	19.10	45.68
2639	018	HT2	05/22/89	1.222	0.45	10.00	22.30	49.73
2639	010	HT2	05/22/89	1.149	0.43	10.00	23.40	52.52
2639	049	HT2	05/23/89	1.085	0.85	7.56	8.93	36.07
2639	04A	HT2	05/23/89	1.022	0.65	9.27	14.30	43.14
2639	042	HT2	05/23/89	1.107	0.55	6.39	11.57	43.56
2639	04L	HT2	05/24/89	1.395	0.47	4.44	9.48	36.17
2639	048	HT2	05/24/89	1.423	0.46	4.26	9.24	35.54
2639	011	HT2	05/24/89	1.528	0.49	4.26	8.75	33.87
2639	040	HT2	06/20/89	1.186	0.57	10.00	17.52	50.20
2639	04C	HT2	06/20/89	1.150	0.55	10.00	18.22	49.33
2639	049	HT2	06/20/89	1.091	0.54	10.00	18.45	50.60
2639	04S	HT2	06/20/89	1.094	0.54	10.00	18.45	50.31
2639	04U	HT2	06/21/89	1.151	0.38	1.70	4.47	26.78
2639	046	HT2	06/22/89	1.448	0.52	10.00	19.26	52.91
2639	046	HT2	06/27/89	1.169	1.21	7.45	6.14	40.81
2639	04C	HT2	06/28/89	1.277	0.43	5.74	13.26	44.58
2639	04N	HT2	06/28/89	1.183	0.43	10.00	23.40	52.78
2639	04E	HT2	07/05/89	1.520	0.55	10.00	18.12	49.71
2639	043	HT2	07/05/89	1.489	0.56	10.00	17.98	48.82
2639	04E	HT2	07/10/89	1.168	1.49	10.00	20.34	51.82
2639	04L	HT2	07/10/89	1.105	0.55	10.00	18.07	45.44
2639	04V	HT2	07/18/89	0.105	0.03	0.03	1.00	16.61
2639	001	HT2	07/19/89	0.892	0.43	10.00	23.11	51.11
2639	007	HT2	07/20/89	1.235	0.55	10.00	18.11	43.87
2639	00P	HT2	07/25/89	0.760	0.34	10.00	29.30	54.79
2639	00L	HT2	07/25/89	1.016	3.47	10.00	21.37	53.93
2639	000	HT2	07/25/89	0.954	0.48	10.00	20.76	52.34
2639	00V	HT2	07/26/89	0.910	0.15	3.41	23.16	47.30
2639	007	HT2	07/26/89	1.168	0.42	6.28	14.88	41.38
2639	000	HT2	07/26/89	1.152	0.42	6.02	14.27	30.79
2639	002	HT2	08/01/89	1.166	0.41	10.00	24.36	52.45
2639	002	HT2	08/01/89	1.175	0.42	8.93	21.45	49.46
2639	006	HT2	08/01/89	1.145	0.41	8.64	21.04	44.76
2639	008	HT2	08/01/89	1.204	0.48	8.87	18.41	45.26
2639	00T	HT2	08/03/89	1.030	0.60	10.00	16.59	40.64
2639	00V	HT2	08/03/89	1.047	0.60	10.00	16.59	38.78
2639	00E	HT2	08/08/89	1.172	0.29	10.00	34.74	57.63
2639	000	HT2	08/08/89	1.247	0.31	10.00	32.28	61.64
2639	006	HT2	08/08/89	1.227	0.33	10.00	29.91	57.24
2639	008	HT2	08/08/89	1.453	0.29	10.00	34.17	47.96
2639	00C	HT2	08/08/89	1.407	0.29	10.00	34.26	49.86
2639	00F	HT2	08/09/89	1.644	0.35	7.40	21.32	49.16

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
2639		08K	MT2	08/09/89	1.300	0.39	5.08	13.07	37.07
2639		08N	MT2	08/09/89	1.205	0.36	6.08	16.83	44.55
2639		08P	MT2	08/09/89	1.094	0.34	6.35	18.61	48.71
2639		08Q	MT2	08/17/89	1.450	0.35	10.00	20.17	49.83
2639		08R	MT2	08/17/89	1.343	0.12	10.00	26.73	71.75
2639		08S	MT2	08/22/89	1.562	0.52	3.78	7.24	36.14
2639		08T	MT2	08/23/89	0.973	0.51	10.00	19.47	49.24
2639		07Z	MT2	03/23/89	1.354	0.49	7.42	15.13	48.66
2639		07I	MT2	08/23/89	1.343	0.44	10.00	22.82	49.54
2639		07O	MT2	08/24/89	1.174	0.34	10.00	29.30	58.58
2639		07Y	MT2	08/24/89	1.157	0.35	10.00	28.17	57.10
2639		06Z	MT2	08/24/89	0.959	0.45	10.00	22.06	52.49
2639		067	MT2	08/24/89	0.964	0.46	10.00	21.82	51.08
2639		06T	MT2	08/24/89	1.312	0.40	10.00	25.08	34.10
2639		06J	MT2	08/30/89	1.255	0.61	10.00	16.34	47.71
2639		06H	MT2	08/30/89	1.237	0.61	10.00	16.34	47.31
2639		06V	MT2	08/31/89	1.201	0.33	10.00	29.91	57.16
2639		06E	MT2	09/01/89	1.712	0.25	6.74	28.91	54.27
2639		06I	MT2	09/07/89	1.743	0.25	6.67	28.62	54.49
2639		07S	MT2	10/10/89	1.382	1.21	10.00	8.27	42.09
2639		07N	MT2	10/11/89	1.068	0.20	10.00	49.41	64.17
2639		07M	MT2	10/12/89	1.177	0.33	10.00	29.91	56.66
2639		07T	MT2	10/12/89	1.407	0.46	10.00	21.65	50.06
2639		07Z	MT2	10/12/89	1.380	0.47	10.00	21.37	43.56
2639		023	MT2	10/12/89	1.279	0.54	6.14	11.48	34.86
2639		029	MT2	10/17/89	1.279	0.50	6.08	12.18	39.68
2639		02C	MT2	10/17/89	1.202	0.49	6.26	12.71	42.92
2639		02V	MT2	10/25/89	1.423	0.32	7.49	23.42	55.30
2639		100	MT2	10/25/89	1.411	0.32	7.14	22.30	54.50
2639		10F	MT2	10/26/89	1.275	0.20	10.00	49.74	58.57
2639		10I	MT2	10/26/89	1.231	0.19	8.59	44.59	51.38
2639		02Q	MT2	10/31/89	1.458	0.49	10.00	20.21	46.35
2639		109	MT2	10/31/89	1.441	0.48	10.00	20.96	49.95
2639		10M	MT2	11/02/89	1.244	0.49	10.00	20.27	50.33
2639		111	MT2	11/02/89	1.322	0.68	10.00	14.71	28.24
2639		112	MT2	11/07/89	1.330	0.52	10.00	19.38	47.95
2639		11V	MT2	11/07/89	1.329	0.52	10.00	19.38	42.14
2639		11Q	MT2	11/07/89	1.316	0.50	10.00	19.88	50.65
2639		11T	MT2	11/07/89	1.307	0.50	10.00	20.01	43.24
2639		12F	MT2	11/08/89	0.908	0.42	2.45	5.88	37.24
2639		129	MT2	11/13/89	1.076	1.41	10.00	7.09	36.15
2639		13Q	MT2	11/21/89	1.408	0.33	10.00	29.91	57.44
2639		13E	MT2	11/28/89	1.576	0.37	7.00	18.92	51.01
2639		13K	MT2	11/30/89	1.347	0.10	4.41	44.14	45.97
2639		141	MT2	11/30/89	1.050	0.04	2.90	69.07	62.00
2639		14E	MT2	12/05/89	1.328	0.72	4.86	6.74	27.30
2639		14C	MT2	12/05/89	1.364	0.67	5.12	7.63	29.09
2639		149	MT2	12/05/89	1.383	0.68	4.99	7.29	28.09
2639		147	MT2	12/05/89	1.376	0.69	5.12	7.41	28.21
2639		14L	MT2	12/07/89	1.092	0.15	10.00	67.30	74.73
2639		14B	MT2	12/14/89	1.353	0.42	8.83	20.93	52.57
2639		15E	MT2	12/20/89	1.309	0.18	10.00	54.54	65.25
2639		153	MT2	12/20/89	1.358	0.29	5.47	18.54	40.24
2639		15N	MT2	01/04/90	1.380	0.17	6.10	34.82	56.03
2639		15T	MT2	01/17/90	1.106	0.26	8.35	32.09	56.59
2639		16W	MT2	01/23/90	1.200	0.41	9.50	23.13	55.26
2639		167	MT2	01/23/90	1.192	0.37	8.06	21.52	53.78
2639		171	MT2	01/24/90	1.254	0.20	6.75	32.84	57.81
2639		16Q	MT2	01/24/90	1.313	0.21	7.67	34.33	59.70
2639		17J	MT2	01/30/90	0.922	0.20	10.00	49.76	65.26
2639		18T	MT2	01/30/90	1.186	0.32	10.00	31.25	53.64
2639		186	MT2	01/30/90	0.874	0.28	10.00	36.31	63.05
2639		17U	MT2	01/31/90	1.206	0.27	6.84	25.80	52.56
2639		18M	MT2	02/01/90	1.234	0.14	10.00	68.99	70.37
2639		18Q	MT2	02/01/90	1.249	0.28	10.00	35.83	57.86
2639		19J	MT2	02/06/90	1.114	0.67	7.14	15.17	43.46
2639		18X	MT2	02/06/90	1.016	0.35	6.98	19.66	52.71
2639		19M	MT2	02/07/90	1.177	0.59	10.00	16.95	42.37
2639		193	MT2	02/07/90	1.181	1.36	10.00	7.35	36.31
2639		181	MT2	02/08/90	1.252	0.80	10.00	12.50	43.69
2639		19W	MT2	02/08/90	1.279	0.81	10.00	12.28	43.89
2639		1A0	MT2	02/13/90	1.092	0.97	10.00	10.31	40.99
2639		1A3	MT2	02/13/90	1.112	0.72	10.00	13.80	46.59
2639		18L	MT2	02/14/90	1.041	0.44	10.00	22.57	59.62
2639		18Z	MT2	02/14/90	1.166	0.53	10.00	18.96	48.43
2639		18E	MT2	02/20/90	1.200	0.54	10.00	18.38	47.24
2639		18B	MT2	02/20/90	1.136	0.50	10.00	19.87	50.25
2639		1C0	MT2	02/27/90	1.112	0.86	7.35	8.57	34.36

Cumulative Summary (cont'd)

AVE No.	Ship- ment	Plt Cell # Line	Test Date	Diff. mtl.	IC 50	TC 25	SI	TAI
2639		1DE MT2	02/27/90	1.187	0.68	8.06	11.78	38.15
2639		1CS MT2	02/28/90	1.173	0.76	7.67	10.13	36.06
2639		1DS MT2	03/01/90	1.004	0.50	10.00	19.97	52.91
2639		1DK MT2	03/02/90	1.323	0.35	10.00	28.40	30.20
2639		1EQ MT2	03/04/90	1.160	0.64	10.00	15.72	46.40
2639		1DY MT2	03/04/90	1.233	0.88	10.00	11.32	41.14
2639		1EA MT2	03/07/90	1.203	1.29	10.00	7.75	36.10
2639		1EA MT2	03/08/90	1.325	1.44	10.00	6.93	36.07
2639		1FD MT2	03/13/90	1.261	0.40	10.00	25.07	59.71
2639		1FG MT2	03/15/90	1.136	0.50	10.00	20.00	53.61
2639		1GD MT2	03/20/90	1.239	0.51	7.45	16.65	46.07
2639		1FZ MT2	03/20/90	1.054	0.49	10.00	20.57	50.75
2639		1G7 MT2	03/21/90	1.051	0.60	6.74	11.19	38.37
2639		1GS MT2	03/28/90	1.288	0.58	6.82	11.76	41.47
2639		1HM MT2	03/28/90	1.347	0.56	7.24	13.00	42.17
2639		1HH MT2	04/04/90	1.263	0.86	5.83	6.74	27.04
2639		1HW MT2	04/10/90	1.022	0.86	10.00	11.62	40.33
2639		1IQ MT2	04/12/90	1.109	0.54	10.00	18.40	50.40
2639		1J6 MT2	04/18/90	1.089	0.44	7.15	16.35	48.78
2639		1JO MT2	04/24/90	0.991	1.33	10.00	7.54	37.20
2639		1JK MT2	04/24/90	0.927	1.34	10.00	7.44	36.70
2639		1L6 MT2	05/02/90	1.141	0.46	10.00	21.63	55.22
2639		1KY MT2	05/02/90	1.166	0.51	10.00	19.81	51.33
2639		1L1 MT2	05/03/90	1.254	1.15	10.00	8.67	41.48
2639		1LC MT2	05/03/90	1.261	0.66	10.00	15.07	47.30
2639		1M2 MT2	05/08/90	1.051	0.50	10.00	20.08	56.21
2639		1LY MT2	05/09/90	1.068	0.53	10.00	18.98	46.93
2639		1LH MT2	05/09/90	1.079	0.53	10.00	18.88	49.33
2639		1MM MT2	05/10/90	1.022	0.48	10.00	20.95	50.32
2639		1LU MT2	05/10/90	0.905	1.07	9.27	8.68	38.02
2639		1LR MT2	05/10/90	1.004	1.15	8.51	7.38	35.01
2639		1MO MT2	05/10/90	0.825	0.50	10.00	20.03	49.74
2639		1M7 MT2	05/15/90	0.993	0.55	10.00	18.12	48.54
2639		1MS MT2	05/15/90	0.933	0.58	10.00	17.20	47.23
2639		1NF MT2	05/16/90	1.033	0.48	10.00	20.76	48.42
2639		1M1 MT2	05/16/90	1.073	0.47	10.00	21.05	52.25
2639		1OB MT2	05/22/90	1.037	0.46	10.00	21.82	59.71
2639		1OM MT2	05/24/90	1.261	0.97	10.00	10.31	44.59
2639		1OG MT2	05/24/90	1.161	1.13	10.00	8.83	40.58
2639		1OT MT2	05/24/90	1.192	1.17	10.00	8.52	41.48
2639		1OK MT2	05/30/90	1.063	0.58	8.59	14.78	42.94
2639		1OE MT2	05/30/90	1.022	0.56	8.87	15.95	43.54
2639		1PB MT2	06/05/90	0.948	1.02	10.00	9.77	45.58
2639		1P1 MT2	06/06/90	1.004	1.11	10.00	9.00	41.18
2639		1PG MT2	06/06/90	0.986	1.13	10.00	8.83	40.98
2639		1PE MT2	06/06/90	1.017	1.18	10.00	8.49	40.18
2639		1PH MT2	06/07/90	1.118	0.42	9.68	22.94	51.04
2639		1PT MT2	06/12/90	0.932	0.45	10.00	22.31	59.64
2639		1QA MT2	06/26/90	0.934	0.58	9.74	16.84	42.46
2639		1QA MT2	06/27/90	1.077	0.48	10.00	20.76	59.01
2639		1QG MT2	06/27/90	1.050	0.57	7.73	13.67	38.49
2639		1OO MT2	06/28/90	1.186	0.66	10.00	15.27	45.10
2639		1OH MT2	06/28/90	0.981	1.50	10.00	6.65	39.08
2639		1OD MT2	07/03/90	1.008	1.07	10.00	9.36	46.99
2639		1RO MT2	07/03/90	1.188	0.67	10.00	14.90	45.33
2639		1S3 MT2	07/11/90	1.366	0.45	9.74	21.86	49.36
2639		1RY MT2	07/12/90	1.514	0.61	6.35	10.38	38.32
2639		1SO MT2	07/17/90	1.128	0.54	10.00	17.99	49.19
2639		1SM MT2	07/17/90	1.114	0.55	10.00	18.15	49.49
2639		1SK MT2	07/17/90	1.088	0.55	10.00	18.14	49.49
2639		1S1 MT2	07/17/90	1.075	0.56	10.00	17.99	49.49
2639		1SF MT2	07/17/90	1.071	0.58	10.00	17.23	48.49
2639		1TB MT2	07/18/90	1.063	0.45	10.00	22.17	49.44
2639		1TS MT2	07/18/90	1.104	0.44	10.00	22.94	60.51
2639		1U5 MT2	07/24/90	1.281	0.58	8.41	14.59	47.72
2639		1UG MT2	07/25/90	1.239	0.47	10.00	21.94	43.91
2639		1VG MT2	07/26/90	1.278	1.52	9.74	6.41	32.09
2639		1X7 MT2	07/26/90	1.223	1.19	10.00	8.37	42.78
2639		1WP MT2	07/26/90	1.196	0.70	10.00	14.20	48.19
2639		1VU MT2	07/31/90	1.289	1.64	10.00	6.10	33.37
2639		1YD MT2	07/31/90	1.084	3.93	10.00	2.54	18.44
2639		1WV MT2	08/01/90	1.304	1.25	10.00	7.98	40.08
2639		1X1 MT2	08/02/90	1.264	1.60	10.00	6.26	34.07
2639		1X8 MT2	08/07/90	1.151	1.05	10.00	9.56	41.68
2639		1ZJ MT2	08/07/90	1.244	0.53	10.00	18.83	50.72
2639		1XT MT2	08/07/90	1.159	0.53	5.64	10.68	42.28
2639		1YH MT2	08/08/90	1.305	0.80	10.00	12.45	44.29
2639		1ZC MT2	08/09/90	1.297	0.59	10.00	16.96	48.60

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pile #	Cell Line	Test Date	Diff-ml.	TC 50	TC 25	SI	TAI
2639		124	HT2	08/09/90	1.161	0.70	> 10.00	> 14.30	> 44.59
2639		228	HT2	08/14/90	1.270	0.63	> 10.00	> 15.77	> 44.30
2639		210	HT2	08/14/90	1.298	1.77	> 10.00	> 5.65	> 25.99
2639		216	HT2	08/15/90	1.312	0.48	> 6.82	> 14.18	> 45.30
2639		20P	HT2	08/15/90	1.317	1.60	> 10.00	> 6.24	> 33.77
2639		20H	HT2	08/15/90	1.303	1.63	> 10.00	> 6.14	> 35.84
2639		210	HT2	08/16/90	1.356	1.11	> 10.00	> 8.98	> 37.31
2639		211	HT2	08/16/90	1.264	1.59	> 10.00	> 6.30	> 36.17
2639		244	HT2	08/21/90	1.179	0.63	> 10.00	> 15.79	> 47.10
2639		226	HT2	08/21/90	1.129	1.47	> 10.00	> 6.98	> 30.27
2639		26A	HT2	08/22/90	1.117	0.31	> 10.00	> 19.64	> 48.35
2639		233	HT2	08/22/90	1.206	1.27	> 10.00	> 7.87	> 40.58
2639		22V	HT2	08/22/90	1.103	0.51	> 10.00	> 19.64	> 49.54
2639		241	HT2	08/23/90	1.127	0.49	> 6.67	> 13.72	> 43.62
2639		23V	HT2	08/23/90	1.193	0.47	> 9.50	> 20.30	> 52.65
2639		23F	HT2	08/23/90	1.140	0.49	> 7.96	> 14.53	> 45.79
2639		26C	HT2	08/23/90	1.186	0.45	> 9.50	> 20.95	> 54.05
2639		26A	HT2	08/23/90	1.136	0.49	> 6.65	> 13.58	> 43.28
2639		251	HT2	08/29/90	1.329	0.51	> 6.82	> 13.28	> 42.63
2639		25A	HT2	08/29/90	1.333	0.52	> 6.67	> 12.92	> 40.64
2639		25W	HT2	08/30/90	1.357	0.66	> 5.90	> 8.97	> 33.58
2639		25K	HT2	08/30/90	1.497	0.62	> 5.86	> 9.40	> 35.32
2639		27Y	HT2	08/30/90	1.285	1.46	> 10.00	> 6.86	> 39.07
2639		294	HT2	09/04/90	1.297	1.69	> 10.00	> 5.91	> 33.66
2639		26V	HT2	09/05/90	1.197	1.11	> 8.51	> 7.66	> 37.54
2639		29U	HT2	09/05/90	1.313	0.14	> 10.00	> 69.32	> 68.80
2639		29S	HT2	09/05/90	1.376	0.39	> 10.00	> 25.45	> 55.56
2639		28F	HT2	09/06/90	1.111	0.48	> 7.92	> 16.60	> 47.88
2639		2A6	HT2	09/12/90	1.010	0.51	> 10.00	> 19.55	> 51.52
2639		29B	HT2	09/12/90	1.053	0.51	> 10.00	> 19.55	> 52.31
2639		2AF	HT2	09/13/90	1.114	0.57	> 10.00	> 17.54	> 44.53
2639		291	HT2	09/13/90	1.169	0.58	> 10.00	> 17.13	> 43.83
2639		281	HT2	09/13/90	1.025	1.85	> 10.00	> 5.39	> 27.96
2639		2CD	HT2	09/25/90	0.955	0.04	> 6.41	> 152.66	> 69.26
2639		2DC	HT2	09/26/90	0.663	0.08	> 5.20	> 65.31	> 48.37
2639		2EC	HT2	09/27/90	0.916	0.16	> 10.00	> 62.34	> 64.81
2639		2FU	HT2	09/28/90	1.052	0.08	> 5.29	> 62.79	> 58.49
2639		2GK	HT2	10/02/90	0.516	< 0.03	> 5.01	> 156.67	> 66.19
2639		21W	HT2	10/04/90	0.847	< 0.03	> 0.59	> 18.50	> 36.19
2639		21O	HT2	10/09/90	0.340	0.28	> 4.38	> 15.63	> 37.82
2639		29E	HT2	10/10/90	0.728	< 0.05	< 0.67	> 30.45	> 30.45
2639		29F	HT2	10/12/90	0.608	< 0.03	> 1.98	> 62.31	> 51.93
2639		29M	HT2	10/17/90	0.632	< 0.03	> 7.22	> 225.57	> 82.65
2639		28X	HT2	10/18/90	0.873	< 0.03	> 2.08	> 64.95	> 60.32
2639		214	HT2	10/23/90	0.952	0.05	> 4.94	> 93.50	> 66.19
2639		271	HT2	10/23/90	1.021	0.04	> 5.36	> 121.73	> 69.83
2639		21Q	HT2	10/26/90	0.874	< 0.03	> 5.86	> 183.15	> 76.58
2639		21W	HT2	10/30/90	1.078	0.11	> 4.15	> 38.84	> 58.57
2639		22O	HT2	11/01/90	1.205	0.09	> 2.15	> 24.24	> 48.40
2639		329	HT2	11/02/90	1.178	< 0.03	> 2.38	> 64.95	> 54.14
2639		26D	HT2	11/06/90	1.212	0.12	> 3.04	> 28.33	> 55.63
2639		2Y1	HT2	11/07/90	1.204	0.12	> 2.50	> 20.90	> 53.60
2639		30W	HT2	11/08/90	1.356	0.05	> 4.42	> 84.54	> 69.80
2639		32T	HT2	11/09/90	1.162	0.08	> 4.33	> 52.64	> 60.34
2639		364	HT2	11/13/90	1.182	0.06	> 2.51	> 62.59	> 55.63
2639		358	HT2	11/14/90	0.762	< 0.05	> 10.00	> 184.91	> 72.69
2639		366	HT2	11/20/90	0.893	< 0.03	> 8.87	> 277.08	> 90.98
2639		378	HT2	11/21/90	0.702	0.05	> 9.58	> 190.91	> 80.51
2639		378	HT2	11/27/90	0.905	< 0.03	> 0.02	> 0.61	> 81.12
2639		38U	HT2	11/29/90	1.088	< 0.03	> 0.02	> 0.49	> 37.13
2639		39Y	HT2	11/30/90	1.204	0.04	> 1.00	> 25.45	> 50.84
2639		383	HT2	12/06/90	0.669	0.04	> 10.00	> 284.74	> 77.04
2639		3CB	HT2	12/11/90	1.067	0.08	> 8.06	> 95.83	> 70.58
2639		3DC	HT2	12/12/90	1.007	0.05	> 4.66	> 102.75	> 69.71
2639		3ED	HT2	12/12/90	0.920	0.05	> 4.56	> 99.52	> 72.00
2639		3EF	HT2	12/13/90	1.031	0.05	> 1.70	> 35.10	> 51.00
2639		3FS	HT2	12/20/90	0.461	0.13	> 10.00	> 78.66	> 71.61
2639		3HO	HT2	01/08/91	1.222	0.11	> 5.29	> 47.61	> 63.81
2639		31O	HT2	01/09/91	1.353	0.17	> 3.12	> 22.56	> 46.65
2639		3ON	HT2	01/11/91	1.389	0.06	> 1.07	> 16.83	> 42.31
2639		3M1	HT2	01/17/91	1.174	0.27	> 2.26	> 8.22	> 36.62
2639		39V	HT2	01/14/91	1.438	0.18	> 1.73	> 9.76	> 34.37
2639		301	HT2	01/21/91	1.423	0.13	> 5.12	> 38.15	> 61.36
2639		43Z	HT2	01/22/91	1.259	0.13	> 0.67	> 3.25	> 41.26
2639		44P	HT2	01/22/91	1.106	0.11	> 0.71	> 5.62	> 45.95
2639		32O	HT2	01/23/91	1.318	0.13	> 2.04	> 15.36	> 42.65
2639		465	HT2	01/24/91	1.354	0.18	> 1.87	> 10.58	> 37.98
2639		3UT	HT2	01/24/91	1.268	0.17	> 2.26	> 13.29	> 41.81

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plc Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
2639		3XS NT2	01/25/91	0.993	0.20	1.53	7.59	28.09
2639		66X NT2	01/29/91	1.390	0.15	1.93	12.78	38.81
2639		481 NT2	01/31/91	1.465	0.09	1.90	20.81	43.62
2639		495 NT2	02/05/91	1.134	0.12	1.73	14.76	45.64
2639		4A5 NT2	02/08/91	1.384	0.06	1.29	22.56	39.36
2639		4CB NT2	02/20/91	1.456	0.07	1.24	18.40	44.33
2639		4CX NT2	02/21/91	1.359	0.13	2.96	23.60	54.07
2639		4D4 NT2	02/22/91	1.325	0.15	9.74	63.71	69.09
2645	21	04A NT2	12/21/88	1.094	0.00	100.00	0.00	6.51
2648	68	1YU CEM	08/02/90	0.882	0.00	100.00	0.00	3.94
2657	65	1NT CEM	05/16/90	1.420	0.00	100.00	0.00	0.02
2657	68	24V CEM	08/21/90	0.758	0.00	100.00	0.00	0.00
2657	65	1HW NT2	05/15/90	0.908	3.00	100.00	0.00	11.40
2657	68	1V1 NT2	08/01/90	1.237	0.00	100.00	0.00	0.88
2670	21	04A NT2	12/21/88	1.094	0.00	100.00	0.00	7.21
2737		04Z NT2	01/16/89	0.645	0.00	499.00	0.00	5.43
2738	65	1HX NT2	05/15/90	1.006	0.00	100.00	0.00	9.49
2716	46	08W NT2	08/03/89	1.055	0.00	1.61	0.00	0.00
2720	65	1HW NT2	05/15/90	1.006	0.00	100.00	3.00	5.00
2728	22	022 NT2	10/12/89	1.354	0.00	8.87	0.00	4.21
2812	61	100 NT2	10/31/89	1.405	0.00	0.32	3.00	0.00
2812	51	148 NT2	12/05/89	1.340	0.00	0.01	0.00	0.00
2875	31	0FP NT2	05/09/89	1.217	0.00	92.00	0.00	0.11
2882	21	04B NT2	12/21/88	1.141	0.00	100.00	0.00	6.11
2893	26	04B NT2	12/21/88	1.141	0.00	43.50	0.00	7.13
2906	53	01W NT2	05/24/89	1.593	0.00	6.35	0.00	0.00
2921	68	21Y CEM	08/14/90	1.013	36.80	100.00	2.53	18.74
2921	65	1MY NT2	05/15/90	1.096	17.60	100.00	5.67	35.99
2921	68	1V1 NT2	08/01/90	1.237	43.10	100.00	2.32	19.65
2922	68	24V CEM	08/21/90	0.758	0.00	100.00	0.00	5.26
2922	65	1NT NT2	05/15/90	1.096	55.40	100.00	1.82	18.16
2922	68	1WJ NT2	08/01/90	1.287	55.40	100.00	1.80	14.95
2967	27	04C NT2	12/21/88	1.049	0.00	49.30	0.00	6.22
2973	27	04C NT2	12/21/88	1.049	0.00	49.70	0.00	6.80
2992	46	0M1 NT2	08/08/89	1.139	0.00	100.00	0.00	2.10
2994	53	11W NT2	05/24/89	1.537	0.00	3.20	0.00	0.00
3038	53	01W NT2	05/24/89	1.537	0.00	0.32	0.00	0.00
3038	53	102 NT2	11/25/89	1.320	0.00	0.02	0.00	0.84
3222	65	1HW CEM	05/16/90	1.177	0.00	4.95	0.00	2.60
3258	65	1WU CEM	05/16/90	1.572	0.00	12.20	0.00	0.00
3258	65	1WZ NT2	05/15/90	1.021	3.00	19.30	0.00	1.20
3260	65	1WV CEM	05/16/90	1.300	0.00	13.00	0.00	0.00
3260	65	1WZ NT2	05/15/90	1.021	0.00	49.00	0.00	3.80
3278	65	1WV CEM	05/16/90	1.300	0.00	19.20	0.00	2.50
3278	65	1WU NT2	05/15/90	0.987	0.00	49.90	0.00	10.48
3284	65	1WU CEM	05/16/90	1.177	0.00	16.10	0.00	1.31
3284	65	1W8 NT2	05/15/90	0.988	0.00	10.90	0.00	1.60
3322	52	1W8 NT2	05/15/90	0.988	0.00	4.90	0.00	1.60
3350	31	04D NT2	12/21/88	0.924	0.00	5.70	0.00	0.00
3352	31	04D NT2	12/21/88	0.924	0.00	5.52	0.00	0.59
3354	61	1G2 NT2	10/31/89	1.405	0.00	2.77	0.00	0.00
3361	65	1HX CEM	05/16/90	1.288	0.00	3.20	0.00	0.00
3361	65	1W9 NT2	05/15/90	0.874	0.00	3.09	0.00	0.00
3362	74	34W CEM	11/13/90	0.829	0.00	100.00	0.00	1.25
3362	75	380 CEM	12/06/90	0.574	92.40	100.00	1.08	23.58
3362	74	34C NT2	11/13/90	1.153	0.00	100.00	0.00	0.00
3374	65	1HX CEM	05/16/90	1.288	0.00	100.00	0.00	6.89
3374	74	34X CEM	11/13/90	0.827	0.00	100.00	0.00	3.25
3374	75	380 CEM	12/06/90	0.574	12.90	100.00	7.77	42.90
3374	65	W9 NT2	05/15/90	0.874	41.60	100.00	2.40	23.55
3374	74	34D NT2	11/13/90	1.129	0.00	100.00	0.00	7.64
3377	65	1WY CEM	05/16/90	1.588	0.00	14.10	0.00	0.00
3378	65	1WA NT2	05/15/90	0.940	0.00	73.50	0.00	3.90
3378	65	1WY CEM	05/16/90	1.588	0.00	10.30	0.00	0.00
3378	65	1WA NT2	05/15/90	0.940	0.00	15.70	0.00	3.81
3384	31	04E NT2	12/21/88	1.027	0.00	18.30	0.00	2.80
3385	31	04E NT2	12/21/88	1.027	100.00	97.40	0.97	49.87
3397	65	1WZ CEM	05/16/90	1.463	0.00	1.62	0.00	4.11
3397	65	1W8 NT2	05/15/90	1.021	0.00	2.23	0.00	0.00
3491	65	1WZ CEM	05/16/90	1.463	0.00	100.00	0.00	3.10
3491	68	24V CEM	08/21/90	0.782	0.00	95.10	0.00	1.02
3491	68	1WJ NT2	08/01/90	1.287	0.00	100.00	0.00	2.99
3513	53	010 NT2	05/24/89	1.591	0.00	72.40	0.00	0.31
3524	65	100 CEM	05/16/90	1.307	0.00	100.00	0.00	0.02
3524	65	1W8 NT2	05/15/90	1.021	0.00	20.20	0.00	6.76
3547	74	34E CEM	11/13/90	0.827	0.00	18.50	0.00	0.00
3547	65	6CP CEM	02/20/91	0.722	0.00	51.90	0.00	0.00
3547	74	34B NT2	11/13/90	1.129	0.00	5.30	0.00	0.00

Cumulative Summary (cont'd)

AVE No.	Ship-ment	Plt Cell # Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
3547	65	4CE	HT2	02/20/91	1.473	0.00	20.80	0.00
3540	31	04F	HT2	12/21/88	0.982	0.00	> 100.00	0.00
3580	67	1UF	HT2	07/24/90	1.261	0.00	< 0.32	0.00
3560	67	21K	HT2	08/16/90	1.321	0.00	0.32	0.00
3592	65	1MJ	CEM	05/10/90	1.084	0.32	95.00	> 296.76
3592	51	0FP	HT2	05/09/89	1.217	0.00	91.10	0.00
3592	61	10E	HT2	10/31/89	0.753	23.50	97.40	4.15
3592	65	1JJ	HT2	04/18/90	1.030	0.00	49.00	0.00
3592	65	1MM	HT2	05/10/90	1.157	0.00	97.20	0.00
3604	29	04F	HT2	12/21/88	0.982	0.00	> 100.00	0.00
3611	67	24W	CEM	08/21/90	0.782	0.00	> 100.00	0.00
3611	67	1UM	HT2	07/25/90	1.193	0.00	> 100.00	0.00
3802	67	1UM	HT2	07/25/90	1.193	0.00	< 0.32	0.00
3802	67	21L	HT2	08/16/90	1.274	0.00	0.38	0.00
3896	65	100	CEM	05/16/90	1.307	0.00	74.70	0.00
3896	65	1MC	HT2	05/15/90	1.047	0.00	> 100.00	0.00
3908	74	24Y	CEM	11/13/90	0.762	0.00	51.10	0.00
3908	65	1MC	HT2	05/15/90	1.047	0.00	79.10	0.00
3908	74	34E	HT2	11/13/90	1.133	0.00	41.50	0.00
3935	74	34Y	CEM	11/13/90	0.762	0.00	32.90	0.00
3935	65	1MD	HT2	05/15/90	1.104	0.00	49.30	0.00
3935	74	34E	HT2	11/13/90	1.133	0.00	23.90	0.00
3939	53	010	HT2	05/24/89	1.591	0.00	14.70	0.00
3966	53	01P	HT2	05/24/89	1.672	0.00	2.18	0.00
3980	36	03D	HT2	12/01/88	1.993	0.00	15.70	0.00
3981	36	03E	HT2	12/01/88	2.023	0.00	> 100.00	0.00
3982	36	03E	HT2	12/01/88	2.023	0.00	> 100.00	0.00
3983	36	03F	HT2	12/01/88	1.946	0.00	> 100.00	0.00
3984	36	03F	HT2	12/01/88	1.946	0.00	> 100.00	0.00
3985	36	03G	HT2	12/01/88	1.966	0.00	> 100.00	0.00
3986	36	03G	HT2	12/01/88	1.966	0.00	> 100.00	0.00
3987	36	03H	HT2	12/01/88	1.785	0.00	> 100.00	0.00
3988	36	03H	HT2	12/01/88	1.785	0.00	53.80	0.00
3989	36	03I	HT2	12/01/88	1.787	0.00	> 100.00	0.00
3990	36	03I	HT2	12/01/88	1.787	0.00	35.20	0.00
3991	36	03J	HT2	12/01/88	1.872	0.00	> 100.00	0.00
3992	36	03J	HT2	12/01/88	1.872	0.00	> 100.00	0.00
3993	36	03K	HT2	12/01/88	1.657	0.00	> 100.00	0.00
3994	36	03K	HT2	12/01/88	1.657	0.00	> 100.00	0.00
3995	36	03L	HT2	12/01/88	1.801	0.00	> 100.00	0.00
3996	36	03L	HT2	12/01/88	1.801	0.00	17.10	0.00
3997	36	03M	HT2	12/01/88	2.002	0.00	17.50	0.00
3998	36	03M	HT2	12/01/88	2.002	0.00	0.53	0.00
3999	36	03O	HT2	12/01/88	1.576	0.00	1.03	0.00
4000	36	03O	HT2	12/01/88	1.876	0.00	> 100.00	0.00
4001	36	03P	HT2	12/01/88	1.916	0.00	> 100.00	0.00
4002	36	03P	HT2	12/01/88	1.916	0.00	> 100.00	0.00
4003	36	03Q	HT2	12/01/88	1.837	0.00	> 100.00	0.00
4004	36	03Q	HT2	12/01/88	1.837	0.00	> 100.00	0.00
4005	36	03R	HT2	12/01/88	1.983	0.00	53.40	0.00
4006	36	03R	HT2	12/01/88	1.983	0.00	54.70	0.00
4021	36	03S	HT2	12/01/88	1.906	0.00	49.90	0.00
4022	36	03S	HT2	12/01/88	1.906	0.00	48.00	0.00
4023	36	03T	HT2	12/01/88	1.902	0.00	52.90	0.00
4024	36	03T	HT2	12/01/88	1.902	0.00	57.80	0.00
4025	36	03U	HT2	12/01/88	1.929	0.00	76.50	0.00
4026	36	08A	HT2	02/23/89	1.092	0.00	0.00	0.00
4027	36	03U	HT2	12/01/88	1.929	0.00	< 0.32	0.00
4028	36	04G	HT2	12/21/88	1.015	0.00	51.40	0.00
4029	36	03V	HT2	12/01/88	1.816	0.00	> 100.00	0.00
4030	36	03V	HT2	12/01/88	1.816	0.00	39.30	0.00
4031	36	03W	HT2	12/01/88	1.924	0.00	14.60	0.00
4032	68	24X	CEM	08/21/90	0.762	0.00	24.40	0.00
4032	36	03W	HT2	12/01/88	1.924	41.20	> 100.00	> 2.43
4032	36	060	HT2	08/01/89	1.222	20.20	> 100.00	> 4.95
4032	65	1MD	HT2	05/15/90	1.104	17.50	> 100.00	> 5.70
4032	68	1WK	HT2	06/01/90	1.255	17.60	> 100.00	> 5.68
4033	36	03X	HT2	12/01/88	1.853	0.00	> 100.00	0.00
4034	36	03X	HT2	12/01/88	1.853	0.00	> 100.00	0.00
4035	36	03Y	HT2	12/01/88	1.902	3.96	> 100.00	> 25.30
4035	36	060	HT2	08/01/89	1.222	0.77	> 100.00	> 129.56
4035	65	1ME	HT2	05/15/90	1.066	1.55	> 100.00	> 64.65
4036	68	22R	CEM	08/15/90	1.040	26.90	> 100.00	> 3.71
4036	68	24X	CEM	08/21/90	0.762	19.80	> 100.00	> 5.04
4036	65	4CR	CEM	02/20/91	0.779	16.00	58.30	3.64
4036	36	03Y	HT2	12/01/88	1.902	15.10	95.00	6.29
4036	36	001	HT2	08/01/89	1.195	8.01	> 100.00	> 12.48
4036	68	1WK	HT2	08/01/90	1.255	12.90	> 100.00	> 7.75

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- rntl.	IC 50	TC 25	SI	TAI
4036	65	4CF	HT2	02/20/91	1.356	14.30	7.91	0.55	9.01
4037	36	03Z	HT2	12/01/88	1.576	0.00	> 100.00	0.00	> 6.91
4038	36	33Z	HT2	12/01/88	1.576	0.00	> 100.00	0.00	> 3.54
4039	36	040	HT2	12/01/88	1.420	0.00	> 85.40	0.00	> 0.33
4040	36	040	HT2	12/01/88	1.420	0.00	> 100.00	0.00	> 5.19
4041	36	041	HT2	12/01/88	1.407	0.00	> 100.00	0.00	> 18.89
4048	37	02E	HT2	11/22/88	1.720	0.00	> 0.41	0.00	> 0.00
4048	37	04G	HT2	12/21/88	1.015	0.00	< 0.32	0.00	> 0.00
4051	67	1U1	HT2	07/25/90	1.315	0.00	> 1.55	0.00	> 3.03
4062	36	041	HT2	12/01/88	1.407	0.00	> 100.00	0.00	> 0.20
4065	35	04A	HT2	12/21/88	0.985	0.00	< 0.32	0.00	> 0.00
4070	35	04A	HT2	12/21/88	0.985	0.00	< 0.32	0.00	> 0.00
4075	1A	0A2	CEM	03/28/89	1.163	16.10	> 100.00	> 7.09	> 35.77
4075	68	2AT	CEM	08/21/90	0.764	12.30	> 100.00	> 8.11	> 50.38
4075	65	4CD	CEM	02/20/91	0.779	3.73	> 100.00	> 26.84	> 49.66
4075	66	0R1	HT2	06/08/89	1.139	58.80	> 100.00	> 1.70	> 14.91
4075	68	1LA	HT2	08/01/90	1.292	79.6C	> 100.00	> 1.26	> 9.22
4075	65	4CF	HT2	02/20/91	1.356	1.45	> 36.40	> 25.13	> 46.22
4084	37	041	HT2	12/21/88	1.114	0.00	> 1.77	0.00	> 0.12
4097	37	08A	HT2	02/23/89	1.092	0.00	> 0.00	0.00	> 0.00
4098	37	08B	HT2	02/23/89	1.171	0.00	> 0.00	0.00	> 0.00
4099	37	08B	HT2	02/23/89	1.171	0.00	> 0.00	0.00	> 5.99
4106	37	08C	HT2	02/23/89	1.093	0.00	< 0.00	0.00	> 0.00
4107	37	08C	HT2	02/23/89	1.093	0.00	> 0.03	0.00	> 0.00
4133	65	1WE	HT2	05/15/90	1.066	0.00	> 100.00	0.00	> 0.42
4134	65	1VM	CEM	07/24/90	0.847	0.00	> 100.00	0.00	> 0.48
4134	65	22P	CEM	08/15/90	1.025	0.00	> 100.00	0.00	> 0.12
4134	65	1HG	HT2	05/16/90	1.143	0.00	> 100.00	0.00	> 8.39
4148	65	1HG	HT2	05/16/90	1.143	32.00	> 59.20	> 1.85	> 19.76
4156	65	1HW	HT2	05/16/90	1.039	0.00	> 100.00	0.00	> 5.11
4159	65	1VM	CEM	07/24/90	0.847	0.00	> 100.00	0.00	> 0.00
4159	65	22Q	CEM	08/15/90	1.025	0.00	> 90.60	0.00	> 1.30
4159	65	1HW	HT2	05/16/90	1.039	0.00	> 100.00	0.00	> 5.10
4172	65	27G	CEM	08/15/90	1.025	0.00	> 100.00	0.00	> 0.29
4172	41	0R7	HT2	08/08/89	1.262	0.00	> 100.00	0.00	> 4.90
4179	65	207	CEM	08/07/90	1.122	0.00	> 100.00	0.00	> 2.23
4179	65	1M1	HT2	05/16/90	1.152	0.00	> 100.00	0.00	> 8.77
4225	51	0FQ	HT2	05/09/89	1.297	0.00	> 23.80	0.00	> 1.50
4228	8A	0M2	HT2	05/16/89	1.308	0.00	> 100.00	0.00	> 3.90
4240	53	01P	HT2	05/24/89	1.672	0.00	> 5.02	0.00	> 0.02
4241	46	07A	HT2	02/15/89	0.520	0.00	> 16.30	0.00	> 18.20
4241	46	0R2	HT2	08/08/89	1.242	0.00	> 16.00	0.00	> 0.00
4251	65	24Y	CEM	08/21/90	0.764	0.00	> 19.50	0.00	> 4.09
4251	65	1M1	HT2	05/16/90	1.152	0.00	> 0.49	0.00	> 0.00
4251	65	1TB	HT2	07/18/90	1.066	0.00	> 1.00	0.00	> 5.00
4277	74	34Z	CEM	11/13/90	0.767	0.00	> 45.10	0.00	> 0.00
4277	65	1M1	HT2	05/16/90	1.095	0.00	> 16.10	0.00	> 1.20
4277	74	34F	HT2	11/13/90	1.181	0.00	> 54.00	0.00	> 0.00
4278	61	02R	HT2	10/31/89	1.326	0.00	> 5.81	0.00	> 0.67
4278	61	10G	HT2	02/27/90	1.204	0.00	> 1.00	0.00	> 0.00
4281	61	02R	HT2	10/31/89	1.326	0.00	> 2.04	0.00	> 0.00
4281	61	14B	HT2	12/05/89	1.340	0.00	> 1.00	0.00	> 1.52
4282	8A	0DF	HT2	04/21/89	1.022	0.00	< 0.32	0.00	> 0.00
4282	8A	0FV	HT2	05/11/89	1.268	0.00	> 49.40	0.00	> 3.40
4283	8A	0FV	HT2	05/11/89	1.217	0.00	> 6.53	0.00	> 0.00
4286	8A	0FV	HT2	05/11/89	1.217	0.00	> 42.10	0.00	> 0.30
4287	8A	0M2	HT2	05/16/89	1.308	0.00	> 31.20	0.00	> 0.00
4342	74	34Z	CEM	11/13/90	0.749	0.00	> 6.71	0.00	> 0.00
4342	65	1M1	HT2	05/16/90	1.095	0.00	> 6.18	0.00	> 2.98
4342	74	34F	HT2	11/13/90	1.181	0.00	> 5.05	0.00	> 0.15
4357	65	1MK	HT2	05/16/90	1.098	0.52	> 16.10	> 30.97	> 51.81
4397	68	22T	CEM	08/15/90	0.961	0.00	> 100.00	0.00	> 8.09
4397	65	4CR	CEM	02/20/91	0.724	0.00	> 100.00	0.00	> 1.82
4397	68	1LA	HT2	08/01/90	1.292	0.00	> 53.80	0.00	> 1.20
4397	65	4CG	HT2	02/20/91	1.359	0.00	> 100.00	0.00	> 0.32
4453	45	02E	HT2	11/22/88	1.720	0.00	> 7.56	0.00	> 1.13
4454	45	02F	HT2	11/22/88	1.786	0.00	> 5.56	0.00	> 0.06
4455	45	02F	HT2	11/22/88	1.786	0.00	> 60.80	0.00	> 0.54
4456	45	02G	HT2	11/22/88	1.820	0.00	> 15.90	0.00	> 0.45
4457	45	02G	HT2	11/22/88	1.820	0.00	> 36.60	0.00	> 0.55
4458	45	02H	HT2	11/22/88	1.873	0.00	> 4.87	0.00	> 0.90
4459	45	02H	HT2	11/22/88	1.873	0.00	> 73.50	0.00	> 0.60
4460	45	02I	HT2	11/22/88	1.725	0.00	> 4.96	0.00	> 0.31
4461	45	02I	HT2	11/22/88	1.725	0.00	> 20.00	0.00	> 0.60
4462	45	02J	HT2	11/22/88	1.820	0.00	> 49.90	0.00	> 0.91
4463	45	02J	HT2	11/22/88	1.820	0.00	> 16.50	0.00	> 0.00
4466	45	02K	HT2	11/22/88	1.813	0.00	< 0.32	0.00	> 0.00
4465	45	02A	HT2	11/22/88	1.813	0.00	> 100.00	0.00	> 1.10

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plc #	Cell Linc	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
4466	45	02L	MT2	11/22/88	1.672	0.00	2.57	0.00	1.07
4468	45	02L	MT2	11/22/88	1.672	0.00	100.00	0.00	2.10
4469	45	02M	MT2	11/22/88	1.633	0.00	100.00	0.00	0.00
4470	45	02M	MT2	11/22/88	1.833	0.00	2.31	0.00	0.01
4471	45	02M	MT2	11/22/88	1.762	0.00	4.99	0.00	3.53
4472	45	02M	MT2	11/22/88	1.762	0.00	100.00	0.00	0.50
4473	45	022	MT2	11/22/88	1.801	0.00	100.00	0.00	1.30
4474	45	022	MT2	11/22/88	1.801	0.00	100.00	0.00	0.60
4475	45	023	MT2	11/22/88	1.840	0.00	100.00	0.00	1.10
4476	45	023	MT2	11/22/88	1.840	0.00	100.00	0.00	0.00
4477	68	1YU	CEM	08/02/90	0.882	0.00	15.50	0.00	4.89
4477	45	024	MT2	11/22/88	1.768	0.00	6.24	0.00	0.00
4478	45	024	MT2	11/22/88	1.768	0.00	35.00	0.00	0.00
4479	45	025	MT2	11/22/88	1.787	0.00	50.50	0.00	0.00
4480	45	025	MT2	11/22/88	1.787	0.00	100.00	0.00	3.90
4481	45	026	MT2	11/22/88	1.771	0.00	0.57	0.00	0.00
4482	45	026	MT2	11/22/88	1.771	0.00	7.25	0.00	0.00
4483	45	027	MT2	11/22/88	1.914	0.00	17.10	0.00	0.50
4484	45	027	MT2	11/22/88	1.914	0.00	5.53	0.00	0.00
4485	45	028	MT2	11/22/88	1.832	0.00	100.00	0.00	0.00
4486	45	028	MT2	11/22/88	1.832	0.00	50.10	0.00	0.50
4487	45	029	MT2	11/22/88	1.947	0.00	100.00	0.00	0.89
4488	45	029	MT2	11/22/88	1.947	0.00	1.49	0.00	0.00
4489	45	02A	MT2	11/22/88	1.936	0.00	0.44	0.00	0.00
4490	45	020	MT2	11/22/88	1.821	0.00	4.40	0.00	0.00
4491	45	020	MT2	11/22/88	1.821	0.00	5.66	0.00	0.50
4494	45	02M	MT2	11/29/88	1.511	0.00	6.14	0.00	1.91
4495	45	02M	MT2	11/29/88	1.811	0.00	0.93	0.00	0.10
4496	45	025	MT2	11/29/88	1.839	0.00	15.30	0.00	7.21
4497	45	025	MT2	11/29/88	1.839	0.00	100.00	0.00	5.00
4498	45	02T	MT2	11/29/88	1.865	0.00	0.32	0.00	0.00
4499	45	02T	MT2	11/29/88	1.865	0.00	0.32	0.00	0.00
4500	45	02U	MT2	11/29/88	1.885	0.00	6.77	0.00	0.46
4501	45	02U	MT2	11/29/88	1.885	0.00	0.32	0.00	0.00
4502	45	02V	MT2	11/29/88	1.793	0.00	100.00	0.00	0.00
4503	45	02V	MT2	11/29/88	1.793	0.00	51.30	0.00	0.60
4504	45	02V	MT2	11/29/88	1.791	0.00	14.90	0.00	0.69
4505	45	02V	MT2	11/29/88	1.791	0.00	100.00	0.00	0.00
4506	45	02X	MT2	11/29/88	1.698	0.00	50.90	0.00	0.00
4507	45	02X	MT2	11/29/88	1.698	0.00	0.32	0.00	0.00
4508	45	022	MT2	11/29/88	1.298	0.00	8.43	0.00	2.81
4509	45	022	MT2	11/29/88	1.298	0.00	100.00	0.00	6.97
4510	45	030	MT2	11/29/88	1.339	0.00	9.74	0.00	3.71
4511	45	041	MT2	12/21/88	1.114	0.00	21.00	0.00	5.32
4512	45	030	MT2	11/29/88	1.339	0.00	0.32	0.00	0.00
4513	45	031	MT2	11/29/88	1.466	0.00	6.47	0.00	3.90
4514	45	031	MT2	11/29/88	1.466	0.00	0.32	0.00	0.00
4515	45	032	MT2	11/29/88	1.381	0.00	8.87	0.00	1.93
4516	45	032	MT2	11/29/88	1.381	0.00	1.43	0.00	0.42
4517	45	033	MT2	11/29/88	1.447	0.00	0.32	0.00	0.00
4518	45	033	MT2	11/29/88	1.447	0.00	8.40	0.00	0.65
4519	45	034	MT2	11/29/88	1.129	0.00	19.00	0.00	7.50
4520	45	034	MT2	11/29/88	1.129	0.00	22.50	0.00	2.50
4521	45	035	MT2	11/29/88	1.269	0.00	6.60	0.00	3.06
4522	45	035	MT2	11/29/88	1.269	0.00	7.45	0.00	0.71
4523	45	036	MT2	11/29/88	1.325	0.00	20.00	0.00	4.42
4524	45	036	MT2	11/29/88	1.325	0.00	7.28	0.00	1.47
4525	45	037	MT2	11/29/88	1.395	0.00	69.10	0.00	4.75
4590	61	023	MT2	10/31/89	1.329	0.00	4.35	0.00	0.00
4592	61	023	MT2	10/31/89	1.329	0.00	16.50	0.00	0.68
4593	12A	306	CEM	11/01/90	1.261	54.30	100.00	1.19	9.24
4593	12A	305	CEM	11/14/90	0.731	54.00	1000.0	15.64	41.68
4593	12A	229	MT2	11/01/90	1.221	52.80	100.00	1.89	13.00
4593	12A	35K	MT2	11/14/90	0.668	143.00	1000.0	6.98	33.96
4594	3A	04Z	CEM	03/28/89	1.163	0.00	4.95	1.00	1.47
4594	3A	02A	MT2	11/22/88	1.936	0.00	4.97	0.00	0.00
4594	46	08Z	MT2	08/08/89	1.242	0.00	5.27	0.00	0.58
4594	3A	011	MT2	11/17/88	1.104	0.00	100.00	0.00	0.00
4597	3A	011	MT2	11/17/88	1.104	0.00	100.00	0.00	0.94
4599	6A	011	MT2	11/22/88	1.603	0.00	10.00	0.00	6.29
4610	65	22U	CEM	08/15/90	1.046	5.45	100.00	18.53	40.54
4611	74	350	CEM	11/13/90	0.822	1.41	100.00	70.89	75.29
4611	65	40R	CEM	02/20/91	0.724	0.81	100.00	183.56	83.70
4611	74	34G	MT2	11/13/90	1.179	1.64	12.30	7.52	29.49
4611	65	40G	MT2	02/20/91	1.359	0.37	29.00	78.79	65.94
4729	8A	07X	MT2	05/11/89	1.364	0.00	100.00	0.00	13.49
4730	8A	10Z	CEM	10/17/90	1.69	100.00	64.10	1.56	7.29
4730	7A	307	CEM	11/01/90	1.161	0.32	100.00	312.50	99.50

Cumulative Summary (cont'd)

AVC No.	Ship- ment	Plt Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
4730	8A	365 CEM	11/14/90	0.731 <	0.01 >	1000.0 >	0.00 >	99.10
4730	8A	0FX MT2	05/11/89	1.364	87.50 >	100.00 >	1.14 >	9.33
4730	8A	110 MT2	10/31/90	1.05 >	100.00	0.00	0.00 >	13.11
4730	8A	22P MT2	11/01/90	1.221 <	0.32 >	100.00 >	312.50 >	97.90
4730	8A	35K MT2	11/14/90	0.668 <	0.01 >	1000.0 >	0.00 >	97.70
4731	8A	0FY MT2	05/11/89	1.443	0.00	64.60	0.00	0.00
4732	8A	0FY MT2	05/11/89	1.443	0.00 >	100.00	0.00	0.20
4732	8A	102 CEM	10/17/90	1.69	72.40	0.00	0.00	0.12
4732	8A	110 MT2	10/31/90	1.05	81.90	0.00	0.00 >	0.10
4733	8A	0F2 MT2	05/11/89	1.289	0.00 >	100.00	0.00	0.00
4734	8A	103 CEM	10/17/90	1.77 >	100.00	0.00	0.00 >	4.82
4734	8A	0F2 MT2	05/11/89	1.289	0.00 >	100.00	0.00 >	0.02
4734	8A	11E MT2	10/31/90	0.95	85.20	0.00	0.00 >	3.10
4737	67	101 MT2	07/25/90	1.315	0.00	51.40	0.00 >	5.64
4738	67	104 MT2	07/25/90	1.212	0.00	69.00	0.00 >	0.80
4796	61	0ZT MT2	10/31/89	1.426	0.00	54.70	0.00	0.02
4825	61	0ZT MT2	10/31/89	1.426	0.00	67.70	0.00	1.31
4827	61	0ZU MT2	10/31/89	1.369	0.00 >	100.00	0.00 >	1.64
4848	61	0ZU MT2	10/31/89	1.369	0.00	65.50	0.00	0.00
4849	61	0ZV MT2	10/31/89	1.484	0.00 >	100.00	0.00	0.00
4851	61	0ZV MT2	10/31/89	1.484	0.00 >	100.00	0.00	1.58
4855	61	112 MT2	11/02/89	1.328	0.00 >	100.00	0.00	0.26
4861	61	112 MT2	11/02/89	1.328	0.00 >	100.00	0.00 >	0.30
4864	46	07A MT2	02/15/89	0.520	17.90	52.00	2.91 >	30.48
4864	46	0PW MT2	07/25/89	1.080	0.00	46.60	0.00	1.42
4864	46	001 MT2	08/08/89	1.289	0.00	65.50	0.00	0.14
4865	46	07B MT2	02/15/89	0.816	0.00	0.14	0.00	0.00
4865	46	00J MT2	08/08/89	1.265	0.00 >	100.00	0.00 >	0.02
4866	46	05W MT2	02/07/89	0.777	0.00	83.00	0.00	2.38
4867	46	07C MT2	02/15/89	0.831	0.00 <	0.32	0.00	0.00
4867	46	00J MT2	08/08/89	1.265	0.00	0.47	0.00	0.00
4868	46	07C MT2	02/15/89	0.831	0.00 <	0.32	0.00	0.00
4868	46	089 MT2	08/08/89	1.384	0.00 <	0.32	0.00	0.00
4869	46	070 MT2	02/15/89	0.885	0.00 <	0.32	0.00	0.00
4869	46	089 MT2	08/08/89	1.384	0.00 <	0.32	0.00	0.00
4870	46	070 MT2	02/15/89	0.885	0.00	1.57	0.00	1.53
4870	46	08A MT2	08/08/89	1.517	0.00	1.92	0.00 >	0.30
4871	46	07E MT2	02/15/89	0.774	0.00	14.80	0.00	6.52
4871	46	08A MT2	08/08/89	1.517	0.00	17.20	0.00	3.51
4871	61	113 MT2	11/02/89	1.396	0.00	18.70	0.00	2.42
4872	46	07F MT2	02/15/89	0.874	0.00	92.70	0.00	7.16
4872	46	08B MT2	08/08/89	1.339	0.00 >	100.00	0.00 >	0.10
4873	46	07E MT2	02/15/89	0.774	0.00 >	100.00	0.00 >	7.71
4873	46	08B MT2	08/08/89	1.339	0.00 >	100.00	0.00 >	0.55
4874	46	07F MT2	02/15/89	0.874	0.00 >	100.00	0.00	3.48
4874	46	08L MT2	08/09/89	1.223	0.00 >	100.00	0.00	0.86
4875	46	07G MT2	02/15/89	0.922	0.00 >	100.00	0.00 >	4.21
4875	46	08L MT2	08/09/89	1.223	0.00 >	100.00	0.00	0.00
4876	46	07G MT2	02/15/89	0.922	0.00	49.70	0.00	0.00
4876	46	08M MT2	08/09/89	1.149	0.00 >	100.00	0.00	0.00
4877	46	05Q MT2	02/01/89	0.941	0.00	28.30	0.00 >	1.70
4878	46	05R MT2	02/01/89	0.970	0.00	91.80	0.00	0.40
4879	46	05R MT2	02/01/89	0.970	0.00	70.90	0.00	1.15
4880	46	05B MT2	02/01/89	0.853	0.00	61.80	0.00	0.00
4881	46	05B MT2	02/01/89	0.853	0.00	7.67	0.00	0.39
4882	46	05T MT2	02/01/89	0.908	0.00	15.50	0.00	0.00
4883	46	05T MT2	02/01/89	0.908	0.00 >	100.00	0.00 >	1.26
4884	46	05U MT2	02/01/89	0.973	0.00 >	100.00	0.00 >	3.80
4885	46	05U MT2	02/01/89	0.973	0.00	43.10	0.00	2.08
4886	46	05V MT2	02/01/89	0.863	0.00	46.60	0.00	0.00
4887	46	05V MT2	02/01/89	0.863	0.00	4.94	0.00	0.00
4888	46	05K MT2	02/01/89	0.792	0.00 >	100.00	0.00	0.00
4889	46	05L MT2	02/01/89	0.711	0.00	50.00	0.00	0.00
4890	46	05L MT2	02/01/89	0.711	0.00	32.00	0.00	0.00
4891	46	05M MT2	02/01/89	0.871	0.00 <	0.32	0.00	0.00
4892	46	05M MT2	02/01/89	0.871	0.00	55.90	0.00	0.00
4893	46	05M MT2	02/01/89	0.897	0.00 >	100.00	0.00 >	1.18
4894	46	05M MT2	02/01/89	0.897	0.00 >	100.00	0.00	1.00
4895	46	05X MT2	02/07/89	0.664	0.00	19.80	0.00	6.90
4896	46	050 MT2	02/01/89	0.867	0.00	53.30	0.00	4.76
4897	46	050 MT2	02/01/89	0.867	0.00	49.00	0.00	0.00
4897	61	113 MT2	11/02/89	1.396	0.00 >	100.00	0.00	0.00
4898	46	05P MT2	02/01/89	1.086	0.00	1.56	0.00 >	0.50
4899	46	05K MT2	02/07/89	0.666	0.00 <	0.32	0.00	0.00
4900	46	05Y MT2	02/07/89	0.899	0.00 <	0.32	0.00	0.00
4901	46	05Y MT2	02/07/89	0.899	0.00	4.70	0.00	1.81
4902	46	05Z MT2	02/07/89	0.924	0.00 <	0.32	0.00	0.00
4903	46	05Z MT2	02/07/89	0.924	0.00 <	0.32	0.00	0.00

Cumulative Summary (cont'd)

AVE No.	Ship- ment	Pic #	Cell Line	Test Date	Diff- mti.	TC 50	TC 25	SI	TAT
4904	46	060	MT2	02/07/89	0.934	0.00	2.47	0.00	0.00
4905	46	060	MT2	02/07/89	0.934	0.00	0.32	0.00	0.00
4906	46	061	MT2	02/07/89	0.747	0.00	3.32	0.00	0.00
4907	46	061	MT2	02/07/89	0.747	0.00	0.32	0.00	0.00
4908	46	062	MT2	02/07/89	0.631	0.00	55.90	0.00	5.36
4909	46	063	MT2	02/07/89	0.637	0.00	47.80	0.00	6.34
4910	46	063	MT2	02/07/89	0.637	0.00	58.30	0.00	9.27
4911	46	064	MT2	02/07/89	0.548	0.32	11.50	36.00	18.18
4911	46	064	MT2	07/25/89	1.080	0.00	2.67	0.00	0.00
4911	65	14K	MT2	05/16/90	1.098	0.00	18.20	0.00	0.00
4912	46	064	MT2	02/07/89	0.548	0.00	100.00	0.00	15.20
4913	46	063	MT2	08/08/89	1.208	0.00	100.00	0.00	5.82
4914	46	063	MT2	08/08/89	1.208	0.00	9.74	0.00	1.04
4915	45	225	CEM	08/15/90	1.062	0.00	40.79	0.00	0.00
4915	46	066	MT2	02/07/89	0.590	0.32	39.10	122.00	13.79
4915	61	114	MT2	11/02/89	1.401	0.00	16.90	0.00	0.00
4916	46	066	MT2	02/07/89	0.590	0.00	6.60	0.00	10.52
4917	46	067	MT2	02/07/89	0.519	0.00	16.80	0.00	13.92
4918	46	067	MT2	02/07/89	0.519	23.20	100.00	4.30	36.96
4918	46	064	MT2	07/25/89	0.924	0.00	0.36	0.00	0.00
4918	61	114	MT2	11/02/89	1.401	0.00	19.20	0.00	0.00
4918	65	142	MT2	05/16/90	1.179	0.00	52.20	0.00	1.10
4919	46	064	MT2	08/08/89	1.217	0.00	28.20	0.00	1.56
4919	61	115	MT2	11/02/89	1.405	0.00	49.90	0.00	1.81
4920	46	064	MT2	08/08/89	1.217	0.00	36.30	0.00	1.14
4921	46	065	MT2	08/08/89	1.259	0.00	6.36	0.00	0.00
4923	65	242	CEM	08/21/90	0.830	0.32	97.40	304.33	73.94
4923	66	06X	MT2	08/03/89	0.896	0.42	15.50	37.24	58.53
4923	65	142	MT2	05/16/90	1.179	0.22	100.00	312.50	96.73
4923	65	119	MT2	07/18/90	1.039	0.38	1.00	12.56	30.40
4924	46	06X	MT2	08/03/89	0.896	0.00	0.49	0.00	0.00
4925	46	06Y	MT2	08/03/89	1.032	0.00	6.42	0.00	1.38
4926	46	06Y	MT2	08/03/89	1.032	0.00	48.00	0.00	2.85
4927	46	06Z	MT2	08/03/89	0.924	0.00	100.00	0.00	12.97
4928	46	06Z	MT2	08/03/89	0.924	0.00	100.00	0.00	0.24
4929	4A	01U	MT2	11/22/88	1.500	0.00	3.20	0.00	4.40
4930	4A	01U	MT2	11/22/88	1.500	0.00	3.20	0.00	2.88
4931	4A	01V	MT2	11/22/88	1.322	0.00	3.20	0.00	0.00
4932	51	0FR	MT2	05/09/89	1.227	0.00	57.30	0.00	0.76
4933	51	0FR	MT2	05/09/89	1.227	0.00	17.40	0.00	1.61
4934	51	0FR	MT2	05/09/89	1.227	0.00	38.60	0.00	0.37
4935	51	066	MT2	05/10/89	1.277	0.00	28.30	0.00	0.00
4936	51	063	MT2	05/10/89	1.188	0.00	100.00	0.00	1.73
4937	51	063	MT2	05/10/89	1.188	0.00	49.20	0.00	1.46
4938	51	064	MT2	05/10/89	0.977	0.00	100.00	0.00	0.30
4939	51	064	MT2	04/06/89	1.540	0.00	44.10	0.00	0.10
4940	51	064	MT2	04/06/89	1.540	0.00	15.50	0.00	1.25
4941	51	064	MT2	04/06/89	1.604	0.00	48.10	0.00	0.00
4942	51	064	MT2	04/06/89	1.604	0.00	77.30	0.00	0.20
4943	51	064	MT2	04/06/89	1.709	0.00	4.50	0.00	0.00
4944	51	064	MT2	04/06/89	1.709	0.00	18.10	0.00	0.00
4945	51	060	MT2	04/06/89	1.597	0.00	1.94	0.00	0.00
4946	51	060	MT2	04/06/89	1.597	0.00	21.00	0.00	0.11
4947	51	06P	MT2	04/06/89	1.297	0.00	1.30	0.00	0.00
4948	51	06P	MT2	04/06/89	1.297	0.00	100.00	0.00	0.00
4949	51	0F8	MT2	05/09/89	1.307	0.00	45.60	0.00	0.75
4950	51	0F8	MT2	05/09/89	1.307	0.00	0.67	0.00	0.00
4951	51	0F7	MT2	05/09/89	1.183	0.00	16.00	0.00	0.00
4953	51	0F7	MT2	05/09/89	1.183	0.00	16.20	0.00	0.31
4954	51	0G4	MT2	05/10/89	0.977	0.00	100.00	0.00	1.00
4955	51	0G5	MT2	05/10/89	1.076	0.00	0.32	0.00	0.00
4955	51	114	MT2	11/07/89	1.446	0.00	0.02	0.00	0.16
4955	53	14A	MT2	12/05/89	1.416	0.00	0.01	0.00	0.00
4956	51	0G5	MT2	05/10/89	1.076	0.00	100.00	0.00	1.50
4957	51	0G6	MT2	05/10/89	0.984	0.00	26.70	0.00	2.07
4958	51	0G6	MT2	05/10/89	0.984	0.00	0.56	0.00	0.00
4959	51	0G7	MT2	05/10/89	0.980	0.00	100.00	0.00	2.10
4960	51	0G7	MT2	05/10/89	0.980	0.00	17.90	0.00	0.00
4961	51	0G8	MT2	05/10/89	1.154	0.00	60.80	0.00	1.86
4962	51	0G8	MT2	05/10/89	1.154	0.00	53.50	0.00	0.11
4965	51	0G9	MT2	05/10/89	1.044	0.00	50.10	0.00	0.00
4966	51	0G9	MT2	05/10/89	1.044	0.00	24.10	0.00	1.00
4967	51	0GA	MT2	05/10/89	1.113	0.00	100.00	0.00	5.48
4968	51	0GA	MT2	05/10/89	1.113	0.00	100.00	0.00	2.03
4970	51	0GU	MT2	05/17/89	1.172	0.00	15.50	0.00	1.06
4970	51	0GU	MT2	05/17/89	1.172	0.00	24.90	0.00	2.73
4971	51	0GV	MT2	05/17/89	1.329	0.00	100.00	0.00	0.60
4972	51	0GV	MT2	05/17/89	1.329	0.00	47.90	0.00	0.70

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt Cell & Line	Test Date	Diff- rml.	IC 50	TC 25	SI	TAI
4973	51	OGW HT2	05/17/89	1.105	0.00	50.50	0.00	1.21
4974	51	OGW HT2	05/17/89	1.105	0.00	83.50	0.00	0.91
4975	51	OGX HT2	05/17/89	1.480	0.00	100.00	0.00	0.00
4976	51	OGX HT2	05/17/89	1.480	0.00	48.20	0.00	0.32
4977	51	OGY HT2	05/17/89	1.274	0.00	80.60	0.30	4.14
4978	51	OGY HT2	05/17/89	1.274	0.00	100.00	0.30	0.44
4979	51	OJ3 HT2	05/23/89	0.919	0.00	16.10	0.00	11.21
4980	51	OJ3 HT2	05/23/89	0.919	0.00	1.63	0.00	1.43
4981	51	OJ4 HT2	05/23/89	0.863	0.00	100.00	0.00	12.11
4982	51	OJ4 HT2	05/23/89	0.863	0.00	63.50	0.00	12.83
4983	51	OJ5 HT2	05/23/89	1.040	0.00	21.70	0.00	2.31
4984	51	OJ5 HT2	05/23/89	1.040	0.00	16.30	0.00	0.51
4985	51	OJ6 HT2	05/23/89	0.984	0.00	15.50	0.00	1.70
4986	51	OJ6 HT2	05/23/89	0.984	0.00	100.00	0.00	9.30
4987	51	OJ7 HT2	05/23/89	0.859	0.00	21.00	0.00	8.26
4988	51	OJ7 HT2	05/23/89	0.859	0.00	49.00	0.00	5.89
4990	51	OH6 HT2	05/16/89	1.277	0.00	0.32	0.00	0.00
4990	51	11W HT2	11/07/89	1.445	0.00	1.00	0.00	12.45
4991	51	OH7 HT2	05/16/89	1.380	0.00	100.00	0.00	6.73
4992	51	OH7 HT2	05/16/89	1.380	0.00	100.00	0.00	2.79
4993	51	OH8 HT2	05/16/89	0.500	0.00	63.50	0.00	23.39
4993	53	OK1 HT2	05/25/89	1.273	0.00	48.50	0.00	0.20
4993	51	OLP HT2	06/20/89	1.803	0.00	61.30	0.00	0.00
4993	51	OLR HT2	06/20/89	0.873	0.00	62.90	0.00	0.00
4994	51	O17 HT2	05/17/89	1.154	0.00	48.50	0.00	1.00
4995	51	O15 HT2	05/17/89	1.275	0.00	18.60	0.00	0.00
4996	51	O15 HT2	05/17/89	1.275	0.00	100.00	0.00	0.00
4997	51	O16 HT2	05/17/89	1.196	0.00	100.00	0.00	0.11
4998	51	O16 HT2	05/17/89	1.196	0.00	29.80	0.00	0.41
4999	51	O17 HT2	05/17/89	1.154	0.00	6.53	0.00	0.72
5010	11A	103 CEM	10/17/90	1.77	100.00	0.00	0.00	1.70
5010	11A	086 HT2	03/28/89	1.416	0.00	100.00	0.00	1.27
5011	11A	11E HT2	10/31/90	0.95	100.00	0.00	0.00	1.90
5011	11A	104 CEM	10/17/90	1.77	100.00	0.00	0.00	1.20
5011	11A	086 HT2	03/28/89	1.416	0.00	79.20	0.00	0.20
5011	11A	11F HT2	10/31/90	0.99	100.00	0.00	0.00	2.34
5013	11A	104 CEM	10/17/90	1.77	100.00	0.00	0.00	3.30
5013	11A	087 HT2	03/28/89	1.427	0.00	79.20	0.00	3.37
5013	11A	11G HT2	10/31/90	0.99	100.00	0.00	0.00	1.30
5019	11A	082 HT2	03/28/89	1.417	0.00	100.00	0.00	0.30
5024	4A	080 CEM	03/28/89	1.465	0.00	4.65	0.00	0.77
5024	4A	01V HT2	11/22/88	1.322	0.00	4.90	0.00	0.00
5024	4A	060 HT2	08/09/89	1.127	73.70	100.00	1.36	5.46
5025	65	4CS CEM	02/20/91	0.603	7.90	7.73	0.98	33.75
5025	8A	060 HT2	05/11/89	1.268	34.80	100.00	2.87	21.54
5025	52	060 HT2	08/01/89	1.223	11.80	100.00	8.44	33.60
5025	68	1WV HT2	08/01/90	1.296	55.90	100.00	1.79	15.35
5025	65	4CH HT2	02/20/91	1.452	2.21	79.90	36.21	57.36
5026	8A	060 HT2	05/11/89	1.268	0.00	100.00	0.00	0.70
5027	4A	080 CEM	03/28/89	1.465	48.10	100.00	2.08	19.37
5027	4A	04Z HT2	01/16/89	0.645	0.00	5.01	0.00	1.90
5027	4A	05P HT2	02/01/89	1.086	0.00	5.30	0.00	2.89
5027	4A	0PE HT2	07/26/89	1.205	0.00	4.85	0.00	0.00
5028	8A	061 HT2	05/11/89	1.442	0.00	100.00	0.00	0.00
5029	48	062 HT2	02/14/89	0.879	0.00	1.78	0.00	0.79
5030	48	070 HT2	02/14/89	0.828	0.00	26.20	0.00	4.26
5031	48	070 HT2	02/14/89	0.828	0.00	16.70	0.00	3.01
5032	48	071 HT2	02/14/89	0.923	0.00	19.30	0.00	2.21
5032	48	071 HT2	02/14/89	0.923	0.00	20.60	0.00	0.21
5034	48	072 HT2	02/14/89	1.000	0.00	100.00	0.00	3.84
5035	48	072 HT2	02/14/89	1.000	0.00	0.17	0.00	0.42
5036	48	073 HT2	02/14/89	1.013	0.00	100.00	0.00	2.31
5037	48	073 HT2	02/14/89	1.013	0.00	100.00	0.00	8.42
5038	48	074 HT2	02/14/89	0.882	0.00	100.00	0.00	0.00
5040	45	03C HT2	12/01/88	1.958	0.00	36.31	0.00	1.20
5041	45	03C HT2	12/01/88	1.958	0.00	100.00	0.00	0.00
5042	45	030 HT2	12/01/88	1.993	0.00	100.00	0.00	7.21
5047	48	074 HT2	02/14/89	0.882	0.00	100.00	0.00	0.05
5048	45	01W HT2	11/22/88	0.851	0.00	100.00	0.00	14.90
5048	48	06T HT2	02/14/89	0.639	0.00	100.00	0.00	6.71
5049	48	06L HT2	02/14/89	0.638	0.00	0.78	0.00	0.00
5050	48	06W HT2	02/14/89	0.630	0.00	0.56	0.00	0.00
5051	48	06V HT2	02/14/89	0.715	0.00	0.46	0.00	0.00
5052	48	06Y HT2	02/14/89	0.715	0.00	100.00	0.00	3.10
5053	48	06Z HT2	02/14/89	0.645	0.00	12.40	0.00	3.86
5054	48	06A HT2	02/14/89	0.645	0.00	100.00	0.00	1.50
5059	48	06X HT2	02/14/89	0.643	0.00	100.00	0.00	8.71
5060	48	06X HT2	02/14/89	0.643	0.00	100.00	0.00	6.14

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Pit Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
5061	48	06Y	HT2	02/14/89	0.757	0.00	49.80	0.00 > 4.46
5062	48	06Y	HT2	02/14/89	0.757	0.00	97.40	0.00 0.94
5063	65	4CS	CEM	02/20/91	0.903	0.00	35.40	0.00 0.00
5063	48	0PP	HT2	07/25/89	0.916	0.00 >	100.00	0.00 > 2.78
5063	65	4CN	HT2	02/20/91	1.452	0.00	63.50	0.00 0.09
5065	74	350	CEM	11/13/90	0.822	0.00 >	100.00	0.00 0.00
5065	65	4CT	CEM	02/20/91	0.882	0.00 >	100.00	0.00 > 0.14
5065	48	3PH	HT2	07/25/89	0.990	0.00 >	100.00	0.00 0.72
5065	74	34G	HT2	11/13/90	1.179	0.00 >	100.00	3.00 0.00
5065	65	4C1	HT2	02/20/91	1.432	0.00 >	100.00	0.00 0.00
5066	65	22R	CEM	08/15/90	1.060	0.00 >	100.00	0.00 > 0.03
5066	48	0PQ	HT2	07/25/89	0.990	0.00 >	100.00	0.00 > 5.61
5067	48	0PR	HT2	07/25/89	1.016	0.00 >	100.00	0.00 > 10.37
5068	48	020	HT2	10/12/89	1.425	3.00	59.40	0.00 0.24
5069	48	020	HT2	10/12/89	1.425	0.00	72.50	0.00 0.32
5070	65	4CT	CEM	02/20/91	0.882	0.00	45.20	0.00 0.00
5070	48	07X	HT2	02/16/89	0.845	2.69 >	100.00	37.10 > 29.60
5070	48	0PH	HT2	07/25/89	1.016	0.00	17.60	0.00 2.28
5070	48	021	HT2	10/12/89	1.382	0.00	21.00	0.00 > 2.04
5070	65	4C1	HT2	02/20/91	1.432	0.00	48.10	0.00 0.00
5071	65	22R	CEM	08/15/90	1.062	0.00	6.96	0.00 0.00
5071	48	07X	HT2	02/16/89	0.845	0.34	48.60	143.00 > 30.12
5071	48	0PQ	HT2	07/25/89	1.024	0.00	11.30	0.00 > 2.28
5071	48	021	HT2	10/12/89	1.382	0.00	4.95	0.00 0.00
5071	61	115	HT2	11/02/89	1.405	0.00	7.25	0.00 0.00
5072	48	07Y	HT2	02/16/89	0.785	0.00	67.60	0.00 17.47
5072	48	022	HT2	10/12/89	1.354	0.00	56.30	0.00 > 2.19
5073	7A	02B	HT2	11/22/88	1.913	0.00 >	100.00	0.00 0.00
5074	7A	02B	HT2	11/22/88	1.913	0.00 >	100.00	0.00 0.66
5075	74	351	CEM	11/13/90	0.758	0.00	5.47	0.00 0.00
5075	48	07Y	HT2	02/16/89	0.785	0.64	17.20	26.80 > 24.74
5075	48	0PQ	HT2	07/25/89	1.024	3.00	60.30	0.00 > 6.73
5075	74	34H	HT2	11/13/90	1.203	0.00	19.30	0.00 0.81
5080	51	01E	HT2	05/22/89	1.293	0.00 >	100.00	0.00 > 4.41
5081	51	01E	HT2	05/22/89	1.293	0.00	6.90	0.00 > 0.14
5082	51	01F	HT2	05/22/89	1.268	0.00 <	0.32	0.00 0.00
5082	51	11X	HT2	11/07/89	1.475	0.00 >	1.00	0.00 0.13
5083	51	01F	HT2	05/22/89	1.268	0.00 <	0.32	0.00 0.00
5083	51	11X	HT2	11/07/89	1.475	0.50	0.01	0.00 0.00
5084	51	01G	HT2	05/22/89	1.193	0.00	11.50	0.00 > 1.70
5085	51	01G	HT2	05/22/89	1.193	0.00 <	0.32	0.00 0.00
5085	51	11Y	HT2	11/07/89	1.477	0.00 >	1.00	0.00 1.33
5086	51	01H	HT2	05/22/89	1.232	0.00 >	100.00	0.00 > 5.20
5087	56	1L2	HT2	05/03/90	1.185	0.00 >	100.00	0.00 0.80
5088	56	1L3	HT2	05/03/90	1.209	0.00 >	100.00	0.00 > 2.55
5089	56	1L3	HT2	05/03/90	1.209	0.00 >	100.00	0.00 > 0.70
5090	56	1L4	HT2	05/03/90	1.161	0.00 >	100.00	0.00 > 3.13
5091	56	1L4	HT2	05/03/90	1.161	0.00	0.72	0.00 0.00
5091	56	10B	HT2	05/22/90	1.085	0.00	0.78	0.00 > 17.47
5092	56	1L5	HT2	05/03/90	1.198	0.00	15.50	0.00 0.75
5093	56	1L3	HT2	05/03/90	1.198	0.00 <	0.32	0.00 0.00
5093	56	10B	HT2	05/22/90	1.085	0.00	0.04	0.00 > 0.84
5094	56	1L7	HT2	05/02/90	1.157	0.00	45.20	0.00 1.01
5095	56	1L7	HT2	05/02/90	1.157	0.00 >	100.00	0.00 > 0.88
5096	56	1L8	HT2	05/02/90	1.155	0.00	1.55	0.00 > 0.20
5097	56	205	CEM	08/07/90	1.135	0.00 >	100.00	0.00 0.31
5097	56	1L8	HT2	05/02/90	1.155	0.00 >	100.00	0.00 > 3.30
5098	56	10W	CEM	07/19/90	0.767	0.00 >	100.00	0.00 > 2.38
5098	56	1L9	HT2	05/02/90	1.154	0.00 >	100.00	0.00 > 5.29
5099	56	11N	CEM	07/17/90	1.357	0.00 >	100.00	0.00 > 3.06
5099	56	1L9	HT2	05/02/90	1.154	0.00 >	100.00	0.00 > 4.51
5100	56	1LA	HT2	05/02/90	1.094	0.00 <	0.32	0.00 0.00
5100	56	109	HT2	05/22/90	1.025	0.00 <	0.32	0.00 0.00
5101	56	1LA	HT2	05/02/90	1.094	0.00	17.20	0.00 0.80
5102	56	1L8	HT2	05/02/90	1.125	0.00	18.70	0.00 > 0.78
5103	56	1L8	HT2	05/02/90	1.125	0.00	17.50	0.00 > 2.40
5104	56	1K0	HT2	05/02/90	1.201	0.00 <	0.32	0.00 0.00
5104	56	109	HT2	05/22/90	1.025	0.00 <	0.32	0.00 0.00
5105	56	11K	CEM	07/17/90	1.425	10.00	55.50	5.53 > 28.82
5105	73	2GH	CEM	09/28/90	0.873	0.00	39.00	0.00 1.97
5105	56	1K0	HT2	05/02/90	1.201	0.00 >	100.00	0.00 > 2.29
5105	73	2G3	HT2	09/28/90	1.052	0.00	51.60	0.00 0.00
5106	56	1K0	HT2	05/02/90	1.219	0.00 <	0.32	0.00 0.00
5106	56	10A	HT2	05/22/90	1.110	0.00 <	0.32	0.00 0.00
5107	56	1K0	HT2	05/02/90	1.219	0.00	15.50	0.00 1.20
5108	56	11K	CEM	07/17/90	1.425	0.50 >	100.00	0.00 > 7.40
5108	56	1KY	HT2	05/02/90	1.226	0.00 >	100.00	0.00 > 2.50
5109	56	11L	CEM	07/17/90	1.368	0.00 >	100.00	0.00 0.84

Cumulative Summary (cont'd)

AVR No.	Ship- ment	Pit Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	\$I	TAI
5109	56	1K1	05/02/90	1.226	0.00	> 100.00	0.00	> 1.60
5110	56	1K2	05/02/90	1.161	0.00	5.54	0.00	0.00
5111	56	17L	07/17/90	1.368	0.00	> 100.00	0.00	> 1.41
5111	56	1K2	05/02/90	1.161	0.00	> 100.00	0.00	> 6.00
5112	56	1L0	05/02/90	1.243	0.00	0.47	0.00	0.00
5112	56	10A	05/22/90	1.110	0.00	0.60	0.00	> 0.23
5113	56	1L0	05/02/90	1.243	0.00	4.53	0.00	0.25
5114	56	1RW	07/05/90	1.175	67.50	> 100.00	1.48	> 18.65
5114	56	1M3	05/08/90	1.023	0.00	> 100.00	0.00	> 3.90
5115	56	1M3	05/08/90	1.023	0.00	> 100.00	0.00	> 4.11
5116	56	1M4	05/08/90	0.966	0.00	> 100.00	0.00	2.93
5117	56	1M4	05/08/90	0.966	0.00	4.95	0.00	1.06
5118	56	1M5	05/08/90	1.055	0.00	> 100.00	0.00	> 3.80
5119	56	1M5	05/08/90	1.055	0.00	9.50	0.00	> 0.20
5120	56	1M6	05/08/90	1.194	0.00	54.10	0.00	> 5.83
5121	74	351	11/13/90	0.758	2.83	62.90	22.22	> 54.12
5121	56	1M6	05/08/90	1.194	17.70	53.30	3.00	> 19.53
5121	74	34H	11/13/90	1.203	17.00	56.00	3.29	19.62
5122	56	1M7	05/08/90	1.060	0.00	> 100.00	0.00	> 3.30
5123	56	1M7	05/08/90	1.060	0.00	26.70	0.00	0.00
5124	56	1M8	05/08/90	1.189	0.00	5.30	0.00	> 5.81
5124	58	1LX	05/10/90	0.917	0.00	> 100.00	0.00	> 5.28
5126	56	1M8	05/08/90	1.189	0.00	17.50	0.00	> 8.49
5128	56	1M9	05/08/90	1.164	0.00	15.60	0.00	> 2.30
5129	56	1RW	07/05/90	1.175	0.00	> 100.00	0.00	> 5.40
5129	56	1M9	05/08/90	1.164	0.00	> 100.00	0.00	> 6.20
5130	56	1M4	05/08/90	0.960	0.00	5.24	0.00	> 4.37
5131	56	1M4	05/08/90	0.960	0.00	0.64	0.00	> 0.08
5131	56	10C	05/22/90	1.078	0.00	> 1.00	0.00	> 7.60
5132	56	1M8	05/08/90	1.075	0.00	4.85	0.00	0.00
5133	56	1M8	05/08/90	1.075	0.00	1.57	0.00	0.00
5134	57	083	08/17/89	1.303	0.00	> 100.00	0.00	> 0.00
5135	57	083	08/17/89	1.303	0.00	> 100.00	0.00	> 2.60
5136	57	084	08/17/89	1.344	0.00	82.00	0.00	> 2.60
5137	57	084	08/17/89	1.344	0.00	> 100.00	0.00	> 2.30
5138	57	085	08/17/89	1.400	0.00	> 100.00	0.00	> 2.69
5139	57	085	08/17/89	1.400	0.00	15.50	0.00	> 2.02
5140	57	086	08/17/89	1.469	0.00	> 100.00	0.00	> 0.72
5141	57	086	08/17/89	1.469	0.00	> 100.00	0.00	> 0.20
5142	57	087	08/17/89	1.231	0.00	49.00	0.00	> 7.50
5145	57	087	08/17/89	1.231	0.00	> 100.00	0.00	> 5.06
5146	57	0VX	08/30/89	1.314	0.00	1.61	0.00	0.00
5147	57	0VX	08/30/89	1.314	0.00	> 100.00	0.00	> 0.48
5148	57	0VY	08/30/89	1.332	0.00	14.20	0.00	> 0.80
5149	57	0VY	08/30/89	1.332	0.00	0.51	0.00	> 0.00
5150	57	0VW	08/30/89	1.202	0.00	> 100.00	0.00	> 0.18
5151	57	0VW	08/30/89	1.202	0.00	> 100.00	0.00	> 0.86
5152	57	0SW	08/23/89	1.144	0.00	> 100.00	0.00	> 2.60
5153	57	074	08/23/89	1.331	0.00	32.00	0.00	> 1.03
5154	57	08Y	08/22/89	1.528	0.00	36.30	0.00	0.00
5155	57	08Y	08/22/89	1.528	0.00	1.75	0.00	> 1.61
5156	57	08Z	08/22/89	1.490	0.00	0.32	0.00	0.00
5157	57	08Z	08/22/89	1.490	0.00	> 100.00	0.00	> 0.86
5158	57	070	08/22/89	1.591	0.00	5.24	0.00	0.00
5159	57	070	08/22/89	1.591	0.00	> 100.00	0.00	> 0.00
5160	57	071	08/22/89	1.480	0.00	> 100.00	0.00	> 0.20
5161	57	071	08/22/89	1.480	0.00	36.40	0.00	0.02
5162	57	073	08/23/89	1.253	0.00	> 100.00	0.00	> 3.10
5163	57	073	08/23/89	1.253	0.00	71.50	0.00	> 2.30
5164	57	1L2	05/09/90	1.169	0.00	10.30	0.00	> 0.30
5164	65	1M3	05/16/90	1.031	0.00	8.87	0.00	> 1.40
5165	65	1M4	07/24/90	0.775	0.00	> 100.00	0.00	0.00
5165	64	1M0	05/09/90	1.028	0.00	> 100.00	0.00	> 6.89
5165	65	1M3	05/16/90	1.031	0.00	> 100.00	0.00	> 9.50
5165	57	22A	08/21/90	1.353	0.00	320.00	0.00	> 7.08
5166	58	07P	08/24/89	1.175	0.00	0.79	0.00	0.00
5167	58	07P	08/24/89	1.175	0.00	0.90	0.00	0.00
5168	58	07Q	08/24/89	1.216	0.00	4.90	0.00	0.00
5169	58	07Q	08/24/89	1.216	0.00	0.93	0.00	0.00
5170	58	07R	08/24/89	1.218	0.00	1.37	0.00	> 0.05
5171	58	07R	08/24/89	1.218	0.00	3.63	0.00	0.00
5172	58	07S	08/24/89	1.248	0.00	> 100.00	0.00	> 1.40
5173	58	07S	08/24/89	1.248	0.00	5.03	0.00	0.00
5174	58	07T	08/24/89	1.248	0.00	59.90	0.00	> 4.16
5175	58	07T	08/24/89	1.248	0.00	16.00	0.00	> 1.25
5176	58	07B	08/24/89	0.975	0.00	15.30	0.00	0.00
5177	58	07P	08/24/89	0.919	0.00	47.40	0.00	> 0.30
5178	58	07P	08/24/89	0.919	0.00	> 100.00	0.00	> 4.18

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt & Line	Test Date	Diff-enti.	TC 50	TC 25	\$1	TA1
5179	58	072 MT2	08/24/89	1.054	0.00	15.50	0.00	2.48
5180	58	080 MT2	08/24/89	1.072	0.00	100.00	0.00	0.94
5181	58	082 MT2	08/24/89	1.072	0.00	0.19	0.00	0.00
5182	58	081 MT2	08/24/89	1.081	0.00	100.00	0.00	5.80
5183	58	081 MT2	08/24/89	1.081	0.00	100.00	0.00	2.80
5184	58	076 MT2	10/10/89	1.379	0.00	100.00	0.00	7.80
5185	58	080 MT2	08/30/89	1.343	0.00	53.30	0.00	2.40
5186	74	352 CEM	11/13/90	0.718	1.73	100.00	57.85	71.53
5186	58	080 MT2	08/29/89	1.298	4.81	93.80	19.49	36.31
5186	45	184 MT2	05/16/90	0.991	11.50	56.30	4.88	23.52
5186	74	341 MT2	11/13/90	1.177	0.00	5.30	0.00	0.20
5187	58	080 MT2	08/29/89	1.298	0.00	0.32	0.00	0.00
5188	58	080 MT2	08/29/89	1.238	0.00	0.32	0.00	0.00
5189	58	080 MT2	08/29/89	1.238	0.00	0.31	0.00	0.08
5190	58	080 MT2	08/29/89	1.309	0.00	0.51	2.00	0.00
5191	58	080 MT2	08/29/89	1.309	0.00	0.49	0.00	0.00
5192	58	080 MT2	08/29/89	1.321	0.00	100.00	0.00	4.71
5194	58	080 MT2	08/29/89	1.321	0.00	3.86	0.00	0.00
5195	58	080 MT2	08/29/89	1.307	0.00	4.30	0.00	0.01
5196	58	080 MT2	08/29/89	1.307	0.00	1.46	0.00	0.00
5197	58	076 MT2	10/10/89	1.379	0.00	49.00	0.00	15.12
5198	58	077 MT2	10/10/89	1.721	0.00	49.00	0.00	10.30
5200	58	077 MT2	10/10/89	1.721	0.00	46.30	0.00	4.71
5201	58	078 MT2	10/10/89	1.696	0.00	22.00	0.00	1.74
5202	58	078 MT2	10/10/89	1.696	0.00	100.00	0.00	7.60
5203	58	079 MT2	10/10/89	1.673	0.00	0.32	0.00	0.00
5204	58	079 MT2	10/10/89	1.673	0.00	0.32	0.00	0.00
5205	58	07A MT2	10/10/89	0.860	0.00	1.61	0.00	0.00
5206	74	080 MT2	08/30/89	1.343	0.00	47.90	0.00	0.00
5207	58	079 MT2	08/30/89	1.253	0.00	4.32	0.00	0.03
5208	58	080 MT2	08/30/89	1.253	0.00	100.00	0.00	0.94
5210	58	11V MT2	05/10/90	0.828	0.00	24.10	0.00	2.30
5211	58	11W MT2	05/10/90	0.904	0.00	3.66	0.00	0.16
5213	58	11W MT2	05/10/90	0.904	0.00	0.51	0.00	0.00
5215	58	18P MT2	05/10/90	0.873	0.00	100.00	0.00	4.30
5216	58	18P MT2	05/10/90	0.873	0.00	100.00	0.00	4.24
5217	10A	019 MT2	05/22/89	1.277	0.00	100.00	0.00	2.17
5218	10A	01A MT2	05/22/89	1.224	0.00	4.93	0.00	3.84
5223	52	080 MT2	06/20/89	1.051	0.00	22.50	0.00	0.00
5224	52	080 MT2	06/20/89	1.051	0.00	85.10	0.00	0.00
5225	52	080 MT2	05/25/89	1.310	0.00	6.18	0.00	0.14
5225	52	080 MT2	06/20/89	1.137	0.00	13.10	0.00	0.00
5226	52	080 MT2	06/20/89	1.137	0.00	16.80	0.00	0.00
5227	52	080 MT2	06/20/89	1.211	0.00	17.30	0.00	4.77
5228	52	080 MT2	06/20/89	1.211	0.00	100.00	0.00	14.10
5228	52	080 MT2	06/21/89	1.011	0.00	16.10	0.00	3.21
5229	52	080 MT2	06/20/89	0.860	0.00	76.50	0.00	6.59
5230	52	080 MT2	06/20/89	0.860	0.00	100.00	0.00	2.93
5230	52	080 MT2	06/21/89	1.011	0.00	28.10	0.00	2.73
5231	52	080 MT2	06/20/89	1.188	0.00	1.32	0.00	0.00
5232	52	080 MT2	06/20/89	1.188	0.00	5.96	0.00	1.75
5233	52	080 MT2	06/20/89	0.891	0.00	100.00	0.00	5.76
5233	52	080 MT2	06/21/89	1.113	0.00	20.30	0.00	0.87
5234	52	080 MT2	06/21/89	1.113	0.00	17.00	0.00	1.18
5234	52	080 MT2	06/21/89	1.133	0.00	21.50	0.00	0.00
5235	52	080 MT2	06/20/89	0.891	0.00	4.31	0.00	0.00
5235	52	080 MT2	06/21/89	1.133	97.00	66.00	0.68	2.54
5236	52	080 MT2	06/20/89	0.927	0.00	100.00	0.00	3.77
5236	52	080 MT2	06/21/89	0.942	0.00	23.10	0.00	0.60
5237	52	080 MT2	06/20/89	0.927	0.00	100.00	0.00	2.41
5237	52	080 MT2	06/21/89	0.942	0.00	22.00	0.00	4.65
5238	52	080 MT2	06/20/89	0.619	0.00	22.20	0.00	0.07
5238	52	080 MT2	06/21/89	0.913	0.00	20.40	0.00	0.94
5239	52	080 MT2	06/21/89	0.913	0.00	24.10	0.00	4.27
5241	52	080 MT2	06/21/89	0.921	0.00	100.00	0.00	0.44
5242	52	080 MT2	06/21/89	0.921	0.00	22.50	0.00	0.00
5243	52	080 MT2	06/21/89	1.062	0.00	21.50	0.00	2.03
5244	52	080 MT2	07/10/89	1.135	0.00	100.00	0.00	5.90
5244	52	080 MT2	06/21/89	1.062	0.00	21.00	0.00	1.83
5247	52	080 MT2	06/21/89	1.197	0.00	20.80	0.00	1.99
5248	52	080 MT2	06/21/89	1.197	0.00	23.10	0.00	5.40
5250	52	080 MT2	06/21/89	1.073	0.00	18.90	0.00	0.00
5251	52	080 MT2	06/21/89	1.073	0.00	4.94	0.00	0.00
5252	52	080 MT2	06/22/89	1.534	0.00	22.50	0.00	1.28
5253	52	080 MT2	06/22/89	1.534	0.00	1.21	0.00	0.07
5254	52	080 MT2	06/22/89	1.413	0.00	53.80	0.00	0.00
5255	52	080 MT2	06/22/89	1.413	0.00	100.00	0.00	1.22
5256	52	080 MT2	06/22/89	1.570	0.00	100.00	0.00	1.22

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit Cell # Line	Test Date	Diff- rntl.	IC 50	TC 25	SI	TAI
5258	52	OL9	HT2	06/22/89	1.570	0.00	5.94	0.00 > 0.10
5260	52	OLA	HT2	06/22/89	1.557	0.00 >	100.00	0.00 > 2.46
5261	52	OLA	HT2	06/22/89	1.557	0.00 >	100.00	0.00 > 1.50
5262	52	OLB	HT2	06/22/89	1.561	0.00	9.50	0.00 > 0.00
5263	52	OLB	HT2	06/22/89	1.561	0.00 >	100.00	0.00 > 4.82
5264	52	OM7	HT2	06/27/89	1.160	0.00	51.30	0.00 > 7.20
5265	52	OMF	HT2	07/10/89	1.135	0.00	30.40	0.00 > 2.75
5266	52	OM7	HT2	06/27/89	1.160	0.00	5.35	0.00 > 4.84
5267	52	OMB	HT2	06/27/89	1.136	0.00 >	100.00	0.00 > 8.51
5269	52	OMB	HT2	06/27/89	1.136	0.00 >	100.00	0.00 > 5.90
5270	52	OM9	HT2	06/27/89	1.193	0.00	49.30	0.00 > 5.04
5271	52	OM9	HT2	06/27/89	1.193	0.00 >	100.00	0.00 > 4.61
5272	52	OMA	HT2	06/27/89	1.157	0.00 >	100.00	0.00 > 7.86
5273	52	OMA	HT2	06/27/89	1.157	0.00	10.60	0.00 > 2.26
5274	52	OMB	HT2	06/27/89	1.192	0.00	1.85	0.00 > 0.81
5275	52	OMB	HT2	06/27/89	1.192	0.00	50.60	0.00 > 0.86
5276	52	OMC	HT2	06/28/89	1.176	0.00	5.63	0.00 > 0.00
5277	52	OMD	HT2	06/28/89	1.176	0.00 >	100.00	0.00 > 5.34
5278	52	OME	HT2	06/28/89	0.996	0.00 >	100.00	0.00 > 7.99
5279	52	OME	HT2	06/28/89	0.996	6.22 >	100.00	16.08 > 47.19
5280	52	OMF	HT2	06/28/89	1.241	0.00	1.41	0.00 > 0.97
5281	52	OMF	HT2	06/28/89	1.241	0.00	6.29	0.00 > 0.00
5282	52	OMG	HT2	06/28/89	1.243	0.00 >	100.00	0.00 > 0.95
5283	52	OMG	HT2	06/28/89	1.243	0.00 >	100.00	0.00 > 0.40
5284	52	OMG	HT2	07/10/89	1.132	0.00 >	100.00	0.00 > 3.89
5285	52	OMG	HT2	07/10/89	1.132	0.00	4.92	0.00 > 2.37
5286	52	OMH	HT2	07/10/89	1.188	0.00 >	100.00	0.00 > 2.10
5289	52	OMM	HT2	07/10/89	1.188	0.00	24.10	0.00 > 1.23
5290	52	OMI	HT2	07/10/89	1.238	0.00 >	100.00	0.00 > 0.46
5291	52	OMI	HT2	07/10/89	1.238	0.00 >	100.00	0.00 > 0.63
5292	52	OMK	HT2	07/10/89	1.123	0.00 >	100.00	0.00 > 3.72
5294	52	OMK	HT2	07/10/89	1.123	0.00 >	100.00	0.00 > 1.89
5296	52	OML	HT2	07/10/89	1.106	0.00 <	0.32	0.00 > 0.00
5297	52	OMM	HT2	07/10/89	0.919	0.00 >	100.00	0.00 > 3.30
5298	52	OMM	HT2	07/10/89	0.919	0.00 >	100.00	0.00 > 3.20
5299	52	OMN	HT2	07/10/89	0.949	0.00	51.10	0.00 > 2.20
5300	52	OMN	HT2	07/10/89	0.949	0.00	18.60	0.00 > 0.40
5301	52	OMY	HT2	07/05/89	1.474	0.00	50.50	0.00 > 0.53
5302	52	OMY	HT2	07/05/89	1.474	0.00 >	100.00	0.00 > 2.43
5303	52	OMZ	HT2	07/05/89	1.550	0.00	5.70	0.00 > 0.00
5304	52	OMZ	HT2	07/05/89	1.550	0.00	15.50	0.00 > 1.71
5305	52	OM0	HT2	07/05/89	1.649	0.00	4.59	0.00 > 2.69
5307	52	OM0	HT2	07/05/89	1.649	0.00	2.28	0.00 > 1.06
5308	52	OM1	HT2	07/05/89	1.756	0.00	7.24	0.00 > 4.74
5309	52	OM1	HT2	07/05/89	1.756	0.00	6.41	0.00 > 4.01
5310	52	OM2	HT2	07/05/89	1.370	0.00 >	100.00	0.00 > 2.10
5312	53	O10	HT2	05/24/89	1.629	0.00 >	100.00	0.00 > 4.50
5314	53	O10	HT2	05/24/89	1.629	0.00 >	100.00	0.00 > 0.03
5315	53	O1R	HT2	05/24/89	1.511	0.00 >	100.00	0.00 > 3.30
5316	53	O1R	HT2	05/24/89	1.511	0.00 >	100.00	0.00 > 1.35
5317	53	O1S	HT2	05/24/89	1.517	0.00 >	100.00	0.00 > 1.70
5318	53	O1S	HT2	05/24/89	1.517	0.00 >	100.00	0.00 > 1.00
5319	53	O1T	HT2	05/24/89	1.511	0.00 >	100.00	0.00 > 1.32
5320	53	O1T	HT2	05/24/89	1.511	0.00 >	100.00	0.00 > 0.00
5321	53	O1U	HT2	05/24/89	1.340	0.00 >	100.00	0.00 > 2.10
5322	53	O1U	HT2	05/24/89	1.340	0.00	1.60	0.00 > 0.60
5323	53	O1U	HT2	05/25/89	1.338	0.00	16.50	0.00 > 0.13
5324	53	O1U	HT2	05/25/89	1.338	0.00	55.00	0.00 > 0.30
5326	53	O1V	HT2	05/25/89	1.310	0.00	14.80	0.00 > 0.27
5327	53	O1W	HT2	05/25/89	1.366	0.00	12.50	0.00 > 0.10
5328	53	O1W	HT2	05/25/89	1.366	0.00 >	100.00	0.00 > 0.11
5329	53	O1X	HT2	05/25/89	1.270	0.00	13.90	0.00 > 0.97
5330	53	O1X	HT2	05/25/89	1.270	0.00 >	100.00	0.00 > 2.50
5331	53	O1Y	HT2	05/25/89	1.540	0.00	5.01	0.00 > 0.00
5332	53	O1Y	HT2	05/25/89	1.540	0.00	5.56	0.00 > 0.65
5333	53	O1Z	HT2	05/25/89	1.369	0.00 >	100.00	0.00 > 0.00
5335	53	O1Z	HT2	05/25/89	1.369	0.00	3.78	0.00 > 0.00
5336	53	O10	HT2	05/25/89	1.400	0.00	74.50	0.00 > 0.15
5337	53	O10	HT2	05/25/89	1.400	0.00	85.70	0.00 > 0.45
5338	53	O11	HT2	05/25/89	1.273	0.00 >	100.00	0.00 > 1.57
5341	53	OM6	HT2	05/23/89	1.022	0.00	16.00	0.00 > 3.20
5342	53	OM6	HT2	05/23/89	1.159	0.00 >	100.00	0.00 > 1.86
5344	53	OM6	HT2	05/23/89	1.159	0.00 >	100.00	0.00 > 0.93
5345	53	OMC	HT2	05/23/89	1.117	0.00 >	100.00	0.00 > 0.56
5346	53	OMC	HT2	05/23/89	1.117	0.00	22.20	0.00 > 0.10
5347	53	OMD	HT2	05/23/89	0.994	0.00	75.50	0.00 > 1.52
5348	53	OMD	HT2	05/23/89	0.994	0.00 >	100.00	0.00 > 2.65
5349	53	OME	HT2	05/23/89	0.997	0.00	18.20	0.00 > 1.10

Cumulative Summary (cont'd)

AVG Shp- No. Mont	Plt Coll # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
5350 53	OME HT2	05/23/89	0.997	0.00	49.70	0.00	2.60
5351 53	OHM HT2	05/24/89	1.230	0.00	13.40	0.00	0.00
5352 53	OHM HT2	05/24/89	1.230	0.00	5.17	0.00	0.12
5353 53	OHM HT2	05/24/89	1.359	0.00	> 100.00	0.00	> 0.55
5354 53	OHM HT2	05/24/89	1.359	0.00	> 100.00	0.00	> 0.20
5355 53	OHM HT2	05/24/89	1.302	0.00	14.70	0.00	0.00
5356 53	OHM HT2	05/24/89	1.302	0.00	50.90	0.00	0.30
5357 53	OMP HT2	05/24/89	1.291	0.00	> 100.00	0.00	> 1.25
5358 54	OLJ HT2	07/19/89	0.946	0.00	66.00	0.00	2.93
5358 54	1LS HT2	05/10/90	0.929	0.00	52.00	0.00	> 4.61
5359 54	OOZ HT2	07/19/89	0.946	0.00	38.70	0.00	> 6.82
5359 54	1LS HT2	05/10/90	0.929	0.00	55.60	0.00	> 9.15
5360 54	OOZ HT2	07/19/89	0.887	0.00	5.78	0.00	0.11
5360 54	1LT HT2	05/10/90	0.867	0.32	52.70	> 164.56	> 85.49
5360 54	1SL HT2	07/17/90	0.942	0.00	4.41	2523.0	62.82
5405 53	OAT HT2	03/30/89	1.353	0.00	< 0.32	0.00	0.00
5405 53	OGG HT2	05/16/89	1.263	0.00	< 0.32	0.00	0.00
5405 66	1P9 HT2	06/05/90	1.011	0.00	0.41	0.00	0.00
5406 65	207 CEM	08/07/90	1.122	0.00	> 100.00	0.00	> 7.67
5406 65	236 CEM	08/16/90	0.711	0.00	> 100.00	0.00	> 4.76
5406 9A	092 HT2	03/16/89	1.265	45.90	> 100.00	> 2.18	> 18.05
5406 9A	007 HT2	08/01/89	1.151	0.00	> 100.00	0.00	> 3.00
5406 65	1M4 HT2	05/16/90	0.991	0.00	> 100.00	0.00	> 7.00
5407 9A	092 HT2	03/16/89	1.245	0.00	> 100.00	0.00	> 1.70
5408 9A	093 HT2	03/16/89	1.278	0.00	> 100.00	0.00	> 0.93
5412 9A	093 HT2	03/16/89	1.278	0.00	> 100.00	0.00	> 1.60
5413 9A	094 HT2	03/16/89	1.241	0.00	> 100.00	0.00	> 3.29
5414 9A	094 HT2	03/16/89	1.241	0.00	15.90	0.00	2.33
5415 9A	095 HT2	03/16/89	1.309	0.00	16.30	0.00	> 10.65
5416 9A	095 HT2	03/16/89	1.309	0.00	17.50	0.00	> 5.42
5417 9A	095 HT2	03/16/89	1.449	57.20	> 100.00	1.75	> 10.41
5417 9A	007 HT2	08/01/89	1.151	0.00	> 100.00	0.00	> 3.51
5418 9A	097 HT2	03/16/89	1.360	0.00	10.90	0.00	0.00
5419 9A	097 HT2	03/16/89	1.380	0.00	> 100.00	0.00	> 1.07
5420 9A	098 HT2	03/16/89	1.450	0.00	> 100.00	0.00	> 1.29
5421 9A	098 HT2	03/16/89	1.450	10.00	11.10	1.11	5.48
5422 9A	099 HT2	03/16/89	1.455	0.00	7.12	0.00	0.00
5423 9A	099 HT2	03/16/89	1.455	0.00	8.21	0.00	0.04
5424 9A	09A HT2	03/16/89	1.309	0.00	34.40	0.00	0.21
5425 9A	09A HT2	03/16/89	1.309	0.00	51.50	0.00	0.07
5426 53	OAT HT2	03/30/89	1.353	0.00	> 100.00	0.00	> 5.61
5426 53	OGG HT2	05/16/89	1.263	0.00	> 100.00	0.00	> 3.90
5427 53	OHM HT2	04/06/89	1.299	0.00	> 100.00	0.00	> 3.90
5428 53	OHM HT2	04/06/89	1.299	0.00	> 100.00	0.00	> 1.64
5429 53	OHM HT2	04/06/89	1.212	0.00	> 100.00	0.00	> 0.60
5430 53	OHM HT2	04/06/89	1.212	0.00	52.50	0.00	0.21
5431 53	OHM HT2	04/06/89	1.126	0.00	> 100.00	0.00	> 2.40
5432 53	OHM HT2	04/06/89	1.126	0.00	> 100.00	0.00	> 1.16
5433 53	OHM HT2	04/06/89	1.185	0.00	> 100.00	0.00	> 1.00
5434 53	OHM HT2	04/06/89	1.185	0.00	> 100.00	0.00	> 0.10
5435 53	OHM HT2	04/06/89	1.131	0.00	> 100.00	0.00	> 4.19
5436 53	OHM HT2	04/06/89	1.131	0.00	> 100.00	0.00	> 5.91
5437 53	OFJ HT2	05/10/89	1.157	0.00	45.00	0.00	0.52
5438 53	OMP HT2	05/24/89	1.291	0.00	< 0.32	0.00	0.00
5438 53	120 HT2	11/07/89	1.428	0.00	0.02	0.00	0.00
5439 53	OHM HT2	05/24/89	1.339	0.00	19.30	0.00	0.00
5440 53	OHM HT2	05/24/89	1.339	0.00	< 0.32	0.00	0.00
5441 53	OHM HT2	05/24/89	1.425	0.00	1.30	0.00	0.00
5442 53	OHM HT2	05/24/89	1.425	0.00	< 0.32	0.00	0.00
5443 53	OLY HT2	06/20/89	0.865	0.00	< 0.32	0.00	0.00
5443 53	10L HT2	10/26/89	1.153	0.00	0.05	0.00	0.00
5444 53	OLU HT2	06/20/89	0.959	0.00	< 0.32	0.00	0.00
5444 53	10K HT2	10/26/89	1.153	0.00	0.01	0.00	0.00
5445 53	OLU HT2	06/20/89	0.959	0.00	< 0.32	0.00	0.00
5445 53	10L HT2	10/26/89	1.241	0.00	< 0.00	0.70	0.00
5445 53	11U HT2	11/07/89	1.431	0.00	< 0.00	0.00	0.00
5446 53	OLY HT2	06/20/89	0.851	0.00	< 0.32	0.00	0.00
5446 53	10L HT2	10/26/89	1.241	0.00	0.05	0.00	0.15
5447 53	OLY HT2	06/20/89	0.851	0.00	< 0.32	0.00	0.00
5447 53	10J HT2	10/26/89	1.204	0.00	0.02	0.00	0.00
5449 53	OHM HT2	06/28/89	1.287	0.00	45.70	0.00	0.00
5449 53	14A HT2	12/05/89	1.416	0.00	> 1.00	0.00	> 0.82
5450 53	OHM HT2	06/28/89	1.287	0.00	19.20	0.00	0.00
5450 53	14B HT2	12/05/89	1.278	0.00	> 1.00	0.00	> 2.13
5451 53	OHM HT2	07/05/89	1.377	0.00	15.70	0.00	0.00
5452 53	OKP HT2	06/20/89	1.194	0.00	6.74	0.00	> 0.61
5452 53	122 HT2	11/07/89	0.659	0.00	> 1.00	0.00	> 0.00
5453 53	OKP HT2	06/20/89	1.194	0.00	17.10	0.00	> 0.50

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-mnt.	TC 50	TC 25	SI	TA:
5454	54	003 MT2	07/19/89	0.887	0.00 <	0.32	0.00	0.00
5455	54	004 MT2	07/19/89	0.813	51.90 >	100.00 >	1.93 >	18.86
5457	54	005 MT2	07/19/89	0.928	0.00	1.56	0.00	0.00
5458	54	005 MT2	07/19/89	0.928	0.00 <	0.32	0.00	0.00
5459	54	006 MT2	07/19/89	0.795	0.00	16.50	0.00	1.70
5460	54	006 MT2	07/19/89	0.795	0.32 <	77.90 >	243.58 >	81.39
5460	54	008 MT2	08/08/89	1.465	0.00	0.28	0.00	0.82
5460	54	008 MT2	08/08/89	1.505	0.00	15.00	0.00	0.60
5460	54	009 MT2	08/17/89	1.514	0.00	2.45	0.00	19.48
5460	54	009 MT2	08/17/89	1.389	0.00	5.30	0.00	3.14
5460	65	1W5 MT2	05/16/90	1.100	0.00	5.63	0.00	0.00
5461	54	009 MT2	08/09/89	1.364	0.00	15.70	0.00	14.11
5462	54	009 MT2	08/09/89	1.364	0.00	5.27	0.00	6.13
5463	54	004 MT2	08/09/89	1.645	0.00	15.80	0.00	6.88
5464	74	352 CEM	11/13/90	0.718	0.00	17.30	0.00	0.00
5464	65	4CU CEM	02/20/91	0.879	0.00	5.75	0.00	0.01
5464	54	004 MT2	08/09/89	1.645	0.00	16.00	0.00	6.94
5464	74	341 MT2	11/13/90	1.177	0.00	16.50	0.00	0.00
5464	65	4CU MT2	02/20/91	1.417	0.00	3.91	0.00	0.00
5465	65	22U CEM	08/15/90	1.066	0.00	9.28	0.00	0.00
5465	54	001 MT2	08/09/89	1.640	0.00	15.10	0.00	0.00
5466	54	001 MT2	08/09/89	1.640	0.00 <	0.32	3.00	0.00
5467	54	001 MT2	08/09/89	1.562	0.00 <	0.32	0.00	0.00
5468	54	001 MT2	08/09/89	1.562	0.00 <	0.32	0.00	0.00
5469	54	001 MT2	08/09/89	1.606	0.00 <	0.32	0.00	0.00
5469	65	1W5 MT2	05/16/90	1.100	0.00 <	0.32	0.00	0.00
5469	65	119 MT2	07/18/90	1.039	0.00	2.94	0.00	2.50
5470	54	001 MT2	08/09/89	1.606	0.00 <	0.32	0.00	0.00
5470	65	1W6 MT2	05/16/90	1.127	0.00 <	0.32	0.00	0.00
5470	65	11A MT2	07/18/90	1.145	0.00	0.03	0.00	4.32
5472	54	003 MT2	08/01/89	1.204	0.00 <	0.32	0.00	0.00
5474	54	004 MT2	08/01/89	1.173	0.00 <	100.00	0.00	4.84
5475	54	004 MT2	08/01/89	1.173	0.00 <	0.32	0.00	0.00
5476	54	005 MT2	08/01/89	1.239	0.00	15.30	0.00	5.11
5477	54	005 MT2	08/01/89	1.239	0.00	0.51	0.00	0.00
5478	54	006 MT2	08/03/89	1.106	0.00	1.13	0.00	0.27
5479	54	006 MT2	08/03/89	1.106	0.00	14.10	0.00	7.52
5480	53	006 MT2	03/29/89	1.207	0.00 >	100.00	0.00	1.18
5481	53	006 MT2	03/29/89	1.178	0.00 >	100.00	0.00	1.35
5482	66	225 CEM	08/14/90	0.885	0.00 >	100.00	0.00	0.50
5482	53	006 MT2	03/29/89	1.178	0.00 >	100.00	0.00	0.50
5482	66	1P9 MT2	06/05/90	1.011	0.00 >	100.00	0.00	10.40
5483	53	001 MT2	03/29/89	1.185	0.00 <	0.32	0.00	0.00
5484	53	001 MT2	03/29/89	1.185	0.00	74.90	0.00	2.62
5484	66	1PA MT2	06/05/90	1.013	0.00 >	100.00	0.00	7.73
5485	53	001 MT2	03/29/89	1.268	0.00	1.44	0.00	0.28
5485	66	1PA MT2	06/05/90	1.013	0.00	0.89	0.00	0.00
5487	53	001 MT2	03/29/89	1.268	0.00	49.20	0.00	0.71
5488	53	001 MT2	03/29/89	1.171	0.00 >	100.00	0.00	4.19
5488	66	1PB MT2	06/05/90	0.974	0.00 >	100.00	0.00	7.30
5489	53	001 MT2	03/29/89	1.171	0.00 >	100.00	0.00	2.22
5489	66	1PB MT2	06/05/90	0.974	0.00	49.20	0.00	2.93
5490	53	001 MT2	05/10/89	1.157	0.00	5.09	0.00	1.66
5491	53	001 MT2	05/10/89	1.218	0.00	25.10	0.00	2.56
5492	53	001 MT2	05/10/89	1.218	0.00	52.70	0.00	1.51
5493	53	001 MT2	05/10/89	1.182	0.00	32.00	0.00	0.90
5494	53	001 MT2	05/10/89	1.182	0.00	85.10	0.00	0.22
5495	53	001 MT2	05/10/89	1.116	0.00	3.68	0.00	0.00
5496	53	001 MT2	05/10/89	1.116	0.00 >	100.00	0.00	0.13
5497	66	1V8 CEM	07/24/90	0.782	0.00 >	100.00	0.00	10.81
5497	53	001 MT2	05/10/89	1.165	0.00	49.40	0.00	1.81
5497	66	1PC MT2	06/05/90	1.052	0.00 >	100.00	0.00	8.59
5498	66	225 CEM	08/14/90	0.885	0.00 >	100.00	0.00	0.00
5498	53	001 MT2	05/10/89	1.165	0.00	38.70	0.00	0.07
5498	66	1PC MT2	06/05/90	1.052	0.00 >	100.00	0.00	5.40
5499	53	001 MT2	04/11/89	1.803	0.00 >	100.00	0.00	4.39
5500	53	001 MT2	04/11/89	1.803	0.00 <	0.32	0.00	0.00
5500	66	1PO MT2	06/05/90	0.969	0.00 <	0.32	0.00	0.00
5501	53	001 MT2	04/11/89	1.638	0.00	5.70	0.00	1.77
5501	66	1PO MT2	06/05/90	0.969	0.00	14.50	0.00	5.98
5502	53	001 MT2	04/11/89	1.638	0.00	38.90	0.00	1.38
5503	53	001 MT2	04/11/89	1.771	0.00	17.60	0.00	1.06
5503	66	1PO MT2	06/07/90	1.105	0.00	16.70	0.00	0.00
5504	53	001 MT2	04/11/89	1.771	0.00	77.30	0.00	4.30
5505	53	001 MT2	04/11/89	1.825	0.00	16.90	0.00	1.20
5506	53	001 MT2	04/11/89	1.825	0.00	16.60	0.00	0.80
5507	53	708 MT2	04/11/89	1.679	0.00	35.70	0.00	2.81
5507	66	1PO MT2	06/07/90	1.105	0.00	68.20	0.00	0.41

Cumulative Summary (cont'd)

AVE No.	Ship- ment	PLC #	Cell Line	Test Date	Diff- mnl.	IC 50	TC 25	\$1	TAI
5508	53	OCR	MT2	04/11/89	1.679	0.00	35.40	0.00	> 2.69
5508	66	1PP	MT2	06/07/90	1.153	0.00	26.70	0.00	0.26
5509	53	DFG	MT2	05/09/89	1.087	0.00	> 100.00	0.00	> 0.59
5509	53	QGR	MT2	08/09/89	1.299	0.00	> 100.00	0.00	> 5.13
5510	53	OFE	MT2	05/09/89	1.129	0.00	> 100.00	0.00	> 0.50
5510	53	QGR	MT2	08/09/89	1.299	0.00	> 100.00	0.00	> 3.96
5511	53	OFE	MT2	05/09/89	1.129	0.00	> 100.00	0.00	> 0.90
5511	53	QGR	MT2	08/09/89	1.137	0.00	> 100.00	0.00	> 0.80
5512	53	OFF	MT2	05/09/89	0.974	0.00	> 100.00	0.00	> 5.59
5512	53	QGR	MT2	08/09/89	1.137	0.00	> 100.00	0.00	> 0.50
5513	53	OFF	MT2	05/09/89	0.974	0.00	60.80	0.00	> 5.41
5514	53	DFG	MT2	05/09/89	1.062	0.00	1.60	0.00	0.00
5515	53	DFG	MT2	05/09/89	1.062	0.00	13.10	0.00	0.00
5515	53	QGR	MT2	08/09/89	1.238	0.00	16.30	0.00	0.12
5516	53	DFH	MT2	05/09/89	1.112	0.00	> 100.00	0.00	0.43
5516	53	QGR	MT2	08/09/89	1.238	0.00	> 100.00	0.00	> 2.00
5517	53	DFH	MT2	05/09/89	1.112	0.00	> 100.00	0.00	> 0.05
5517	66	1PP	MT2	06/07/90	1.153	0.00	> 100.00	0.00	0.00
5518	56	QGR	MT2	07/25/89	0.837	0.00	> 100.00	0.00	> 1.23
5519	56	QGR	MT2	07/25/89	0.773	0.00	> 100.00	0.00	1.40
5520	56	QGR	MT2	07/25/89	0.773	0.00	> 100.00	0.00	0.80
5521	56	QGR	MT2	07/25/89	0.774	0.00	> 100.00	0.00	> 11.10
5522	56	QGR	MT2	07/25/89	0.774	0.00	1.97	0.00	0.00
5523	56	QOT	MT2	07/25/89	0.867	0.00	> 100.00	0.00	0.38
5524	56	QOT	MT2	07/25/89	0.867	0.00	> 100.00	0.00	1.12
5525	56	QOU	MT2	07/25/89	0.886	0.00	> 100.00	0.00	> 4.90
5526	56	QOU	MT2	07/25/89	0.886	0.00	57.80	0.00	1.20
5527	56	QOC	MT2	07/20/89	1.188	0.00	> 100.00	0.00	0.00
5528	56	QOC	MT2	07/20/89	1.188	0.00	> 100.00	0.00	> 1.11
5529	56	QOR	MT2	07/20/89	1.270	0.00	> 100.00	0.00	> 2.67
5530	56	QOR	MT2	07/20/89	1.270	0.00	7.11	0.00	1.64
5531	56	QOA	MT2	07/20/89	1.171	0.00	21.00	0.00	> 7.68
5532	56	QOA	MT2	07/20/89	1.171	0.00	> 100.00	0.00	> 6.20
5533	56	QOB	MT2	07/20/89	1.203	0.00	> 100.00	0.00	> 0.30
5534	56	QOB	MT2	07/20/89	1.203	0.00	> 100.00	0.00	> 0.15
5535	56	QOC	MT2	07/20/89	1.148	0.00	> 100.00	0.00	> 0.30
5536	56	QOC	MT2	07/20/89	1.148	0.00	> 100.00	0.00	> 0.82
5539	56	QPS	MT2	07/25/89	0.740	0.00	< 0.32	0.00	0.00
5540	56	QPS	MT2	07/25/89	0.740	0.00	> 100.00	0.00	0.72
5543	56	QPS	MT2	07/25/89	0.831	0.00	5.07	0.00	1.11
5544	56	QPS	MT2	07/25/89	0.831	0.00	15.60	0.00	0.00
5545	56	QPE	MT2	07/25/89	0.837	0.00	> 100.00	0.00	> 0.70
5546	56	QPE	MT2	07/25/89	0.837	0.00	> 100.00	0.00	> 3.71
5547	56	QOW	MT2	07/26/89	0.815	0.00	69.80	0.00	1.48
5548	56	QOW	MT2	07/26/89	0.815	0.00	19.30	0.00	> 2.31
5549	10A	O1A	MT2	05/22/89	1.224	0.00	> 100.00	0.00	> 5.61
5550	10A	O1B	MT2	05/22/89	1.059	0.00	> 100.00	0.00	> 9.70
5552	10A	O1B	MT2	05/22/89	1.059	0.00	> 100.00	0.00	> 7.20
5552	52	QOD	MT2	08/01/89	1.223	0.00	> 100.00	0.00	> 0.93
5554	10A	O1C	MT2	05/22/89	1.239	0.00	> 100.00	0.00	> 6.30
5555	53	QAU	MT2	03/30/89	1.311	0.00	> 10.00	0.00	0.00
5555	53	QGP	MT2	05/16/89	1.278	0.00	> 100.00	0.00	0.60
5556	53	QAU	MT2	03/30/89	1.311	0.00	> 10.00	0.00	> 3.69
5556	53	QGP	MT2	05/16/89	1.278	0.00	< 0.32	0.00	0.00
5556	53	148	MT2	12/05/89	1.278	0.00	> 1.00	0.00	1.31
5557	53	QAV	MT2	03/30/89	1.241	0.00	0.15	0.00	> 0.30
5557	53	QGB	MT2	05/16/89	1.224	0.00	1.70	0.00	> 0.30
5558	53	QAV	MT2	03/30/89	1.241	0.00	1.56	0.00	2.71
5558	52	QGR	MT2	05/16/89	1.224	0.00	< 0.32	0.00	0.00
5559	53	QAU	MT2	03/30/89	1.284	0.00	4.99	0.00	> 6.97
5559	53	QGR	MT2	05/16/89	1.284	0.00	15.30	0.00	3.39
5560	53	QAU	MT2	03/30/89	1.284	2.22	> 10.00	4.51	> 30.15
5560	53	QGR	MT2	05/16/89	1.284	0.00	13.50	0.00	> 2.72
5561	53	QAX	MT2	03/30/89	1.300	0.00	> 10.00	0.00	4.71
5561	53	QGB	MT2	05/16/89	1.424	0.00	6.41	0.00	0.00
5562	53	QAX	MT2	03/30/89	1.300	0.00	1.59	0.00	> 10.17
5562	53	QGB	MT2	05/16/89	1.424	0.00	4.87	0.00	0.00
5563	11A	105	CEM	10/17/90	1.86	> 100.00	0.00	0.00	> 0.16
5563	11A	110	MT2	10/31/90	1.00	> 100.00	0.00	0.00	> 1.30
5567	56	QOK	MT2	07/26/89	0.964	0.00	67.70	0.00	0.35
5568	56	QOK	MT2	07/26/89	0.964	0.00	59.90	0.00	0.00
5569	56	QOT	MT2	07/26/89	0.920	0.00	49.80	0.00	0.00
5570	56	QOT	MT2	07/26/89	0.920	0.00	> 100.00	0.00	> 1.80
5571	56	QOZ	MT2	07/26/89	1.063	0.00	97.00	0.00	0.00
5572	56	QOZ	MT2	07/26/89	1.063	0.00	> 100.00	0.00	0.00
5573	56	QPO	MT2	07/26/89	1.038	0.00	6.31	0.00	0.00
5574	56	QPO	MT2	07/26/89	1.038	0.00	> 100.00	0.00	> 1.90
5575	56	QPB	MT2	07/26/89	1.181	0.00	11.60	0.00	0.72

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
5576	56	OPB	HT2	07/26/89	1.181	0.00	< 0.32	0.00	0.00
5577	56	OPB	HT2	07/26/89	1.178	0.00	31.80	0.00	0.57
5578	56	OPB	HT2	07/26/89	1.178	0.00	68.20	0.00	0.77
5579	14A	12X	HT2	02/08/90	1.198	0.00	< 0.32	0.00	0.00
5579	62	10X	HT2	02/27/90	1.121	0.00	0.23	0.00	0.00
5583	56	OPA	HT2	07/26/89	1.192	0.00	> 100.00	0.00	1.15
5584	56	OPA	HT2	07/26/89	1.192	0.00	> 100.00	0.00	0.98
5585	56	OPB	HT2	07/26/89	1.290	0.00	> 100.00	0.00	0.32
5586	56	OPB	HT2	07/26/89	1.290	0.00	> 100.00	0.00	0.65
5587	56	OPC	HT2	07/26/89	1.199	0.00	> 100.00	0.00	0.13
5601	67	1UJ	HT2	07/25/90	1.212	0.00	49.50	0.00	6.56
5602	67	222	CEM	08/14/90	1.102	0.00	> 100.00	0.00	1.61
5602	67	1UK	HT2	07/25/90	1.115	0.00	> 100.00	0.00	5.50
5603	65	1UJ	HT2	04/18/90	1.030	0.00	41.30	0.00	0.10
5604	73	2GJ	CEM	09/28/90	0.766	0.00	> 100.00	0.00	0.00
5604	73	2GT	HT2	09/28/90	0.999	0.00	100.00	0.00	3.06
5679	65	206	CEM	08/07/90	1.105	0.00	50.30	0.00	0.65
5679	65	1M6	HT2	05/16/90	1.127	0.00	80.60	0.00	3.17
5680	57	1M1	HT2	05/09/90	1.045	0.00	1.65	0.00	0.10
5681	57	1M1	HT2	05/09/90	1.045	0.00	82.00	0.00	5.90
5683	57	0UT	HT2	08/30/89	1.278	0.00	15.30	0.00	5.52
5684	57	0TJ	HT2	08/23/89	1.319	0.00	> 100.00	0.00	2.19
5685	57	0TJ	HT2	08/23/89	1.319	0.00	> 100.00	0.00	2.90
5686	57	0TK	HT2	08/23/89	1.300	0.00	62.40	0.00	6.25
5687	57	0TK	HT2	08/23/89	1.300	0.00	47.40	0.00	0.00
5688	57	0TL	HT2	08/23/89	1.269	0.00	> 100.00	0.00	6.01
5690	57	0TL	HT2	08/23/89	1.269	0.00	> 100.00	0.00	3.51
5691	65	221	CEM	08/15/90	0.961	7.78	> 100.00	13.74	45.29
5691	57	0TH	HT2	08/23/89	1.271	4.32	> 100.00	20.75	52.51
5692	57	0TH	HT2	08/23/89	1.271	0.00	> 100.00	0.00	2.00
5693	57	0TH	HT2	08/23/89	1.300	0.00	> 100.00	0.00	2.34
5694	57	0TH	HT2	08/23/89	1.300	0.00	> 100.00	0.00	2.89
5695	57	0SS	HT2	08/23/89	1.361	0.00	6.29	0.00	3.36
5696	57	0SS	HT2	08/23/89	1.361	0.00	0.89	0.00	0.39
5697	57	0ST	HT2	08/23/89	1.264	0.00	29.00	0.00	2.05
5698	57	0ST	HT2	08/23/89	1.264	0.00	64.90	0.00	1.83
5699	57	0SU	HT2	08/23/89	1.218	0.00	25.70	0.00	0.00
5700	57	0SU	HT2	08/23/89	1.218	0.00	> 100.00	0.00	0.10
5701	57	0SV	HT2	08/23/89	1.090	0.00	> 100.00	0.00	2.50
5702	57	0SV	HT2	08/23/89	1.090	0.00	> 100.00	0.00	3.80
5703	57	0SW	HT2	08/23/89	1.144	0.00	> 100.00	0.00	1.60
5704	57	0U3	HT2	08/24/89	0.932	0.00	> 100.00	0.00	3.44
5705	57	0U3	HT2	08/24/89	0.932	0.00	7.56	0.00	0.00
5706	57	0U4	HT2	08/24/89	0.993	0.00	49.50	0.00	0.63
5707	57	0U4	HT2	08/24/89	0.993	0.00	> 100.00	0.00	0.60
5708	57	0U5	HT2	08/24/89	0.948	0.00	> 100.00	0.00	2.60
5709	57	0U5	HT2	08/24/89	0.948	0.00	12.30	0.00	0.10
5710	57	0U6	HT2	08/24/89	0.979	0.00	17.60	0.00	1.22
5711	58	0M6	HT2	08/31/89	1.304	0.00	18.10	0.00	1.00
5712	58	0M6	HT2	08/31/89	1.304	0.00	> 100.00	0.00	0.00
5713	58	1M0	HT2	05/10/90	0.857	0.00	> 100.00	0.00	5.95
5714	58	1M0	HT2	05/10/90	0.857	0.00	1.55	0.00	1.21
5715	58	1M1	HT2	05/10/90	0.794	0.00	49.00	0.00	2.00
5717	58	1M1	HT2	05/10/90	0.794	0.00	44.50	0.00	0.00
5718	58	1OP	HT2	05/24/90	1.234	0.00	> 100.00	0.00	0.07
5719	58	1OP	HT2	05/24/90	1.234	0.00	46.90	0.00	0.00
5720	58	1OQ	HT2	05/24/90	1.190	0.00	18.60	0.00	1.91
5721	58	1OQ	HT2	05/24/90	1.190	0.00	15.50	0.00	2.40
5723	58	1OR	HT2	05/24/90	1.193	0.00	2.20	0.00	0.50
5726	58	1OR	HT2	05/24/90	1.193	0.00	45.10	0.00	1.92
5727	58	1O2	HT2	05/24/90	1.221	0.00	49.00	0.00	0.30
5728	58	1O2	HT2	05/24/90	1.221	0.00	> 100.00	0.00	1.30
5729	58	1VW	CEM	07/24/90	0.775	0.00	> 100.00	0.00	1.56
5729	58	1O3	HT2	05/24/90	1.248	0.00	> 100.00	0.00	2.40
5730	58	1VQ	CEM	07/24/90	0.782	0.00	> 100.00	0.00	2.95
5730	58	1O3	HT2	05/24/90	1.248	0.00	> 100.00	0.00	3.17
5731	58	0W0	HT2	09/05/89	1.240	0.00	> 100.00	0.00	2.58
5732	58	0W0	HT2	09/05/89	1.240	5.39	> 100.00	18.55	47.21
5732	58	0ZA	HT2	10/17/89	1.310	0.00	1.84	0.00	1.81
5733	58	1O4	HT2	05/24/90	1.231	58.60	> 100.00	1.71	10.86
5733	58	1EJ	HT2	07/17/90	0.931	28.50	325.00	12.26	20.53
5734	58	1O4	HT2	05/24/90	1.231	0.00	49.50	0.00	2.50
5735	58	0VC	HT2	09/05/89	1.266	21.50	> 100.00	4.64	22.79
5735	58	0ZA	HT2	10/17/89	1.310	0.00	6.74	0.00	0.96
5736	58	0VC	HT2	09/05/89	1.266	0.00	49.50	0.00	0.30
5737	58	0V0	HT2	09/05/89	1.270	15.80	> 100.00	6.33	31.00
5738	58	0V0	HT2	09/05/89	1.270	0.00	14.70	0.00	0.11
5742	58	1V1	CEM	07/24/90	0.711	0.00	47.00	0.00	30.31

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit Call # Line	Last Date	Diff-ml.	TC 50	TC 25	SI	TAI
5742	58	105	05/24/90	1.265	0.00	47.40	0.00	11.52
5743	58	09C	09/05/89	1.188	0.00	18.50	0.00	0.75
5744	58	02B	10/17/89	1.307	0.00	29.60	0.00	0.30
5745	58	04F	09/07/89	1.702	0.00	16.90	0.00	0.23
5746	58	04F	09/07/89	1.702	0.00	12.40	0.00	1.84
5747	58	04G	09/07/89	1.664	0.00	21.90	0.00	0.20
5748	58	04G	09/07/89	1.664	0.00	36.30	0.00	0.50
5749	58	04H	09/07/89	1.665	0.00	42.30	0.00	0.30
5750	58	04H	09/07/89	1.665	0.00	53.00	0.30	1.60
5751	59	04J	09/07/89	1.761	0.00	31.10	0.00	0.00
5752	59	04J	09/07/89	1.761	0.00	8.23	0.00	0.50
5753	59	107	05/24/90	1.097	0.00	100.00	0.00	4.99
5755	59	10F	05/30/90	1.128	0.00	33.10	0.00	0.00
5756	59	10F	05/30/90	1.128	0.00	100.00	0.00	0.50
5757	59	10G	05/30/90	1.119	0.00	100.00	0.00	0.00
5757	59	10G	05/30/90	1.119	0.00	100.00	0.00	0.15
5758	59	23E	08/16/90	0.711	17.90	100.00	5.59	27.18
5758	59	10G	05/30/90	1.119	0.00	37.10	0.00	2.91
5759	59	02D	10/17/89	1.281	0.00	1.43	0.00	0.13
5760	59	02E	10/17/89	1.396	0.00	2.02	0.00	0.50
5760	59	10F	02/27/90	1.202	0.00	1.00	0.00	0.00
5761	59	07T	10/17/89	1.396	0.00	2.02	0.00	0.00
5761	59	14C	12/05/89	1.289	0.00	1.00	0.00	4.45
5762	59	02F	10/17/89	1.200	0.00	1.76	0.00	0.61
5763	59	02F	10/17/89	1.200	0.00	1.80	0.00	0.07
5764	59	02G	10/17/89	0.678	0.00	2.77	0.00	5.68
5765	59	10H	05/30/90	1.142	0.00	100.00	0.00	0.08
5766	59	10H	05/30/90	1.142	0.00	49.50	0.00	0.00
5767	59	24Z	08/21/90	0.830	10.30	49.20	4.78	23.69
5767	73	26H	09/28/90	0.873	15.30	27.40	1.79	16.78
5767	59	10I	05/30/90	1.102	21.70	36.40	1.68	10.28
5767	73	26J	09/28/90	1.052	0.00	16.30	0.00	0.90
5768	59	03M	09/12/89	1.394	0.00	7.92	0.00	0.24
5769	59	03M	09/12/89	1.394	0.00	6.98	0.00	0.24
5770	59	04D	09/12/89	1.674	0.00	7.06	0.00	5.55
5771	59	04D	09/12/89	1.674	0.00	5.06	0.00	4.53
5772	59	04P	09/12/89	1.654	0.00	8.35	0.00	10.12
5773	59	04P	09/12/89	1.654	0.00	8.59	0.00	7.04
5774	59	04Q	09/12/89	1.662	0.00	7.92	0.00	6.56
5775	59	04Q	09/12/89	1.662	0.00	5.86	0.00	5.22
5776	59	0X6	09/27/89	1.512	0.00	100.00	0.00	0.60
5777	59	0X6	09/27/89	1.512	0.00	2.91	0.00	0.00
5778	59	0X7	09/27/89	1.541	0.00	100.00	0.00	0.15
5779	59	0X7	09/27/89	1.118	56.60	100.00	1.77	10.54
5783	59	101	05/30/90	1.102	0.00	13.00	0.00	0.00
5784	59	10J	05/30/90	1.082	0.00	38.70	0.00	0.00
5870	61	115	11/02/89	1.223	0.00	53.00	0.00	8.55
5870	61	14Z	11/30/89	0.971	1.03	32.00	30.95	46.06
5870	61	1A2	02/05/90	1.272	0.00	54.10	0.00	7.08
5871	61	116	11/02/89	1.223	4.91	17.90	3.64	17.10
5871	61	14Z	11/30/89	0.971	6.98	16.50	2.37	10.68
5871	61	1A2	02/08/90	1.272	7.08	25.70	3.63	18.04
5872	61	10M	11/02/89	1.282	6.09	100.00	16.42	47.39
5872	61	145	11/30/89	1.125	3.20	58.60	18.30	46.13
5873	61	10N	11/02/89	1.282	0.00	0.32	0.00	0.00
5874	61	10D	11/02/89	1.379	8.46	100.00	11.82	45.93
5874	61	143	11/30/89	1.019	0.42	51.50	122.65	70.39
5875	61	10C	11/02/89	1.379	28.60	100.00	3.50	27.81
5875	61	145	11/30/89	1.125	3.20	50.70	15.86	39.21
5876	61	10P	11/02/89	1.291	6.21	50.30	8.10	35.31
5876	61	143	11/30/89	1.019	0.96	21.20	22.18	46.44
5877	61	10P	11/02/89	1.291	0.00	100.00	0.00	8.56
5878	61	10Q	11/02/89	1.345	0.00	100.00	0.00	2.42
5879	61	10Q	11/02/89	1.345	0.00	24.10	0.00	0.20
5880	61	10R	11/02/89	1.286	4.19	100.00	23.87	56.66
5880	61	146	11/30/89	1.052	4.00	49.50	12.39	32.32
5881	61	10R	11/02/89	1.286	0.00	100.00	0.00	4.77
5882	61	12A	11/13/89	1.095	15.00	100.00	6.55	38.37
5882	61	144	11/30/89	1.052	3.20	75.60	23.62	46.03
5883	61	12A	11/13/89	1.095	0.00	27.70	0.00	2.01
5884	61	12B	11/13/89	1.121	13.40	57.00	4.24	26.98
5884	61	144	11/30/89	1.041	1.03	52.20	50.66	52.98
5885	61	12B	11/13/89	1.121	12.50	100.00	7.98	43.88
5885	61	183	02/14/90	1.106	4.25	100.00	23.50	38.42
5886	61	12C	11/13/89	1.194	0.00	100.00	0.00	1.70
5887	61	12C	11/13/89	1.194	1.86	54.70	29.32	53.32
5887	61	183	02/14/90	1.106	0.32	18.40	57.44	56.33
5888	61	12D	11/13/89	1.185	0.00	79.20	0.00	0.15

Cumulative Summary (cont'd)

Av8 No.	Ship- ment	Pit & Cell Line	Test Date	Diff- ntl.	IC 50	TC 25	\$I	TAI
5889	61	120 MT2	11/13/89	1.185	0.00	> 100.00	0.00	1.43
5890	61	12E MT2	11/13/89	1.077	0.00	3.70	0.00	0.00
5891	61	12E MT2	11/13/89	1.077	0.00	53.50	0.00	0.80
5893	61	10L MT2	05/30/90	1.083	0.00	3.93	0.00	0.00
5894	68	14M MT2	08/01/90	1.296	0.00	> 100.00	0.00	> 3.70
5895	68	1X3 MT2	08/02/90	1.272	0.00	> 100.00	0.00	> 2.20
5913	60	0Y1 MT2	10/11/89	1.204	0.00	1.55	0.00	> 0.30
5914	60	0Y1 MT2	10/11/89	1.204	0.00	4.92	0.00	0.31
5915	60	0YJ MT2	10/11/89	1.195	0.00	4.42	0.00	0.80
5916	60	0YJ MT2	10/11/89	1.195	0.00	5.99	0.00	4.74
5917	60	0YK MT2	10/11/89	1.340	0.00	2.10	0.00	0.00
5918	60	0YK MT2	10/11/89	1.340	0.00	0.46	0.00	0.00
5919	60	0YL MT2	10/11/89	1.058	0.00	1.55	0.00	> 0.10
5920	60	0YL MT2	10/11/89	1.058	0.00	0.47	0.00	0.00
5921	60	0YM MT2	10/11/89	1.136	0.00	0.60	0.00	0.70
5922	60	0YM MT2	10/11/89	1.136	0.00	11.40	0.00	1.46
5923	60	0YU MT2	10/12/89	1.033	0.00	< 0.32	0.00	0.00
5924	60	0YU MT2	10/12/89	1.033	0.00	< 0.32	0.00	0.00
5925	60	0YV MT2	10/12/89	1.697	0.00	0.45	0.00	> 0.00
5926	60	0YV MT2	10/12/89	1.697	0.00	0.48	0.00	> 0.01
5927	60	0YW MT2	10/12/89	1.425	0.00	1.40	0.00	> 0.16
5928	60	0YW MT2	10/12/89	1.425	0.00	15.90	0.00	0.76
5929	60	0YX MT2	10/12/89	1.547	0.00	66.00	0.00	> 3.59
5930	60	0YX MT2	10/12/89	1.547	0.00	< 0.32	0.00	0.00
5931	60	0YY MT2	10/12/89	1.205	0.00	< 0.32	0.00	0.00
5932	60	0YY MT2	10/12/89	1.205	0.00	< 0.32	0.00	0.00
5933	60	0Z4 MT2	10/12/89	1.313	0.00	0.39	0.00	0.00
5934	60	0Z4 MT2	10/12/89	1.313	0.00	2.08	0.00	> 1.57
5935	60	0Z5 MT2	10/12/89	1.210	0.00	< 0.32	0.00	0.00
5936	60	0Z5 MT2	10/12/89	1.210	0.00	49.70	0.00	2.88
5937	60	12G MT2	11/08/89	0.779	0.00	4.92	0.00	> 5.82
5938	60	12G MT2	11/08/89	0.779	0.00	< 0.03	0.00	0.00
5938	59	10F MT2	02/27/90	1.202	0.00	0.04	0.00	0.00
5939	60	0Z7 MT2	10/12/89	1.211	0.00	< 0.32	0.00	0.00
5940	60	0Z7 MT2	10/12/89	1.211	0.00	15.60	0.00	> 3.95
5941	60	0Z8 MT2	10/12/89	1.223	0.00	8.68	0.00	> 4.24
5942	60	0Z8 MT2	10/12/89	1.223	0.00	1.55	0.00	> 0.60
5943	60	0Y0 MT2	10/12/89	1.066	0.00	49.00	0.00	2.13
5944	60	0Y0 MT2	10/12/89	1.066	0.00	< 0.32	0.00	0.00
5945	60	0Y1 MT2	10/12/89	1.017	0.00	< 0.32	0.00	0.00
5946	60	0Y1 MT2	10/12/89	1.017	0.00	< 0.32	0.00	0.00
5947	60	0Y2 MT2	10/12/89	1.143	0.00	4.90	0.00	> 1.31
5948	60	0Y2 MT2	10/12/89	1.143	0.00	< 0.32	0.00	0.00
5949	60	0Y8 MT2	10/12/89	1.330	0.00	< 0.32	0.00	0.00
5950	60	0Y8 MT2	10/12/89	1.330	0.00	< 0.32	0.00	0.00
5951	60	0Y8 MT2	10/12/89	1.371	0.00	< 0.32	0.00	0.00
5952	60	0Y8 MT2	10/12/89	1.371	0.00	< 0.32	0.00	0.00
5953	60	0ZK MT2	10/25/89	1.490	0.00	< 0.32	0.00	0.00
5953	60	11R MT2	11/07/89	1.278	0.00	0.16	0.00	2.05
5954	60	0ZK MT2	10/25/89	1.490	0.00	50.80	0.00	> 2.27
5955	60	0ZT MT2	10/25/89	1.424	0.00	15.60	0.00	> 0.70
5956	60	1K1 CEL	04/01/90	0.885	0.34	> 100.00	> 298.58	> 81.92
5956	60	0ZT MT2	10/25/89	1.424	55.40	> 100.00	> 1.81	> 16.55
5956	62	101 MT2	02/27/90	1.176	94.30	> 100.00	> 1.06	> 8.23
5957	60	0ZT MT2	10/25/89	1.366	0.00	> 100.00	0.00	> 0.35
5958	60	0ZT MT2	10/25/89	1.366	0.00	1.71	0.00	> 2.03
5958	60	11R MT2	11/07/89	1.278	0.00	> 1.00	0.00	> 6.22
5968	61	12T MT2	11/14/89	1.232	0.00	> 100.00	0.00	2.32
5969	61	12T MT2	11/14/89	1.232	0.00	< 0.32	0.00	0.00
5969	61	13L MT2	11/30/89	1.204	0.00	0.02	0.00	0.00
5970	61	131 MT2	11/21/89	1.364	0.00	< 0.32	0.00	0.00
5970	61	13L MT2	11/30/89	1.204	0.00	0.04	0.00	0.60
5971	61	131 MT2	11/21/89	1.364	0.00	0.44	0.00	0.00
5971	61	14F MT2	12/05/89	1.331	0.00	0.20	0.00	1.11
5972	61	132 MT2	11/21/89	1.429	0.00	0.51	0.00	> 0.04
5972	61	146 MT2	12/05/89	0.648	0.00	> 0.32	0.00	> 25.25
5972	61	101 MT2	02/27/90	1.176	0.00	< 0.32	0.00	0.00
5973	61	132 MT2	11/21/89	1.429	0.00	3.30	0.00	> 1.12
5974	61	133 MT2	11/21/89	1.468	0.00	< 0.32	0.00	0.00
5974	61	13M MT2	11/30/89	1.268	0.00	0.00	0.00	0.00
5975	61	133 MT2	11/21/89	1.408	0.00	< 0.32	0.00	0.00
5975	61	13M MT2	11/30/89	1.268	0.00	0.05	0.00	1.63
5976	61	134 MT2	11/21/89	1.452	0.00	< 0.32	0.00	0.00
5976	61	13M MT2	11/30/89	1.153	0.00	0.01	0.00	0.00
5977	61	134 MT2	11/21/89	1.452	0.00	< 0.32	0.00	0.00
5977	61	13M MT2	11/30/89	1.153	0.00	0.02	0.00	0.00
5978	61	135 MT2	11/21/89	1.323	0.00	< 0.32	0.00	0.00
5978	61	130 MT2	11/30/89	1.240	0.00	< 0.00	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-ntl.	TC 40	TC 25	SI	TAI
5978	61	10G MT2	02/27/90	1.204	0.00 <	0.00	0.00	0.00
5979	61	135 MT2	11/21/89	1.323	0.00 <	0.32	0.00	0.00
5979	61	130 MT2	11/30/89	1.240	0.00	0.03	0.00	0.00
5980	61	13F MT2	11/23/89	1.576	0.00 <	0.32	0.00	0.00
5980	61	14Y MT2	02/13/90	1.129	0.00	0.03	0.00	0.00
5981	61	13F MT2	11/28/89	1.576	0.00	0.46	0.00	0.00
5982	61	13G MT2	11/28/89	1.585	0.00 <	0.32	0.00	0.00
5982	61	185 MT2	02/14/90	1.165	0.00 <	0.00	0.00	0.00
5983	61	13G MT2	11/28/89	1.585	0.00	0.47	0.00	0.00
5984	61	13H MT2	11/28/89	1.563	0.00 <	0.32	0.00	0.00
5984	61	18J MT2	02/14/90	1.189	0.00 <	0.00	0.00	0.00
5984	61	10J MT2	02/27/90	1.160	0.00 <	0.32	0.00	0.00
5984	61	10C MT2	05/22/90	1.078	0.00	0.04	0.00	0.70
5985	61	13H MT2	11/28/89	1.563	0.00 <	0.32	0.00	0.00
5985	61	186 MT2	02/14/90	1.089	0.00	0.19	0.00	17.65
5986	61	13I MT2	11/28/89	1.599	0.00 <	0.32	0.00	0.00
5986	61	186 MT2	02/14/90	1.089	0.00	0.31	0.00	9.11
5987	61	13I MT2	11/28/89	1.599	0.00	0.49	0.00	0.00
5988	61	13J MT2	11/28/89	1.570	0.00	0.50	0.00	0.00
5989	61	13J MT2	11/28/89	1.570	0.00 <	0.32	0.00	0.00
5989	61	187 MT2	02/14/90	1.194	0.00	0.18	0.00	0.10
5990	61	158 MT2	12/20/89	1.310	0.00 <	0.32	0.00	0.00
5990	61	181 MT2	02/13/90	1.149	0.00	0.41	0.00	0.00
5991	61	134 MT2	12/20/89	1.344	0.00 <	0.32	0.00	0.00
5991	61	1A2 MT2	02/13/90	1.211	0.00	0.02	0.00	0.00
5992	61	154 MT2	12/20/89	1.344	0.00 <	0.32	0.00	0.00
5992	61	180 MT2	02/13/90	1.247	0.00	0.33	0.00	0.22
5993	61	155 MT2	12/20/89	1.371	0.00	5.05	0.00	0.50
5994	61	155 MT2	12/20/89	1.371	0.00	100.00	0.00	0.00
5995	61	156 MT2	12/20/89	1.267	0.00	2.72	0.00	0.00
5996	61	10H CEM	04/01/90	1.046	7.37	65.30	9.23	28.68
5996	61	140 CEM	04/18/90	0.925	3.34	77.30	23.13	60.35
5996	61	190 CEM	07/24/90	0.889	3.35	59.20	17.68	47.92
5996	68	11V CEM	08/02/90	0.920	5.23	97.40	18.62	40.87
5996	61	156 MT2	12/20/89	1.267	1.45	31.20	21.42	44.36
5996	61	18H MT2	02/14/90	1.208	1.56	35.20	22.59	50.54
5996	66	19Q MT2	06/07/90	0.940	4.22	33.50	7.94	43.29
5997	61	157 MT2	12/20/89	1.403	0.00	0.39	0.00	0.00
5998	61	157 MT2	12/20/89	1.403	0.00 <	0.32	0.00	0.00
5998	61	180 MT2	02/13/90	1.247	0.00	0.06	0.00	0.00
5999	61	158 MT2	12/20/89	1.310	0.00	100.00	0.00	5.61
5999	61	184 MT2	02/14/90	1.119	0.00	100.00	0.00	0.54
6001	61	148 MT2	12/14/89	1.294	0.00	2.20	0.00	0.00
6002	61	145 MT2	12/14/89	1.294	0.00	49.00	0.00	0.51
6003	61	147 MT2	12/14/89	1.424	0.00	13.90	0.00	0.00
6004	61	147 MT2	12/14/89	1.424	0.00	1.99	0.00	0.00
6005	14A	106 CEM	02/22/90	0.860	17.10	100.00	5.85	33.56
6006	61	140 MT2	12/14/89	1.303	0.00	100.00	0.00	0.10
6007	61	140 MT2	12/14/89	1.303	0.00	100.00	0.00	0.00
6008	61	14V MT2	12/14/89	1.357	0.00	100.00	0.00	0.62
6009	61	14V MT2	12/14/89	1.357	0.00	100.00	0.00	1.32
6010	61	14W MT2	12/14/89	0.633	0.00 <	0.32	0.00	0.00
6010	61	181 MT2	02/13/90	1.149	0.00	0.17	0.00	0.00
6011	61	151 MT2	01/04/90	1.365	0.00	100.00	0.00	8.71
6012	61	151 MT2	01/04/90	1.365	0.00	15.50	0.00	5.35
6013	61	15J MT2	01/04/90	1.313	0.00	100.00	0.00	1.77
6014	61	15J MT2	01/04/90	1.313	0.00	6.83	0.00	0.83
6015	61	15K MT2	01/04/90	1.466	0.00	100.00	0.00	8.16
6016	61	18F MT2	06/06/90	0.992	0.00	55.30	0.00	4.11
6017	61	15L MT2	01/04/90	1.432	0.00	100.00	0.00	0.80
6018	61	15L MT2	01/04/90	1.432	0.00	100.00	0.00	1.34
6019	61	15M MT2	01/04/90	1.311	0.00	18.50	0.00	2.50
6020	61	15M MT2	01/04/90	1.311	0.00	42.00	0.00	3.41
6021	61	168 MT2	01/23/90	0.987	0.00	100.00	0.00	7.00
6022	62	10A CEM	02/22/90	0.767	0.00	100.00	0.00	13.54
6022	61	168 MT2	01/23/90	0.987	0.00	100.00	0.00	8.88
6023	61	169 MT2	01/23/90	1.229	0.00	52.00	0.00	1.25
6024	61	169 MT2	01/23/90	1.229	0.00	100.00	0.00	0.20
6025	61	16A MT2	01/23/90	1.199	0.00	49.00	0.00	1.81
6026	61	16A MT2	01/23/90	1.199	0.00	100.00	0.00	7.50
6027	61	168 MT2	01/23/90	1.185	0.00	100.00	0.00	2.50
6028	61	168 MT2	01/23/90	1.185	0.00	100.00	0.00	0.60
6029	61	16C MT2	01/23/90	1.204	0.00	83.50	0.00	1.06
6030	61	16C MT2	01/23/90	1.204	0.00	100.00	0.00	1.05
6031	61	16W MT2	01/23/90	1.305	0.00	100.00	0.00	1.57
6032	61	16W MT2	01/23/90	1.305	0.00	100.00	0.00	8.90
6033	61	16X MT2	01/23/90	1.238	0.00	48.00	0.00	6.11
6034	61	16X MT2	01/23/90	1.238	0.00	100.00	0.00	3.60

Cumulative Summary (cont'd)

AYS No.	Ship- ment	Pit #	Cell Line	Toat Date	Diff- mtl.	10 50	10 25	51	*A1
6035	61	16Y	MT2	01/23/90	1.162	0.00	49.00	0.00	4.11
6036	61	16Y	MT2	01/23/90	1.162	0.00	10.00	0.00	5.48
6037	61	16Z	MT2	01/23/90	1.109	0.00	36.40	0.00	3.30
6038	61	16Z	MT2	01/23/90	1.109	0.00	18.10	0.00	3.90
6039	61	170	MT2	01/23/90	1.213	0.00	1.73	0.00	0.84
6040	61	170	MT2	01/23/90	1.213	0.00	> 100.00	0.00	6.73
6041	61	15U	MT2	01/17/90	1.135	0.00	> 100.00	0.00	1.37
6042	61	15U	MT2	01/17/90	1.135	0.00	> 100.00	0.00	5.61
6043	61	15V	MT2	01/17/90	1.129	0.00	1.92	0.00	0.00
6044	61	15V	MT2	01/17/90	1.129	0.00	0.50	0.00	0.00
6045	61	15V	MT2	01/17/90	1.092	0.00	19.20	0.00	0.00
6046	61	15W	MT2	01/17/90	1.092	0.00	82.00	0.00	0.00
6047	61	15X	MT2	01/17/90	1.064	0.00	> 100.00	0.00	4.11
6048	61	15X	MT2	01/17/90	1.064	0.00	> 100.00	0.00	0.62
6049	61	15Y	MT2	01/17/90	1.111	0.00	7.06	0.00	2.38
6050	61	15Y	MT2	01/17/90	1.111	0.00	9.74	0.00	0.05
6051	61	15Z	MT2	01/17/90	0.831	0.00	16.60	0.00	5.35
6052	61	15Z	MT2	01/17/90	0.831	0.00	12.80	0.00	0.00
6053	61	19T	MT2	02/07/90	1.235	0.00	> 100.00	0.00	3.49
6054	61	160	MT2	01/17/90	1.302	0.00	2.22	0.00	1.44
6055	62	173	MT2	01/24/90	1.227	0.00	0.32	0.00	0.00
6056	62	1AX	MT2	02/13/90	1.248	0.00	7.06	0.00	0.00
6056	62	173	MT2	01/24/90	1.227	0.00	5.56	0.00	1.71
6057	62	174	MT2	01/24/90	1.162	0.00	16.50	0.00	0.80
6058	62	174	MT2	01/24/90	1.162	0.00	1.73	0.00	0.51
6059	62	175	MT2	01/24/90	1.274	0.00	4.99	0.00	1.10
6060	62	175	MT2	01/24/90	1.274	0.00	0.35	0.00	0.00
6061	62	176	MT2	01/24/90	1.203	0.00	5.15	0.00	0.60
6062	62	176	MT2	01/24/90	1.203	0.00	49.00	0.00	5.63
6063	62	16E	MT2	01/24/90	1.245	0.00	11.70	0.00	3.38
6064	62	16Z	MT2	01/24/90	1.245	0.00	> 100.00	0.00	7.90
6065	62	16Z	MT2	01/24/90	1.253	0.00	0.68	0.00	0.00
6066	62	16F	MT2	01/24/90	1.253	0.00	4.60	0.00	3.15
6067	62	16G	MT2	01/24/90	1.229	0.00	40.00	0.00	3.24
6068	62	16G	MT2	01/24/90	1.229	0.00	51.90	0.00	3.00
6069	62	16H	MT2	01/24/90	1.213	0.00	4.57	0.00	1.42
6070	62	16H	MT2	01/24/90	1.213	0.00	0.49	0.00	0.00
6070	62	1AX	MT2	02/13/90	1.248	0.00	0.64	0.00	0.00
6071	62	16I	MT2	01/24/90	1.253	0.00	1.69	0.00	12.05
6071	62	18M	MT2	02/14/90	1.208	0.00	3.20	0.00	2.90
6072	62	16I	MT2	01/24/90	1.253	0.00	5.15	0.00	14.24
6072	62	18M	MT2	02/14/90	1.221	0.00	3.70	0.00	0.28
6073	62	17K	MT2	01/30/90	0.994	0.00	15.70	0.00	1.41
6074	62	17K	MT2	01/30/90	0.994	0.00	16.40	0.00	0.00
6075	66	10Y	CEM	07/19/90	0.751	0.00	> 100.00	0.00	34.11
6075	62	17I	MT2	01/30/90	1.006	12.40	49.20	3.97	28.19
6075	61	18T	MT2	02/14/90	1.194	0.00	1.00	0.00	0.21
6075	66	190	MT2	06/07/90	0.940	0.00	51.80	0.00	7.55
6076	62	17L	MT2	01/30/90	1.006	0.00	15.50	0.00	6.21
6077	62	17M	MT2	01/30/90	0.979	0.00	8.30	0.00	3.38
6078	62	17M	MT2	01/30/90	0.979	0.00	0.49	0.00	0.00
6079	62	17N	MT2	01/30/90	0.969	0.00	50.50	0.00	3.54
6102	62	17N	MT2	01/30/90	0.959	0.00	52.20	0.00	0.20
6103	62	17O	MT2	01/30/90	0.892	0.00	15.50	0.00	12.30
6104	62	17O	MT2	01/30/90	0.892	0.00	0.49	0.00	0.22
6104	62	19M	MT2	02/27/90	1.121	0.00	0.49	0.00	0.00
6105	62	17P	MT2	01/30/90	0.941	0.00	2.22	0.00	0.05
6106	62	17P	MT2	01/30/90	0.941	0.00	> 100.00	0.00	0.72
6107	62	17Q	MT2	01/30/90	0.936	89.00	> 100.00	1.12	12.57
6107	62	100	MT2	02/20/90	1.276	0.00	54.40	0.00	0.90
6108	61	10A	MT2	10/31/89	1.473	0.00	> 100.00	0.00	0.44
6108	61	19F	MT2	06/06/90	0.992	0.00	> 100.00	0.00	0.00
6110	62	17R	MT2	01/30/90	0.696	0.00	> 100.00	0.00	13.61
6111	62	19X	MT2	02/08/90	1.198	0.00	> 100.00	0.00	1.80
6112	62	19Y	MT2	02/08/90	1.191	0.00	> 100.00	0.00	2.70
6113	62	19Y	MT2	02/08/90	1.191	0.00	> 100.00	0.00	2.40
6127	62	17S	MT2	01/30/90	0.705	0.00	51.30	0.00	2.73
6128	62	1EN	CEM	04/01/90	0.942	0.00	4.07	0.00	0.00
6128	62	17S	MT2	01/30/90	0.705	0.00	16.00	0.00	7.89
6129	62	17S	MT2	01/30/90	0.768	0.00	0.59	0.00	0.05
6130	62	17S	MT2	01/30/90	0.768	0.00	48.10	0.00	9.45
6131	62	17T	MT2	01/30/90	1.041	0.00	0.50	0.00	0.00
6132	62	17T	MT2	01/30/90	1.041	0.00	> 100.00	0.00	5.10
6133	62	18T	MT2	01/30/90	0.895	0.00	15.60	0.00	10.51
6134	62	18T	MT2	01/30/90	0.895	0.00	45.20	0.00	10.11
6135	62	19W	MT2	06/06/90	0.890	0.00	16.70	0.00	2.40
6134	62	18U	MT2	01/30/90	0.930	0.00	1.71	0.00	4.02
6136	62	1AY	MT2	02/13/90	1.129	0.00	> 1.00	0.00	7.00

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit Cell & Line	Test Date	Diff- rntl.	TC 50	TC 25	\$1	TAI
6137	62	189 NT2	01/30/90	0.858	0.00	15.50	0.00	8.56
6138	62	189 NT2	01/30/90	0.858	0.00	5.35	0.00	0.40
6139	62	18A NT2	01/30/90	0.909	0.00	100.00	0.00	18.29
6140	62	18A NT2	01/30/90	0.909	0.00	1.57	0.00	3.16
6140	62	1AZ NT2	02/13/90	1.211	0.00	1.00	0.00	0.95
6141	62	18M NT2	01/30/90	0.880	0.00	1.55	0.00	1.85
6142	62	18M NT2	01/30/90	0.880	0.00	11.10	0.00	7.79
6143	62	18C NT2	01/30/90	0.874	0.00	1.56	0.00	1.17
6144	62	18C NT2	01/30/90	0.874	0.00	5.90	0.00	3.08
6145	62	18D NT2	01/30/90	0.875	0.00	100.00	0.00	16.81
6145	62	18A NT2	02/14/90	1.119	0.00	10.50	0.00	9.06
6146	62	18D NT2	01/30/90	0.875	0.00	100.00	0.00	2.40
6147	62	18E NT2	01/30/90	1.333	0.00	1.81	0.00	1.39
6148	62	1M CEM	04/01/90	0.942	0.00	100.00	0.00	6.18
6148	62	18E NT2	01/30/90	0.833	0.00	100.00	0.00	12.68
6149	62	18F NT2	01/30/90	0.905	0.00	9.74	0.00	3.10
6150	62	18F NT2	01/30/90	1.905	0.00	15.60	0.00	9.77
6151	62	18G NT2	01/30/90	0.931	0.00	17.40	0.00	6.32
6152	62	18G NT2	01/30/90	0.931	0.00	0.49	0.00	0.08
6153	62	181 NT2	02/01/90	0.961	0.00	0.32	0.00	0.00
6153	62	18B NT2	02/20/90	1.066	0.00	0.23	0.00	1.20
6154	62	10A CEM	02/22/90	0.757	0.00	49.20	0.00	3.91
6154	62	181 NT2	02/01/90	0.961	0.00	3.77	0.00	5.22
6155	62	182 NT2	02/01/90	1.224	0.00	1.61	0.00	0.00
6156	62	182 NT2	02/01/90	1.224	0.00	0.32	0.00	0.00
6156	62	18B NT2	02/20/90	1.066	0.00	0.17	0.00	1.50
6157	62	10C CEM	02/22/90	0.679	0.00	5.40	0.00	2.17
6157	62	183 NT2	02/01/90	1.238	0.00	6.60	0.00	7.25
6158	62	183 NT2	02/01/90	1.238	0.00	1.63	0.00	0.00
6159	62	184 NT2	02/01/90	1.230	0.00	0.52	0.00	0.00
6160	62	184 NT2	02/01/90	1.230	0.00	11.20	0.00	0.00
6161	62	185 NT2	02/01/90	1.175	0.00	3.94	0.00	1.72
6162	62	185 NT2	02/01/90	1.175	0.00	2.41	0.00	0.21
6163	62	180 NT2	02/01/90	1.373	0.00	0.32	0.00	0.00
6163	62	18C NT2	02/20/90	1.106	0.00	0.07	0.00	0.42
6164	62	180 NT2	02/01/90	1.373	0.00	1.57	0.00	0.60
6165	62	18P NT2	02/01/90	1.387	0.00	0.32	0.00	0.00
6165	62	18C NT2	02/20/90	1.106	0.00	0.15	0.00	1.93
6166	62	18P NT2	02/01/90	1.337	0.00	0.95	0.00	0.00
6167	62	18Q NT2	02/01/90	1.398	0.00	0.54	0.00	0.00
6168	62	18Q NT2	02/01/90	1.398	0.00	5.41	0.00	1.43
6169	62	18B NT2	02/01/90	1.340	0.00	4.99	0.00	0.00
6170	13A	10G NT2	10/26/89	1.392	0.00	100.00	0.00	1.66
6171	13A	10G NT2	10/26/89	1.392	0.00	100.00	0.00	1.61
6172	13A	10M NT2	10/26/89	1.276	0.00	100.00	0.00	2.07
6173	13A	10M NT2	10/26/89	1.276	0.00	100.00	0.00	2.78
6174	66	17V CEM	08/02/90	0.920	0.00	100.00	0.00	4.60
6174	66	40J CEM	02/20/91	0.879	0.00	9.03	0.00	1.20
6174	62	18A NT2	02/01/90	1.340	17.40	100.00	5.75	30.66
6174	62	189 NT2	02/20/90	1.117	31.20	100.00	3.20	19.16
6174	66	19H NT2	06/07/90	1.112	24.10	100.00	4.15	21.67
6174	66	40J NT2	02/20/91	1.417	0.00	79.40	0.00	0.04
6175	66	17V CEM	08/02/90	0.869	49.10	100.00	2.04	16.13
6175	62	18S NT2	02/01/90	1.309	45.90	100.00	2.18	16.73
6175	62	189 NT2	02/20/90	1.117	179.00	100.00	5.59	26.59
6175	66	19H NT2	06/07/90	1.112	23.00	100.00	4.34	20.60
6176	62	18E NT2	02/01/90	1.309	20.80	100.00	4.82	26.35
6176	62	18A NT2	02/20/90	0.954	138.00	1000.00	7.26	38.37
6176	72	28G NT2	05/05/90	1.183	47.30	100.00	2.12	16.22
6177	62	17V NT2	01/31/90	1.230	0.00	40.60	0.00	0.51
6178	62	17Y NT2	01/31/90	1.230	0.00	100.00	0.00	7.34
6179	62	10C CEM	02/22/90	0.679	0.00	50.50	0.00	9.81
6179	62	10D CEM	04/01/90	0.950	0.00	66.70	0.00	0.77
6179	66	10Z CEM	07/19/90	0.578	0.00	71.50	0.00	10.59
6179	62	17W NT2	01/31/90	1.214	24.80	49.00	1.97	10.49
6179	66	19S NT2	06/07/90	0.999	0.00	50.50	0.00	10.15
6180	74	353 CEM	11/13/90	0.685	2.35	100.00	42.51	64.81
6180	74	7ME CEM	01/04/91	1.397	5.11	100.00	19.56	46.18
6180	62	17W NT2	01/31/90	1.214	32.70	100.00	3.05	19.64
6180	66	19S NT2	06/07/90	0.999	12.10	100.00	8.24	32.54
6181	62	17X NT2	01/31/90	1.191	0.00	100.00	0.00	2.01
6182	62	17X NT2	01/31/90	1.191	96.60	90.00	0.94	7.99
6183	62	17W CEM	08/02/90	0.869	0.00	100.00	0.00	5.20
6183	62	17Y NT2	01/31/90	1.103	51.20	100.00	1.95	13.52
6183	62	10D NT2	02/20/90	1.276	51.60	253.00	4.90	24.60
6183	66	19U NT2	06/12/90	0.958	38.10	100.00	2.63	19.54
6184	66	17X CEM	08/02/90	0.920	4.25	100.00	23.50	37.90
6184	66	296 CEM	06/07/90	1.105	0.00	100.00	0.00	4.39

Cumulative Summary (cont'd)

AVE No.	Ship ment	Plt #	Cell Line	Test Date	Off- mtl.	IC 50	TC 25	SI	TAI
6184	74	353	CEM	11/13/90	0.685	0.00	> 100.00	0.00	> 10.04
6184	62	177	MT2	01/31/90	1.103	48.00	> 100.00	2.08	> 14.63
6184	62	1C1	MT2	02/20/90	1.228	52.30	> 493.00	9.43	> 38.38
6184	66	17U	MT2	06/12/90	0.958	55.20	> 100.00	1.81	> 10.72
6184	74	34J	MT2	11/13/90	1.067	0.00	> 100.00	0.00	> 2.19
6185	66	17X	CEM	08/02/90	0.920	46.80	> 100.00	2.14	> 22.05
6185	62	172	MT2	01/31/90	1.154	27.20	> 100.00	3.68	> 23.48
6185	62	1C1	MT2	02/20/90	1.228	15.30	> 155.00	10.11	> 39.92
6185	66	17V	MT2	06/12/90	0.877	34.10	> 100.00	2.93	> 25.34
6186	66	17Y	CEM	08/02/90	0.923	0.00	> 100.00	0.00	> 4.73
6186	62	172	MT2	01/31/90	1.154	48.60	> 100.00	2.06	> 18.15
6186	62	1C2	MT2	02/20/90	1.180	53.10	> 155.00	2.92	> 19.38
6186	66	17V	MT2	06/12/90	0.877	56.60	> 100.00	1.77	> 18.73
6187	74	354	CEM	11/13/90	0.728	8.22	> 29.70	3.49	> 41.89
6187	62	190	MT2	02/07/90	1.188	55.20	> 100.00	1.81	> 10.92
6187	66	17W	MT2	06/12/90	0.989	16.00	> 58.60	3.65	> 20.54
6187	74	34K	MT2	11/13/90	1.111	19.20	> 22.20	1.16	> 10.78
6188	62	190	MT2	02/07/90	1.188	46.30	> 100.00	2.16	> 13.52
6188	66	17W	MT2	06/12/90	0.989	43.30	> 100.00	2.31	> 21.13
6189	62	199	MT2	02/07/90	1.144	0.00	> 100.00	0.00	> 8.08
6190	62	199	MT2	02/07/90	1.144	0.00	> 15.70	0.00	> 1.10
6191	62	224	CEM	08/14/90	1.049	0.00	> 100.00	0.00	> 5.79
6191	62	190	MT2	02/07/90	1.279	63.60	> 100.00	1.57	> 11.74
6191	66	17X	MT2	06/12/90	0.966	42.20	> 100.00	2.37	> 27.94
6192	74	354	CEM	11/13/90	0.728	8.55	> 100.00	11.70	> 42.05
6192	62	190	MT2	02/07/90	1.279	20.10	> 100.00	4.98	> 27.65
6192	66	17X	MT2	06/12/90	0.966	15.20	> 100.00	6.59	> 40.67
6192	74	34K	MT2	11/13/90	1.111	0.00	> 29.80	0.00	> 0.00
6193	66	17R	CEM	07/24/90	0.711	16.10	> 100.00	6.21	> 28.95
6193	62	198	MT2	02/07/90	1.176	39.50	> 100.00	2.53	> 23.87
6193	66	17Y	MT2	06/12/90	0.854	68.70	> 100.00	1.13	> 22.70
6194	74	355	CEM	11/13/90	0.815	14.10	> 100.00	7.09	> 38.97
6194	62	198	MT2	02/07/90	1.176	5.12	> 100.00	19.55	> 53.81
6194	66	17Y	MT2	06/12/90	0.854	4.73	> 100.00	21.16	> 51.34
6194	74	34L	MT2	11/13/90	1.105	13.90	> 100.00	7.17	> 35.97
6195	74	355	CEM	11/13/90	0.815	97.30	> 100.00	1.03	> 9.09
6195	62	198	MT2	02/07/90	1.311	14.30	> 30.40	2.13	> 32.76
6195	66	198	MT2	06/26/90	1.042	5.53	> 100.00	18.07	> 52.10
6195	74	34L	MT2	11/13/90	1.105	52.30	> 100.00	1.91	> 12.47
6196	74	42Y	CEM	02/20/91	0.755	78.30	> 100.00	1.28	> 2.66
6196	62	198	MT2	02/07/90	1.311	47.30	> 100.00	2.12	> 17.13
6196	66	198	MT2	06/26/90	1.042	16.80	> 100.00	5.95	> 31.70
6196	74	42X	MT2	02/20/91	1.429	52.70	> 100.00	1.90	> 12.14
6197	74	356	CEM	11/13/90	0.828	44.70	> 100.00	2.24	> 22.04
6197	62	197	MT2	02/06/90	1.068	7.78	> 100.00	12.85	> 32.10
6197	66	19C	MT2	06/26/90	0.970	8.81	> 100.00	11.35	> 31.10
6197	74	34M	MT2	11/13/90	1.163	52.30	> 100.00	1.91	> 13.65
6198	74	354	CEM	11/13/90	0.828	43.20	> 100.00	2.08	> 17.54
6198	62	197	MT2	02/06/90	1.068	26.40	> 100.00	1.79	> 21.94
6198	66	19C	MT2	06/26/90	0.970	14.30	> 100.00	7.01	> 38.77
6198	62	17C	MT2	07/18/90	1.148	17.96	> 325.00	18.12	> 25.70
6198	74	34N	MT2	11/13/90	1.163	49.20	> 100.00	2.03	> 11.99
6199	66	17Y	CEM	08/02/90	0.923	30.10	> 100.00	3.33	> 26.51
6199	62	182	MT2	02/06/90	1.095	56.90	> 100.00	1.76	> 11.46
6199	62	18A	MT2	02/20/90	0.954	272.00	> 1000.0	3.68	> 24.64
6199	66	180	MT2	06/26/90	0.918	54.60	> 100.00	1.77	> 9.92
6199	62	17D	MT2	07/18/90	1.213	29.40	> 325.00	11.06	> 20.80
6200	67	18B	CEM	04/26/90	0.545	8.87	> 100.00	11.27	> 52.65
6200	66	172	CEM	07/19/90	0.590	2.28	> 100.00	43.87	> 43.10
6200	66	172	CEM	08/02/90	0.726	0.00	> 62.90	0.00	> 4.15
6200	62	182	MT2	02/06/90	1.095	32.70	> 100.00	3.06	> 23.84
6200	66	180	MT2	06/26/90	0.918	21.30	> 100.00	4.70	> 29.15
6201	62	18B	CEM	04/26/90	0.545	10.30	> 100.00	9.70	> 50.52
6201	66	172	CEM	07/19/90	0.590	2.54	> 100.00	39.43	> 62.20
6201	66	172	CEM	08/02/90	0.726	0.00	> 59.90	0.00	> 1.60
6201	62	190	MT2	02/06/90	1.036	23.50	> 100.00	4.25	> 27.35
6201	66	19E	MT2	06/26/90	1.001	14.40	> 100.00	6.93	> 40.72
6202	62	18C	CEM	04/26/90	0.603	35.90	> 100.00	2.79	> 42.36
6202	66	190	CEM	07/24/90	0.899	0.00	> 95.50	0.00	> 12.83
6202	68	202	CEM	08/07/90	1.146	0.00	> 100.00	0.00	> 2.80
6202	62	190	MT2	02/06/90	1.036	20.80	> 100.00	4.80	> 27.82
6202	66	19E	MT2	06/26/90	1.001	15.70	> 100.00	6.35	> 33.67
6203	62	18C	CEM	04/26/90	0.603	0.00	> 3.82	0.00	> 4.33
6203	62	191	MT2	02/06/90	1.047	55.90	> 100.00	1.79	> 13.42
6203	66	19F	MT2	06/26/90	0.935	57.50	> 88.70	1.54	> 21.47
6204	62	191	MT2	02/06/90	1.047	0.00	> 9.41	0.00	> 0.00
6205	62	192	MT2	02/06/90	1.088	52.00	> 100.00	1.92	> 13.84
6205	66	18F	MT2	06/26/90	0.935	23.10	> 100.00	4.33	> 36.66

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-rcnl.	IC 50	TC 25	SI	TAI	
6205	74	34M	HT2	11/13/90	1.128	48.60	> 100.00	> 2.06	> 14.45
6206	62	192	HT2	02/06/90	1.088	0.00	> 100.00	> 0.00	> 4.05
6207	74	357	CEM	11/13/90	1.756	0.00	> 0.14	> 0.00	> 0.89
6207	62	19K	HT2	02/06/90	1.152	17.60	> 49.00	> 2.78	> 23.24
6207	66	101	HT2	06/27/90	1.003	35.50	> 100.00	> 2.82	> 33.85
6207	74	34M	HT2	11/13/90	1.128	0.00	> 100.00	> 0.00	> 1.83
6207	62	18D	CEM	04/26/90	0.667	3.28	> 100.00	> 30.45	> 62.62
6208	66	202	CEM	08/07/90	1.166	6.46	> 95.00	> 14.70	> 42.24
6208	62	19K	HT2	02/06/90	1.152	3.81	> 100.00	> 26.26	> 56.31
6208	66	101	HT2	06/27/90	1.003	1.75	> 92.70	> 52.88	> 70.14
6209	62	18D	CEM	04/26/90	0.627	2.81	> 100.00	> 35.56	> 70.01
6209	66	19P	CEM	07/24/90	0.833	6.60	> 100.00	> 15.16	> 45.40
6209	68	203	CEM	08/07/90	1.147	10.70	> 100.00	> 9.36	> 41.68
6209	62	19L	HT2	02/06/90	1.101	4.58	> 100.00	> 21.82	> 55.91
6210	62	18D	CEM	04/01/90	0.932	2.25	> 100.00	> 66.40	> 62.02
6210	66	19S	CEM	07/24/90	0.839	2.22	> 100.00	> 44.97	> 58.20
6210	68	203	CEM	08/07/90	1.147	1.55	> 100.00	> 64.37	> 73.64
6210	62	19L	HT2	02/06/90	1.101	12.50	> 100.00	> 8.02	> 41.18
6211	62	18D	CEM	04/01/90	0.932	5.78	> 100.00	> 17.29	> 50.70
6211	66	19P	CEM	07/24/90	0.833	6.39	> 100.00	> 15.45	> 34.18
6211	68	204	CEM	08/07/90	1.210	17.30	> 72.50	> 4.19	> 22.64
6211	62	19M	HT2	02/06/90	1.125	4.68	> 60.80	> 13.00	> 42.03
6211	66	10K	HT2	06/27/90	1.131	4.43	> 77.30	> 17.45	> 40.07
6212	62	19M	HT2	02/06/90	1.125	25.80	> 49.00	> 1.90	> 12.74
6212	66	10K	HT2	06/27/90	1.131	42.70	> 100.00	> 2.34	> 70.25
6213	62	19K	HT2	02/07/90	1.220	0.00	> 6.60	> 0.00	> 0.20
6214	66	23C	CEM	08/16/90	0.810	0.00	> 100.00	> 0.00	> 4.90
6214	74	38B	CEM	11/27/90	1.120	50.30	> 100.00	> 1.99	> 16.73
6214	62	19K	HT2	02/07/90	1.220	50.30	> 100.00	> 1.99	> 17.13
6214	66	10L	HT2	06/27/90	1.148	47.30	> 100.00	> 2.12	> 32.55
6214	74	37H	HT2	11/27/90	0.713	64.80	> 100.00	> 2.23	> 23.54
6215	62	18K	CEM	04/01/90	0.879	1.17	> 100.00	> 85.63	> 76.04
6215	68	204	CEM	08/07/90	1.210	1.79	> 100.00	> 55.90	> 71.83
6215	68	250	CEM	08/21/90	0.744	1.69	> 100.00	> 59.21	> 73.63
6215	62	19S	HT2	02/07/90	1.276	15.40	> 100.00	> 6.48	> 31.26
6215	66	10L	HT2	06/27/90	1.148	19.10	> 100.00	> 5.22	> 33.09
6216	74	38B	CEM	11/27/90	1.120	16.30	> 100.00	> 6.15	> 31.51
6216	62	19S	HT2	02/07/90	1.276	23.90	> 52.70	> 2.20	> 14.08
6215	66	10P	HT2	06/27/90	1.102	12.90	> 100.00	> 7.75	> 43.61
6216	74	37H	HT2	11/27/90	0.713	0.00	> 20.20	> 0.00	> 6.96
6217	66	223	CEM	08/14/90	0.951	8.67	> 100.00	> 11.53	> 45.68
6217	62	19M	HT2	02/07/90	1.247	4.73	> 100.00	> 21.16	> 56.11
6217	66	10M	HT2	06/27/90	1.102	5.23	> 100.00	> 19.11	> 53.90
6218	66	23C	CEM	08/16/90	0.810	34.00	> 100.00	> 2.94	> 18.93
6218	62	19K	HT2	02/07/90	1.247	4.87	> 7.43	> 1.53	> 14.47
6218	66	10P	HT2	06/28/90	1.176	4.76	> 100.00	> 21.02	> 52.50
6218	62	17D	HT2	07/18/90	1.213	2.32	> 196.00	> 84.53	> 37.42
6219	68	205	CEM	08/07/90	1.135	0.00	> 100.00	> 0.00	> 5.59
6219	74	38C	CEM	11/27/90	1.265	0.00	> 100.00	> 0.00	> 2.43
6219	62	197	HT2	02/07/90	1.207	34.80	> 100.00	> 2.87	> 22.24
6219	62	1C2	HT2	02/20/90	1.180	39.90	> 180.00	> 4.50	> 25.82
6219	66	10P	HT2	06/28/90	1.176	20.10	> 100.00	> 4.98	> 30.36
6219	62	17E	HT2	07/18/90	1.147	22.90	> 362.00	> 15.82	> 24.18
6219	74	37H	HT2	11/27/90	0.911	32.00	> 100.00	> 3.13	> 32.18
6220	66	224	CEM	08/14/90	1.049	15.60	> 100.00	> 6.41	> 32.39
6220	62	197	HT2	02/07/90	1.207	4.95	> 100.00	> 20.21	> 55.21
6220	66	10M	HT2	06/28/90	1.094	4.82	> 100.00	> 20.76	> 60.71
6221	66	10V	CEM	04/26/90	1.150	28.70	> 100.00	> 3.48	> 21.14
6221	62	19M	HT2	02/07/90	1.222	34.90	> 100.00	> 2.87	> 23.46
6222	66	10V	CEM	04/26/90	1.150	59.30	> 100.00	> 1.69	> 12.14
6222	62	19M	HT2	02/07/90	1.222	36.20	> 100.00	> 2.76	> 22.98
6223	66	10W	CEM	06/26/90	1.318	14.40	> 100.00	> 6.93	> 34.76
6223	62	199	HT2	02/07/90	1.278	5.45	> 100.00	> 18.33	> 52.10
6224	66	10W	CEM	06/26/90	1.318	13.10	> 100.00	> 7.65	> 43.17
6224	62	199	HT2	02/07/90	1.278	12.30	> 100.00	> 8.11	> 42.88
6225	66	10X	CEM	06/26/90	1.134	16.20	> 100.00	> 6.17	> 34.86
6225	66	22M	CEM	08/15/90	1.072	0.00	> 100.00	> 0.00	> 5.79
6225	62	19T	HT2	02/07/90	1.235	16.80	> 100.00	> 5.96	> 33.96
6226	66	22M	CEM	08/15/90	1.072	0.00	> 100.00	> 0.00	> 2.48
6226	62	1A4	HT2	02/13/90	1.053	34.80	> 100.00	> 2.87	> 21.06
6227	66	10Y	CEM	06/26/90	1.221	16.30	> 85.10	> 5.23	> 33.09
6227	66	22O	CEM	08/15/90	0.980	70.30	> 100.00	> 1.42	> 8.81
6227	62	1A4	HT2	02/13/90	1.053	13.80	> 100.00	> 7.26	> 35.67
6228	66	10Y	CEM	06/26/90	1.221	0.00	> 49.00	> 0.00	> 15.45
6228	66	22O	CEM	08/15/90	0.980	0.00	> 100.00	> 0.00	> 1.19
6228	62	1A3	HT2	02/13/90	0.823	14.90	> 62.90	> 4.23	> 26.00
6229	66	10Z	CEM	06/26/90	1.357	0.00	> 100.00	> 0.00	> 17.88
6229	66	22P	CEM	08/15/90	1.025	0.00	> 100.00	> 0.00	> 7.03

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
6229	62	1A5 HT2	02/13/90	0.823	62.20	> 100.00	> 1.61	> 19.06
6230	62	1A6 CEM	04/01/90	1.046	0.00	> 100.00	0.00	> 6.29
6230	66	1A2 CEM	06/26/90	1.357	45.30	> 100.00	> 2.21	> 29.44
6230	62	1A6 HT2	02/13/90	1.027	29.30	> 100.00	> 3.41	> 22.74
6230	61	1A4 HT2	02/27/90	1.160	48.60	175.00	3.61	19.98
6231	62	1A6 HT2	02/13/90	1.027	0.00	12.50	0.00	0.00
6232	62	1A7 HT2	02/13/90	0.968	0.00	28.50	0.00	> 0.70
6234	67	222 CEM	08/14/90	1.102	0.00	> 100.00	0.00	0.00
6234	67	1A8 HT2	07/25/90	1.115	0.00	> 100.00	0.00	> 5.51
6235	67	1A9 HT2	07/26/90	1.116	0.00	> 100.00	0.00	> 1.79
6236	67	1A9 HT2	07/26/90	1.116	0.00	> 100.00	0.00	0.00
6237	62	1A7 HT2	02/13/90	0.968	0.00	> 100.00	0.00	> 1.15
6238	62	1A8 HT2	02/13/90	1.066	0.00	> 100.00	0.00	> 0.81
6239	62	1A8 HT2	02/13/90	1.066	0.00	> 100.00	0.00	> 1.04
6278	17A	1FC CEM	03/13/90	0.617	0.00	> 100.00	0.00	> 29.59
6278	17A	1FB CEM	03/13/90	0.616	0.00	> 100.00	0.00	0.00
6278	17A	1G6 CEM	03/21/90	1.603	0.00	35.50	0.00	0.00
6278	17A	1FF HT2	03/13/90	1.478	0.00	> 100.00	0.00	> 1.97
6278	17A	1FE HT2	03/13/90	1.485	0.00	> 100.00	0.00	0.00
6278	17A	1G8 HT2	03/21/90	1.349	0.00	48.70	0.00	> 2.45
6279	17A	1FC CEM	03/13/90	0.617	0.00	> 100.00	0.00	> 29.60
6279	17A	1FB CEM	03/13/90	0.616	0.00	> 100.00	0.00	0.00
6279	17A	1G6 CEM	03/21/90	1.603	0.00	41.70	0.00	> 0.90
6279	17A	1FF HT2	03/13/90	1.478	0.00	97.40	0.00	> 3.00
6279	17A	1FE HT2	03/13/90	1.485	0.00	> 100.00	0.00	0.00
6279	17A	1G8 HT2	03/21/90	1.349	0.00	45.60	0.00	> 3.68
6283	14A	1G5 CEM	10/17/90	1.86	> 100.00	0.00	0.00	> 1.38
6283	14A	1B1 HT2	01/30/90	1.207	0.00	0.51	0.00	> 0.04
6283	14A	11G HT2	10/31/90	1.00	> 100.00	0.00	0.00	> 0.42
6284	14A	19Z HT2	02/08/90	1.197	0.00	> 100.00	0.00	> 3.01
6285	14A	1A1 CEM	02/15/90	0.866	0.00	1.00	0.00	> 7.99
6285	62	1G6 CEM	02/22/90	0.860	0.00	26.70	0.00	> 1.04
6285	14A	1B1 HT2	01/30/90	1.207	0.00	9.87	0.00	> 4.03
6286	14A	1G6 CEM	10/17/90	2.01	> 100.00	0.00	0.00	> 0.46
6286	14A	19Z HT2	02/08/90	1.197	0.00	> 100.00	0.00	> 0.60
6286	14A	11H HT2	10/31/90	1.05	> 100.00	0.00	0.00	> 0.82
6287	14A	1G6 CEM	10/17/90	2.01	> 100.00	0.00	0.00	> 6.32
6287	14A	1A0 HT2	02/08/90	1.273	0.00	> 100.00	0.00	0.00
6287	14A	11H HT2	10/31/90	2.01	> 100.00	0.00	0.00	> 0.81
6288	16A	1P1 HT2	06/06/90	0.868	0.00	0.72	0.00	> 0.35
6288	16A	1S4 HT2	07/17/90	1.147	0.00	3.25	0.00	> 10.76
6289	14A	1A7 CEM	12/07/89	0.907	8.33	> 100.00	> 12.01	> 37.91
6289	14A	1C7 CEM	02/22/90	0.861	4.95	> 100.00	> 20.19	> 50.06
6289	14A	1A8 HT2	12/07/89	1.157	5.97	> 100.00	> 16.74	> 48.09
6289	14A	15F HT2	12/20/89	1.352	17.70	> 100.00	> 5.65	> 32.16
6293	14A	1A7 CEM	12/07/89	0.907	0.32	> 2.07	> 6.46	> 18.89
6293	14A	1C7 CEM	02/22/90	0.861	0.32	> 100.00	> 312.50	> 78.84
6293	14A	1A8 HT2	12/07/89	1.157	0.32	> 100.00	> 312.50	> 90.06
6293	14A	15F HT2	12/20/89	1.352	0.33	89.50	273.63	86.80
6294	14A	1A8 HT2	12/07/89	1.159	0.00	> 100.00	0.00	> 6.39
6294	14A	15G HT2	12/20/89	1.364	0.00	> 100.00	0.00	> 2.30
6295	14A	1A6 CEM	12/07/89	0.938	0.40	3.48	8.62	24.51
6295	14A	1A8 HT2	12/07/89	1.159	12.10	> 100.00	> 8.24	> 46.19
6295	14A	15G HT2	12/20/89	1.364	11.50	> 100.00	> 8.57	> 37.75
6301	63	1C1 HT2	02/27/90	1.093	0.00	71.50	0.00	> 2.96
6302	63	1C1 HT2	02/27/90	1.093	0.00	49.50	0.00	> 3.21
6303	63	1C0 HT2	02/27/90	1.117	0.00	3.24	0.00	> 0.09
6304	63	1C0 HT2	02/27/90	1.117	0.00	72.50	0.00	> 3.21
6305	63	1C1 HT2	02/27/90	1.116	0.00	16.40	0.00	> 1.80
6306	63	1C1 HT2	02/27/90	1.116	0.00	0.32	0.00	0.00
6306	63	1C0 HT2	05/22/90	1.121	0.00	0.38	0.00	> 3.70
6307	63	1K8 CEM	04/01/90	0.923	0.00	0.00	0.00	> 1.20
6307	63	1C0 HT2	02/27/90	1.206	0.00	0.00	4.97	> 5.07
6308	63	1C0 HT2	02/27/90	1.206	0.00	3.86	0.00	> 1.07
6309	63	1K0 CEM	04/01/90	0.950	0.00	54.60	0.00	> 2.41
6309	63	1C1 HT2	02/27/90	1.046	0.00	32.00	0.00	> 12.06
6310	63	1C1 HT2	02/27/90	1.046	0.00	1.55	0.00	0.00
6311	63	1C1 HT2	02/28/90	1.177	0.00	56.60	0.00	> 6.79
6312	63	1C1 HT2	02/28/90	1.177	0.00	16.00	0.00	0.00
6313	63	1C1 HT2	02/28/90	1.173	0.00	17.50	0.00	> 1.20
6314	63	1C1 HT2	02/28/90	1.173	0.00	53.50	0.00	0.00
6315	63	1C1 HT2	02/28/90	1.011	0.00	4.92	0.00	> 0.45
6316	63	1C1 HT2	02/28/90	1.011	0.00	4.90	0.00	0.00
6317	63	1C1 HT2	02/28/90	1.137	0.00	3.64	0.00	> 1.33
6318	63	1C1 HT2	02/28/90	1.137	0.00	3.11	0.00	0.00
6319	63	1C1 HT2	02/28/90	1.104	0.00	6.82	0.00	> 1.27
6320	63	1C1 HT2	02/28/90	1.104	0.00	0.32	0.00	0.00
6320	63	1C0 HT2	05/22/90	1.121	0.00	0.33	0.00	> 6.23

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt Cell # Line	Test Date	Diff- mtl.	IC 50	IC 25	SI	TAI
6321	63	1FH HT2	03/15/90	1.203	0.00	4.92	0.00	0.25
6322	63	1FH CEM	04/01/90	0.879	0.00	0.00	0.00	0.00
6323	63	1FH HT2	03/15/90	1.203	0.00	1.55	0.00	2.48
6324	63	1FI HT2	03/15/90	1.157	0.00	15.50	0.00	0.30
6325	63	1FI HT2	03/15/90	1.157	0.00	100.00	0.00	2.60
6326	63	1FJ HT2	03/15/90	1.222	0.00	17.70	0.00	0.80
6327	63	1FJ HT2	03/15/90	1.222	0.00	49.20	0.00	0.05
6328	63	1FK HT2	03/15/90	1.192	0.00	51.50	0.00	1.00
6329	63	1FK HT2	03/15/90	1.192	0.00	2.41	0.00	0.20
6330	63	1FL HT2	03/15/90	1.196	0.00	100.00	0.00	0.00
6331	63	1FL HT2	03/15/90	1.196	0.00	49.26	0.00	1.51
6332	63	1DT HT2	03/01/90	1.089	0.00	100.00	0.00	13.67
6333	63	1DT HT2	03/01/90	1.089	0.00	15.50	0.00	2.30
6334	63	1DU HT2	03/01/90	1.152	0.00	4.95	0.00	2.10
6335	63	1DU HT2	03/01/90	1.152	0.00	4.90	0.00	0.20
6336	63	1DV HT2	03/01/90	1.119	0.00	5.70	0.00	0.80
6337	63	1DV HT2	03/01/90	1.119	0.00	65.30	0.00	7.95
6338	63	1DW HT2	03/01/90	1.217	0.00	15.70	0.00	1.10
6339	63	1DW HT2	03/01/90	1.217	0.00	4.19	0.00	0.87
6340	63	1DX HT2	03/01/90	1.187	0.00	100.00	0.00	1.91
6341	63	1DX HT2	03/01/90	1.187	0.00	1.60	0.00	1.22
6342	63	4CV CEM	02/20/91	0.755	0.00	12.40	0.00	0.00
6343	63	4CV HT2	02/20/91	1.429	0.00	14.50	0.00	0.00
6344	63	102 HT2	03/06/90	1.255	0.00	4.90	0.00	0.00
6345	63	102 HT2	03/06/90	1.255	0.00	49.00	0.00	2.71
6346	63	1E0 HT2	03/06/90	1.256	0.00	0.56	0.00	0.01
6347	63	1E1 HT2	03/06/90	1.246	0.00	100.00	0.00	0.40
6348	63	1E1 HT2	03/06/90	1.246	0.00	100.00	0.00	0.00
6349	63	1E2 HT2	03/06/90	1.201	0.00	4.66	0.00	0.00
6350	63	1E2 HT2	03/06/90	1.201	0.00	0.32	0.00	0.00
6351	63	1E3 HT2	03/06/90	1.205	0.00	12.20	0.00	0.00
6352	63	1E3 HT2	03/06/90	1.205	0.00	0.51	0.00	0.30
6353	63	1ER HT2	03/06/90	1.219	0.00	0.32	0.00	0.00
6354	63	1ER HT2	03/06/90	1.219	0.00	1.86	0.00	0.00
6355	63	1ER HT2	03/06/90	1.219	0.00	1.44	0.00	0.00
6356	63	1ES HT2	03/06/90	1.175	0.00	1.44	0.00	0.00
6357	63	1ES HT2	03/06/90	1.175	0.00	1.84	0.00	0.00
6358	63	1ET HT2	03/06/90	1.161	0.00	1.90	0.00	0.00
6359	63	1ET HT2	03/06/90	1.161	0.00	0.97	0.00	0.00
6360	63	1EU HT2	03/06/90	1.215	0.00	0.32	0.00	0.00
6361	63	1EU HT2	03/06/90	1.215	0.00	1.29	0.00	0.00
6362	63	1EV HT2	03/06/90	1.247	0.00	2.49	0.00	0.00
6363	63	1EV HT2	03/06/90	1.247	0.00	39.20	0.00	0.28
6364	63	1E5 HT2	03/07/90	1.145	0.00	100.00	0.00	0.76
6365	63	1E5 HT2	03/07/90	1.145	0.00	55.40	0.00	0.40
6366	63	1E6 HT2	03/07/90	1.128	0.00	100.00	0.00	1.50
6367	63	1E6 HT2	03/07/90	1.128	0.00	15.90	0.00	0.03
6368	63	1E7 HT2	03/07/90	1.075	0.00	50.30	0.00	0.20
6369	63	1E7 HT2	03/07/90	1.075	0.00	9.35	0.00	0.30
6370	63	1E8 HT2	03/07/90	1.135	0.00	44.60	0.00	0.06
6371	63	1E8 HT2	03/07/90	1.135	0.00	6.18	0.00	1.15
6372	63	1E9 HT2	03/07/90	1.181	0.00	3.64	0.00	0.63
6373	63	1E9 HT2	03/07/90	1.181	0.00	2.10	0.00	0.00
6374	63	1E8 HT2	03/08/90	1.350	0.00	100.00	0.00	2.99
6375	63	1E8 HT2	03/08/90	1.350	0.00	100.00	0.00	3.10
6376	63	1E0 HT2	03/08/90	1.375	0.00	100.00	0.00	2.95
6377	63	1E0 HT2	03/08/90	1.375	0.00	100.00	0.00	4.75
6378	63	1E0 HT2	03/08/90	1.310	0.00	45.00	0.00	0.53
6379	63	1E0 HT2	03/08/90	1.310	0.00	18.00	0.00	1.00
6380	63	1EP CEM	04/01/90	1.046	0.00	57.00	0.00	0.00
6381	63	1EE HT2	03/08/90	1.282	0.00	88.70	0.00	0.15
6382	63	1EP CEM	04/01/90	1.046	0.00	100.00	0.00	5.11
6383	63	1EE HT2	03/08/90	1.282	0.00	100.00	0.00	11.29
6384	63	1EF HT2	03/08/90	1.146	0.00	100.00	0.00	5.89
6385	63	1EF HT2	03/08/90	1.146	0.00	49.20	0.00	4.66
6386	63	1G0 HT2	03/20/90	1.174	0.00	7.92	0.00	0.00
6387	63	1G0 HT2	03/20/90	1.174	0.00	100.00	0.00	0.00
6388	63	1G1 HT2	03/20/90	1.081	0.00	100.00	0.00	0.20
6389	63	1G1 HT2	03/20/90	1.081	0.00	16.90	0.00	0.00
6390	63	1G2 HT2	03/20/90	1.108	0.00	6.47	0.00	0.00
6391	63	1G2 HT2	03/20/90	1.108	0.00	16.30	0.00	0.90
6392	63	1GX CEM	07/05/90	1.113	0.00	0.32	0.00	0.00
6393	63	1GX HT2	03/20/90	1.070	0.00	0.32	0.00	0.00
6394	63	1JL HT2	04/24/90	0.991	0.00	0.05	0.00	0.90
6395	63	1JL HT2	04/24/90	0.991	0.00	0.55	0.00	0.00
6396	63	1JL HT2	03/20/90	1.070	0.00	0.51	0.00	0.00
6397	63	1JL HT2	04/24/90	0.991	0.00	0.42	0.00	1.17
6398	63	1G6 HT2	03/20/90	1.216	0.00	9.50	0.00	0.50

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-mtl.	IC 50	TC 25	SI	TAI
6391	63	104	MT2	03/20/90	1.216	0.00	50.50	0.00	1.11
6392	63	101	MT2	03/28/90	1.291	0.00	5.05	0.00	0.40
6393	63	101	MT2	03/28/90	1.291	0.00	0.32	0.00	0.00
6393	63	1JM	MT2	04/24/90	0.919	0.00	0.03	0.00	0.65
6394	63	10U	MT2	03/28/90	1.331	0.00	5.27	0.00	0.00
6395	63	10U	MT2	03/28/90	1.331	0.00	0.32	0.00	0.00
6395	63	1JM	MT2	04/24/90	0.919	0.00	0.35	0.00	0.20
6396	63	10V	MT2	03/28/90	1.279	0.00	100.00	0.00	0.41
6397	63	10V	MT2	03/28/90	1.279	0.00	0.32	0.00	0.00
6397	63	1JM	MT2	04/24/90	1.030	0.00	0.33	0.00	0.00
6398	63	10W	MT2	03/28/90	1.249	0.00	1.19	0.00	0.00
6399	63	10W	MT2	03/28/90	1.249	0.00	0.32	0.00	0.00
6399	63	1JM	MT2	04/24/90	1.030	0.00	0.30	0.00	0.00
6400	66	100	MT2	06/28/90	1.094	0.00	0.32	0.00	0.00
6400	66	1SP	MT2	07/17/90	1.154	0.00	0.00	0.00	1.40
6401	66	10R	MT2	06/28/90	1.171	0.00	0.32	0.00	0.00
6401	66	100	MT2	07/17/90	1.186	0.00	0.02	0.00	0.01
6402	66	10R	MT2	06/28/90	1.171	0.00	1.48	0.00	0.13
6403	66	10S	MT2	06/28/90	1.124	0.00	0.32	0.00	0.00
6403	66	100	MT2	07/17/90	1.186	0.00	0.03	0.00	0.00
6404	66	10S	MT2	06/28/90	1.124	0.00	0.49	0.00	0.00
6404	66	10R	MT2	07/17/90	1.148	0.00	0.03	0.00	0.90
6405	66	10T	MT2	06/28/90	1.072	0.00	0.32	0.00	0.00
6405	66	10R	MT2	07/17/90	1.168	0.00	0.00	0.00	0.05
6406	66	10T	MT2	06/28/90	1.072	0.00	0.84	0.00	0.32
6406	66	10S	MT2	07/17/90	1.212	0.00	0.29	0.00	1.27
6407	66	10T	MT2	07/03/90	1.179	0.00	0.52	0.00	0.00
6408	66	10T	MT2	07/03/90	1.179	0.00	0.32	0.00	0.00
6409	66	102	MT2	07/03/90	1.179	0.00	15.60	0.00	6.52
6410	66	102	MT2	07/03/90	1.179	0.00	0.54	0.00	0.00
6412	66	103	MT2	07/03/90	1.222	0.00	26.20	0.00	0.30
6413	66	103	MT2	07/03/90	1.222	0.00	49.00	0.00	6.71
6414	66	104	MT2	07/03/90	1.204	0.00	0.48	0.00	0.00
6415	66	104	MT2	07/03/90	1.204	0.00	4.95	0.00	1.85
6416	66	105	MT2	07/03/90	1.170	0.00	100.00	0.00	0.02
6417	66	105	MT2	07/03/90	1.170	0.00	100.00	0.00	3.50
6418	66	106	MT2	07/03/90	1.233	0.00	1.60	0.00	0.00
6419	66	106	MT2	07/03/90	1.233	0.00	5.15	0.00	1.36
6420	66	107	MT2	07/03/90	1.205	0.00	100.00	0.00	0.00
6421	66	107	MT2	07/03/90	1.205	0.00	2.80	0.00	0.00
6422	66	108	MT2	07/03/90	1.212	0.00	100.00	0.00	5.80
6423	66	108	MT2	07/03/90	1.212	0.00	100.00	0.00	1.38
6424	66	109	MT2	07/03/90	1.174	0.00	49.00	0.00	1.71
6425	66	109	MT2	07/03/90	1.174	0.00	5.70	0.00	0.10
6426	66	10A	MT2	07/03/90	1.215	0.00	14.50	0.00	0.07
6427	66	10A	MT2	07/03/90	1.215	0.00	66.00	0.00	0.02
6428	66	10F	MT2	07/03/90	1.104	0.00	54.70	0.00	0.00
6429	66	10X	CEM	07/19/90	0.454	0.00	100.00	0.00	0.00
6429	66	10F	MT2	07/03/90	1.104	0.00	100.00	0.00	3.70
6430	66	10G	MT2	07/03/90	1.030	0.00	5.27	0.00	1.90
6431	66	10G	MT2	07/03/90	1.030	0.00	38.60	0.00	1.96
6432	66	10H	MT2	07/03/90	0.590	0.00	0.32	0.00	0.00
6433	66	10H	MT2	07/03/90	0.590	0.00	4.14	0.00	0.00
6434	66	10I	MT2	07/03/90	0.935	0.00	7.15	0.00	2.52
6435	66	10I	MT2	07/03/90	0.935	0.00	49.00	0.00	2.81
6436	66	10J	MT2	07/03/90	1.073	0.00	4.90	0.00	4.04
6437	66	10J	MT2	07/03/90	1.073	0.00	1.55	0.00	0.20
6438	66	230	CEM	08/16/90	0.697	0.00	100.00	0.00	1.44
6438	66	10K	MT2	07/03/90	1.078	0.00	100.00	0.00	6.81
6439	66	10K	MT2	07/03/90	1.078	0.00	14.60	0.00	2.44
6440	63	10X	MT2	03/28/90	1.265	0.00	0.32	0.00	0.00
6440	63	100	MT2	04/24/90	0.974	0.00	0.05	0.00	0.47
6441	63	10X	MT2	03/28/90	1.265	0.00	100.00	0.00	0.43
6442	63	10E	MT2	03/20/90	1.259	0.00	100.00	0.00	0.52
6443	63	11B	CEM	07/17/90	1.357	0.00	100.00	0.00	10.58
6443	63	10E	MT2	03/20/90	1.289	0.00	100.00	0.00	2.62
6444	63	10F	MT2	03/20/90	1.283	0.00	100.00	0.00	1.45
6445	63	10F	MT2	03/20/90	1.283	0.00	15.50	0.00	1.00
6446	63	110	CEM	07/17/90	1.363	0.00	55.70	0.00	4.92
6446	63	10G	MT2	03/20/90	1.266	0.00	100.00	0.00	1.43
6447	63	10G	MT2	03/20/90	1.266	0.00	100.00	0.00	1.68
6448	63	10M	MT2	03/20/90	1.259	0.00	49.70	0.00	0.44
6449	63	105	CEM	06/12/90	1.178	0.00	100.00	0.00	27.12
6449	63	10M	MT2	03/20/90	1.259	0.00	100.00	0.00	0.23
6450	63	105	CEM	06/12/90	1.178	0.00	69.80	0.00	22.19
6450	63	101	MT2	03/20/90	1.229	0.00	100.00	0.00	0.60
6451	63	101	MT2	03/20/90	1.229	0.00	100.00	0.00	1.40
6452	63	106	CEM	06/12/90	1.571	0.00	100.00	0.00	22.81

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pile Cell # Line	Test Date	Diff-rntl.	IC 50	TC 25	SI	TAI
6452	63	1M8 NT2	03/28/90	1.333	0.00	> 100.00	0.00	> 3.00
6453	63	1M8 NT2	03/28/90	1.333	0.00	3.87	0.00	> 0.77
6454	63	1Q6 CEM	06/12/90	1.571	0.00	> 100.00	0.00	> 19.43
6454	63	1M0 NT2	03/28/90	1.357	0.00	> 100.00	0.00	> 1.70
6455	63	1Q7 CEM	06/12/90	1.186	17.50	> 100.00	5.71	> 38.98
6455	63	1M0 NT2	03/28/90	1.357	0.00	> 100.00	0.00	> 4.00
6455	72	2B6 NT2	09/06/90	1.183	0.00	> 100.00	0.00	> 3.80
6456	63	1Q7 CEM	06/12/90	1.186	0.00	14.20	0.00	> 10.33
6456	63	15P NT2	03/28/90	1.304	0.00	49.00	0.00	> 4.31
6457	63	1Q8 CEM	06/12/90	1.220	77.60	> 100.00	1.29	> 27.78
6457	63	15P NT2	03/28/90	1.304	0.00	> 100.00	0.00	> 3.39
6458	63	1Q8 CEM	06/12/90	1.220	0.00	> 100.00	0.00	> 22.99
6458	63	1M8 NT2	03/28/90	1.135	0.00	> 100.00	0.00	> 5.90
6459	63	1Q9 CEM	06/12/90	1.466	0.00	24.50	0.00	> 12.63
6459	63	1M8 NT2	03/28/90	1.135	0.00	> 100.00	0.00	> 3.21
6460	63	1Q9 CEM	06/12/90	1.466	22.40	62.40	2.79	> 30.24
6460	63	1M8 NT2	03/28/90	1.300	0.00	55.30	0.00	> 1.70
6460	72	2B8 NT2	09/06/90	1.160	0.00	74.50	0.00	> 0.90
6461	63	1M8 NT2	03/28/90	1.300	0.00	49.00	0.00	> 0.90
6462	63	1M1 NT2	04/04/90	1.325	0.00	< 0.32	0.00	> 0.00
6462	63	1M0 NT2	04/24/90	0.974	0.00	0.06	0.00	> 0.10
6463	63	1M1 NT2	04/04/90	1.325	0.00	88.70	0.00	> 0.25
6464	63	1J1 CEM	04/25/90	0.657	0.00	> 100.00	0.00	> 24.30
6464	63	1M1 NT2	04/04/90	1.272	0.00	> 100.00	0.00	> 0.00
6465	63	1J1 CEM	04/25/90	0.657	0.00	38.60	0.00	> 15.27
6465	63	1M1 NT2	04/04/90	1.272	0.00	23.60	0.00	> 0.00
6466	63	1K8 CEM	04/26/90	0.600	< 0.32	51.50	161.06	> 85.47
6466	63	1M8 NT2	04/04/90	1.279	4.99	48.80	9.78	> 35.57
6467	63	1M8 NT2	04/04/90	1.279	0.00	< 0.32	0.00	> 0.00
6467	63	1J1 NT2	04/24/90	1.037	0.00	0.04	0.00	> 0.42
6468	63	1J1 CEM	04/25/90	0.579	0.00	> 100.00	0.00	> 29.62
6468	63	1M1 NT2	04/04/90	1.252	0.00	> 100.00	0.00	> 0.00
6469	63	1J1 CEM	04/25/90	0.579	0.00	22.50	0.00	> 16.16
6469	63	1M1 NT2	04/04/90	1.252	0.00	80.60	0.00	> 0.42
6470	66	1R1 NT2	07/03/90	0.975	0.00	16.30	0.00	> 2.20
6471	66	1R1 NT2	07/03/90	0.975	0.00	1.56	0.00	> 0.00
6472	66	1R8 NT2	07/03/90	0.968	0.00	> 100.00	0.00	> 2.40
6473	66	1R8 NT2	07/03/90	0.968	0.00	16.80	0.00	> 5.08
6474	66	1R8 NT2	07/03/90	1.027	0.00	4.92	0.00	> 1.60
6475	66	1U8 CEM	07/19/90	0.456	0.00	> 100.00	0.00	> 0.95
6475	66	1R8 NT2	07/03/90	1.027	0.00	> 100.00	0.00	> 7.35
6476	66	1R0 NT2	07/03/90	1.095	0.00	7.45	0.00	> 0.20
6477	66	1U1 CEM	07/19/90	0.751	0.00	6.00	0.00	> 9.31
6477	74	3B0 CEM	11/27/90	1.265	0.00	8.87	0.00	> 4.94
6477	66	1R0 NT2	07/03/90	1.095	8.27	7.67	0.93	> 5.52
6477	74	378 NT2	11/27/90	0.911	0.00	6.53	0.00	> 3.57
6478	66	1R4 NT2	07/11/90	1.096	0.00	14.30	0.00	> 0.00
6479	66	1R4 NT2	07/11/90	1.096	0.00	4.92	0.00	> 0.00
6480	66	1R5 NT2	07/11/90	1.051	0.00	72.50	0.00	> 0.00
6481	66	1R5 NT2	07/11/90	1.051	0.00	5.01	0.00	> 0.10
6482	66	238 CEM	08/16/90	0.717	0.00	49.00	0.00	> 1.60
6482	73	261 CEM	09/28/90	0.944	0.00	0.34	0.00	> 0.00
6482	66	1R6 NT2	07/11/90	1.154	17.80	49.00	2.76	> 16.59
6482	73	266 NT2	09/28/90	1.084	0.00	1.14	0.00	> 0.00
6483	66	238 CEM	08/16/90	0.732	0.00	> 100.00	0.00	> 0.00
6483	66	1R4 NT2	07/11/90	1.154	0.00	> 100.00	0.00	> 2.70
6484	66	1R7 NT2	07/11/90	1.094	0.00	24.90	0.00	> 0.10
6485	66	238 CEM	08/16/90	0.732	0.00	> 100.00	0.00	> 0.00
6485	66	1R7 NT2	07/11/90	1.094	0.00	> 100.00	0.00	> 3.20
6486	66	1R8 NT2	07/11/90	1.177	0.00	19.90	0.00	> 0.10
6487	66	1R8 NT2	07/11/90	1.177	0.00	4.83	0.00	> 0.98
6488	66	1R9 NT2	07/11/90	1.044	0.00	5.20	0.00	> 0.50
6489	66	1R9 NT2	07/11/90	1.044	0.00	< 0.32	0.00	> 0.00
6489	66	229 NT2	08/21/90	1.145	0.00	0.03	0.00	> 0.00
6490	66	1R8 NT2	07/11/90	1.054	0.00	4.92	0.00	> 1.00
6491	66	1R8 NT2	07/11/90	1.054	0.00	15.90	0.00	> 2.40
6492	66	1R8 NT2	07/11/90	1.141	0.00	34.00	0.00	> 0.00
6493	66	1R8 NT2	07/11/90	1.141	0.00	3.70	0.00	> 0.00
6494	66	1R4 NT2	07/11/90	0.960	0.00	1.94	0.00	> 0.00
6495	66	238 CEM	08/16/90	0.717	0.00	47.40	0.00	> 0.06
6495	66	1R4 NT2	07/11/90	0.960	0.00	25.30	0.00	> 5.29
6496	66	1R8 NT2	07/11/90	0.998	0.00	22.80	0.00	> 3.67
6497	66	1R8 NT2	07/11/90	0.998	0.00	3.29	0.00	> 0.10
6498	66	1R2 NT2	07/12/90	1.659	0.00	19.60	0.00	> 0.77
6499	66	1R2 NT2	07/12/90	1.659	0.00	< 0.32	0.00	> 0.00
6500	66	1R0 NT2	07/12/90	1.547	0.00	100.00	0.00	> 3.99
6501	66	1R0 NT2	07/12/90	1.547	0.00	14.00	0.00	> 4.06
6502	66	1R1 NT2	07/12/90	1.594	0.00	> 100.00	0.00	> 0.35

Cumulative Summary (cont'd)

AVE No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-erence	IC 50	TC 25	SI	IAI
6505	16A	18K	HT2	06/06/90	0.892	0.00	> 100.00	0.00	> 11.82
6506	16A	18Q	CEM	07/05/90	1.471	0.00	> 100.00	0.00	> 1.79
6506	16A	18K	HT2	07/06/90	0.892	0.00	> 100.00	0.00	> 15.13
6506	16A	18Q	HT2	07/17/90	1.239	0.00	> 268.00	0.00	> 1.04
6507	66	181	HT2	07/17/90	1.594	0.00	> 100.00	0.00	> 3.54
6508	66	182	HT2	07/12/90	1.395	0.00	> 100.00	0.00	> 0.11
6509	66	182	HT2	07/12/90	1.395	0.00	> 5.47	0.00	> 0.00
6510	16A	18Q	CEM	07/05/90	1.471	14.30	> 100.00	> 6.99	> 23.36
6510	16A	18K	HT2	06/06/90	0.83A	6.38	> 100.00	> 15.67	> 43.37
6510	16A	18Q	HT2	07/17/90	1.239	88.30	> 318.00	> 3.60	> 9.49
6510	72	28M	HT2	09/06/90	1.160	89.70	> 100.00	> 1.11	> 8.46
6511	16A	18R	CEM	07/05/90	1.165	2.55	> 100.00	> 39.14	> 57.01
6511	16A	18K	HT2	06/06/90	0.836	1.73	> 100.00	> 57.93	> 67.34
6511	16A	18M	HT2	07/17/90	1.217	3.12	> 307.00	> 96.34	> 37.03
6511	72	281	HT2	09/06/90	1.160	12.40	> 100.00	> 8.09	> 38.07
6512	16A	18R	CEM	07/05/90	1.166	3.05	> 100.00	> 32.74	> 58.26
6512	16A	18M	HT2	06/06/90	0.958	5.46	> 100.00	> 18.32	> 45.49
6512	16A	18K	HT2	07/17/90	1.217	3.25	> 199.00	> 51.24	> 27.84
6512	72	281	HT2	09/06/90	1.160	12.30	> 100.00	> 6.11	> 40.18
6579	66	18Q	HT2	05/09/90	1.028	0.00	> 49.70	0.00	> 4.14
6707	67	18R	HT2	07/26/90	1.072	0.00	> 4.92	0.00	> 1.00
6708	67	18R	HT2	07/26/90	1.072	0.00	> 27.70	0.00	> 0.30
6709	67	18R	HT2	07/26/90	1.087	0.00	> 6.90	0.00	> 0.60
6710	67	18R	HT2	07/26/90	1.087	0.00	> 100.00	0.00	> 3.21
6711	67	18T	HT2	07/26/90	1.116	0.00	> 54.70	0.00	> 2.00
6712	67	18T	HT2	07/26/90	1.116	0.00	> 100.00	0.00	> 3.30
6713	67	18U	HT2	07/26/90	1.122	0.00	> 23.30	0.00	> 0.00
6714	67	18U	HT2	07/26/90	1.122	0.00	> 100.00	0.00	> 4.80
6715	67	18V	HT2	07/26/90	1.145	0.00	> 100.00	0.00	> 3.20
6716	67	18V	HT2	07/26/90	1.145	0.00	> 0.32	0.00	> 0.00
6716	67	21L	HT2	08/16/90	1.274	0.00	> 0.07	0.00	> 0.12
6717	67	18W	HT2	07/26/90	1.166	0.00	> 0.56	0.00	> 0.00
6719	67	18W	HT2	07/26/90	1.166	0.00	> 1.71	0.00	> 0.20
6719	67	18X	HT2	07/26/90	1.091	0.00	> 1.54	0.00	> 0.00
6720	67	18R	HT2	07/26/90	1.091	0.00	> 100.00	0.00	> 2.40
6721	67	18Y	HT2	07/26/90	1.143	0.00	> 0.32	0.00	> 0.00
6721	67	21M	HT2	08/16/90	1.344	0.00	> 0.06	0.00	> 0.00
6722	67	223	CEM	08/14/90	0.951	0.00	> 100.00	0.00	> 5.22
6722	67	18Y	HT2	07/26/90	1.183	0.00	> 100.00	0.00	> 2.70
6723	67	18Z	HT2	07/26/90	1.184	0.00	> 100.00	0.00	> 3.19
6724	67	220	CEM	08/16/90	0.667	0.00	> 0.79	0.00	> 0.00
6724	67	18Z	HT2	07/26/90	1.184	0.00	> 0.32	0.00	> 0.00
6725	67	180	HT2	07/26/90	1.171	0.00	> 100.00	0.00	> 4.50
6726	67	180	HT2	07/26/90	1.171	0.00	> 51.80	0.00	> 3.46
6726	67	245	HT2	08/21/90	1.196	0.00	> 0.01	0.00	> 2.52
6727	67	18B	HT2	07/26/90	1.286	0.00	> 0.32	0.00	> 0.00
6728	67	18B	HT2	07/26/90	1.286	0.00	> 100.00	0.00	> 0.40
6729	67	189	HT2	07/26/90	1.296	0.00	> 15.60	0.00	> 0.80
6730	67	189	HT2	07/26/90	1.296	0.00	> 100.00	0.00	> 1.30
6731	67	18A	HT2	07/26/90	1.246	0.00	> 100.00	0.00	> 7.10
6732	67	18A	HT2	07/26/90	1.246	0.00	> 100.00	0.00	> 6.11
6732	67	18B	HT2	07/26/90	1.279	0.00	> 7.79	0.00	> 1.30
6733	67	18B	HT2	07/26/90	1.279	0.00	> 100.00	0.00	> 14.10
6734	67	18C	HT2	07/26/90	1.251	0.00	> 0.32	0.00	> 0.00
6735	67	18C	HT2	07/26/90	1.251	0.00	> 1.46	0.00	> 0.94
6736	67	18D	HT2	07/26/90	1.280	0.00	> 0.32	0.00	> 0.00
6736	67	245	HT2	08/21/90	1.196	0.00	> 0.00	0.00	> 1.36
6737	67	18D	HT2	07/26/90	1.280	0.00	> 0.32	0.00	> 0.00
6737	67	246	HT2	08/21/90	1.200	0.00	> 0.01	0.00	> 0.30
6738	67	18E	HT2	07/26/90	1.283	0.00	> 0.51	0.00	> 0.00
6739	67	18E	HT2	07/26/90	1.283	0.00	> 0.32	0.00	> 0.00
6739	67	246	HT2	08/21/90	1.200	0.00	> 0.00	0.00	> 0.40
6760	67	18F	HT2	07/26/90	1.183	0.00	> 0.32	0.00	> 0.00
6760	67	247	HT2	08/21/90	1.218	0.00	> 0.32	0.00	> 1.40
6761	67	18F	HT2	07/26/90	1.183	0.00	> 0.32	0.00	> 0.00
6761	67	247	HT2	08/21/90	1.218	0.00	> 0.03	0.00	> 1.30
6762	67	18H	HT2	07/26/90	1.258	0.00	> 0.50	0.00	> 0.00
6762	67	248	HT2	08/21/90	0.979	0.00	> 0.36	0.00	> 1.62
6763	67	18H	HT2	07/26/90	1.268	0.00	> 0.32	0.00	> 0.00
6763	67	248	HT2	08/21/90	0.979	0.00	> 0.00	0.00	> 0.60
6764	67	18I	HT2	07/26/90	1.330	0.00	> 0.32	0.00	> 0.00
6764	67	249	HT2	08/21/90	1.201	0.00	> 0.35	0.00	> 1.45
6765	67	18I	HT2	07/26/90	1.330	0.00	> 0.32	0.00	> 0.00
6765	67	249	HT2	08/21/90	1.251	0.00	> 0.00	0.00	> 0.10
6766	67	18J	HT2	07/31/90	1.286	0.00	> 100.00	0.00	> 4.80
6767	67	18J	HT2	07/31/90	1.286	0.00	> 1.68	0.00	> 0.30
6768	67	18J	HT2	07/26/90	1.234	0.00	> 1.60	0.00	> 0.00
6769	67	18J	HT2	07/26/90	1.234	0.00	> 0.51	0.00	> 0.00

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit Cell # Line	Test Date	Diff- mtl.	TC 50	TC 25	SI	TAI
6769	67	228	NT2	08/21/90	1.184	0.00	0.36	0.00 > 0.60
6770	67	1V8	HT2	07/26/90	1.288	0.00 <	0.32	0.00 0.00
6771	67	1VX	HT2	07/26/90	1.268	0.00 <	0.32	0.00 0.00
6772	67	1VY	HT2	07/31/90	1.277	0.00 <	0.32	0.00 0.00
6772	67	21H	HT2	08/16/90	1.344	0.00	0.31	0.00 0.00
6773	67	1VY	HT2	07/31/90	1.277	0.00 <	0.32	0.00 0.00
6773	67	21H	HT2	08/16/90	1.250	0.00	0.03	0.00 0.00
6774	67	1VZ	HT2	07/31/90	1.315	0.00 <	0.32	0.00 0.00
6774	67	21H	HT2	08/16/90	1.250	0.00	0.04	0.00 0.00
6777	18A	1V8	CEM	07/24/90	0.839	32.70 >	100.00 >	3.06 > 24.53
6777	73	2G1	CEM	09/28/90	0.964	11.50	2.65	0.23 > 23.43
6777	18A	10M	HT2	05/24/90	1.195	0.00 >	100.00	0.00 > 8.78
6777	73	2G6	HT2	09/28/90	1.084	7.65 >	100.00 >	13.08 > 39.18
6777	73	2UM	HT2	10/26/90	0.877	690.00 >	1000.0 >	1.45 > 16.46
6778	18A	1VY	CEM	07/24/90	0.760	0.00 >	100.00	0.00 > 5.33
6778	18A	10M	HT2	05/24/90	1.195	0.00 >	100.00	0.00 > 4.79
6779	18A	1VY	CEM	07/24/90	0.760	0.00 >	100.00	0.00 > 0.00
6779	18A	100	HT2	05/24/90	1.128	0.00 >	100.00	0.00 > 2.99
6780	18A	250	CEM	08/21/90	0.744	0.00 >	100.00	0.00 > 1.00
6780	18A	100	HT2	05/24/90	1.128	0.00 >	100.00	0.00 > 3.80
6781	67	1VZ	HT2	07/31/90	1.315	0.00	5.11	0.00 > 2.53
6782	67	1W0	HT2	07/31/90	1.346	0.00	4.93	0.00 > 2.31
6783	68	21Z	CEM	08/14/90	1.169	53.70 >	100.00 >	1.86 > 12.53
6783	68	1K3	HT2	08/02/90	1.272	0.00 >	100.00	0.00 > 13.19
6786	67	1W0	HT2	07/31/90	1.346	0.00	62.20	0.00 > 2.83
6787	67	1W1	HT2	07/31/90	1.268	0.00	15.90	0.00 0.40
6788	67	1W1	HT2	07/31/90	1.268	0.00 >	100.00	0.00 0.00
6789	67	1Y8	HT2	07/31/90	1.003	0.00	1.96	0.00 0.00
6790	67	1Y8	HT2	07/31/90	1.003	0.00	2.17	0.00 0.00
6791	67	1YF	HT2	07/31/90	1.050	0.00	2.62	0.00 > 0.10
6792	67	1YF	HT2	07/31/90	1.050	0.00 <	0.32	0.00 0.00
6792	67	229	HT2	08/21/90	1.145	0.00	0.03	0.00 0.00
6793	67	1YG	HT2	07/31/90	1.056	0.00	66.70	0.00 0.07
6794	68	21Z	CEM	08/14/90	1.169	0.00 >	100.00	0.00 > 0.27
6794	68	1X4	HT2	08/02/90	1.245	0.00 >	100.00	0.00 > 2.30
6795	68	1X4	HT2	08/02/90	1.245	0.00	44.00	0.00 > 1.21
6796	68	1X5	HT2	08/02/90	1.059	0.00	49.00	0.00 0.84
6797	68	220	CEM	08/14/90	1.091	0.00 >	100.00	0.00 0.00
6797	68	1X5	HT2	08/02/90	1.059	0.00 >	100.00	0.00 > 2.90
6798	68	220	CEM	08/14/90	1.091	0.00 >	100.00	0.00 > 0.28
6798	68	1X6	HT2	08/02/90	1.301	0.00 >	100.00	0.00 > 2.40
6799	68	221	CEM	08/14/90	1.072	0.00 >	100.00	0.00 0.00
6799	68	1X6	HT2	08/02/90	1.301	0.00 >	100.00	0.00 > 3.30
6800	68	1X8	HT2	08/07/90	1.129	0.00	55.30	0.00 1.00
6801	68	1X8	HT2	08/07/90	1.129	0.00 >	100.00	0.00 > 1.50
6802	68	1X7	HT2	08/07/90	1.123	0.00 >	100.00	0.00 > 0.30
6803	68	221	CEM	08/14/90	1.072	0.00 >	100.00	0.00 > 1.27
6803	68	1X7	HT2	08/07/90	1.123	0.00 >	100.00	0.00 > 2.75
6804	68	1X0	HT2	08/07/90	1.123	0.00 >	100.00	0.00 > 2.40
6805	69	125	HT2	08/09/90	1.136	0.00 >	100.00	0.00 > 4.39
6806	68	1X0	HT2	08/07/90	1.123	0.00	6.03	0.00 > 0.90
6807	68	1XV	HT2	08/07/90	1.068	0.00	15.50	0.00 > 2.67
6808	68	1XV	HT2	08/07/90	1.068	0.00 >	100.00	0.00 > 2.10
6809	68	227	HT2	08/21/90	1.131	0.00	29.00	0.00 0.00
6810	68	228	HT2	08/21/90	1.184	0.00 >	100.00	0.00 > 1.72
6811	68	1XX	HT2	08/07/90	1.081	0.00	5.92	0.00 > 0.20
6812	68	1XX	HT2	08/07/90	1.081	0.00 >	100.00	0.00 > 3.80
6813	68	12X	HT2	08/07/90	1.201	0.00 >	100.00	0.00 > 6.10
6814	68	12X	HT2	08/07/90	1.201	0.00 >	100.00	0.00 > 1.50
6815	68	12L	HT2	08/07/90	1.201	0.00 >	100.00	0.00 > 4.00
6816	68	12L	HT2	08/07/90	1.201	0.00	50.50	0.00 > 6.73
6817	68	12H	HT2	08/07/90	1.209	0.00 >	100.00	0.00 > 1.40
6818	68	12H	HT2	08/07/90	1.209	84.50 >	100.00 >	1.18 > 12.77
6872	69	126	HT2	08/09/90	1.068	0.00	49.00	0.00 > 1.30
6873	69	126	HT2	08/09/90	1.068	0.00 >	100.00	0.00 > 2.30
6874	69	127	HT2	08/09/90	1.194	0.00 >	100.00	0.00 > 3.08
6875	69	127	HT2	08/09/90	1.194	0.00	55.50	0.00 > 1.62
6876	69	128	HT2	08/09/90	1.152	0.00 >	100.00	0.00 > 3.50
6878	69	128	HT2	08/09/90	1.152	0.00 >	100.00	0.00 > 4.89
6880	69	129	HT2	08/09/90	1.066	0.00 >	100.00	0.00 > 0.90
6881	69	129	HT2	08/09/90	1.066	0.00	24.10	0.00 > 0.30
6882	69	12A	HT2	08/09/90	1.198	0.00	4.90	0.00 > 1.11
6883	69	12B	HT2	08/09/90	1.272	0.00	15.60	0.00 > 2.43
6884	69	12B	HT2	08/09/90	1.272	0.00 >	100.00	0.00 > 1.50
6885	69	12E	HT2	08/09/90	1.282	0.00 >	100.00	0.00 > 2.70
6886	69	12E	HT2	08/09/90	1.282	0.00	49.00	0.00 > 1.20
6887	69	12F	HT2	08/09/90	1.181	0.00	18.90	0.00 > 2.05
6888	69	12F	HT2	08/09/90	1.181	0.00 >	100.00	0.00 > 3.50

Cumulative Summary (cont'd)

AV8 No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- milit.	IC 50	IC 25	SI	TAI
6899	69	126	MT2	08/09/90	1.183	0.00	> 100.00	0.00	> 2.10
6899	69	126	MT2	08/09/90	1.183	0.00	18.00	0.00	0.82
6891	69	12M	MT2	08/09/90	1.251	0.00	49.00	0.00	> 2.11
6892	69	12M	MT2	08/09/90	1.251	0.00	> 100.00	0.00	> 0.95
6893	69	121	MT2	08/09/90	1.274	0.00	> 100.00	0.00	> 1.10
6894	69	121	MT2	08/09/90	1.274	0.00	> 100.00	0.00	0.60
6895	69	22C	MT2	08/14/90	1.294	0.00	> 100.00	0.00	> 1.90
6896	69	22C	MT2	08/14/90	1.294	0.00	4.90	0.00	0.70
6897	69	22D	MT2	08/14/90	1.292	0.00	0.50	0.00	0.00
6898	69	22D	MT2	08/14/90	1.292	0.00	> 100.00	0.00	0.00
6899	69	22E	MT2	08/14/90	1.227	0.00	> 100.00	0.00	> 0.30
5900	69	22E	MT2	08/14/90	1.227	0.00	4.90	0.00	0.60
6901	69	22F	MT2	08/14/90	1.276	0.00	> 100.00	0.00	> 0.40
6902	69	22F	MT2	08/14/90	1.276	0.00	4.90	0.00	0.30
6903	69	22G	MT2	08/14/90	1.230	0.00	> 100.00	0.00	> 3.50
6904	69	22G	MT2	08/14/90	1.230	0.00	23.10	0.00	0.70
6905	69	22H	MT2	08/14/90	1.236	0.00	> 100.00	0.00	> 5.39
6906	69	22H	MT2	08/14/90	1.236	0.00	15.60	0.00	3.31
6907	69	22I	MT2	08/14/90	1.232	0.00	> 100.00	0.00	> 0.50
6908	69	22I	MT2	08/14/90	1.232	0.00	> 100.00	0.00	> 1.20
6909	69	22J	MT2	08/14/90	1.298	0.00	< 0.32	0.00	0.00
6910	69	22J	MT2	08/14/90	1.298	0.00	8.51	0.00	0.40
6911	69	22K	MT2	08/14/90	1.234	0.00	> 100.00	0.00	> 1.30
6912	69	22K	MT2	08/14/90	1.234	0.00	24.50	0.00	1.22
6913	69	22L	MT2	08/14/90	1.184	0.00	51.10	0.00	> 2.85
6914	69	22L	MT2	08/14/90	1.184	0.00	16.40	0.00	0.40
6915	69	211	MT2	08/14/90	1.342	0.00	> 100.00	0.00	> 2.50
6916	69	211	MT2	08/14/90	1.342	0.00	22.80	0.00	0.70
6917	69	212	MT2	08/14/90	1.337	0.00	> 100.00	0.00	> 1.99
6918	69	212	MT2	08/14/90	1.337	0.00	> 100.00	0.00	> 2.90
6919	69	213	MT2	08/14/90	1.300	0.00	> 100.00	0.00	0.00
6920	69	213	MT2	08/14/90	1.300	0.00	> 100.00	0.00	> 1.90
6921	69	214	MT2	08/14/90	1.333	0.00	> 100.00	0.00	> 1.60
6922	69	214	MT2	08/14/90	1.333	0.00	> 100.00	0.00	1.60
6923	69	215	MT2	08/14/90	1.321	0.00	> 100.00	0.00	> 7.90
6924	69	215	MT2	08/14/90	1.321	0.00	> 100.00	0.00	0.35
6925	69	217	MT2	08/15/90	1.342	0.00	> 100.00	0.00	> 4.30
6926	69	217	MT2	08/15/90	1.342	0.00	> 100.00	0.00	> 3.00
6927	69	218	MT2	08/15/90	1.442	0.00	2.67	0.00	2.01
6928	69	218	MT2	08/15/90	1.442	0.00	4.92	0.00	1.63
6929	69	219	MT2	08/15/90	1.370	0.00	50.10	0.00	1.70
6930	69	219	MT2	08/15/90	1.370	0.00	> 100.00	0.00	6.40
6931	69	21A	MT2	08/15/90	1.381	0.00	4.41	0.00	1.82
6932	69	21A	MT2	08/15/90	1.381	0.00	22.80	0.00	4.08
6933	69	21B	MT2	08/15/90	1.370	0.00	< 0.32	0.00	0.00
6934	69	21B	MT2	08/15/90	1.370	0.00	> 100.00	0.00	2.50
6935	69	21C	MT2	08/15/90	1.406	0.00	18.70	0.00	1.62
6936	69	21C	MT2	08/15/90	1.406	0.00	62.90	0.00	2.83
6937	69	21D	MT2	08/15/90	1.357	0.00	> 100.00	0.00	> 3.19
6938	69	21D	MT2	08/15/90	1.357	0.00	60.80	0.00	5.44
6939	69	21E	MT2	08/15/90	1.362	0.00	58.90	0.00	0.92
6940	69	21E	MT2	08/15/90	1.362	0.00	> 100.00	0.00	2.30
6941	69	21F	MT2	08/15/90	1.338	0.00	> 100.00	0.00	0.66
6942	74	38D	CEM	11/27/90	1.143	36.80	> 100.00	2.72	23.27
6942	74	21F	MT2	08/15/90	1.338	45.70	> 100.00	2.19	18.85
6942	74	37T	MT2	11/27/90	0.895	0.00	> 100.00	0.00	15.89
6943	74	38D	CEM	11/27/90	1.143	3.75	> 100.00	26.63	55.21
6943	69	21G	MT2	08/15/90	1.322	2.59	31.00	11.95	41.27
6944	69	21G	MT2	08/15/90	1.322	12.60	> 100.00	7.96	33.08
6945	74	38E	CEM	11/27/90	1.197	9.18	75.30	7.98	30.17
6945	69	20D	MT2	08/15/90	1.341	18.30	52.70	2.89	17.94
6945	74	37U	MT2	11/27/90	0.887	14.30	> 100.00	7.01	41.81
6946	74	38E	CEM	11/27/90	1.197	90.80	> 100.00	1.10	8.85
6946	69	20R	MT2	08/15/90	1.275	54.10	> 100.00	1.85	13.32
6946	74	37U	MT2	11/27/90	0.887	31.10	0.15	0.00	14.50
6947	74	38F	CEM	11/27/90	1.236	3.21	> 100.00	31.11	57.18
6947	69	20R	MT2	08/15/90	1.275	33.40	> 100.00	2.99	21.00
6947	74	37V	MT2	11/27/90	0.867	12.70	> 100.00	8.11	52.59
6948	69	20S	MT2	08/15/90	1.324	0.00	> 100.00	0.00	0.00
6949	68	12M	MT2	08/07/90	1.206	0.00	> 100.00	0.00	> 3.10
6949	68	12M	MT2	08/07/90	1.206	0.00	> 100.00	0.00	2.30
6951	68	12D	MT2	08/07/90	1.295	0.00	52.00	0.00	2.72
6952	68	12D	MT2	08/07/90	1.295	0.00	11.40	0.00	6.51
6953	68	12P	MT2	08/07/90	1.234	0.00	57.80	0.00	6.44
6954	68	12P	MT2	08/07/90	1.234	0.00	> 100.00	0.00	7.40
6955	68	12Q	MT2	08/07/90	1.185	0.00	61.30	0.00	5.92
6956	68	12Q	MT2	08/07/90	1.185	0.00	> 100.00	0.00	5.00
6957	68	12R	MT2	08/07/90	1.240	0.00	15.90	0.00	1.80

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt Cell # Line	Test Date	Diff-mtl.	IC 50	TC 25	SI	TAI
6958	68	1Z8 MT2	08/07/90	1.240	0.00	> 100.00	0.00	> 3.89
6959	68	1X2 MT2	08/07/90	1.283	0.00	> 100.00	0.00	> 1.78
6960	68	1X2 MT2	08/07/90	1.283	0.00	> 100.00	0.00	> 0.31
6961	68	1Y0 MT2	08/07/90	1.217	0.00	> 100.00	0.00	> 6.98
6962	68	1Y0 MT2	08/07/90	1.217	0.00	> 100.00	0.00	> 1.90
6963	68	1Y1 MT2	08/07/90	1.254	0.00	> 100.00	0.00	> 1.60
6964	68	1Y1 MT2	08/07/90	1.254	0.00	> 100.00	0.00	> 3.10
6965	68	1Y2 MT2	08/07/90	1.247	0.00	> 54.40	0.00	> 1.97
6966	68	1Y2 MT2	08/07/90	1.247	0.00	> 46.00	0.00	> 0.50
6967	68	1Y3 MT2	08/07/90	1.185	0.00	> 100.00	0.00	> 2.70
6968	68	1Y3 MT2	08/07/90	1.185	0.00	> 16.30	0.00	> 2.50
6969	68	1Y1 MT2	08/08/90	1.234	0.00	> 20.20	0.00	> 1.30
6970	68	1Y1 MT2	08/08/90	1.234	0.00	> 100.00	0.00	> 8.29
6971	68	1YJ MT2	08/08/90	1.228	0.00	< 0.32	0.00	> 0.00
6973	68	1YJ MT2	08/08/90	1.228	0.00	> 97.60	0.00	> 3.17
6974	68	1YK MT2	08/08/90	1.233	0.00	> 100.00	0.00	> 3.60
6975	68	1YK MT2	08/08/90	1.233	0.00	> 100.00	0.00	> 7.89
6976	68	1YL MT2	08/08/90	1.257	0.00	> 100.00	0.00	> 4.60
6977	68	1YL MT2	08/08/90	1.257	0.00	> 100.00	0.00	> 2.59
6978	68	1YM MT2	08/08/90	1.228	0.00	> 100.00	0.00	> 2.77
6979	68	1YM MT2	08/08/90	1.228	0.00	> 100.00	0.00	> 5.16
6980	68	1YM MT2	08/08/90	1.302	0.00	> 49.70	0.00	> 0.12
6981	68	1YN MT2	08/08/90	1.302	0.00	> 100.00	0.00	> 0.15
6982	68	1Y0 MT2	08/08/90	1.250	0.00	> 100.00	0.00	> 1.00
6983	68	1Y0 MT2	08/08/90	1.250	0.00	> 100.00	0.00	> 4.50
6984	68	1YP MT2	08/08/90	0.648	0.00	> 100.00	0.00	> 30.51
6985	68	21P MT2	08/16/90	1.343	0.00	> 49.30	0.00	> 1.06
6986	68	21P MT2	08/16/90	1.343	0.00	> 70.60	0.00	> 2.01
6987	68	21Q MT2	08/16/90	1.322	0.00	> 100.00	0.00	> 1.20
6988	68	21Q MT2	08/16/90	1.322	0.00	> 100.00	0.00	> 2.39
6989	68	21R MT2	08/16/90	1.343	0.00	> 18.50	0.00	> 0.60
6990	68	21R MT2	08/16/90	1.343	0.00	> 100.00	0.00	> 0.90
6991	68	21S MT2	08/16/90	1.326	0.00	> 15.60	0.00	> 0.30
6992	68	21S MT2	08/16/90	1.326	0.00	> 100.00	0.00	> 0.95
6993	68	21T MT2	08/16/90	1.323	0.00	> 100.00	0.00	> 0.33
6994	68	21T MT2	08/16/90	1.323	0.00	> 100.00	0.00	> 0.70
6995	68	21U MT2	08/16/90	1.347	0.00	> 100.00	0.00	> 0.74
6996	68	21U MT2	08/16/90	1.347	0.00	> 47.70	0.00	> 0.00
6997	68	21V MT2	08/16/90	1.314	0.00	> 1.97	0.00	> 0.10
6998	68	21Y MT2	08/16/90	1.314	0.00	> 0.90	0.00	> 0.00
6999	68	21W MT2	08/16/90	1.346	0.00	> 0.80	0.00	> 0.00
7000	68	21W MT2	08/16/90	1.346	0.00	> 1.06	0.00	> 0.00
7001	69	208 MT2	08/15/90	1.324	0.00	> 100.00	0.00	> 0.70
7002	69	20T MT2	08/15/90	1.327	0.00	> 100.00	0.00	> 3.89
7003	69	20 MT2	08/15/90	1.327	0.00	> 100.00	0.00	> 3.60
7004	69	20J MT2	08/15/90	1.311	0.00	> 66.00	0.00	> 3.33
7005	69	20L MT2	08/15/90	1.311	0.00	> 100.00	0.00	> 4.30
7006	69	20V MT2	08/15/90	1.277	0.00	> 100.00	0.00	> 2.42
7007	69	20V MT2	08/15/90	1.277	0.00	> 100.00	0.00	> 2.40
7008	69	20W MT2	08/15/90	1.307	0.00	> 100.00	0.00	> 1.92
7009	69	20W MT2	08/15/90	1.307	0.00	> 67.80	0.00	> 0.00
7010	69	20X MT2	08/15/90	1.354	0.00	> 100.00	0.00	> 0.00
7011	69	20X MT2	08/15/90	1.354	0.00	> 100.00	0.00	> 0.20
7012	69	20Y MT2	08/15/90	1.366	0.00	> 55.90	0.00	> 0.05
7013	69	20Y MT2	08/15/90	1.366	0.00	> 100.00	0.00	> 0.51
7014	69	20Z MT2	08/15/90	1.345	0.00	> 100.00	0.00	> 3.02
7015	69	20Z MT2	08/15/90	1.345	0.00	> 100.00	0.00	> 0.00
7016	69	234 MT2	08/22/90	1.156	0.00	> 100.00	0.00	> 3.30
7017	69	234 MT2	08/22/90	1.156	0.00	> 100.00	0.00	> 4.00
7018	69	235 MT2	08/22/90	1.189	0.00	> 100.00	0.00	> 5.89
7019	69	235 MT2	08/22/90	1.189	0.00	> 100.00	0.00	> 7.18
7020	69	236 MT2	08/22/90	1.207	0.00	> 19.00	0.00	> 0.70
7021	69	236 MT2	08/22/90	1.207	0.00	> 100.00	0.00	> 1.80
7022	69	237 MT2	08/22/90	1.132	0.00	> 25.30	0.00	> 0.00
7023	69	237 MT2	08/22/90	1.132	0.00	> 100.00	0.00	> 0.43
7024	69	238 MT2	08/22/90	1.157	0.00	> 15.60	0.00	> 0.90
7025	69	238 MT2	08/22/90	1.157	0.00	> 100.00	0.00	> 4.98
7026	69	248 MT2	08/22/90	1.094	0.00	> 23.10	0.00	> 1.41
7027	69	248 MT2	08/22/90	1.094	0.00	> 4.90	0.00	> 0.20
7028	69	24C MT2	08/22/90	1.114	0.00	> 5.33	0.00	> 0.91
7029	69	24C MT2	08/22/90	1.114	0.00	> 100.00	0.00	> 6.58
7030	69	240 MT2	08/22/90	1.137	0.00	> 100.00	0.00	> 2.30
7031	69	240 MT2	08/22/90	1.137	0.00	> 52.50	0.00	> 0.80
7032	69	24E MT2	08/22/90	1.147	0.00	> 100.00	0.00	> 2.50
7033	69	24E MT2	08/22/90	1.147	0.00	> 95.00	0.00	> 1.77
7034	69	24F MT2	08/22/90	1.106	0.00	> 100.00	0.00	> 2.96
7035	69	24F MT2	08/22/90	1.106	0.00	> 160.00	0.00	> 7.27
7036	69	24G MT2	08/22/90	1.107	0.00	> 49.00	0.00	> 1.40

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Pit Call #	Call Line	Test Date	Diff- incl.	10 50	70 25	51	TAL
7037	69	246	HT2	08/22/90	1.107	0.00	> 100.00	0.00	> 5.20
7038	69	244	HT2	08/22/90	1.130	0.00	> 100.00	0.00	> 8.38
7039	69	244	HT2	08/22/90	1.130	0.00	> 100.00	0.00	> 3.79
7040	69	224	HT2	08/22/90	1.108	0.00	> 49.00	0.00	> 2.21
7041	69	224	HT2	08/22/90	1.108	0.00	> 100.00	0.00	> 2.20
7042	69	22X	HT2	08/22/90	1.140	0.00	> 100.00	0.00	> 2.10
7043	69	22X	HT2	08/22/90	1.140	0.00	> 100.00	0.00	> 1.50
7044	69	22Y	HT2	08/22/90	1.123	0.00	> 100.00	0.00	> 0.07
7045	69	22Y	HT2	08/22/90	1.123	0.00	> 100.00	0.00	> 1.10
7046	69	22Z	HT2	08/22/90	1.125	0.00	> 100.00	0.00	> 1.80
7047	69	22Z	HT2	08/22/90	1.125	0.00	> 49.00	0.00	> 2.11
7048	69	230	HT2	08/22/90	1.121	0.00	> 100.00	0.00	> 1.60
7049	69	230	HT2	08/22/90	1.121	0.00	> 100.00	0.00	> 0.90
7050	69	231	HT2	08/22/90	1.109	0.00	> 100.00	0.00	> 3.20
7051	72	28J	HT2	09/06/90	1.174	0.00	> 100.00	0.00	> 3.02
7052	72	28J	HT2	09/06/90	1.174	0.00	> 100.00	0.00	> 1.68
7053	72	28K	HT2	09/06/90	1.126	0.00	> 100.00	0.00	> 3.89
7054	72	28K	HT2	09/06/90	1.126	0.00	> 100.00	0.00	> 2.90
7055	72	28L	HT2	09/06/90	1.178	0.00	> 100.00	0.00	> 1.70
7056	72	28L	HT2	09/06/90	1.178	0.00	> 100.00	0.00	> 1.35
7057	72	28M	HT2	09/06/90	1.153	0.00	> 100.00	0.00	> 2.90
7058	72	28M	HT2	09/06/90	1.153	0.00	> 100.00	0.00	> 3.10
7059	72	28M	HT2	09/06/90	1.227	0.00	> 100.00	0.00	> 4.00
7060	72	28M	HT2	09/06/90	1.227	0.00	> 51.50	0.00	> 1.80
7061	72	28O	HT2	09/06/90	1.187	0.00	> 52.20	0.00	> 1.60
7062	72	28O	HT2	09/06/90	1.187	0.00	> 51.80	0.00	> 2.30
7063	72	28P	HT2	09/06/90	1.196	0.00	> 100.00	0.00	> 2.00
7064	72	28P	HT2	09/06/90	1.196	0.00	> 100.00	0.00	> 2.53
7065	72	28Q	HT2	09/06/90	1.284	0.00	> 100.00	0.00	> 0.80
7066	72	28Q	HT2	09/06/90	1.284	0.00	> 100.00	0.00	> 3.89
7067	72	28R	HT2	09/06/90	1.192	0.00	> 100.00	0.00	> 0.35
7068	72	28R	HT2	09/06/90	1.192	0.00	> 49.00	0.00	> 3.16
7069	72	28S	HT2	09/06/90	1.254	0.00	> 52.50	0.00	> 0.32
7070	72	299	HT2	09/12/90	1.132	0.00	> 100.00	0.00	> 0.00
7071	72	299	HT2	09/12/90	1.132	0.00	> 100.00	0.00	> 1.34
7072	72	29A	HT2	09/12/90	1.091	0.00	> 100.00	0.00	> 2.60
7073	72	29A	HT2	09/12/90	1.091	0.00	> 82.50	0.00	> 1.20
7074	72	29B	HT2	09/12/90	1.072	0.00	> 54.10	0.00	> 0.30
7075	72	29B	HT2	09/12/90	1.072	0.00	> 100.00	0.00	> 0.13
7076	72	29C	HT2	09/12/90	1.073	0.00	> 13.00	0.00	> 0.00
7077	72	29C	HT2	09/12/90	1.073	0.00	> 2.67	0.00	> 0.00
7078	72	29D	HT2	09/12/90	1.107	0.00	> 6.41	0.00	> 0.70
7079	72	29D	HT2	09/12/90	1.107	0.00	> 18.20	0.00	> 0.00
7080	72	29E	HT2	09/12/90	1.079	0.00	> 2.04	0.00	> 0.00
7081	72	29E	HT2	09/12/90	1.079	0.00	> 55.90	0.00	> 0.00
7082	72	29F	HT2	09/12/90	0.893	0.00	> 1.92	0.00	> 0.00
7083	72	29F	HT2	09/12/90	0.893	0.00	> 49.50	0.00	> 0.80
7084	72	29G	HT2	09/12/90	1.080	0.00	> 23.80	0.00	> 0.00
7085	72	29G	HT2	09/12/90	1.080	0.00	> 17.10	0.00	> 0.00
7086	72	29H	HT2	09/12/90	1.115	0.00	> 16.50	0.00	> 0.00
7087	72	29H	HT2	09/12/90	1.115	0.00	> 7.45	0.00	> 0.00
7088	72	2A7	HT2	09/12/90	1.112	0.00	> 55.90	0.00	> 0.20
7089	72	2A7	HT2	09/12/90	1.112	0.00	> 100.00	0.00	> 1.70
7090	72	2A8	HT2	09/12/90	1.048	0.00	> 100.00	0.00	> 1.70
7091	72	2A8	HT2	09/12/90	1.048	0.00	> 100.00	0.00	> 0.51
7092	72	2A9	HT2	09/12/90	1.229	0.00	> 100.00	0.00	> 0.02
7093	72	2A9	HT2	09/12/90	1.229	0.00	> 100.00	0.00	> 0.00
7094	72	2AA	HT2	09/12/90	1.077	0.00	> 100.00	0.00	> 1.00
7095	72	2AA	HT2	09/12/90	1.077	0.00	> 100.00	0.00	> 0.00
7096	72	2AB	HT2	09/12/90	1.122	0.00	> 100.00	0.00	> 0.50
7097	72	2AB	HT2	09/12/90	1.122	0.00	> 100.00	0.00	> 1.40
7098	72	2AC	HT2	09/12/90	1.162	0.00	> 100.00	0.00	> 0.00
7099	70	26E	HT2	08/23/90	1.276	0.00	> 100.00	0.00	> 7.99
7100	70	26E	HT2	08/23/90	1.276	0.00	> 100.00	0.00	> 4.60
7101	70	26F	HT2	08/23/90	1.250	0.00	> 26.20	0.00	> 2.12
7102	70	26F	HT2	08/23/90	1.250	0.00	> 100.00	0.00	> 5.10
7103	70	26G	HT2	08/23/90	1.242	0.00	> 100.00	0.00	> 9.30
7104	70	26G	HT2	08/23/90	1.242	0.00	> 100.00	0.00	> 13.49
7105	70	26M	HT2	08/23/90	1.291	0.00	> 100.00	0.00	> 7.96
7106	70	26M	HT2	08/23/90	1.291	0.00	> 100.00	0.00	> 9.70
7107	70	26I	HT2	08/23/90	1.316	0.00	> 100.00	0.00	> 5.89
7108	70	23W	HT2	08/23/90	1.342	0.00	> 100.00	0.00	> 3.90
7109	70	23W	HT2	08/23/90	1.342	0.00	> 100.00	0.00	> 2.80
7110	70	23X	HT2	08/23/90	1.303	0.00	> 100.00	0.00	> 7.77
7111	70	23X	HT2	08/23/90	1.303	0.00	> 100.00	0.00	> 7.58
7112	70	23Y	HT2	08/23/90	1.273	0.00	> 100.00	0.00	> 9.40
7113	70	23Y	HT2	08/23/90	1.273	0.00	> 49.20	0.00	> 5.85
7114	70	23Z	HT2	08/23/90	1.345	0.00	> 100.00	0.00	> 5.70

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- rntl.	IC 50	TC 25	SI	TAI
7115	70	232	MT2	08/23/90	1.325	45.20	> 100.00	> 1.53	> 14.86
7116	70	240	MT2	08/23/90	1.320	0.00	> 100.00	0.00	> 10.59
7117	70	240	MT2	08/23/90	1.320	0.00	> 100.00	0.00	> 2.60
7119	69	231	MT2	08/22/90	1.109	0.00	> 100.00	0.00	> 0.00
7120	69	232	MT2	08/27/90	1.314	0.00	> 6.18	0.00	> 6.60
7121	69	24J	MT2	08/23/90	1.179	0.00	> 17.00	0.00	> 1.62
7122	69	24J	MT2	08/23/90	1.179	0.00	> 100.00	0.00	> 1.30
7123	69	24K	MT2	08/23/90	1.152	0.00	> 100.00	0.00	> 2.50
7124	69	24K	MT2	08/23/90	1.158	0.00	> 100.00	0.00	> 0.90
7125	69	24L	MT2	08/23/90	1.199	0.00	> 100.00	0.00	> 0.49
7126	69	24L	MT2	08/23/90	1.199	0.00	> 25.70	0.00	> 3.51
7127	69	24M	MT2	08/23/90	1.191	0.00	> 5.07	0.00	> 0.54
7128	69	24M	MT2	08/23/90	1.191	0.00	> 5.90	0.00	> 0.11
7129	69	24M	MT2	08/23/90	1.156	0.00	> 4.90	0.00	> 0.00
7130	69	24M	MT2	08/23/90	1.156	0.00	> 5.50	0.00	> 0.20
7131	69	240	MT2	08/23/90	1.181	0.00	> 1.55	0.00	> 1.40
7132	69	240	MT2	08/23/90	1.181	0.00	> 14.80	0.00	> 0.20
7133	69	21J	MT2	08/23/90	1.169	0.00	> 100.00	0.00	> 1.50
7134	69	23G	MT2	08/23/90	1.189	0.00	> 100.00	0.00	> 7.80
7135	69	23G	MT2	08/23/90	1.189	0.00	> 0.65	0.00	> 0.03
7136	69	23H	MT2	08/23/90	1.119	0.00	> 18.60	0.00	> 6.67
7137	69	23H	MT2	08/23/90	1.119	0.00	> 100.00	0.00	> 3.31
7138	69	23I	MT2	08/23/90	1.185	0.00	> 20.80	0.00	> 5.86
7139	69	23I	MT2	08/23/90	1.185	0.00	> 100.00	0.00	> 0.31
7140	69	23J	MT2	08/23/90	1.168	0.00	> 100.00	0.00	> 5.89
7141	69	23J	MT2	08/23/90	1.168	0.00	> 57.40	0.00	> 1.40
7142	69	23K	MT2	08/23/90	1.170	0.00	> 47.70	0.00	> 0.60
7143	69	23K	MT2	08/23/90	1.170	0.00	> 15.50	0.00	> 0.17
7144	69	23L	MT2	08/23/90	1.168	0.00	> 62.40	0.00	> 0.30
7145	69	23L	MT2	08/23/90	1.168	0.00	> 8.87	0.00	> 0.30
7146	69	23M	MT2	08/23/90	1.182	0.00	> 14.70	0.00	> 1.41
7147	69	23M	MT2	08/23/90	1.182	0.00	> 15.00	0.00	> 2.60
7148	69	24P	MT2	08/23/90	1.169	0.00	> 16.20	0.00	> 0.70
7149	69	260	MT2	08/23/90	1.265	0.00	> 52.20	0.00	> 5.80
7150	69	260	MT2	08/23/90	1.265	0.00	> 53.50	0.00	> 0.51
7151	72	24C	MT2	09/12/90	1.162	0.00	> 22.20	0.00	> 0.50
7152	72	240	MT2	09/12/90	1.096	0.00	> 100.00	0.00	> 1.40
7153	72	240	MT2	09/12/90	1.096	0.00	> 15.70	0.00	> 1.30
7154	72	24E	MT2	09/12/90	1.069	0.00	> 17.50	0.00	> 0.00
7155	72	24E	MT2	09/12/90	1.069	0.00	> 100.00	0.00	> 0.42
7156	72	29J	MT2	09/13/90	1.162	0.00	> 4.90	0.00	> 0.50
7157	72	29J	MT2	09/13/90	1.162	0.00	> 1.55	0.00	> 0.00
7158	72	29K	MT2	09/13/90	1.132	0.00	> 7.92	0.00	> 0.00
7159	72	29K	MT2	09/13/90	1.132	0.00	> 100.00	0.00	> 0.09
7160	72	29L	MT2	09/13/90	1.158	0.00	> 49.30	0.00	> 3.22
7161	72	29L	MT2	09/13/90	1.158	0.00	> 30.40	0.00	> 0.40
7162	72	29M	MT2	09/13/90	1.133	0.00	> 75.40	0.00	> 0.00
7163	72	29M	MT2	09/13/90	1.133	0.00	> 49.50	0.00	> 0.00
7164	72	29M	MT2	09/13/90	1.178	0.00	> 4.90	0.00	> 0.10
7165	72	29M	MT2	09/13/90	1.178	0.00	> 100.00	0.00	> 0.05
7166	72	290	MT2	09/13/90	1.148	0.00	> 14.60	0.00	> 0.10
7167	72	290	MT2	09/13/90	1.148	0.00	> 17.10	0.00	> 0.00
7168	72	29P	MT2	09/13/90	1.155	0.00	> 100.00	0.00	> 0.00
7169	72	29P	MT2	09/13/90	1.155	0.00	> 50.50	0.00	> 1.00
7170	72	29Q	MT2	09/13/90	1.146	0.00	> 5.27	0.00	> 0.00
7171	72	29Q	MT2	09/13/90	1.146	0.00	> 54.70	0.00	> 0.05
7172	72	29R	MT2	09/13/90	1.140	0.00	> 100.00	0.00	> 0.00
7173	72	29R	MT2	09/13/90	1.140	0.00	> 8.73	0.00	> 0.11
7174	72	24G	MT2	09/13/90	1.132	0.00	> 100.00	0.00	> 2.60
7175	72	24G	MT2	09/13/90	1.132	0.00	> 5.86	0.00	> 0.00
7176	72	24H	MT2	09/13/90	1.166	0.00	> 37.20	0.00	> 0.00
7177	72	24H	MT2	09/13/90	1.166	0.00	> 15.40	0.00	> 0.00
7178	72	24I	MT2	09/13/90	1.087	0.00	> 28.30	0.00	> 0.00
7179	72	24I	MT2	09/13/90	1.087	0.00	> 100.00	0.00	> 0.00
7180	72	24J	MT2	09/13/90	1.049	0.00	> 0.64	0.00	> 1.64
7181	72	24J	MT2	09/13/90	1.049	0.00	> 0.32	0.00	> 0.00
7182	72	24K	MT2	09/13/90	1.145	0.00	> 8.35	0.00	> 0.00
7183	72	24K	MT2	09/13/90	1.145	0.00	> 100.00	0.00	> 0.00
7184	72	24L	MT2	09/13/90	1.090	0.00	> 100.00	0.00	> 0.00
7185	72	24L	MT2	09/13/90	1.090	0.00	> 100.00	0.00	> 0.00
7186	72	24M	MT2	09/13/90	1.154	0.00	> 100.00	0.00	> 0.00
7187	72	24M	MT2	09/13/90	1.154	0.00	> 100.00	0.00	> 0.00
7188	72	24M	MT2	09/13/90	1.096	0.00	> 18.20	0.00	> 0.00
7189	72	24M	MT2	09/13/90	1.096	0.00	> 46.90	0.00	> 0.00
7190	72	240	MT2	09/13/90	1.117	0.00	> 9.50	0.00	> 0.00
7191	72	240	MT2	09/13/90	1.117	0.00	> 100.00	0.00	> 0.00
7192	72	282	MT2	09/13/90	0.972	0.00	> 6.24	0.00	> 0.60
7193	72	283	MT2	09/13/90	0.996	0.00	> 100.00	0.00	> 0.20

Cumulative Summary (cont'd)

A/S No.	Ship- ment	Pit #	Cell Line	Last Date	Diff- mtl.	IC 50	TC 25	SI	TAI
7194	72	283	MT2	09/13/90	0.996	0.00	49.00	0.00	0.30
7195	72	284	MT2	09/13/90	0.930	0.00	62.40	0.00	0.10
7196	72	284	MT2	09/13/90	0.930	0.00	100.00	0.00	0.40
7197	72	285	MT2	09/13/90	0.793	0.00	49.00	0.00	2.61
7198	72	285	MT2	09/13/90	0.793	0.00	100.00	0.00	0.30
7199	72	286	MT2	09/13/90	1.077	0.00	100.00	0.00	0.50
7200	72	286	MT2	09/13/90	1.077	0.00	100.00	0.00	0.32
7201	72	287	MT2	09/13/90	0.994	0.00	52.70	0.00	0.38
7202	72	287	MT2	09/13/90	0.994	0.00	37.90	0.00	1.20
7203	72	288	MT2	09/13/90	1.053	0.00	67.40	0.00	1.03
7204	72	288	MT2	09/13/90	1.053	0.00	64.70	0.00	0.30
7205	72	289	MT2	09/13/90	1.048	0.00	100.00	0.00	2.10
7206	72	289	MT2	09/13/90	1.048	0.00	15.90	0.00	2.79
7207	72	28A	CEM	09/25/90	0.894	8.47	15.60	1.85	7.97
7207	73	3AP	CEM	12/06/90	0.580	1.65	7.06	4.29	27.15
7207	72	2CE	MT2	09/25/90	1.052	0.00	5.82	0.00	0.40
7207	73	3AS	MT2	12/06/90	0.718	2.14	24.10	11.29	26.94
7208	72	28A	CEM	09/25/90	0.894	2.73	4.78	1.75	11.17
7208	73	3AP	CEM	12/06/90	0.580	0.47	0.20	0.42	37.11
7208	72	2CE	MT2	09/25/90	1.052	0.00	2.45	0.00	3.82
7208	73	3AS	MT2	12/06/90	0.718	0.58	12.20	20.87	50.25
7209	72	28C	CEM	09/25/90	0.935	0.00	5.33	0.00	0.20
7209	72	2CF	MT2	09/25/90	1.046	0.00	4.86	0.00	1.05
7210	72	28C	CEM	09/25/90	0.935	0.00	8.51	0.00	0.00
7210	72	2CF	MT2	09/25/90	1.046	0.00	24.90	0.00	2.89
7211	72	28P	CEM	09/25/90	0.993	0.00	0.32	0.00	0.00
7211	72	2CG	MT2	09/25/90	1.076	0.00	5.47	0.00	4.59
7212	72	28P	CEM	09/25/90	0.993	0.00	18.50	0.00	0.00
7212	72	2CG	MT2	09/25/90	1.076	0.00	17.40	0.00	3.19
7213	72	28Q	CEM	09/25/90	1.060	0.00	8.64	0.00	0.00
7213	72	2CH	MT2	09/25/90	1.011	0.00	30.80	0.00	1.85
7214	72	28Q	CEM	09/25/90	1.060	0.00	4.93	0.00	0.12
7214	72	2CA	MT2	09/25/90	1.011	0.00	1.73	0.00	0.99
7215	72	28A	CEM	09/25/90	0.983	0.00	7.15	0.00	0.00
7215	72	2CI	MT2	09/25/90	0.980	0.00	2.31	0.00	0.99
7216	72	28A	CEM	09/25/90	0.983	0.00	1.00	0.00	0.00
7216	72	2CI	MT2	09/25/90	0.980	0.00	40.20	0.00	1.79
7217	72	28A	CEM	09/25/90	0.998	0.00	21.30	0.00	0.54
7217	72	2CJ	MT2	09/25/90	1.027	0.00	40.10	0.00	4.63
7218	72	28A	CEM	09/25/90	0.998	0.00	100.00	0.00	1.15
7218	72	2CJ	MT2	09/25/90	1.027	0.00	100.00	0.00	1.60
7219	73	28T	CEM	09/25/90	1.166	0.00	16.40	0.00	0.10
7219	73	2CK	MT2	09/25/90	1.001	0.00	17.40	0.00	2.20
7220	73	28T	CEM	09/25/90	1.166	97.30	0.80	0.01	3.24
7220	73	2CK	MT2	09/25/90	1.001	0.00	100.00	0.00	11.29
7221	73	28U	CEM	09/25/90	1.084	0.00	18.30	0.00	0.00
7221	73	2CL	MT2	09/25/90	0.944	0.00	100.00	0.00	4.81
7222	73	28U	CEM	09/25/90	1.084	0.00	16.10	0.00	0.05
7222	73	2CL	MT2	09/25/90	0.944	0.00	18.00	0.00	4.10
7223	73	28V	CEM	09/25/90	1.036	0.00	24.00	0.00	0.01
7223	73	2CM	MT2	09/25/90	0.983	0.00	85.10	0.00	9.72
7224	73	28V	CEM	09/25/90	1.036	0.00	23.40	0.00	1.61
7224	73	2CM	MT2	09/25/90	0.983	0.00	16.80	0.00	4.41
7225	73	28W	CEM	09/25/90	1.053	0.00	2.17	0.00	0.00
7225	73	2CM	MT2	09/25/90	1.018	0.00	1.69	0.00	0.30
7226	73	28W	CEM	09/25/90	1.053	0.00	57.50	0.00	0.60
7226	73	2CM	MT2	09/25/90	1.018	0.00	46.50	0.00	5.67
7227	73	28X	CEM	09/25/90	1.102	0.00	109.00	0.00	3.73
7227	73	2CO	MT2	09/25/90	1.001	0.00	100.00	0.00	12.69
7228	73	28Y	CEM	09/25/90	1.102	0.00	100.00	0.00	0.15
7228	73	2CO	MT2	09/25/90	1.001	0.00	100.00	0.00	12.81
7229	73	28Y	CEM	09/25/90	0.909	0.00	47.10	0.00	0.13
7229	73	2CP	MT2	09/25/90	1.046	0.00	56.30	0.00	3.20
7230	73	28Y	CEM	09/25/90	0.909	0.00	10.80	0.00	0.00
7230	73	2CP	MT2	09/25/90	1.046	0.00	26.20	0.00	3.24
7231	73	28Z	CEM	09/25/90	1.036	0.00	3.77	0.00	0.00
7231	73	2CG	MT2	09/25/90	1.051	0.00	2.90	0.00	0.83
7232	73	28Z	CEM	09/25/90	1.036	0.00	100.00	0.00	5.79
7232	73	2CG	MT2	09/25/90	1.051	0.00	16.60	0.00	4.95
7233	73	28C	CEM	09/25/90	1.110	0.00	22.70	0.00	0.60
7233	73	2CG	MT2	09/25/90	0.960	0.00	34.60	0.00	1.94
7234	73	28C	CEM	09/25/90	1.110	0.00	6.38	0.00	0.90
7234	73	2CG	MT2	09/25/90	0.960	0.00	4.64	0.00	0.10
7235	73	2CI	CEM	09/25/90	1.015	0.00	2.61	0.00	0.00
7235	73	2CS	MT2	09/25/90	1.177	0.00	1.30	0.00	0.64
7236	73	2CI	CEM	09/25/90	1.015	0.00	100.00	0.00	0.90
7236	72	2CS	MT2	09/25/90	1.177	0.00	20.00	0.00	4.80
7237	73	2C2	CEM	09/25/90	0.971	0.00	14.30	0.00	0.30

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
7237	73	2CT	MT2	09/25/90	1.058	0.00	17.30	0.00	> 1.30
7238	73	2C2	CEM	09/25/90	0.971	0.00	9.50	0.00	> 0.00
7238	73	2CT	MT2	09/25/90	1.058	0.00	5.78	0.00	> 0.50
7239	73	2C3	CEM	09/25/90	1.008	0.00	47.10	0.00	> 0.01
7239	73	2CU	MT2	09/25/90	1.104	0.00	27.70	0.00	> 3.96
7240	73	2C3	CEM	09/25/90	1.000	0.00	21.00	0.00	> 5.21
7240	73	2CU	MT2	09/25/90	1.104	0.00	16.00	0.00	> 4.39
7241	73	2C4	CEM	09/25/90	1.025	82.00	0.93	0.01	> 5.06
7241	73	2CX	CEM	11/20/90	0.896	56.60	490.00	8.66	> 24.87
7241	73	2CV	MT2	09/25/90	1.027	0.00	46.30	0.00	> 7.81
7242	73	2C4	CEM	09/25/90	1.025	0.00	12.60	0.00	> 0.13
7242	73	2CV	MT2	09/25/90	1.027	0.00	12.30	0.00	> 2.70
7243	73	2C5	CEM	09/25/90	0.926	0.00	11.10	0.00	> 5.61
7243	73	2CW	MT2	09/25/90	1.046	0.00	5.50	0.00	> 2.99
7244	73	2E1	CEM	09/27/90	0.932	0.00	11.40	0.00	> 5.83
7244	73	2ED	MT2	09/27/90	1.040	0.00	6.18	0.00	> 3.18
7245	73	2E1	CEM	09/27/90	0.932	0.00	100.00	0.00	> 4.62
7245	73	2ED	MT2	09/27/90	1.060	0.00	100.00	0.00	> 2.24
7246	73	2E2	CEM	09/27/90	0.892	0.00	100.00	0.00	> 11.60
7246	73	2E2	MT2	09/27/90	1.041	0.00	100.00	0.00	> 4.60
7247	73	2E2	CEM	09/27/90	0.892	0.00	7.63	0.00	> 2.11
7247	73	2E2	MT2	09/27/90	1.041	0.00	13.60	0.00	> 0.80
7248	73	2F0	CEM	09/27/90	0.905	0.00	34.60	0.00	> 1.88
7248	73	2E1	MT2	09/27/90	0.932	0.00	49.00	0.00	> 3.92
7249	73	2F0	CEM	09/27/90	0.905	0.00	100.00	0.00	> 0.24
7249	73	2E1	MT2	09/27/90	0.932	0.00	100.00	0.00	> 2.17
7250	73	2F1	CEM	09/27/90	0.820	0.00	53.20	0.00	> 9.30
7250	73	2E2	MT2	09/27/90	1.062	0.00	51.50	0.00	> 6.97
7251	73	2F1	CEM	09/27/90	0.820	0.00	100.00	0.00	> 1.61
7251	73	2E2	MT2	09/27/90	1.062	0.00	100.00	0.00	> 1.79
7252	73	2F2	CEM	09/27/90	0.857	0.00	7.96	0.00	> 0.65
7252	73	2E1	MT2	09/27/90	0.882	0.00	6.08	0.00	> 0.00
7253	73	2F2	CEM	09/27/90	0.857	0.00	12.50	0.00	> 0.00
7253	73	2E1	MT2	09/27/90	0.882	0.00	15.60	0.00	> 0.89
7254	73	2F3	CEM	09/27/90	1.015	0.00	5.22	0.00	> 5.28
7254	73	2E1	MT2	09/27/90	0.918	0.00	5.44	0.00	> 0.00
7255	73	2F3	CEM	09/27/90	1.015	0.00	14.70	0.00	> 2.17
7255	73	2E1	MT2	09/27/90	0.918	0.00	25.30	0.00	> 0.00
7256	73	2F4	CEM	09/27/90	0.864	0.00	5.90	0.00	> 5.35
7256	73	2E1	MT2	09/27/90	1.043	0.00	5.70	0.00	> 3.67
7257	73	2F4	CEM	09/27/90	0.864	0.00	4.17	0.00	> 0.89
7257	73	2E1	MT2	09/27/90	1.043	0.00	3.20	0.00	> 2.27
7258	73	2F5	CEM	09/27/90	0.795	0.00	5.07	0.00	> 6.25
7258	73	2E1	MT2	09/27/90	1.063	0.00	4.92	0.00	> 3.91
7259	73	2F5	CEM	09/27/90	0.795	0.00	48.30	0.00	> 7.00
7259	73	2E1	MT2	09/27/90	1.063	0.00	63.50	0.00	> 4.53
7260	73	2F6	CEM	09/27/90	0.822	0.00	13.90	0.00	> 0.00
7260	73	2E1	MT2	09/27/90	1.047	0.00	15.60	0.00	> 5.53
7261	73	2F6	CEM	09/27/90	0.822	0.00	3.20	0.00	> 0.25
7261	73	2E1	MT2	09/27/90	1.047	0.00	5.38	0.00	> 1.89
7262	73	2F7	CEM	09/27/90	0.875	0.00	5.70	0.00	> 1.29
7262	73	2E1	MT2	09/27/90	1.094	0.00	5.82	0.00	> 2.39
7263	73	2F7	CEM	09/27/90	0.875	0.00	12.00	0.00	> 0.30
7263	73	2E1	MT2	09/27/90	1.094	0.00	15.50	0.00	> 3.84
7264	73	2F8	CEM	09/27/90	0.920	0.00	7.04	0.00	> 0.00
7264	73	2E1	MT2	09/27/90	1.084	0.00	7.25	0.00	> 0.80
7265	73	2F8	CEM	09/27/90	0.920	0.00	43.20	0.00	> 1.70
7265	73	2E1	MT2	09/27/90	1.084	0.00	29.60	0.00	> 0.58
7266	73	2F9	CEM	09/27/90	0.654	0.00	23.80	0.00	> 0.51
7266	73	2E0	MT2	09/27/90	1.046	0.00	14.60	0.00	> 3.27
7267	73	2F9	CEM	09/27/90	0.659	0.00	5.56	0.00	> 8.70
7267	73	2E0	MT2	09/27/90	1.046	0.00	5.33	0.00	> 2.89
7268	73	2FA	CEM	09/27/90	0.710	0.00	5.21	0.00	> 0.00
7268	73	2E1	MT2	09/27/90	1.119	0.00	3.72	0.00	> 0.44
7269	73	2DA	CEM	09/26/90	0.573	0.00	5.92	0.00	> 0.00
7269	73	2D5	MT2	09/26/90	0.783	0.00	2.87	0.00	> 0.09
7270	73	2DA	CEM	09/26/90	0.575	0.00	53.40	0.00	> 1.00
7270	73	2D5	MT2	09/26/90	0.783	0.00	60.00	0.00	> 1.32
7271	73	2DA	CEM	09/26/90	0.515	0.00	9.27	0.00	> 0.74
7271	73	2D6	MT2	09/26/90	0.699	0.00	3.74	0.00	> 0.97
7272	73	2DA	CEM	09/26/90	0.515	0.00	15.80	0.00	> 0.24
7272	73	2D6	MT2	09/26/90	0.699	0.00	5.12	0.00	> 0.40
7273	73	2D1	CEM	09/26/90	0.704	0.00	78.10	0.00	> 6.43
7273	73	2D7	MT2	09/26/90	0.715	0.00	55.40	0.00	> 2.12
7274	73	2D1	CEM	09/26/90	0.704	0.00	18.20	0.00	> 0.67
7274	73	2D7	MT2	09/26/90	0.715	0.00	10.30	0.00	> 2.07
7275	73	2DU	CEM	09/26/90	0.748	0.00	4.59	0.00	> 0.49
7275	73	2D8	MT2	09/26/90	0.712	0.00	1.33	0.00	> 0.00

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit Cell # Line	Test Date	Diff-ntial	IC 50	IC 25	SI	TAI
7276	73	20U CEM	09/26/90	0.748	0.00	95.50	0.00	0.00
7276	73	20B HT2	09/26/90	0.712	0.00	26.50	0.00	1.19
7277	73	20V CEM	09/26/90	0.603	0.00	6.35	0.00	2.55
7277	73	209 HT2	09/26/90	0.739	0.00	5.40	0.00	1.63
7278	73	20V CEM	09/26/90	0.603	0.00	0.32	0.00	0.00
7278	73	209 HT2	09/26/90	0.739	0.00	2.85	0.00	0.00
7279	73	20W CEM	09/26/90	0.593	0.00	20.30	0.00	0.14
7279	73	20A HT2	09/26/90	0.835	0.00	5.98	0.00	0.85
7280	73	20W CEM	09/26/90	0.593	0.00	17.30	0.00	8.98
7280	73	20A HT2	09/26/90	0.835	0.00	11.00	0.00	0.20
7281	73	360 CEM	11/20/90	0.984	0.00	21.70	0.00	0.60
7281	73	20H HT2	09/26/90	0.664	0.00	10.50	0.00	4.61
7282	73	20X CEM	09/26/90	0.790	0.00	3.25	0.00	0.00
7282	73	20H HT2	09/26/90	0.664	0.00	32.00	0.00	2.30
7283	73	20Y CEM	09/26/90	0.611	0.00	15.50	0.00	0.00
7283	73	20C HT2	09/26/90	0.733	0.00	7.92	0.00	5.48
7284	73	20Y CEM	09/26/90	0.611	0.00	7.92	0.00	1.40
7284	73	20C HT2	09/26/90	0.733	0.00	5.55	0.00	3.33
7285	73	20Z CEM	09/26/90	0.712	0.00	7.23	0.00	0.00
7285	73	200 HT2	09/26/90	0.686	0.00	10.00	0.00	7.71
7286	73	20Z CEM	09/26/90	0.712	0.00	11.10	0.00	3.10
7286	73	200 HT2	09/26/90	0.686	0.00	8.17	0.00	4.89
7287	73	20E CEM	09/26/90	0.645	0.00	12.10	0.00	0.00
7287	73	20E HT2	09/26/90	0.711	0.00	15.20	0.00	0.00
7288	73	20E CEM	09/26/90	0.645	0.00	24.90	0.00	0.00
7288	73	20E HT2	09/26/90	0.711	0.00	5.21	0.00	1.38
7289	73	2E1 CEM	09/26/90	0.674	0.00	0.23	0.00	0.00
7289	73	20F HT2	09/26/90	0.671	0.00	8.19	0.00	1.40
7290	73	2E1 CEM	09/26/90	0.674	0.00	5.66	0.00	3.17
7290	73	20F HT2	09/26/90	0.671	0.00	4.22	0.00	0.69
7291	73	2E2 CEM	09/26/90	0.596	0.00	22.60	0.00	0.13
7291	73	20G HT2	09/26/90	0.728	0.00	7.28	0.00	0.97
7292	73	2E2 CEM	09/26/90	0.596	0.00	66.00	0.00	2.87
7292	73	20G HT2	09/26/90	0.728	0.00	38.50	0.00	0.51
7293	73	2E3 CEM	09/26/90	0.553	0.00	33.20	0.00	1.16
7293	73	20H HT2	09/26/90	0.711	0.00	1.10	0.00	0.00
7294	73	2E3 CEM	09/26/90	0.553	0.00	9.11	0.00	3.82
7294	73	20H HT2	09/26/90	0.711	0.00	6.84	0.00	0.00
7295	73	2E4 CEM	09/26/90	0.632	2.56	56.10	21.89	68.98
7295	73	34Y CEM	11/20/90	0.203	16.00	100.00	7.13	33.59
7295	73	34B CEM	12/04/90	0.578	0.00	40.20	0.00	0.00
7295	73	34L CEM	01/04/91	1.235	6.79	100.00	14.73	30.32
7295	73	20I HT2	09/26/90	0.826	11.00	68.60	4.41	23.01
7295	73	20J HT2	10/26/90	0.818	4.44	100.00	22.54	51.71
7295	73	34B HT2	12/04/90	0.663	0.00	60.80	0.00	0.12
7296	73	2E4 CEM	09/26/90	0.632	60.60	100.00	1.65	21.16
7296	73	20I HT2	09/26/90	0.826	0.00	100.00	0.00	0.60
7298	70	241 HT2	08/23/90	1.284	0.00	100.00	0.00	1.90
7299	70	241 HT2	08/23/90	1.284	0.00	69.70	0.00	2.65
7300	70	242 HT2	08/23/90	1.272	0.00	100.00	0.00	7.13
7301	70	242 HT2	08/23/90	1.272	0.00	100.00	0.00	10.29
7302	70	243 HT2	08/23/90	1.315	0.00	65.90	0.00	6.53
7303	70	243 HT2	08/23/90	1.315	0.00	100.00	0.00	8.90
7304	70	25F HT2	08/29/90	1.282	0.00	100.00	0.00	3.70
7305	70	25G HT2	08/29/90	1.296	0.00	100.00	0.00	4.70
7306	70	25G HT2	08/29/90	1.296	0.00	100.00	0.00	6.00
7307	70	25H HT2	08/29/90	1.334	0.00	100.00	0.00	4.50
7308	70	25H HT2	08/29/90	1.334	0.00	100.00	0.00	7.20
7309	70	25I HT2	08/29/90	1.351	0.00	100.00	0.00	4.90
7310	70	25I HT2	08/29/90	1.351	0.00	100.00	0.00	4.50
7311	70	25J HT2	08/29/90	1.333	0.00	100.00	0.00	5.50
7312	70	25J HT2	08/29/90	1.333	0.00	100.00	0.00	5.19
7313	70	25L HT2	08/30/90	1.560	0.00	100.00	0.00	0.51
7314	70	25L HT2	08/30/90	1.560	0.00	100.00	0.00	1.20
7315	70	25M HT2	08/30/90	1.411	0.00	100.00	0.00	1.00
7316	70	25M HT2	08/30/90	1.411	0.00	100.00	0.00	1.60
7317	70	25N HT2	08/30/90	1.440	0.00	100.00	0.00	2.40
7318	70	25N HT2	08/30/90	1.480	0.00	100.00	0.00	0.24
7319	70	25O HT2	08/30/90	1.479	0.00	3.10	0.00	0.40
7320	70	25O HT2	08/30/90	1.479	0.00	49.30	0.00	0.44
7321	70	25P HT2	08/30/90	1.419	0.00	15.90	0.00	0.60
7322	70	25P HT2	08/30/90	1.419	0.00	100.00	0.00	0.70
7323	70	25Q HT2	08/30/90	1.471	0.00	100.00	0.00	1.30
7324	70	25Q HT2	08/30/90	1.471	0.00	100.00	0.00	2.10
7325	70	25R HT2	08/30/90	1.289	0.00	12.00	0.00	1.59
7326	70	25R HT2	08/30/90	1.289	0.00	100.00	0.00	3.25
7327	70	25S HT2	08/30/90	1.510	0.00	100.00	0.00	2.00
7328	70	25S HT2	08/30/90	1.510	0.00	9.88	0.00	0.10

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Alt #	Cell Line	Test Date	Diff- mnl.	IC 50	TC 25	SI	TAI
7329	70	252	MT2	08/29/90	1.329	0.00	> 100.00	0.00	8.13
7330	70	252	MT2	08/29/90	1.329	0.00	> 100.00	0.00	0.05
7331	70	253	MT2	08/29/90	1.327	0.00	> 100.00	0.00	0.70
7332	70	253	MT2	08/29/90	1.327	0.00	> 100.00	0.00	1.52
7333	70	254	MT2	08/29/90	1.316	0.00	> 100.00	0.00	1.69
7336	70	254	MT2	08/29/90	1.316	0.00	49.50	0.00	0.00
7337	70	255	MT2	08/29/90	1.348	0.00	> 100.00	0.00	2.35
7338	70	255	MT2	08/29/90	1.348	0.00	> 100.00	0.00	3.10
7339	70	256	MT2	08/29/90	1.298	0.00	> 100.00	0.00	0.85
7340	70	256	MT2	08/29/90	1.298	0.00	> 100.00	0.00	0.08
7341	70	257	MT2	08/29/90	1.262	0.00	57.40	0.00	0.32
7342	70	257	MT2	08/29/90	1.262	0.00	> 100.00	0.00	0.10
7343	70	258	MT2	08/29/90	1.329	0.00	15.50	0.00	1.11
7344	70	258	MT2	08/29/90	1.329	0.00	13.50	0.00	0.64
7345	70	259	MT2	08/29/90	1.302	0.00	> 100.00	0.00	0.30
7346	70	259	MT2	08/29/90	1.302	0.00	> 100.00	0.00	0.65
7347	70	258	MT2	08/29/90	1.292	0.00	52.00	0.00	5.38
7348	70	250	MT2	08/29/90	1.292	0.00	> 100.00	0.00	5.00
7349	70	250	MT2	08/29/90	1.308	0.00	> 100.00	0.00	5.90
7350	70	250	MT2	08/29/90	1.308	0.00	> 100.00	0.00	4.10
7351	70	250	MT2	08/29/90	1.301	0.00	49.90	0.00	4.56
7352	70	250	MT2	08/29/90	1.301	0.00	> 100.00	0.00	3.60
7353	70	258	MT2	08/29/90	1.292	0.00	40.60	0.00	1.31
7354	70	258	MT2	08/29/90	1.292	0.00	> 100.00	0.00	2.30
7355	70	251	MT2	08/29/90	1.282	0.00	> 100.00	0.00	3.40
7356	70	251	MT2	08/30/90	1.504	0.00	> 100.00	0.00	1.10
7357	70	251	MT2	08/30/90	1.504	0.00	100.00	0.00	1.60
7358	70	250	MT2	08/30/90	1.496	0.00	49.90	0.00	0.50
7359	70	250	MT2	08/30/90	1.496	0.00	> 100.00	0.00	0.70
7360	70	250	MT2	08/30/90	1.371	0.00	> 100.00	0.00	0.11
7361	70	250	MT2	08/30/90	1.371	0.00	> 100.00	0.00	0.27
7362	70	25X	MT2	08/30/90	1.409	0.00	> 100.00	0.00	0.00
7363	70	25X	MT2	08/30/90	1.409	0.00	> 100.00	0.00	0.00
7364	70	251	MT2	08/30/90	1.578	0.00	> 100.00	0.00	0.93
7365	70	251	MT2	08/30/90	1.578	0.00	> 100.00	0.00	0.60
7366	70	252	MT2	08/30/90	1.522	0.00	> 100.00	0.00	2.10
7367	70	252	MT2	08/30/90	1.522	0.00	> 100.00	0.00	1.90
7368	70	260	MT2	08/30/90	1.514	0.00	> 100.00	0.00	1.70
7369	70	260	MT2	08/30/90	1.514	0.00	> 100.00	0.00	1.03
7370	70	261	MT2	08/30/90	1.571	0.00	> 100.00	0.00	0.80
7371	70	261	MT2	08/30/90	1.571	0.00	15.20	0.00	0.23
7372	70	262	MT2	08/30/90	1.435	0.00	63.50	0.00	2.12
7373	70	262	MT2	08/30/90	1.435	0.00	72.50	0.00	0.30
7374	70	263	MT2	08/30/90	1.514	0.00	15.60	0.00	0.70
7375	70	263	MT2	08/30/90	1.514	0.00	49.00	0.00	1.00
7376	70	264	MT2	08/30/90	1.427	0.00	50.50	0.00	0.60
7377	70	264	MT2	08/30/90	1.427	0.00	> 100.00	0.00	0.50
7378	70	265	MT2	08/30/90	1.538	0.00	> 100.00	0.00	1.50
7379	70	265	MT2	08/30/90	1.538	0.00	> 100.00	0.00	0.05
7380	70	266	MT2	08/30/90	1.482	0.00	> 100.00	0.00	8.77
7381	70	266	MT2	08/30/90	1.482	49.90	> 100.00	2.00	15.63
7382	70	267	MT2	08/30/90	1.507	0.00	> 100.00	0.00	2.30
7383	70	267	MT2	08/30/90	1.507	0.00	> 100.00	0.00	1.80
7385	70	272	MT2	08/30/90	1.347	0.00	> 100.00	0.00	0.00
7386	70	272	MT2	08/30/90	1.347	0.00	> 100.00	0.00	0.50
7387	70	280	MT2	08/30/90	1.328	0.00	> 100.00	0.00	0.08
7388	70	280	MT2	08/30/90	1.328	0.00	> 100.00	0.00	0.06
7389	70	281	MT2	08/30/90	1.328	0.00	> 100.00	0.00	1.10
7390	70	281	MT2	08/30/90	1.328	0.00	> 100.00	0.00	1.60
7391	70	282	MT2	08/30/90	1.309	0.00	> 100.00	0.00	0.00
7392	70	282	MT2	08/30/90	1.309	0.00	> 100.00	0.00	0.00
7393	70	266	MT2	09/05/90	1.280	0.00	> 100.00	0.00	7.46
7394	70	266	MT2	09/05/90	1.280	0.00	> 100.00	0.00	0.81
7395	70	26X	MT2	09/05/90	1.250	0.00	> 100.00	0.00	0.26
7396	70	26X	MT2	09/05/90	1.250	0.00	> 100.00	0.00	1.20
7397	70	26Y	MT2	09/05/90	1.178	0.00	> 100.00	0.00	1.07
7398	70	26Y	MT2	09/05/90	1.178	0.00	> 100.00	0.00	0.63
7399	70	262	MT2	09/05/90	1.112	0.00	> 100.00	0.00	0.00
7400	70	262	MT2	09/05/90	1.112	0.00	> 100.00	0.00	0.00
7401	70	270	MT2	09/05/90	1.252	0.00	> 100.00	0.00	0.00
7402	70	270	MT2	09/05/90	1.252	0.00	> 100.00	0.00	0.26
7403	70	271	MT2	09/05/90	1.142	0.00	> 100.00	0.00	3.70
7404	70	271	MT2	09/05/90	1.142	0.00	49.00	0.00	0.64
7405	70	272	MT2	09/05/90	1.223	0.00	> 100.00	0.00	1.60
7406	70	272	MT2	09/05/90	1.223	0.00	> 100.00	0.00	0.50
7407	70	275	MT2	09/05/90	1.194	0.00	> 100.00	0.00	2.20
7408	70	275	MT2	09/05/90	1.194	0.00	> 100.00	0.00	0.60
7409	70	274	MT2	09/05/90	1.243	0.00	> 100.00	0.00	1.13

Cumulative Summary (cont'd)

AVE No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- mcl.	IC 50	IC 25	SI	TAL
7410	70	274	MT2	09/05/90	1.243	0.00	100.00	0.00	1.40
7411	70	275	MT2	09/05/90	1.252	0.00	100.00	0.00	3.39
7412	70	275	MT2	09/05/90	1.252	0.00	100.00	0.00	2.70
7413	70	276	MT2	09/05/90	1.294	0.00	100.00	0.00	4.90
7414	70	276	MT2	09/05/90	1.294	0.00	100.00	0.00	4.19
7415	70	277	MT2	09/05/90	1.222	0.00	100.00	0.00	3.39
7416	70	277	MT2	09/05/90	1.222	0.00	71.50	0.00	1.93
7417	70	278	MT2	09/05/90	1.279	0.00	49.30	0.00	2.21
7418	70	278	MT2	09/05/90	1.279	0.00	100.00	0.00	2.60
7419	70	279	MT2	09/05/90	1.263	0.00	100.00	0.00	3.40
7420	70	279	MT2	09/05/90	1.263	0.00	66.00	0.00	0.70
7421	70	27A	MT2	09/05/90	1.258	0.00	73.50	0.00	0.60
7422	70	27A	MT2	09/05/90	1.258	0.00	15.70	3.00	0.10
7423	70	27B	MT2	09/05/90	1.225	0.00	100.00	0.00	1.60
7424	70	27B	MT2	09/05/90	1.225	0.00	100.00	0.00	0.20
7425	70	27C	MT2	09/05/90	1.225	0.00	100.00	0.00	2.00
7426	70	27C	MT2	09/05/90	1.225	0.00	100.00	0.00	0.94
7427	70	27D	MT2	09/05/90	1.235	0.00	100.00	0.00	0.00
7428	70	27D	MT2	09/05/90	1.235	0.00	49.30	0.00	0.00
7429	70	27E	MT2	09/05/90	1.261	0.00	53.50	0.00	0.47
7430	70	27E	MT2	09/05/90	1.261	0.00	100.00	0.00	0.38
7431	70	27F	MT2	09/05/90	1.287	0.00	100.00	0.00	0.12
7432	70	27F	MT2	09/05/90	1.287	0.00	100.00	0.00	1.25
7433	70	27G	MT2	09/05/90	1.244	0.00	20.00	0.00	0.10
7434	70	27G	MT2	09/05/90	1.244	0.00	100.00	0.00	2.70
7435	70	27H	MT2	09/05/90	1.252	0.00	100.00	0.00	4.10
7436	70	27H	MT2	09/05/90	1.252	0.00	100.00	0.00	3.10
7437	70	27I	MT2	09/05/90	1.241	0.00	100.00	0.00	0.20
7447	71	21H	MT2	08/15/90	1.373	0.00	6.44	0.00	0.63
7448	71	21H	MT2	08/15/90	1.373	0.00	27.70	0.00	1.64
7449	71	200	MT2	08/15/90	1.364	0.00	1.70	0.00	0.00
7451	73	2E5	CEM	09/26/90	0.634	0.00	0.57	0.00	0.00
7451	73	2D1	MT2	09/26/90	0.739	0.00	2.23	0.00	0.00
7452	73	2E6	CEM	09/26/90	0.652	0.00	4.56	0.00	0.75
7452	73	2D4	MT2	09/26/90	0.750	0.00	8.70	0.00	1.02
7453	73	2E6	CEM	09/26/90	0.652	0.00	53.50	0.00	8.84
7453	73	2D4	MT2	09/26/90	0.750	0.00	32.00	0.00	1.65
7454	73	2E7	CEM	09/26/90	0.707	0.00	0.32	0.00	0.00
7454	73	36Z	CEM	11/20/90	1.007	0.00	1.47	0.00	1.90
7454	73	2D1	MT2	09/26/90	0.899	0.00	2.37	0.00	0.84
7455	73	2E7	CEM	09/26/90	0.707	0.00	0.82	0.00	0.01
7455	73	2D1	MT2	09/26/90	0.899	0.00	2.45	0.00	1.34
7456	73	2E8	CEM	09/26/90	0.607	0.00	96.90	0.00	2.14
7456	73	2D0H	MT2	09/26/90	0.880	0.00	16.60	0.00	2.30
7457	73	2E8	CEM	09/26/90	0.607	0.00	0.18	0.00	0.00
7457	73	36Y	CEM	11/20/90	0.903	0.00	3.86	0.00	1.12
7457	73	2D0H	MT2	09/26/90	0.880	0.00	0.80	0.00	0.02
7458	73	2E9	CEM	09/26/90	0.663	0.00	2.34	0.00	0.00
7458	73	2D0H	MT2	09/26/90	0.843	0.00	3.97	0.00	0.00
7459	73	2E9	CEM	09/26/90	0.663	0.00	5.07	0.00	2.80
7459	73	2D0H	MT2	09/26/90	0.843	0.00	5.27	0.00	2.93
7460	73	2EA	CEM	09/26/90	0.639	0.00	2.40	0.00	0.00
7460	73	2D0	MT2	09/26/90	0.800	0.00	3.92	0.00	0.13
7461	73	2EA	CEM	09/26/90	0.639	0.00	14.40	0.00	7.42
7461	73	2D0	MT2	09/26/90	0.800	0.00	13.20	0.00	2.57
7462	73	2E8	CEM	09/26/90	0.500	0.00	15.60	0.00	0.12
7462	73	2D0P	MT2	09/26/90	0.888	0.00	14.00	0.00	0.00
7463	73	2E8	CEM	09/26/90	0.500	0.00	100.00	0.00	12.01
7463	73	2E9P	MT2	09/26/90	0.888	0.00	100.00	0.00	0.00
7464	73	2FA	CEM	09/27/90	0.710	0.00	62.50	0.00	0.00
7464	73	2E9	MT2	09/27/90	1.119	0.00	100.00	0.00	2.57
7465	73	2FB	CEM	09/27/90	0.797	0.00	100.00	0.00	0.12
7465	73	2E9	MT2	09/27/90	1.122	0.00	100.00	0.00	7.90
7466	73	2FB	CEM	09/27/90	0.797	0.00	100.00	0.00	0.06
7466	73	2E9	MT2	09/27/90	1.122	0.00	100.00	0.00	6.40
7467	73	2FC	CEM	09/27/90	0.819	0.00	64.00	0.00	5.29
7467	73	2ER	MT2	09/27/90	0.787	0.00	100.00	0.00	14.41
7468	73	2FC	CEM	09/27/90	0.819	0.00	100.00	0.00	7.77
7468	73	2ER	MT2	09/27/90	0.787	0.00	88.70	0.00	11.88
7469	73	2FO	CEM	09/27/90	0.773	0.00	100.00	0.00	0.00
7469	73	2E8	MT2	09/27/90	1.056	0.00	100.00	0.00	3.50
7470	73	2FO	CEM	09/27/90	0.773	0.00	28.90	0.00	0.40
7470	73	2E8	MT2	09/27/90	1.056	0.00	5.64	0.00	1.34
7471	73	2FE	CEM	09/27/90	0.720	0.00	74.70	0.00	5.17
7471	73	2E7	MT2	09/27/90	1.071	0.00	50.10	0.00	5.00
7472	73	2FE	CEM	09/27/90	0.720	0.00	71.50	0.00	1.60
7472	73	2E7	MT2	09/27/90	1.071	0.00	100.00	0.00	2.95
7473	73	2F1	CEM	09/27/90	0.558	0.00	100.00	0.00	9.50

Cumulative Summary (cont'd)

AVS no.	Ship- ment	PLC #	Call Line	Test Date	Diff- rmtl.	IC 50	TC 25	SI	TAI
7473	73	28U	MT2	09/27/90	1.000	0.00	> 100.00	0.00	> 9.81
7474	73	2FF	CEM	09/27/90	0.558	0.00	> 100.00	0.00	> 4.22
7476	73	28U	MT2	09/27/90	1.000	0.00	> 67.40	0.00	> 2.49
7475	73	2FF	CEM	09/27/90	0.703	0.00	> 17.90	0.00	> 0.00
7475	73	28V	MT2	09/27/90	1.015	0.00	> 100.00	0.00	> 4.70
7476	73	2FG	CEM	09/27/90	0.703	0.00	> 71.20	0.00	> 4.73
7476	73	28V	MT2	09/27/90	1.015	0.00	> 100.00	0.00	> 9.20
7477	73	2FM	CEM	09/27/90	0.822	0.00	> 100.00	0.00	> 0.09
7477	73	2CW	MT2	09/27/90	1.072	0.00	> 100.00	0.00	> 5.70
7478	73	2FM	CEM	09/27/90	0.822	0.00	> 8.87	0.00	> 0.21
7478	73	28V	MT2	09/27/90	1.072	0.00	> 100.00	0.00	> 7.00
7479	73	2GS	CEM	09/28/90	0.947	0.00	> 72.80	0.00	> 0.00
7479	73	2FX	MT2	09/28/90	1.098	0.00	> 100.00	0.00	> 0.00
7480	73	2G9	CEM	09/28/90	0.947	0.00	> 39.80	0.00	> 0.00
7480	73	2FX	MT2	09/28/90	1.098	0.00	> 100.00	0.00	> 0.53
7481	73	2GA	CEM	09/28/90	1.067	0.00	> 0.32	0.00	> 0.00
7481	73	2FY	MT2	09/28/90	1.090	0.00	> 49.30	0.00	> 0.00
7482	73	2GA	CEM	09/28/90	1.067	0.00	> 0.30	0.00	> 0.00
7482	73	2FY	MT2	09/28/90	1.090	0.00	> 100.00	0.00	> 4.23
7483	73	2GB	CEM	09/28/90	0.821	0.00	> 0.27	0.00	> 0.22
7483	73	2FZ	MT2	09/28/90	1.100	0.00	> 49.30	0.00	> 0.00
7484	73	2GB	CEM	09/28/90	0.821	0.00	> 42.60	0.00	> 0.00
7484	73	2FZ	MT2	09/28/90	1.100	0.00	> 100.00	0.00	> 4.49
7485	73	2GC	CEM	09/28/90	0.909	0.00	> 32.90	0.00	> 0.00
7485	73	2G0	MT2	09/28/90	1.002	0.00	> 49.20	0.00	> 0.00
7486	73	2GC	CEM	09/28/90	0.909	0.00	> 100.00	0.00	> 0.00
7486	73	2G0	MT2	09/28/90	1.002	0.00	> 100.00	0.00	> 1.08
7487	73	2GD	CEM	09/28/90	1.057	0.00	> 47.50	0.00	> 0.00
7487	73	2G1	MT2	09/28/90	1.045	0.00	> 100.00	0.00	> 0.53
7488	73	2GD	CEM	09/28/90	1.057	0.00	> 42.50	0.00	> 0.00
7488	73	2G1	MT2	09/28/90	1.045	0.00	> 62.70	0.00	> 0.00
7489	73	2GE	CEM	09/28/90	0.816	0.00	> 23.30	0.00	> 0.18
7489	73	2G2	MT2	09/28/90	1.040	0.00	> 74.50	0.00	> 1.86
7490	73	2GE	CEM	09/28/90	0.816	0.00	> 0.24	0.00	> 0.00
7490	73	2G2	MT2	09/28/90	1.040	0.00	> 61.10	0.00	> 0.96
7491	73	2GF	CEM	09/28/90	0.973	0.00	> 0.31	0.00	> 0.00
7491	73	2G3	MT2	09/28/90	1.090	0.00	> 11.30	0.00	> 0.00
7492	73	2GF	CEM	09/28/90	0.973	0.00	> 39.20	0.00	> 0.00
7492	73	2G3	MT2	09/28/90	1.090	0.00	> 100.00	0.00	> 1.12
7493	73	2GG	CEM	09/28/90	0.971	0.00	> 0.30	0.00	> 0.00
7493	73	2G4	MT2	09/28/90	0.877	0.00	> 0.59	0.00	> 0.00
7493	73	2UX	MT2	10/26/90	0.818	0.00	> 4.99	0.00	> 0.03
7494	73	2GG	CEM	09/28/90	0.971	0.00	> 37.20	0.00	> 0.00
7494	73	2G4	MT2	09/28/90	0.877	0.00	> 100.00	0.00	> 10.80
7495	19A	26L	CEM	08/29/90	0.841	0.00	> 2.10	0.00	> 0.00
7496	19A	26L	CEM	08/29/90	0.841	0.00	> 39.90	0.00	> 0.03
7497	19A	26M	CEM	08/29/90	0.667	0.00	> 100.00	0.00	> 4.90
7498	19A	26M	CEM	08/29/90	0.667	0.00	> 100.00	0.00	> 7.60
7499	19A	26M	CEM	08/29/90	0.752	0.00	> 100.00	0.00	> 1.61
7500	19A	26M	CEM	08/29/90	0.752	0.00	> 45.10	0.00	> 9.33
7501	19A	260	CEM	08/29/90	0.737	0.00	> 21.00	0.00	> 5.71
7502	19A	260	CEM	08/29/90	0.737	0.00	> 100.00	0.00	> 0.63
7503	19A	26P	CEM	08/29/90	0.896	0.00	> 42.70	0.00	> 0.00
7504	19A	26P	CEM	08/29/90	0.896	0.00	> 17.30	0.00	> 0.08
7505	19A	26Q	CEM	08/29/90	0.833	0.00	> 0.92	0.00	> 0.00
7506	19A	26Q	CEM	08/29/90	0.833	0.00	> 32.00	0.00	> 0.00
7507	19A	26R	CEM	08/29/90	0.795	0.00	> 0.32	0.00	> 0.00
7508	19A	26R	CEM	08/29/90	0.795	0.00	> 49.70	0.00	> 0.10
7509	19A	26S	CEM	08/29/90	0.885	0.00	> 27.60	0.00	> 0.00
7510	19A	26S	CEM	08/29/90	0.885	0.00	> 0.32	0.00	> 0.00
7511	19A	26T	CEM	08/29/90	0.778	0.00	> 0.32	0.00	> 0.00
7512	19A	26T	CEM	08/29/90	0.778	0.00	> 9.74	0.00	> 0.00
7513	19A	26U	CEM	08/29/90	0.865	0.00	> 0.32	0.00	> 0.00
7514	19A	26U	CEM	08/29/90	0.865	0.00	> 0.32	0.00	> 0.00
7526	19A	27P	CEM	09/06/90	0.925	0.00	> 21.60	0.00	> 0.00
7527	19A	27Q	CEM	09/06/90	0.750	0.00	> 22.40	0.00	> 0.00
7529	19A	27R	CEM	09/06/90	0.860	0.00	> 52.90	0.00	> 0.25
7530	19A	27R	CEM	09/06/90	0.860	0.00	> 28.10	0.00	> 0.00
7533	19A	27T	CEM	09/06/90	0.932	0.00	> 36.90	0.00	> 0.00
7534	19A	27T	CEM	09/06/90	0.932	0.00	> 25.70	0.00	> 2.12
7535	19A	27U	CEM	09/06/90	0.896	0.00	> 7.53	0.00	> 0.01
7536	19A	27U	CEM	09/06/90	0.896	0.00	> 5.00	0.00	> 0.00
7537	19A	27V	CEM	09/06/90	0.841	0.00	> 5.65	0.00	> 0.71
7538	19A	27V	CEM	09/06/90	0.841	0.00	> 1.98	0.00	> 1.39
7539	19A	27W	CEM	09/06/90	0.789	0.00	> 16.80	0.00	> 0.00
7540	19A	27W	CEM	09/06/90	0.789	0.00	> 1.50	0.00	> 0.00
7541	19A	27X	CEM	09/06/90	0.766	0.00	> 2.27	0.00	> 0.00
7542	19A	27X	CEM	09/06/90	0.766	0.00	> 21.90	0.00	> 0.00

Cumulative Summary (cont'd)

AYS No.	Ship-ment	Pit Cell # Line	Test Date	Diff-rcntl.	IC 50	TC 25	SI	TAI
7543	19A	36P CEM	11/20/90	1.061	0.00	0.54	0.00	0.14
7544	19A	36Q CEM	11/20/90	0.806	0.00	0.53	0.00	0.00
7547	19A	36R CEM	11/20/90	0.806	0.00	3.92	0.00	0.00
7548	19A	36R CEM	11/20/90	1.094	0.00	1.30	0.00	0.00
7549	19A	26K CEM	08/29/90	0.623	0.00	0.30	0.00	0.46
7549	19A	36R CEM	11/20/90	1.094	0.00	100.00	0.00	1.33
7549	19A	24R NT2	08/23/90	1.181	0.00	100.00	0.00	7.39
7550	19A	26K CEM	08/29/90	0.623	0.00	25.30	0.00	0.00
7550	19A	36S CEM	11/20/90	0.874	0.00	44.80	0.00	3.57
7550	19A	24R NT2	08/23/90	1.181	0.00	49.00	0.00	0.96
7551	19A	34S CEM	11/20/90	0.874	0.00	100.00	0.00	3.01
7552	19A	361 CEM	11/20/90	1.072	0.00	100.00	0.00	0.00
7553	19A	36T CEM	11/20/90	1.072	0.00	4.95	0.00	0.03
7554	19A	34U CEM	11/20/90	0.926	0.00	100.00	0.00	1.84
7555	19A	36U CEM	11/20/90	0.926	0.00	100.00	0.00	6.51
7556	19A	34V CEM	11/20/90	1.077	0.00	100.00	0.00	0.03
7557	19A	36V CEM	11/20/90	1.077	0.00	60.30	0.00	0.00
7558	19A	36W CEM	11/20/90	1.008	0.00	100.00	0.00	1.80
7559	19A	36W CEM	11/20/90	1.008	0.00	100.00	0.00	3.10
7560	19A	36X CEM	11/20/90	0.896	0.00	100.00	0.00	1.43
7566	20A	24S CEM	10/02/90	0.649	0.00	100.00	0.00	0.00
7566	20A	26L NT2	10/02/90	0.712	0.00	100.00	0.00	31.02
7567	20A	24S CEM	10/02/90	0.649	0.00	100.00	0.00	0.52
7567	20A	26L NT2	10/02/90	0.712	44.80	100.00	2.14	31.58
7568	20A	24S CEM	10/02/90	0.708	0.00	100.00	0.00	1.75
7568	20A	26M NT2	10/02/90	0.714	62.90	100.00	1.59	26.58
7568	20A	36P NT2	11/20/90	0.819	0.00	767.00	0.00	19.62
7569	20A	24S CEM	10/02/90	0.708	0.00	100.00	0.00	2.40
7569	20A	26N NT2	10/02/90	0.714	56.60	100.00	1.77	18.26
7569	20A	36A NT2	11/20/90	0.921	0.00	556.00	0.00	20.40
7570	20A	24T CEM	10/02/90	0.654	0.00	100.00	0.00	0.46
7570	20A	26N NT2	10/02/90	0.643	31.70	100.00	3.15	26.00
7571	20A	24T CEM	10/02/90	0.654	0.00	100.00	0.00	0.95
7571	20A	26N NT2	10/02/90	0.643	0.00	74.80	0.00	20.65
7572	20A	24S CEM	10/02/90	0.665	0.00	66.00	0.00	0.00
7572	20A	26O NT2	10/02/90	0.605	0.00	100.00	0.00	6.56
7573	20A	24S CEM	10/02/90	0.665	0.00	100.00	0.00	0.00
7573	20A	26O NT2	10/02/90	0.605	0.00	100.00	0.00	24.12
7574	20A	24P CEM	10/02/90	0.571	0.00	100.00	0.00	1.50
7574	20A	26P NT2	10/02/90	0.693	0.00	0.32	0.00	0.15
7575	20A	24P CEM	10/02/90	0.571	0.00	100.00	0.00	5.14
7575	20A	26P NT2	10/02/90	0.693	0.00	100.00	0.00	19.48
7576	20A	24A CEM	10/02/90	0.687	0.00	100.00	0.00	1.53
7576	20A	26Q NT2	10/02/90	0.718	0.00	0.32	0.00	0.00
7577	20A	24A CEM	10/02/90	0.687	0.00	2.27	0.00	0.31
7577	20A	26Q NT2	10/02/90	0.718	0.00	0.36	0.00	0.00
7578	20A	24B CEM	10/02/90	0.665	0.00	9.06	0.00	1.79
7578	20A	26R NT2	10/02/90	0.745	0.00	4.27	0.00	8.52
7579	20A	24B CEM	10/02/90	0.665	0.00	12.60	0.00	2.86
7579	20A	26R NT2	10/02/90	0.745	0.00	5.09	0.00	4.64
7580	20A	24C CEM	10/02/90	0.738	0.00	77.30	0.00	0.00
7580	20A	26S NT2	10/02/90	0.727	0.00	100.00	0.00	7.87
7581	20A	24C CEM	10/02/90	0.738	0.00	100.00	0.00	0.03
7581	20A	26S NT2	10/02/90	0.727	100.00	100.00	1.00	17.90
7582	20A	24D CEM	10/02/90	0.652	0.00	100.00	0.00	5.30
7582	20A	26T NT2	10/02/90	0.726	0.00	100.00	0.00	21.69
7583	20A	24D CEM	10/02/90	0.652	0.00	100.00	0.00	0.48
7583	20A	26T NT2	10/02/90	0.726	0.00	100.00	0.00	14.93
7584	20A	24E CEM	10/02/90	0.656	0.00	100.00	0.00	0.00
7584	20A	26U NT2	10/02/90	0.631	0.00	100.00	0.00	8.71
7585	20A	24E CEM	10/02/90	0.656	0.00	100.00	0.00	2.30
7585	20A	26U NT2	10/02/90	0.631	0.00	100.00	0.00	11.30
7586	20A	24F CEM	10/02/90	0.575	0.00	16.20	0.00	0.00
7586	20A	36A NT2	11/20/90	0.921	0.00	100.00	0.00	9.12
7586	20A	4CY NT2	02/21/91	1.454	0.00	100.00	0.00	0.00
7587	20A	24F CEM	10/02/90	0.575	0.00	100.00	0.00	3.89
7587	20A	36B NT2	11/20/90	0.939	0.00	100.00	0.00	18.50
7587	20A	4CY NT2	02/21/91	1.454	0.00	443.00	0.00	0.00
7588	20A	24G CEM	10/02/90	0.595	0.00	100.00	0.00	0.00
7588	20A	26V NT2	10/02/90	0.691	0.00	100.00	0.00	37.52
7589	20A	24G CEM	10/02/90	0.595	0.00	60.50	0.00	0.96
7589	20A	26V NT2	10/02/90	0.691	9.18	100.00	10.99	40.68
7589	20A	36B NT2	11/20/90	0.939	0.00	215.00	0.00	10.52
7590	20A	24H CEM	10/02/90	0.640	0.00	100.00	0.00	10.74
7590	20A	26X NT2	10/02/90	0.619	29.20	100.00	3.43	31.31
7590	20A	36C NT2	11/20/90	0.836	0.00	100.00	0.00	9.10
7591	20A	24H CEM	10/02/90	0.640	0.00	100.00	0.00	0.04
7591	20A	26X NT2	10/02/90	0.619	0.00	72.30	0.00	16.58

Cumulative Summary (cont'd)

AVS No.	Ship Name	Pit #	Cell Line	Test Date	Diff- enti.	TC 50	TC 25	SI	TAI
7592	ZOA	2PI	CEM	10/02/90	0.635	0.00	> 100.00	0.00	> 0.94
7592	ZOA	2GY	MT2	10/02/90	0.617	6.99	> 100.00	> 14.31	> 44.28
7592	ZOA	36C	MT2	11/20/90	0.836	0.00	538.00	0.00	5.63
7593	ZOA	2MI	CEM	10/02/90	0.635	0.00	> 100.00	0.00	0.22
7593	ZOA	2GY	MT2	10/02/90	0.617	15.50	> 100.00	> 6.43	> 44.00
7593	ZOA	36D	MT2	11/20/90	0.803	< 0.32	< 0.32	- 1.00	0.00
7594	ZOA	2WJ	CEM	10/02/90	0.631	0.00	> 100.00	0.00	21.84
7594	ZOA	2G2	MT2	10/02/90	0.634	0.00	> 100.00	0.00	17.88
7595	ZOA	2WJ	CEM	10/02/90	0.631	0.00	57.80	0.00	4.31
7595	ZOA	2G2	MT2	10/02/90	0.634	0.00	21.00	0.00	14.00
7596	ZOA	2WJ	CEM	10/02/90	0.626	0.00	15.90	0.00	3.79
7596	ZOA	2WJ	MT2	10/02/90	0.698	0.00	9.22	0.00	13.13
7597	ZOA	2WJ	CEM	10/02/90	0.626	0.00	35.70	0.00	0.05
7597	ZOA	2WJ	MT2	10/02/90	0.698	0.00	57.40	0.00	29.77
7598	ZOA	2WJ	CEM	10/02/90	0.624	0.00	39.60	0.00	5.04
7598	ZOA	2WJ	MT2	10/02/90	0.632	0.00	43.50	0.00	12.42
7599	ZOA	2WJ	CEM	10/02/90	0.624	0.00	79.90	0.00	5.89
7599	ZOA	2WJ	MT2	10/02/90	0.632	0.00	> 100.00	0.00	> 29.36
7600	ZOA	2WJ	CEM	10/02/90	0.658	0.00	8.22	0.00	4.26
7600	ZOA	2WJ	MT2	10/02/90	0.706	0.00	> 100.00	0.00	> 38.42
7601	ZOA	2WJ	CEM	10/02/90	0.658	0.00	45.30	0.00	6.50
7601	ZOA	2WJ	MT2	10/02/90	0.706	18.30	> 100.00	> 5.46	> 37.15
7602	ZOA	2WJ	CEM	10/02/90	0.644	0.00	63.40	0.00	0.00
7602	ZOA	2WJ	MT2	10/02/90	0.682	0.00	< 0.32	0.00	0.77
7603	ZOA	2WJ	CEM	10/02/90	0.644	0.00	> 100.00	0.00	> 10.28
7603	ZOA	2WJ	MT2	10/02/90	0.682	0.00	> 100.00	0.00	> 16.70
7604	ZOA	21L	CEM	10/03/90	0.518	0.00	32.00	0.00	0.00
7604	ZOA	2U5	MT2	10/23/90	0.956	28.30	50.70	1.79	7.79
7605	ZOA	21K	CEM	10/03/90	0.400	0.00	54.10	0.00	0.00
7605	ZOA	2U6	MT2	10/23/90	1.004	24.30	> 100.00	> 4.11	> 29.88
7605	ZOA	36J	MT2	11/20/90	0.865	0.00	2.86	0.00	1.04
7606	ZOA	21K	CEM	10/03/90	0.400	0.00	> 100.00	0.00	> 5.08
7606	ZOA	2U6	MT2	10/23/90	1.004	0.00	> 100.00	0.00	> 7.89
7607	ZOA	2U7	MT2	10/23/90	0.972	0.00	> 100.00	0.00	> 4.68
7608	ZOA	21L	CEM	10/03/90	0.481	0.00	> 100.00	0.00	1.20
7608	ZOA	2U7	MT2	10/23/90	0.972	0.00	> 100.00	0.00	> 2.33
7609	ZOA	21M	CEM	10/03/90	0.435	0.00	> 100.00	0.00	0.00
7609	ZOA	2U8	MT2	10/23/90	1.041	0.00	> 100.00	0.00	> 1.54
7610	ZOA	21M	CEM	10/03/90	0.435	0.00	10.30	0.00	2.11
7610	ZOA	2U8	MT2	10/23/90	1.041	0.00	16.70	0.00	1.93
7611	ZOA	21M	CEM	10/03/90	0.470	0.00	52.60	0.00	0.34
7611	ZOA	2U9	MT2	10/23/90	0.944	0.00	70.90	0.00	11.66
7612	ZOA	21M	CEM	10/03/90	0.470	0.00	4.63	0.00	1.72
7612	ZOA	2U9	MT2	10/23/90	0.944	0.00	17.90	0.00	0.89
7613	ZOA	21O	CEM	10/03/90	0.457	0.00	> 100.00	0.00	0.12
7613	ZOA	2U9	MT2	10/23/90	0.957	0.00	> 100.00	0.00	> 2.69
7614	ZOA	21O	CEM	10/03/90	0.457	0.00	> 100.00	0.00	0.00
7614	ZOA	2U9	MT2	10/23/90	0.957	0.00	> 100.00	0.00	> 2.77
7615	ZOA	21P	CEM	10/03/90	0.441	0.00	8.35	0.00	0.00
7615	ZOA	2U8	MT2	10/23/90	1.020	0.00	5.03	0.00	3.57
7616	ZOA	21P	CEM	10/03/90	0.441	0.00	5.09	0.00	0.00
7616	ZOA	2U8	MT2	10/23/90	1.020	0.00	5.44	0.00	2.58
7617	ZOA	21Q	CEM	10/03/90	0.364	0.00	> 100.00	0.00	0.00
7617	ZOA	2U9	MT2	10/23/90	1.029	0.00	> 100.00	0.00	> 4.59
7618	ZOA	21Q	CEM	10/03/90	0.364	0.00	> 100.00	0.00	0.63
7618	ZOA	2UC	MT2	10/23/90	1.029	0.00	52.70	0.00	5.80
7619	ZOA	21R	CEM	10/03/90	0.513	0.00	25.20	0.00	1.95
7619	ZOA	2UD	MT2	10/23/90	0.923	0.00	43.50	0.00	7.19
7620	ZOA	21R	CEM	10/03/90	0.513	26.20	2.83	0.11	15.90
7620	ZOA	2UD	MT2	10/23/90	0.923	0.00	> 100.00	0.00	> 4.92
7621	ZOA	21S	CEM	10/03/90	0.358	0.00	> 100.00	0.00	0.00
7621	ZOA	2UE	MT2	10/23/90	1.031	0.00	> 100.00	0.00	2.23
7622	ZOA	21S	CEM	10/03/90	0.358	0.00	> 100.00	0.00	0.10
7622	ZOA	2UE	MT2	10/23/90	1.031	0.00	> 100.00	0.00	0.00
7623	ZOA	21T	CEM	10/03/90	0.397	0.00	> 100.00	0.00	> 3.60
7623	ZOA	2UF	MT2	10/23/90	1.004	0.00	> 100.00	0.00	0.46
7624	ZOA	21T	CEM	10/03/90	0.397	0.00	0.70	0.00	3.93
7624	ZOA	2UF	MT2	10/23/90	1.004	0.00	21.30	0.00	0.60
7625	ZOA	21U	CEM	10/03/90	0.389	0.00	> 100.00	0.00	1.70
7625	ZOA	2UG	MT2	10/23/90	0.966	0.00	> 100.00	0.00	> 4.32
7626	ZOA	21U	CEM	10/03/90	0.389	0.00	> 100.00	0.00	1.54
7626	ZOA	2UG	MT2	10/23/90	0.966	0.00	> 100.00	0.00	> 1.22
7627	ZOA	21V	CEM	10/03/90	0.491	0.00	> 100.00	0.00	> 2.85
7627	ZOA	2UH	MT2	10/23/90	0.975	0.00	83.50	0.00	3.33
7628	ZOA	21V	CEM	10/03/90	0.491	0.00	> 100.00	0.00	> 8.62
7628	ZOA	2UH	MT2	10/23/90	0.975	0.00	> 100.00	0.00	> 1.24
7629	ZOA	21X	MT2	10/04/90	0.832	0.00	3.63	0.00	0.0
7630	ZOA	21X	MT2	10/04/90	0.832	0.00	> 100.00	0.00	> 5.69

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff. mtl.	IC 50	TC 25	SI	TAI
7631	20A	21Y	MT2	10/04/90	0.869	0.00	77.30	0.00	1.12
7632	20A	21Y	MT2	10/04/90	0.869	0.00	0.57	0.00	0.00
7633	20A	21Z	MT2	10/04/90	0.796	0.00	1.30	0.00	0.50
7634	20A	21Z	MT2	10/04/90	0.796	0.00	1.03	0.00	0.20
7635	20A	2J0	MT2	10/04/90	0.855	0.00	1.52	0.00	1.30
7636	20A	2J0	MT2	10/04/90	0.855	0.00	1.18	0.00	0.00
7637	20A	2J1	MT2	10/04/90	0.670	0.00	4.92	0.00	0.00
7638	20A	2J1	MT2	10/04/90	0.670	0.00	100.00	0.00	0.00
7639	20A	2J2	MT2	10/04/90	0.737	0.00	2.00	0.00	0.00
7640	20A	2J2	MT2	10/04/90	0.737	0.00	0.73	0.00	0.00
7641	20A	2J3	MT2	10/04/90	0.686	0.00	0.57	0.00	0.26
7642	20A	2J3	MT2	10/04/90	0.686	0.00	1.33	0.00	0.00
7643	20A	2J4	MT2	10/04/90	0.818	0.00	13.50	0.00	7.99
7644	20A	2J4	MT2	10/04/90	0.818	0.00	1.31	0.00	0.37
7645	20A	2J5	MT2	10/04/90	0.757	0.00	15.60	0.00	0.00
7646	20A	2J5	MT2	10/04/90	0.757	0.00	100.00	0.00	4.46
7647	20A	2J6	MT2	10/04/90	0.585	0.00	13.70	0.00	1.69
7648	20A	2J6	MT2	10/04/90	0.585	0.00	100.00	0.00	3.31
7649	20A	2J7	MT2	10/04/90	0.556	0.00	100.00	0.00	18.42
7650	20A	2J7	MT2	10/04/90	0.556	0.00	100.00	0.00	6.98
7651	20A	2J8	MT2	10/04/90	0.719	0.00	17.30	0.00	0.18
7652	20A	2J8	MT2	10/04/90	0.719	0.00	100.00	0.00	0.09
7653	20A	2J9	MT2	10/04/90	0.698	0.00	100.00	0.00	8.69
7654	20A	2J9	MT2	10/04/90	0.698	0.00	100.00	0.00	4.90
7655	20A	2JA	MT2	10/04/90	0.774	0.00	100.00	0.00	13.20
7656	20A	2JA	MT2	10/04/90	0.774	0.00	100.00	0.00	11.52
7657	20A	2JB	MT2	10/04/90	0.456	0.00	100.00	0.00	6.15
7658	20A	2JB	MT2	10/04/90	0.456	0.00	100.00	0.00	1.45
7659	20A	2JC	MT2	10/04/90	0.543	0.00	100.00	0.00	15.61
7660	20A	2JC	MT2	10/04/90	0.543	0.00	100.00	0.00	8.64
7661	20A	2JD	MT2	10/04/90	0.489	0.00	100.00	0.00	13.70
7662	20A	2JD	MT2	10/04/90	0.489	0.00	100.00	0.00	0.00
7663	20A	2JE	MT2	10/04/90	0.607	0.00	100.00	0.00	33.31
7663	20A	360	MT2	11/20/90	0.833	3.20	3.20	1.00	0.00
7664	20A	2JE	MT2	10/04/90	0.607	0.00	100.00	0.00	19.03
7665	20A	2JF	MT2	10/04/90	0.660	0.00	0.78	0.00	0.00
7666	20A	2JF	MT2	10/04/90	0.660	0.00	3.64	0.00	1.97
7667	20A	2KL	CEM	10/05/90	0.748	0.00	4.06	0.00	0.54
7667	20A	2TJ	MT2	10/23/90	0.987	0.00	12.20	0.00	8.71
7668	20A	2KL	CEM	10/05/90	0.748	0.00	30.40	0.00	0.00
7668	20A	2TJ	MT2	10/23/90	0.987	0.00	100.00	0.00	1.30
7669	20A	2OM	CEM	10/05/90	0.821	0.00	2.41	0.00	0.00
7669	20A	2TK	MT2	10/23/90	1.037	0.00	2.32	0.00	6.37
7670	20A	2OM	CEM	10/05/90	0.821	0.00	3.20	0.00	0.00
7670	20A	2TK	MT2	10/23/90	1.037	0.00	13.20	0.00	12.09
7671	20A	2OM	CEM	10/05/90	0.743	0.00	0.75	0.00	0.00
7671	20A	2TL	MT2	10/23/90	1.015	0.00	3.12	0.00	0.00
7672	20A	2OM	CEM	10/05/90	0.743	0.00	62.70	0.00	3.89
7672	20A	2TL	MT2	10/23/90	1.015	0.00	100.00	0.00	6.55
7673	20A	2KO	CEM	10/05/90	0.677	0.00	9.15	0.00	0.72
7673	20A	2TW	MT2	10/23/90	1.044	0.00	100.00	0.00	20.50
7674	20A	2KO	CEM	10/05/90	0.677	0.00	11.00	0.00	0.00
7674	20A	2TW	MT2	10/23/90	1.044	0.00	15.50	0.00	0.57
7675	20A	2CP	CEM	10/05/90	0.714	0.00	36.90	0.00	0.00
7675	20A	2TM	MT2	10/23/90	0.918	0.00	18.10	0.00	8.25
7676	20A	2CP	CEM	10/05/90	0.714	0.00	4.20	0.00	0.00
7676	20A	2TM	MT2	10/23/90	0.918	7.39	15.60	2.11	9.70
7677	20A	2QA	CEM	10/05/90	0.725	0.00	43.50	0.00	0.25
7677	20A	2TO	MT2	10/23/90	0.989	0.00	71.50	0.00	14.60
7678	20A	2QR	CEM	10/05/90	0.725	0.00	4.80	0.00	0.00
7678	20A	2TO	MT2	10/23/90	0.989	0.00	54.50	0.00	4.03
7679	20A	2QR	CEM	10/05/90	0.712	0.00	100.00	0.00	0.05
7679	20A	2TP	MT2	10/23/90	0.941	0.00	100.00	0.00	8.50
7680	20A	2QR	CEM	10/05/90	0.712	0.00	14.20	0.00	2.66
7680	20A	2TP	MT2	10/23/90	0.941	4.82	15.90	3.29	18.73
7681	20A	2KS	CEM	10/05/90	0.705	0.00	23.50	0.00	0.00
7681	20A	2TQ	MT2	10/23/90	0.980	37.10	100.00	2.70	24.84
7682	20A	2KS	CEM	10/05/90	0.705	0.00	39.30	0.00	0.00
7682	20A	2TQ	MT2	10/23/90	0.980	0.00	43.50	0.00	12.19
7683	20A	2KT	CEM	10/05/90	0.702	0.00	4.27	0.00	0.00
7684	20A	2KT	CEM	10/05/90	0.702	0.00	1.64	0.00	0.00
7685	20A	2KU	CEM	10/05/90	0.730	0.00	1.58	0.00	0.00
7686	20A	2KV	CEM	10/05/90	0.730	0.00	0.77	0.00	0.00
7687	20A	2KV	CEM	10/05/90	0.760	0.00	47.00	0.00	4.54
7688	20A	2KV	CEM	10/05/90	0.760	0.00	60.80	0.00	5.06
7689	20A	2KV	CEM	10/05/90	0.677	0.00	100.00	0.00	0.73
7689	20A	2TB	MT2	10/23/90	1.018	0.00	100.00	0.00	10.69
7690	20A	2CV	CEM	10/05/90	0.677	0.00	42.80	0.00	0.00

Cumulative Summary (cont'd)

Avg No.	Ship- ment	Plt Cell & Line	Test Date	Diff- mrl.	IC 50	TC 25	SI	TAI
7690	20A	ZTR MT2	10/23/90	1.018	0.00	49.20	0.00	11.49
7691	20A	ZOX CEM	10/05/90	0.701	0.00	100.00	0.00	3.31
7691	20A	ZTR MT2	10/23/90	1.036	0.00	100.00	0.00	0.36
7692	20A	ZOX CEM	10/05/90	0.701	0.00	16.70	0.00	6.61
7692	20A	ZTR MT2	10/23/90	1.036	0.00	21.00	0.00	3.01
7693	20A	ZKY CEM	10/05/90	0.660	0.00	32.00	0.00	3.47
7693	20A	ZTR MT2	10/23/90	0.960	16.80	47.40	2.83	21.88
7694	20A	ZKY CEM	10/05/90	0.660	0.00	42.30	0.00	4.91
7694	20A	ZTR MT2	10/23/90	0.960	0.00	49.20	0.00	6.88
7695	20A	ZKZ CEM	10/05/90	0.707	0.00	60.60	0.00	0.00
7696	20A	ZKZ CEM	10/05/90	0.707	0.00	100.00	0.00	0.00
7697	20A	ZLO CEM	10/05/90	0.665	0.00	100.00	0.00	3.04
7698	20A	ZLO CEM	10/05/90	0.665	0.00	42.00	0.00	0.00
7699	20A	ZL1 CEM	10/05/90	0.680	0.00	59.20	0.00	2.78
7700	20A	ZL1 CEM	10/05/90	0.680	0.00	36.40	0.00	2.86
7701	20A	ZL2 CEM	10/05/90	0.695	13.90	0.23	0.02	25.39
7701	20A	ZTU MT2	10/23/90	0.957	14.10	45.90	3.25	27.07
7702	20A	ZL2 CEM	10/05/90	0.695	0.00	75.70	0.00	5.51
7702	20A	ZTU MT2	10/23/90	0.957	0.00	51.80	0.00	0.91
7703	20A	ZL3 CEM	10/05/90	0.702	0.00	16.80	0.00	3.44
7703	20A	ZTV MT2	10/23/90	0.991	0.00	57.40	0.00	4.05
7704	20A	ZL3 CEM	10/05/90	0.702	0.00	0.82	0.00	0.00
7704	20A	ZTV MT2	10/23/90	0.991	0.00	1.38	0.00	0.35
7705	20A	ZVB CEM	10/30/90	1.021	0.00	0.72	0.00	0.00
7705	20A	ZLP MT2	10/09/90	0.845	0.00	0.32	0.00	0.00
7706	20A	ZVB CEM	10/30/90	1.021	0.00	1.76	0.00	0.00
7706	20A	ZLP MT2	10/09/90	0.845	0.00	15.20	0.00	3.88
7707	20A	ZVC CEM	10/30/90	0.902	0.00	10.60	0.00	0.09
7707	20A	ZLQ MT2	10/09/90	0.686	0.00	2.96	0.00	7.03
7708	20A	ZVC CEM	10/30/90	0.902	0.00	16.90	0.00	3.60
7708	20A	ZLQ MT2	10/09/90	0.686	5.90	14.80	2.51	12.42
7708	20A	ZV1 MT2	10/26/90	1.802	7.62	15.50	2.03	15.76
7708	20A	ZWJ MT2	11/20/90	0.865	0.00	15.50	0.00	5.00
7709	20A	ZVQ CEM	10/30/90	1.053	0.00	4.50	0.00	0.49
7709	20A	ZLR MT2	10/09/90	0.744	0.00	4.90	0.00	9.55
7710	20A	ZVQ CEM	10/30/90	1.053	0.00	2.15	0.00	0.09
7710	20A	ZLR MT2	10/09/90	0.744	0.00	4.92	0.00	8.10
7711	20A	ZVE CEM	10/30/90	0.919	0.00	1.46	0.00	0.00
7711	20A	ZLS MT2	10/09/90	0.491	0.00	5.15	0.00	7.28
7712	20A	ZVE CEM	10/30/90	0.919	0.00	0.39	0.00	0.00
7712	20A	ZLS MT2	10/09/90	0.499	0.00	0.83	0.00	0.00
7713	20A	ZVF CEM	10/30/90	0.965	0.00	0.32	0.00	0.00
7713	20A	ZSW CEM	11/14/90	0.788	0.00	0.01	0.00	0.00
7713	20A	ZLT MT2	10/09/90	0.596	0.00	0.32	0.00	0.00
7713	20A	ZV1 MT2	10/26/90	0.802	0.00	0.02	0.00	0.48
7714	20A	ZVF CEM	10/30/90	0.965	0.00	0.43	0.00	0.00
7714	20A	ZSW CEM	11/14/90	0.788	0.00	0.01	0.00	0.00
7714	20A	ZLT MT2	10/09/90	0.596	0.00	0.32	0.00	0.00
7714	20A	ZY2 MT2	10/26/90	0.922	0.00	0.02	0.00	0.88
7715	20A	ZVG CEM	10/30/90	0.981	0.00	0.32	0.00	0.00
7715	20A	ZSX CEM	11/14/90	0.742	0.00	0.02	0.00	0.00
7715	20A	ZLU MT2	10/09/90	0.587	0.00	0.32	0.00	0.00
7715	20A	ZY2 MT2	10/26/90	0.922	0.00	0.01	0.00	0.07
7716	20A	ZVG CEM	10/30/90	0.981	0.00	0.32	0.00	0.00
7716	20A	ZSX CEM	11/14/90	0.742	0.00	0.01	0.00	0.00
7716	20A	ZLU MT2	10/09/90	0.587	0.00	0.32	0.00	0.00
7716	20A	ZY3 MT2	10/26/90	0.914	0.00	0.06	0.00	4.36
7717	20A	ZVH CEM	10/30/90	1.023	0.00	0.32	0.00	0.00
7717	20A	ZSY CEM	11/14/90	0.783	0.00	0.00	0.00	0.00
7717	20A	ZLV MT2	10/09/90	0.646	0.00	0.32	0.00	0.00
7717	20A	ZY3 MT2	10/26/90	0.914	0.00	0.01	0.00	0.76
7718	20A	ZVH CEM	10/30/90	1.023	0.00	2.72	0.00	0.00
7718	20A	ZVA MT2	10/26/90	0.835	0.00	10.00	0.00	1.43
7718	20A	ZWK CEM	11/20/90	0.840	0.00	6.53	0.00	2.76
7719	20A	ZVI CEM	10/30/90	0.984	0.00	0.72	0.00	0.00
7719	20A	ZLW MT2	10/09/90	0.697	0.00	4.90	0.00	6.43
7720	20A	ZVI CEM	10/30/90	0.984	0.00	0.32	0.00	0.00
7720	20A	ZSY CEM	11/14/90	0.783	0.00	0.01	0.00	0.00
7720	20A	ZLW MT2	10/09/90	0.697	0.00	0.32	0.00	0.00
7720	20A	ZVA MT2	10/26/90	0.835	0.00	0.01	0.00	0.00
7721	20A	ZVJ CEM	10/30/90	1.044	0.00	0.32	0.00	0.00
7721	20A	ZSZ CEM	11/14/90	0.791	0.00	0.02	0.00	0.00
7721	20A	ZLX MT2	10/09/90	0.759	0.00	0.32	0.00	0.00
7721	20A	ZY5 MT2	10/26/90	0.774	0.00	0.02	0.00	0.00
7722	20A	ZVJ CEM	10/30/90	1.044	0.00	0.68	0.00	0.00
7722	20A	ZLX MT2	10/09/90	0.759	7.69	15.30	1.99	13.44
7723	20A	ZVK CEM	10/30/90	0.939	0.00	0.32	0.00	0.00
7723	20A	ZSZ CEM	11/14/90	0.791	0.00	0.04	0.00	0.00

Cumulative Summary (cont'd)

AVE	SHIP	PLI	Cell	Test	Diff.	IC	TC	SI	TAI
NO.	NAME	#	LINE	DATE	INTL.	50	25		
7723	20A	2LY	MT2	10/09/90	0.768	0.00	< 0.32	0.00	0.00
7723	20A	2V5	MT2	10/26/90	0.774	0.00	< 0.18	0.00	0.00
7724	20A	2V6	CEM	10/30/90	0.939	0.00	< 0.32	0.00	0.00
7724	20A	360	CEM	11/14/90	0.757	0.00	< 0.15	0.00	0.00
7724	20A	2LY	MT2	10/09/90	0.768	0.00	< 0.51	0.00	> 0.30
7724	20A	2V6	MT2	10/26/90	0.822	0.00	< 0.51	0.00	> 7.21
7725	20A	2V1	CEM	10/30/90	1.048	0.00	< 0.32	0.00	0.00
7725	20A	360	CEM	11/14/90	0.757	0.00	< 0.02	0.00	0.00
7725	20A	2L2	MT2	10/09/90	0.716	0.00	< 0.32	0.00	0.00
7725	20A	2V6	MT2	10/26/90	0.822	0.00	< 0.07	0.00	7.09
7726	20A	2V1	CEM	10/30/90	1.048	0.00	< 0.32	0.00	0.00
7726	20A	361	CEM	11/14/90	0.644	0.00	< 0.01	0.00	> 0.03
7726	20A	2L2	MT2	10/09/90	0.716	0.00	< 0.32	0.00	0.00
7726	20A	2V7	MT2	10/26/90	0.897	0.00	< 0.19	0.00	7.67
7727	20A	2V8	CEM	10/30/90	0.943	0.00	< 0.32	0.00	0.00
7727	20A	361	CEM	11/14/90	0.644	0.00	< 0.05	0.00	0.00
7727	20A	2V0	MT2	10/09/90	0.920	0.00	< 0.32	0.00	0.00
7727	20A	2V7	MT2	10/26/90	0.897	0.00	< 0.44	0.00	0.00
7728	20A	2V8	CEM	10/30/90	0.943	0.00	< 3.70	0.00	> 1.21
7728	20A	2V0	MT2	10/09/90	0.920	0.00	< 4.92	0.00	0.00
7729	20A	2V8	CEM	10/30/90	0.967	0.00	< 20.50	0.00	> 0.53
7729	20A	2M1	MT2	10/09/90	0.824	0.00	< 22.80	0.00	0.00
7730	20A	2V8	CEM	10/30/90	0.967	0.00	< 3.77	0.00	> 0.40
7730	20A	2M1	MT2	10/09/90	0.824	0.00	< 1.57	0.00	0.00
7731	20A	2V0	CEM	10/30/90	0.929	0.00	< 4.29	0.00	> 0.18
7731	20A	2M2	MT2	10/09/90	0.670	0.00	< 3.46	0.00	0.00
7732	20A	2V0	CEM	10/30/90	0.929	0.00	< 66.00	0.00	> 0.81
7732	20A	2M2	MT2	10/09/90	0.670	72.23	> 100.00	> 1.38	> 3.92
7733	20A	2V9	CEM	10/30/90	0.935	0.00	< 22.40	0.00	0.00
7733	20A	2M3	MT2	10/09/90	0.672	0.00	< 14.80	0.00	0.00
7734	20A	2V9	CEM	10/30/90	0.935	0.00	< 37.00	0.00	3.26
7734	20A	2M3	MT2	10/09/90	0.672	9.55	< 42.70	4.47	11.87
7735	20A	2V9	CEM	10/30/90	0.921	0.00	> 100.00	0.00	0.00
7735	20A	2M4	MT2	10/09/90	0.748	0.00	> 100.00	0.00	0.98
7736	20A	2V0	CEM	10/30/90	0.921	0.00	> 100.00	0.00	0.00
7736	20A	2M4	MT2	10/09/90	0.748	0.00	> 100.00	0.00	> 0.40
7737	20A	2V8	CEM	10/30/90	0.898	0.00	< 18.50	0.00	0.00
7737	20A	2M5	MT2	10/09/90	0.742	0.00	< 15.70	0.00	> 4.73
7738	20A	2V8	CEM	10/30/90	0.898	0.00	< 1.56	0.00	0.00
7738	20A	2M5	MT2	10/09/90	0.742	0.00	< 2.31	0.00	> 3.68
7739	20A	2V5	CEM	10/30/90	1.003	0.00	< 0.48	0.00	> 0.06
7739	20A	362	CEM	11/14/90	0.798	0.00	< 0.03	0.00	> 0.07
7739	20A	2M6	MT2	10/09/90	0.720	0.00	< 0.46	0.00	0.00
7739	20A	2V5	MT2	10/26/90	0.863	0.01	< 0.03	0.00	0.00
7740	20A	2V5	CEM	10/30/90	1.003	0.00	< 15.50	0.00	> 8.16
7740	20A	2M6	MT2	10/09/90	0.720	64.70	> 100.00	> 1.55	> 7.34
7741	20A	2V7	CEM	10/30/90	1.000	0.00	< 6.51	0.00	> 4.67
7741	20A	2M7	MT2	10/09/90	0.665	13.50	< 54.40	4.03	23.41
7741	20A	2V8	MT2	10/26/90	0.863	7.94	< 25.70	3.23	19.41
7742	20A	2V7	CEM	10/30/90	1.000	0.00	< 69.80	0.00	> 7.17
7742	20A	2M7	MT2	10/09/90	0.665	59.40	> 100.00	> 1.68	> 11.33
7743	20A	2V0	CEM	10/30/90	0.779	0.00	< 0.04	0.00	1.25
7743	20A	2M7	MT2	10/10/90	1.073	0.00	< 0.32	0.00	0.00
7743	20A	2V7	MT2	10/26/90	0.801	0.00	< 0.02	0.00	> 0.83
7743	20A	361	MT2	11/20/90	0.808	0.00	< 0.02	0.00	> 1.33
7744	20A	2V0	CEM	10/30/90	0.779	0.00	< 0.57	0.00	> 0.97
7744	20A	2M8	MT2	10/10/90	1.101	0.00	< 0.32	0.00	0.00
7744	20A	2V7	MT2	10/26/90	0.801	0.00	< 0.05	0.00	> 0.20
7744	20A	361	MT2	11/20/90	0.904	< 0.303	< 0.95	> 206.78	> 19.94
7745	20A	2V4	CEM	10/30/90	0.958	0.00	< 21.70	0.00	0.00
7745	20A	2M8	MT2	10/10/90	1.101	0.00	< 3.20	0.00	0.01
7746	20A	2LY	CEM	10/30/90	0.958	0.00	< 3.57	0.00	0.00
7746	20A	2M9	MT2	10/10/90	1.059	0.00	< 0.32	0.00	0.00
7747	20A	2V4	CEM	10/30/90	1.030	0.00	< 12.80	0.00	0.00
7747	20A	2M9	MT2	10/10/90	1.059	0.00	< 0.23	0.00	0.00
7748	20A	2V4	CEM	10/30/90	1.030	0.00	< 87.60	0.00	0.00
7748	20A	2M9	MT2	10/10/90	1.074	0.00	< 0.21	0.00	> 4.00
7749	20A	2V4	CEM	10/30/90	0.793	0.00	< 0.04	0.00	0.00
7749	20A	2M9	MT2	10/10/90	1.074	0.00	< 0.32	0.00	0.00
7749	20A	2L2	MT2	10/26/90	0.863	0.00	< 0.01	0.00	> 0.53
7749	20A	361	MT2	11/20/90	0.808	0.00	< 0.02	0.00	> 0.20
7750	20A	2V4	CEM	10/30/90	0.793	0.00	< 0.02	0.00	0.00
7750	20A	2M0	MT2	10/10/90	1.201	0.00	< 0.32	0.00	0.00
7750	20A	2L2	MT2	10/26/90	0.863	0.00	< 0.03	0.00	0.06
7751	20A	2V7	CEM	10/30/90	0.801	0.00	> 100.00	0.00	0.00
7751	20A	2M0	MT2	10/10/90	1.201	0.00	< 1.06	0.00	> 0.08
7752	20A	2V7	CEM	10/30/90	0.801	0.00	> 100.00	0.00	0.00
7752	20A	2M7	MT2	10/10/90	1.210	0.00	< 0.23	0.00	0.80

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
7753	20A	2V2	CEN	10/30/90	0.919	0.00	3.46	0.00	0.00
7753	20A	2V1	MT2	10/10/90	1.210	0.73	0.26	0.35	4.10
7754	20A	2V2	CEN	10/30/90	0.919	0.00	1.73	0.00	0.00
7754	20A	2V2	MT2	10/10/90	0.970	0.00	0.32	0.00	0.00
7755	20A	2V0	CEN	10/30/90	0.970	0.00	1.55	0.00	0.00
7755	20A	2V2	MT2	10/10/90	0.970	0.00	0.32	0.00	0.00
7756	20A	2V0	CEN	10/30/90	0.970	0.00	100.00	0.00	0.00
7756	20A	2V0	MT2	10/10/90	0.962	0.00	0.26	0.00	0.00
7757	20A	2V1	CEN	10/30/90	1.034	0.00	5.70	0.00	0.60
7757	20A	2V0	MT2	10/10/90	0.967	0.00	0.30	0.00	0.00
7758	20A	2V1	CEN	10/30/90	1.034	0.00	4.67	0.00	0.00
7758	20A	2V1	MT2	10/10/90	1.042	0.00	0.32	0.00	0.00
7759	20A	2V2	CEN	10/30/90	0.896	0.00	2.67	0.00	0.00
7759	20A	2V1	MT2	10/10/90	1.042	0.00	0.32	0.00	0.00
7760	20A	2V2	CEN	10/30/90	0.896	0.00	5.18	0.00	0.00
7760	20A	2V2	MT2	10/10/90	1.089	0.00	1.34	0.00	0.37
7761	20A	2V3	CEN	10/30/90	0.890	0.00	20.20	0.00	0.00
7761	20A	2V2	MT2	10/10/90	1.089	7.06	15.50	2.20	10.09
7761	20A	2V0	MT2	10/26/90	0.918	0.00	1.00	0.00	3.45
7762	20A	2V3	CEN	10/30/90	0.890	0.00	100.00	0.00	0.00
7762	20A	2V3	MT2	10/10/90	1.007	0.00	100.00	0.00	7.78
7763	20A	2V4	CEN	10/30/90	0.925	0.00	100.00	0.00	0.00
7763	20A	2V3	MT2	10/10/90	1.007	0.00	100.00	0.00	1.67
7764	20A	2V4	CEN	10/30/90	0.925	0.00	15.80	0.00	0.00
7764	20A	2V4	MT2	10/10/90	0.990	0.00	4.45	0.00	0.75
7765	20A	2V5	CEN	10/30/90	0.916	0.00	100.00	0.00	4.81
7765	20A	2V4	MT2	10/10/90	0.990	0.00	54.10	0.00	9.66
7766	20A	2V5	MT2	10/10/90	1.180	0.00	100.00	0.00	4.11
7767	20A	2V6	CEN	10/30/90	0.710	0.00	100.00	0.00	0.00
7767	20A	2V5	MT2	10/10/90	1.180	0.43	100.00	159.87	9.73
7768	20A	2V6	MT2	10/10/90	1.173	74.70	100.00	1.34	5.83
7769	20A	2V7	CEN	10/30/90	0.846	0.00	100.00	0.00	5.81
7769	20A	2V6	MT2	10/10/90	1.173	0.00	100.00	0.00	13.29
7770	20A	2V7	MT2	10/10/90	1.003	0.00	100.00	0.00	12.67
7771	20A	2V8	CEN	10/30/90	0.858	0.00	100.00	0.00	1.51
7771	20A	2V7	MT2	10/10/90	1.003	0.00	100.00	0.00	2.43
7772	20A	2V8	CEN	10/30/90	0.858	0.00	15.10	0.00	0.00
7772	20A	2V8	MT2	10/10/90	1.072	0.00	4.97	0.00	0.87
7773	20A	2V9	CEN	10/30/90	0.901	0.00	1.93	0.00	0.10
7773	20A	2V8	MT2	10/10/90	1.072	0.00	1.43	0.00	1.30
7774	20A	2V9	CEN	10/30/90	0.901	0.00	100.00	0.00	0.81
7774	20A	2V9	MT2	10/10/90	1.076	1.75	100.00	57.22	36.93
7774	20A	3V6	MT2	11/20/90	0.540	0.00	0.14	0.00	0.00
7775	20A	2V9	CEN	10/30/90	0.859	0.00	4.90	0.00	2.18
7775	20A	2V9	MT2	10/10/90	1.076	0.00	1.24	0.00	4.85
7776	20A	2V8	CEN	10/30/90	0.859	0.00	0.00	0.00	0.00
7776	20A	3V2	CEN	11/14/90	0.798	0.00	0.00	0.00	0.00
7776	20A	2V8	MT2	10/10/90	0.926	0.00	0.32	0.00	0.00
7777	20A	2V8	CEN	10/30/90	0.952	0.00	10.00	0.00	0.93
7777	20A	2V8	MT2	10/10/90	0.926	0.00	0.57	0.00	1.18
7778	20A	2V8	CEN	10/30/90	0.752	0.00	35.40	0.00	11.41
7778	20A	2V8	MT2	10/10/90	1.166	0.32	1.75	5.47	5.17
7779	20A	2V8	CEN	10/30/90	0.939	0.00	25.20	0.00	5.52
7779	20A	2V8	MT2	10/10/90	1.166	0.00	10.00	0.00	17.68
7780	20A	2V0	CEN	10/31/90	1.010	0.00	100.00	0.00	5.70
7780	20A	2V1	MT2	10/30/90	1.187	0.00	100.00	0.00	3.99
7781	20A	2V0	CEN	10/31/90	1.010	0.00	7.80	0.00	0.67
7781	20A	2V0	MT2	10/11/90	0.945	0.00	6.24	0.00	5.67
7782	20A	2V0	CEN	10/31/90	1.046	0.00	100.00	0.00	1.48
7782	20A	2V1	MT2	10/11/90	0.661	0.00	100.00	0.00	0.60
7783	20A	2V0	CEN	10/31/90	1.046	0.00	100.00	0.00	4.81
7783	20A	2V1	MT2	10/11/90	0.661	0.00	100.00	0.00	0.00
7784	20A	2V0	CEN	10/31/90	1.013	0.00	100.00	0.00	0.00
7784	20A	2V2	MT2	10/11/90	0.909	0.00	100.00	0.00	12.98
7785	20A	2V0	CEN	10/31/90	1.013	0.00	100.00	0.00	1.60
7785	20A	2V2	MT2	10/11/90	0.909	0.00	100.00	0.00	16.62
7786	20A	2V0	CEN	10/31/90	1.060	0.00	50.30	0.00	1.85
7786	20A	2V1	MT2	10/30/90	1.187	0.00	14.00	0.00	0.15
7787	20A	2V0	CEN	10/31/90	1.060	19.00	53.00	2.79	16.86
7787	20A	3V3	CEN	11/14/90	0.576	9.29	2.83	0.30	29.69
7787	20A	2V3	MT2	10/11/90	1.005	0.00	50.90	0.00	16.81
7788	20A	2V8	CEN	10/31/90	1.265	0.00	37.20	0.00	0.00
7788	20A	2V4	MT2	10/11/90	0.599	0.00	50.30	0.00	7.73
7789	20A	2V8	CEN	10/31/90	1.265	0.00	5.95	0.00	1.41
7789	20A	2V4	MT2	10/11/90	0.599	0.00	2.76	0.00	0.11
7790	20A	2V1	CEN	10/31/90	1.148	0.00	100.00	0.00	3.40
7790	20A	2V0	MT2	10/30/90	1.182	0.00	100.00	0.00	0.71
7791	20A	2V1	CEN	10/31/90	1.148	0.00	72.00	0.00	1.18

Cumulative Summary (cont'd)

Age No.	Drift-ment	Pic Cell # Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI	
7791	20A	206	NT2	10/11/90	0.826	0.00	> 100.00	0.00	0.00
7792	20A	20U	CEM	10/31/90	1.133	0.00	15.80	0.00	8.64
7792	20A	206	NT2	10/11/90	0.831	0.00	17.00	0.00	15.12
7793	20A	20U	CEM	10/31/90	1.133	0.00	> 100.00	0.00	6.09
7793	20A	206	NT2	10/11/90	0.831	0.00	> 100.00	0.00	5.74
7794	20A	20V	CEM	10/31/90	1.153	0.00	21.00	0.00	0.59
7794	22A	31Q	CEM	11/02/90	1.081	0.00	7.57	0.00	0.00
7794	20A	207	NT2	10/11/90	0.975	0.00	> 100.00	0.00	5.27
7795	20A	20V	CEM	10/31/90	1.153	0.00	49.00	0.00	0.00
7795	20A	207	NT2	10/11/90	0.975	0.00	49.50	0.00	8.23
7796	20A	20V	CEM	10/31/90	1.170	0.00	> 100.00	0.00	0.00
7796	20A	208	NT2	10/11/90	0.720	0.00	0.16	0.00	7.01
7797	20A	20V	CEM	10/31/90	1.170	0.00	> 100.00	0.00	1.11
7797	20A	208	NT2	10/11/90	0.720	0.00	28.90	0.00	0.26
7798	20A	20X	CEM	10/31/90	1.181	0.00	17.40	0.00	0.00
7798	20A	20J	NT2	10/30/90	1.224	0.00	4.52	0.00	0.71
7799	20A	20X	CEM	10/31/90	1.181	0.00	5.11	0.00	0.00
7799	20A	209	NT2	10/11/90	0.451	0.00	8.68	0.00	6.67
7800	20A	20Y	CEM	10/31/90	1.163	0.00	> 100.00	0.00	0.00
7800	20A	20A	NT2	10/11/90	0.510	0.00	> 100.00	0.00	4.61
7801	20A	20Y	CEM	10/31/90	1.163	0.00	47.50	0.00	2.29
7801	20A	20A	NT2	10/11/90	0.510	5.78	42.20	7.32	25.85
7801	20A	20J	NT2	10/30/90	1.224	0.00	12.60	0.00	3.07
7802	20A	20Z	CEM	10/31/90	1.095	0.00	> 100.00	0.00	0.00
7802	20A	20B	NT2	10/11/90	0.841	0.00	> 100.00	0.00	19.64
7803	20A	20Z	CEM	10/31/90	1.095	0.00	> 100.00	0.00	0.60
7803	20A	20B	NT2	10/11/90	0.841	0.00	> 100.00	0.00	1.79
7804	20A	210	CEM	10/31/90	1.118	0.00	> 100.00	0.00	0.00
7804	20A	20C	NT2	10/11/90	0.708	0.00	> 100.00	0.00	0.78
7805	20A	210	CEM	10/31/90	1.118	0.00	> 100.00	0.00	1.12
7805	20A	20C	NT2	10/11/90	0.708	0.00	> 100.00	0.00	0.78
7806	20A	211	CEM	10/31/90	1.132	0.00	> 100.00	0.00	3.51
7806	20A	20D	NT2	10/11/90	0.868	0.00	> 100.00	0.00	13.62
7807	20A	211	CEM	10/31/90	1.132	0.00	0.97	0.00	0.19
7807	20A	363	CEM	11/14/90	0.575	0.00	0.15	0.00	0.00
7807	20A	20D	NT2	10/11/90	0.868	0.00	1.31	0.00	3.59
7808	20A	212	CEM	10/31/90	1.192	0.00	> 100.00	0.00	0.00
7808	20A	20E	NT2	10/11/90	0.795	0.00	> 100.00	0.00	7.58
7809	20A	212	CEM	10/31/90	1.192	0.00	> 100.00	0.00	0.00
7809	20A	20E	NT2	10/11/90	0.795	0.00	> 100.00	0.00	19.66
7810	20A	213	CEM	10/31/90	0.849	0.00	> 100.00	0.00	8.80
7810	20A	20F	NT2	10/11/90	0.904	0.00	> 100.00	0.00	14.55
7811	20A	213	CEM	10/31/90	0.849	0.00	32.00	0.00	7.24
7811	20A	20K	NT2	10/30/90	1.187	0.00	5.25	0.00	0.00
7812	20A	214	CEM	10/31/90	1.028	0.00	18.50	0.00	0.87
7812	20A	20G	NT2	10/11/90	0.323	0.00	17.10	0.00	0.00
7813	20A	214	CEM	10/31/90	1.028	0.00	49.00	0.00	3.51
7813	20A	20G	NT2	10/11/90	0.323	0.00	50.50	0.00	0.00
7814	20A	215	CEM	10/31/90	0.961	0.00	39.50	0.00	5.44
7814	20A	20H	NT2	10/11/90	0.820	0.00	25.70	0.00	0.20
7815	20A	215	CEM	10/31/90	0.961	0.00	11.10	0.00	7.54
7815	20A	20H	NT2	10/11/90	0.820	0.00	10.00	0.00	4.05
7816	20A	216	CEM	10/31/90	1.162	0.00	17.40	0.00	3.32
7816	20A	20I	NT2	10/11/90	0.892	0.32	46.90	146.58	19.39
7817	20A	216	CEM	10/31/90	1.162	0.00	49.00	0.00	4.81
7817	20A	20I	NT2	10/11/90	0.892	5.16	> 100.00	19.38	54.17
7817	20A	20K	NT2	10/30/90	1.187	0.00	15.70	0.00	0.02
7818	20A	217	CEM	10/31/90	0.987	0.00	17.20	0.00	0.00
7818	20A	20J	NT2	10/12/90	0.922	0.00	15.60	0.00	0.00
7819	20A	217	CEM	10/31/90	0.987	0.00	92.70	0.00	8.82
7819	20A	20J	NT2	10/12/90	0.922	0.00	56.60	0.00	0.00
7820	20A	218	CEM	10/31/90	0.928	0.00	54.40	0.00	0.00
7820	20A	20L	NT2	10/12/90	0.873	7.51	33.00	4.22	18.24
7821	20A	218	CEM	10/31/90	0.928	0.00	12.80	0.00	0.00
7821	20A	20L	NT2	10/12/90	0.873	0.00	0.00	0.00	2.39
7822	20A	219	CEM	10/31/90	1.070	0.00	0.00	0.00	0.00
7822	20A	20M	NT2	10/12/90	0.921	0.00	0.00	0.00	4.75
7823	20A	219	CEM	10/31/90	1.070	0.00	> 100.00	0.00	0.00
7823	20A	20M	NT2	10/12/90	0.921	0.00	> 100.00	0.00	4.07
7824	20A	21A	CEM	10/31/90	1.077	0.00	6.67	0.00	0.00
7824	20A	20A	NT2	10/12/90	1.011	0.43	7.51	17.50	29.60
7824	20A	20L	NT2	10/30/90	1.236	0.00	14.10	0.00	0.24
7825	20A	21A	CEM	10/31/90	1.057	0.00	> 100.00	0.00	3.34
7825	20A	20A	NT2	10/12/90	1.017	78.60	> 100.00	1.27	8.71
7826	20A	21B	CEM	10/31/90	0.943	0.00	18.70	0.00	2.83
7826	20A	20F	NT2	10/12/90	1.012	0.00	> 100.00	0.00	5.15
7827	20A	21B	CEM	10/31/90	0.943	0.00	5.90	0.00	13.28
7827	20A	20F	NT2	10/12/90	1.012	0.00	17.50	0.00	0.47

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Plt Call # Line	Test Date	Diff- mtl.	10 50	70 25	21	Tot.
7828	20A	2YC CEM	10/31/90	1.037	0.00	> 100.00	0.00	0.38
7828	20A	2YC NT2	10/12/90	1.082	0.00	13.40	0.00	0.03
7829	20A	2YC CEM	10/31/90	1.037	0.00	15.80	0.00	1.40
7829	20A	2YC NT2	10/12/90	1.082	0.00	13.00	0.00	12.13
7830	20A	2YD CEM	10/31/90	1.173	0.00	16.80	0.00	0.00
7830	20A	2YD NT2	10/12/90	1.016	0.00	> 100.00	0.00	> 9.65
7831	20A	2YD CEM	10/31/90	1.173	0.00	> 100.00	0.00	0.00
7831	20A	2YD NT2	10/12/90	1.016	0.00	11.10	0.00	0.00
7832	20A	2YE CEM	10/31/90	1.246	0.00	16.80	0.00	0.00
7832	20A	2YE NT2	10/12/90	0.892	0.00	32.90	0.00	2.15
7833	20A	2YE CEM	10/31/90	1.246	0.00	> 100.00	0.00	0.00
7833	20A	2YE NT2	10/12/90	0.892	0.00	1.00	0.00	> 0.50
7834	20A	2YF CEM	10/31/90	1.160	0.00	32.90	0.00	0.00
7834	20A	2YF NT2	10/12/90	0.937	0.00	30.30	0.00	> 3.22
7835	20A	2YF CEM	10/31/90	1.160	0.00	5.64	0.00	0.12
7835	20A	2XL NT2	10/30/90	1.236	0.00	18.50	0.00	0.00
7836	20A	2YG CEM	10/31/90	1.133	0.00	22.20	0.00	0.00
7836	20A	2YG NT2	10/12/90	1.083	0.00	1.81	0.00	0.00
7837	20A	2YG CEM	10/31/90	1.133	0.00	67.20	0.00	0.00
7837	20A	2YG NT2	10/12/90	1.083	0.00	34.60	0.00	4.72
7838	20A	2YH CEM	10/31/90	1.135	0.00	11.20	0.00	0.00
7838	20A	2YH NT2	10/12/90	1.074	0.00	1.70	0.00	> 2.41
7839	20A	2YH CEM	10/31/90	1.135	9.58	> 100.00	> 10.44	> 36.88
7839	20A	36A CEM	11/14/90	0.713	3.20	605.00	> 188.95	> 65.08
7839	20A	2YH NT2	10/12/90	1.074	0.32	68.60	> 214.42	> 62.28
7839	20A	20M NT2	10/30/90	1.182	2.17	> 100.00	> 46.05	> 63.36
7840	20A	2ZY CEM	11/01/90	1.148	0.00	14.10	0.00	1.55
7840	20A	2Z1 NT2	10/12/90	0.942	0.00	40.00	0.00	5.40
7841	20A	2ZY CEM	11/01/90	1.148	0.00	54.20	0.00	0.30
7841	20A	2Z1 NT2	10/12/90	0.942	0.00	43.90	0.00	0.12
7842	20A	2ZZ CEM	11/01/90	1.077	0.00	12.40	0.00	0.00
7842	20A	2ZJ NT2	10/12/90	0.926	0.00	5.78	0.00	0.00
7844	20A	2ZZ CEM	11/01/90	1.077	0.00	15.70	0.00	3.02
7844	20A	2ZJ NT2	10/12/90	0.926	19.60	49.50	2.53	15.81
7844	20A	36E NT2	11/20/90	0.843	0.00	> 100.00	0.00	> 14.40
7845	20A	300 CEM	11/01/90	1.171	0.00	5.11	0.00	0.05
7845	20A	2PK NT2	10/12/90	0.992	0.00	16.60	0.00	> 0.22
7846	20A	300 CEM	11/01/90	1.171	0.00	> 100.00	0.00	0.00
7846	20A	2PK NT2	10/12/90	0.992	0.00	0.68	0.00	0.00
7846	20A	36E NT2	11/20/90	0.843	0.00	> 10.00	0.00	> 7.54
7847	20A	301 CEM	11/01/90	1.137	0.00	37.80	0.00	0.91
7847	20A	2P1 NT2	10/12/90	0.917	0.00	2.05	0.00	1.94
7848	20A	301 CEM	11/01/90	1.137	0.00	29.70	0.00	0.60
7848	20A	2P1 NT2	10/12/90	0.917	30.00	> 100.00	> 3.34	> 19.04
7848	20A	36F NT2	11/20/90	0.905	0.00	20.80	0.00	> 1.33
7849	20A	302 CEM	11/01/90	1.181	0.00	0.49	0.00	0.00
7849	20A	2PM NT2	10/12/90	0.893	0.00	1.07	0.00	> 2.01
7850	20A	302 CEM	11/01/90	1.181	0.00	15.30	0.00	0.00
7850	20A	2PM NT2	10/12/90	0.893	0.00	45.90	0.00	> 4.04
7851	20A	303 CEM	11/01/90	1.147	0.00	> 100.00	0.00	> 1.60
7851	20A	2PM NT2	10/12/90	1.035	0.00	> 100.00	0.00	> 23.90
7852	20A	303 CEM	11/01/90	1.147	0.00	4.90	0.00	> 0.02
7852	20A	2PM NT2	10/12/90	1.035	0.00	4.90	0.00	> 3.99
7853	20A	304 CEM	11/01/90	1.172	0.00	19.50	0.00	0.00
7853	20A	36F NT2	11/20/90	0.905	0.00	> 100.00	0.00	> 11.70
7854	20A	304 CEM	11/01/90	1.172	0.00	0.41	0.00	> 0.13
7854	20A	2P0 NT2	10/12/90	1.060	0.00	0.32	0.00	0.00
7854	20A	36G NT2	11/20/90	0.860	0.00	0.94	0.00	> 0.04
7855	20A	305 CEM	11/01/90	1.168	0.00	15.50	0.00	0.00
7855	20A	2PM NT2	10/12/90	1.101	0.00	8.46	0.00	> 5.43
7856	20A	305 CEM	11/01/90	1.168	0.00	17.40	0.00	> 0.30
7856	20A	36G NT2	11/20/90	0.860	0.00	0.23	0.00	> 1.10
7857	20A	200 NT2	10/17/90	0.561	0.00	17.60	0.00	3.28
7858	20A	200 NT2	10/17/90	0.561	0.00	46.90	0.00	0.00
7859	20A	36X NT2	11/20/90	0.941	0.00	> 100.00	0.00	> 0.73
7860	20A	20P NT2	10/17/90	0.696	5.66	15.50	2.74	14.98
7861	20A	200 NT2	10/17/90	0.579	4.70	> 100.00	2.10	> 14.34
7862	20A	200 NT2	10/17/90	0.579	0.00	15.60	0.00	0.00
7863	20A	200 NT2	10/17/90	0.703	0.00	15.60	0.00	1.31
7864	20A	200 NT2	10/17/90	0.703	0.00	2.49	0.00	0.81
7865	20A	208 NT2	10/17/90	0.569	0.00	21.50	0.00	1.30
7866	20A	208 NT2	10/17/90	0.569	0.00	1.55	0.00	1.99
7867	20A	201 NT2	10/17/90	0.680	0.00	15.30	0.00	0.00
7868	20A	201 NT2	10/17/90	0.680	5.45	49.00	9.00	34.12
7869	20A	20U NT2	10/17/90	0.774	0.00	1.58	0.00	> 2.43
7870	20A	20U NT2	10/17/90	0.774	0.00	0.50	0.00	> 0.12
7871	20A	20Y NT2	10/17/90	0.532	7.14	17.50	2.46	10.59
7872	20A	20Y NT2	10/17/90	0.532	17.90	49.00	2.74	15.08

Cumulative Summary (cont'd)

Avs No.	Ship- ment	Pix Cell & Line	Test Date	diff- ntl.	TC 50	TC 25	SI	TAI	
7873	20A	20W	MT2	10/17/90	0.495	0.00	> 100.00	0.00	0.00
7874	20A	20W	MT2	10/17/90	0.495	17.10	> 49.00	2.86	15.74
7875	20A	20X	MT2	10/17/90	0.719	17.30	> 49.20	2.83	17.13
7876	20A	20Y	MT2	10/17/90	0.719	0.00	> 0.49	0.00	0.00
7877	20A	20Y	MT2	10/17/90	0.785	0.00	> 100.00	0.00	> 8.29
7878	20A	20Y	MT2	10/17/90	0.785	0.00	> 16.30	0.00	> 7.44
7879	20A	20Z	MT2	10/17/90	0.736	0.00	> 100.00	0.00	> 9.00
7880	20A	20Z	MT2	10/17/90	0.736	0.00	> 51.20	0.00	> 6.00
7881	20A	20Z	MT2	10/17/90	0.761	0.00	> 23.80	0.00	> 0.00
7882	20A	20Y	MT2	10/18/90	1.011	0.00	> 4.92	0.00	> 2.01
7882	20A	20S	MT2	10/26/90	0.846	0.00	> 15.50	0.00	> 4.38
7882	20A	36H	MT2	11/20/90	0.941	0.00	> 1.00	0.00	> 5.65
7883	20A	20Y	MT2	10/18/90	1.011	0.00	> 0.32	0.00	> 0.00
7883	20A	20S	MT2	10/26/90	0.846	0.00	> 0.51	0.00	> 0.09
7884	20A	20T	MT2	10/26/90	0.759	0.00	> 100.00	0.00	> 0.51
7885	20A	20T	MT2	10/26/90	0.759	0.00	> 49.00	0.00	> 3.27
7886	20A	20O	MT2	10/18/90	0.824	0.00	> 20.60	0.00	> 8.01
7886	20A	20U	MT2	10/26/90	0.856	0.00	> 49.20	0.00	> 6.49
7887	20A	20U	MT2	10/26/90	0.856	14.70	> 100.00	> 6.79	> 36.27
7888	20A	20I	MT2	10/18/90	0.598	17.00	> 100.00	> 5.89	> 38.78
7888	20A	20V	MT2	10/26/90	0.817	140.00	> 490.00	> 3.50	> 22.68
7889	20A	20V	MT2	10/26/90	0.817	65.10	> 100.00	> 1.54	> 8.62
7890	20A	20Z	MT2	10/18/90	0.835	4.76	> 100.00	> 20.99	> 52.44
7890	20A	20W	MT2	10/26/90	0.877	23.60	> 553.00	> 23.45	> 38.59
7891	19A	28U	CEM	09/04/90	0.818	0.02	> 5.30	> 368.99	> 35.10
7891	19A	29Y	CEM	09/05/90	1.151	0.00	> 2.66	0.00	> 68.02
7891	19A	20V	CEM	09/11/90	0.927	0.05	> 5.62	> 109.72	> 31.05
7891	19A	29S	MT2	09/04/90	1.392	0.05	> 10.00	> 213.19	> 45.70
7891	19A	29V	MT2	09/05/90	1.163	0.00	> 3.25	0.00	> 0.00
7891	19A	29T	MT2	09/05/90	1.316	0.01	> 3.25	> 329.00	> 47.90
7892	74	38F	CEM	11/27/90	1.236	0.00	> 12.20	0.00	> 1.61
7892	74	37Y	MT2	11/27/90	0.867	0.00	> 15.60	0.00	> 9.19
7893	74	38G	CEM	11/27/90	1.090	0.00	> 100.00	0.00	> 0.72
7893	74	37W	MT2	11/27/90	0.673	0.00	> 100.00	0.00	> 17.64
7895	74	38G	CEM	11/27/90	1.090	0.00	> 100.00	0.00	> 3.79
7895	74	37W	MT2	11/27/90	0.673	0.00	> 100.00	0.00	> 13.24
7896	74	38H	CEM	11/27/90	1.173	0.00	> 100.00	0.00	> 0.28
7896	74	37X	MT2	11/27/90	0.904	0.00	> 100.00	0.00	> 5.51
7897	74	38H	CEM	11/27/90	1.173	0.00	> 100.00	0.00	> 2.08
7897	74	37X	MT2	11/27/90	0.904	0.00	> 0.30	0.00	> 10.45
7898	74	32I	CEM	11/27/90	1.127	0.00	> 34.30	0.00	> 0.45
7898	74	37Y	MT2	11/27/90	0.316	0.00	> 55.60	0.00	> 8.44
7899	74	33I	CEM	11/27/90	1.127	0.00	> 78.50	0.00	> 8.48
7899	74	37Y	MT2	11/27/90	0.816	0.00	> 100.00	0.00	> 15.61
7900	74	38J	CEM	11/27/90	1.004	0.00	> 100.00	0.00	> 0.32
7900	74	37Z	MT2	11/27/90	0.811	0.00	> 100.00	0.00	> 11.29
7901	74	38J	CEM	11/27/90	1.004	0.00	> 100.00	0.00	> 1.31
7901	74	37Z	MT2	11/27/90	0.811	0.00	> 100.00	0.00	> 14.91
7902	74	38K	CEM	11/27/90	1.247	0.00	> 3.20	0.00	> 0.04
7902	74	38O	MT2	11/27/90	0.802	0.00	> 100.00	0.00	> 2.50
7903	74	38K	CEM	11/27/90	1.247	0.00	> 100.00	0.00	> 2.46
7903	74	38O	MT2	11/27/90	0.802	0.00	> 100.00	0.00	> 3.20
7904	74	38L	CEM	11/27/90	1.194	0.00	> 49.40	0.00	> 0.84
7905	74	38L	CEM	11/27/90	1.194	78.10	> 100.00	> 1.28	> 15.87
7905	74	38I	MT2	11/27/90	0.627	0.00	> 0.28	0.00	> 0.00
7906	74	38T	CEM	11/27/90	1.112	0.00	> 100.00	0.00	> 1.15
7906	74	389	MT2	11/27/90	0.879	0.00	> 80.20	0.00	> 6.63
7907	74	38H	CEM	11/27/90	1.103	0.00	> 100.00	0.00	> 0.98
7907	74	38Z	MT2	11/27/90	0.674	0.00	> 100.00	0.00	> 18.61
7908	74	38M	CEM	11/27/90	1.103	0.00	> 0.17	0.00	> 0.36
7908	74	38Z	MT2	11/27/90	0.674	0.00	> 70.60	0.00	> 9.92
7909	74	38N	CEM	11/27/90	1.222	0.00	> 100.00	0.00	> 4.04
7909	74	383	MT2	11/27/90	0.730	0.00	> 100.00	0.00	> 13.42
7910	74	38N	CEM	11/27/90	1.222	0.00	> 100.00	0.00	> 3.20
7910	74	383	MT2	11/27/90	0.730	0.00	> 100.00	0.00	> 9.09
7911	74	38O	CEM	11/27/90	0.951	0.00	> 5.40	0.00	> 1.34
7911	74	38A	MT2	11/27/90	0.778	0.00	> 2.90	0.00	> 0.99
7912	74	38O	CEM	11/27/90	0.951	0.00	> 100.00	0.00	> 8.19
7912	74	38A	MT2	11/27/90	0.728	0.00	> 0.15	0.00	> 7.25
7913	74	38P	CEM	11/27/90	1.107	0.00	> 0.22	0.00	> 0.00
7913	74	385	MT2	11/27/90	0.709	0.00	> 100.00	0.00	> 3.56
7914	74	38P	CEM	11/27/90	1.107	0.00	> 100.00	0.00	> 0.00
7914	74	385	MT2	11/27/90	0.709	0.00	> 100.00	0.00	> 2.73
7915	74	38C	CEA	11/27/90	0.954	0.00	> 100.00	0.00	> 2.61
7915	74	386	MT2	11/27/90	0.736	0.00	> 100.00	0.00	> 3.41
7916	74	38W	CEM	11/27/90	0.952	0.00	> 100.00	0.00	> 3.31
7916	74	386	MT2	11/27/90	0.736	0.00	> 100.00	0.00	> 0.20
7917	74	38M	CEM	11/27/90	1.148	0.00	> 0.31	0.00	> 0.07

Cumulative Summary (cont'd)

AVS No.	Ship Name	Pile Cell # Line	Test Date	Diff- mmi.	TC 50	TC 25	SI	TAI	
7917	74	387	MT2	11/27/90	0.734	0.00	> 100.00	0.00	> 10.53
7918	74	388	CEN	11/27/90	1.148	0.00	92.00	0.00	0.02
7918	74	387	MT2	11/27/90	0.734	0.00	> 100.00	0.00	> 8.74
7919	74	388	CEN	11/27/90	1.062	0.00	3.20	0.00	2.57
7919	74	388	MT2	11/27/90	0.742	0.00	> 100.00	0.00	> 14.40
7920	74	388	CEN	11/27/90	1.062	0.00	> 100.00	0.00	> 0.37
7920	74	388	MT2	11/27/90	0.742	0.00	> 100.00	0.00	> 14.43
7921	74	39F	CEN	11/29/90	1.376	0.00	> 100.00	0.00	1.35
7921	74	38V	MT2	11/29/90	1.044	0.00	> 100.00	0.00	0.00
7922	74	39F	CEN	11/29/90	1.376	0.00	> 100.00	0.00	> 16.77
7922	74	3JV	MT2	11/29/90	1.044	0.00	0.14	0.00	0.05
7923	74	39G	CEN	11/29/90	1.385	0.00	> 100.00	0.00	> 7.49
7923	74	38N	MT2	11/29/90	0.982	0.00	44.70	0.00	0.00
7924	74	37C	CEN	11/29/90	1.385	0.00	90.90	0.00	0.00
7924	74	76W	MT2	11/29/90	0.982	0.00	< 0.32	0.00	0.00
7925	74	39N	CEN	11/29/90	1.418	0.00	> 100.00	0.00	> 4.90
7925	74	38X	MT2	11/29/90	1.090	0.00	1.00	0.00	0.00
7926	74	39N	CEN	11/29/90	1.418	0.00	> 100.00	0.00	> 4.40
7926	74	38X	MT2	11/29/90	1.090	0.00	1.00	0.00	0.00
7927	74	39I	CEN	11/29/90	1.462	0.00	66.00	0.00	0.00
7927	74	38Y	MT2	11/29/90	1.001	0.00	41.70	0.00	3.58
7928	74	39I	CEN	11/29/90	1.462	65.60	> 100.00	> 1.53	> 9.00
7929	74	39J	CEN	11/29/90	1.040	0.00	> 100.00	0.00	> 4.36
7929	74	38Z	MT2	11/29/90	1.065	0.00	15.50	0.00	0.00
7930	74	39J	CEN	11/29/90	1.040	16.10	> 100.00	> 6.19	> 58.38
7930	74	39E	CEN	01/04/91	1.397	36.50	> 1000.00	> 27.40	> 56.53
7930	74	38Z	MT2	11/29/90	1.065	0.00	0.20	0.00	1.90
7931	74	39K	CEN	11/29/90	1.401	0.00	2.47	0.00	0.00
7931	74	390	MT2	11/29/90	0.879	0.00	55.00	0.00	> 12.25
7932	74	39K	CEN	11/29/90	1.401	0.00	> 100.00	0.00	> 0.66
7932	74	390	MT2	11/29/90	0.879	0.00	0.20	0.00	0.57
7933	74	39L	CEN	11/29/90	1.244	0.00	19.90	0.00	> 0.26
7933	74	39I	MT2	11/29/90	1.041	0.00	1.06	0.00	> 0.62
7934	74	39L	CEN	11/29/90	1.244	0.00	> 100.00	0.00	1.00
7934	74	39I	MT2	11/29/90	1.041	0.00	0.14	0.00	> 6.09
7935	74	39M	CEN	11/29/90	1.021	0.00	56.60	0.00	0.02
7935	74	392	MT2	11/29/90	0.772	0.00	> 100.00	0.00	> 11.60
7936	74	39M	CEN	11/29/90	1.021	0.00	80.60	0.00	> 13.29
7936	74	392	MT2	11/29/90	0.772	0.00	0.13	0.00	5.33
7937	74	39N	CEN	11/29/90	1.457	0.00	66.00	0.00	1.65
7938	74	39N	CEN	11/29/90	1.357	0.00	25.40	0.00	> 5.22
7939	74	390	CEN	11/29/90	1.301	0.00	> 100.00	0.00	> 0.53
7939	74	394	MT2	11/29/90	0.825	0.00	> 100.00	0.00	5.85
7940	74	390	CEN	11/29/90	1.301	100.00	52.70	0.93	> 3.38
7941	74	39P	CEN	11/29/90	1.148	0.00	> 100.00	0.00	> 6.41
7942	74	39P	CEN	11/29/90	1.148	24.80	49.00	1.97	> 11.73
7942	74	34F	CEN	01/04/91	1.647	0.00	24.10	0.00	2.51
7943	74	39Q	CEN	11/29/90	1.266	0.00	93.80	0.00	0.15
7943	74	396	MT2	11/29/90	1.058	0.00	9.06	0.00	10.98
7944	74	39Q	CEN	11/29/90	1.266	0.00	> 100.00	0.00	> 2.21
7945	74	39R	CEN	11/29/90	1.253	68.60	45.60	0.67	> 3.06
7945	74	34F	CEN	01/04/91	1.647	0.00	427.00	0.00	> 3.30
7946	74	39R	CEN	11/29/90	1.258	0.00	10.00	0.00	0.00
7946	74	397	MT2	11/29/90	0.951	0.00	0.22	0.00	0.44
7947	74	39S	CEN	11/29/90	0.993	70.60	95.00	1.35	> 11.89
7947	74	396	CEN	01/04/91	1.366	65.00	695.00	10.69	> 28.25
7948	74	39S	CEN	11/29/90	0.993	0.00	> 100.00	0.00	> 2.08
7949	74	39T	CEN	11/29/90	0.965	0.00	> 100.00	0.00	> 9.92
7950	74	39T	CEN	11/29/90	0.865	0.00	> 100.00	0.00	3.41
7951	74	39U	CEN	11/29/90	1.179	0.00	> 100.00	0.00	> 5.13
7952	74	39U	CEN	11/29/90	1.179	49.90	> 100.00	> 2.00	> 21.05
7952	74	34S	CEN	01/04/91	1.366	0.00	385.00	0.00	> 5.94
7953	74	39V	CEN	11/29/90	1.202	0.00	2.27	0.00	0.00
7954	74	39M	CEN	01/04/91	1.376	87.10	16.00	0.18	> 10.55
7954	74	40W	CEN	02/20/91	0.714	5.85	0.08	0.01	> 42.01
7955	74	39V	CEN	11/29/90	1.242	0.00	82.00	0.00	> 2.72
7956	74	39V	CEN	11/29/90	1.242	0.00	> 100.00	0.00	0.00
7957	74	39K	CEN	11/29/90	1.240	0.00	27.60	0.00	0.00
7958	74	39K	CEN	11/29/90	1.240	0.00	> 100.00	0.00	0.00
7959	74	34E	CEN	11/30/90	1.140	0.00	92.40	0.00	0.00
7959	74	3A2	MT2	11/30/90	1.105	0.00	100.00	0.00	3.26
7960	74	34F	CEN	11/30/90	1.231	4.81	44.50	9.26	> 26.75
7960	74	34M	CEN	01/04/91	1.376	3.78	13.60	3.60	> 21.81
7961	74	34F	CEN	11/30/90	1.231	17.00	44.70	2.63	> 23.43
7961	74	34I	CEN	01/04/91	1.397	6.73	20.40	3.03	> 15.69
7962	74	34G	CEN	11/30/90	1.211	1.78	17.80	10.01	> 31.42
7962	74	34I	CEN	01/04/91	1.397	1.78	10.60	2.35	> 15.56
7962	74	344	MT2	11/30/90	0.955	0.00	0.56	0.14	> 17.29

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ntl.	IC 50	TC 25	SI	TAI
7963	74	34G	CEM	11/30/90	1.211	4.81	39.10	8.13	29.23
7963	74	34J	CEM	01/04/91	1.277	6.14	12.75	2.07	12.29
7963	74	34A	NT2	11/30/90	0.993	20.10	0.15	0.01	1.61
7964	74	34M	CEM	11/30/90	1.357	0.00	47.50	0.00	0.00
7964	74	34S	NT2	11/30/90	0.912	0.00	21.70	0.00	7.77
7965	74	34H	CEM	11/30/90	1.357	0.00	> 100.00	0.00	0.00
7965	74	34S	NT2	11/30/90	0.912	0.00	0.14	0.00	> 5.79
7966	74	34I	CEM	11/30/90	1.301	0.00	> 100.00	0.00	> 0.04
7966	74	34A	NT2	11/30/90	1.001	0.00	95.50	0.00	1.56
7967	74	34I	CEM	11/30/90	1.301	0.00	51.80	0.00	1.62
7967	74	34A	NT2	11/30/90	1.001	0.00	0.20	0.00	0.03
7968	74	34J	CEM	11/30/90	1.332	0.00	> 100.00	0.00	> 3.81
7968	74	347	NT2	11/30/90	1.018	0.00	44.00	0.00	2.97
7969	74	34J	CEM	11/30/90	1.332	0.00	> 100.00	0.00	> 4.77
7969	74	347	NT2	11/30/90	1.018	0.00	0.19	0.00	8.39
7970	74	34K	CEM	11/30/90	1.293	0.00	> 100.00	0.00	> 0.08
7970	74	34B	NT2	11/30/90	1.072	0.00	49.30	0.00	4.70
7971	74	34K	CEM	11/30/90	1.293	0.00	22.80	0.00	0.00
7971	74	34B	NT2	11/30/90	1.072	29.50	0.14	0.00	> 11.00
7972	74	34L	CEM	11/30/90	1.307	0.00	14.90	0.00	0.00
7972	74	349	NT2	11/30/90	0.767	0.00	49.50	0.00	4.67
7973	74	35M	CEM	11/14/90	0.650	1.89	0.10	0.06	31.88
7973	74	34J	CEM	01/04/91	1.277	< 0.32	< 1.62	> 5.05	> 22.00
7973	74	359	NT2	11/14/90	0.760	< 0.00	< 0.32	> 0.00	> 0.00
7974	74	35H	CEM	11/14/90	0.650	< 0.32	> 100.00	> 312.50	> 93.94
7974	74	359	NT2	11/14/90	0.760	< 0.32	> 100.00	> 312.50	> 93.14
7975	74	35H	CEM	11/14/90	0.724	< 0.32	> 14.70	> -6.08	> 42.71
7975	74	35A	NT2	11/14/90	0.750	< 0.37	> 4.90	> 13.17	> 36.09
7976	74	35H	CEM	11/14/90	0.724	< 0.32	> 100.00	> 312.50	> 90.40
7976	74	35A	NT2	11/14/90	0.750	< 0.32	> 49.50	> 154.77	> 77.10
7977	74	350	CEM	11/14/90	0.805	< 0.32	> 1.00	> 3.13	> 20.56
7977	74	35B	NT2	11/14/90	0.794	< 93.50	> 100.00	> 1.07	> 2.38
7978	74	350	CEM	11/14/90	0.805	< 0.00	> 100.00	> 0.00	> 6.21
7978	74	35B	NT2	11/14/90	0.794	< 0.32	> 1.59	> 4.95	> 24.66
7979	74	35C	NT2	11/14/90	0.721	< 0.59	> 49.00	> 82.91	> 60.16
7980	74	34K	CEM	01/04/91	1.477	2.36	12.20	5.17	13.48
7980	74	35C	NT2	11/14/90	0.721	< 0.00	< 0.61	> 0.00	> 0.00
7981	74	350	CEM	11/14/90	0.630	< 0.32	> 23.40	> 73.17	> 68.80
7981	74	350	NT2	11/14/90	0.714	< 0.32	> 4.59	> 14.35	> 40.76
7982	74	350	NT2	11/14/90	0.714	< 0.32	> 1.55	> 4.84	> 19.47
7983	74	35R	CEM	11/14/90	0.577	< 3.74	> 100.00	> 26.71	> 64.72
7983	74	35E	NT2	11/14/90	0.670	< 1.24	> 49.20	> 39.54	> 56.17
7984	74	35R	CEM	11/14/90	0.577	< 42.20	> 100.00	> 2.37	> 21.08
7984	74	35E	NT2	11/14/90	0.670	< 0.00	< 55.00	> 0.00	> 1.00
7985	74	35E	CEM	11/14/90	0.683	< 0.00	> 100.00	> 0.00	> 2.38
7985	74	35F	NT2	11/14/90	0.711	< 0.00	> 100.00	> 0.00	> 0.00
7986	74	35E	CEM	11/14/90	0.683	< 0.00	> 100.00	> 0.00	> 0.00
7986	74	35F	NT2	11/14/90	0.711	< 0.00	> 100.00	> 0.00	> 0.00
7987	74	35T	CEM	11/14/90	0.675	< 20.40	> 100.00	> 4.91	> 17.55
7987	74	35G	NT2	11/14/90	0.690	< 27.60	> 47.40	> 1.72	> 6.41
7988	74	35T	CEM	11/14/90	0.675	< 13.60	> 100.00	> 7.35	> 28.90
7988	74	35G	NT2	11/14/90	0.690	< 0.00	> 49.00	> 0.00	> 4.95
7989	74	35U	CEM	11/14/90	0.722	< 4.41	> 71.70	> 16.26	> 41.04
7989	74	35H	NT2	11/14/90	0.743	< 11.30	> 39.30	> 3.47	> 18.03
7990	74	35H	NT2	11/14/90	0.743	< 0.00	< 0.32	> 0.00	> 0.00
7991	74	35V	CEM	11/14/90	0.742	< 0.32	> 1.68	> 5.24	> 25.60
7992	74	35V	CEM	11/14/90	0.742	< 0.00	> 96.40	> 0.00	> 0.53
7993	22A	310	CEM	11/02/90	1.081	< 0.00	> 100.00	> 0.00	> 0.12
7993	22A	32A	NT2	11/02/90	1.114	< 0.00	> 100.00	> 0.00	> 0.00
7994	22A	32A	NT2	11/01/90	1.114	< 0.00	> 7.67	> 0.00	> 0.00
7995	22A	31R	CEM	11/02/90	1.048	< 0.00	> 12.60	> 0.00	> 3.11
7995	22A	32B	NT2	11/02/90	1.263	< 0.00	> 5.94	> 0.00	> 0.00
7996	22A	31R	CEM	11/02/90	1.048	< 0.00	> 49.00	> 0.00	> 12.39
7996	22A	32B	NT2	11/02/90	1.263	< 0.00	> 49.00	> 0.00	> 0.23
7997	22A	31S	CEM	11/02/90	1.047	< 0.00	> 6.16	> 0.00	> 0.10
7997	22A	32C	NT2	11/02/90	1.272	< 0.00	> 5.47	> 0.00	> 0.10
7998	22A	31S	CEM	11/02/90	1.047	< 0.00	> 10.00	> 0.00	> 0.00
7998	22A	32C	NT2	11/02/90	1.272	< 0.00	> 5.38	> 0.00	> 0.22
7999	22A	31T	CEM	11/02/90	1.074	< 0.00	> 100.00	> 0.00	> 3.70
7999	22A	32D	NT2	11/02/90	1.246	< 0.00	> 4.97	> 0.00	> 0.00
8000	22A	31T	CEM	11/02/90	1.074	< 0.00	> 2.03	> 0.00	> 0.00
8000	22A	32D	NT2	11/02/90	1.246	< 0.00	> 100.00	> 0.00	> 0.00
8001	22A	31U	CEM	11/02/90	1.025	< 0.00	> 22.10	> 0.00	> 0.00
8001	22A	32E	NT2	11/02/90	1.251	< 0.00	> 17.00	> 0.00	> 0.00
8002	22A	31U	CEM	11/02/90	1.025	< 0.00	> 7.53	> 0.00	> 0.00
8002	22A	32E	NT2	11/02/90	1.251	< 0.00	> 6.74	> 0.00	> 0.00
8003	22A	31V	CEM	11/02/90	0.975	< 0.00	> 12.80	> 0.00	> 1.13
8003	22A	32F	NT2	11/02/90	1.267	< 0.00	> 5.09	> 0.00	> 0.00

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-mtl.	IC 50	TC 25	SI	TAI
7917	74	387	MT2	11/27/90	0.734	0.00	> 100.00	0.00	> 18.53
7918	74	388	CEM	11/27/90	1.148	0.00	92.00	0.00	0.02
7918	74	387	MT2	11/27/90	0.734	0.00	> 100.00	0.00	> 8.74
7919	74	388	CEM	11/27/90	1.062	0.00	3.20	0.00	2.37
7919	74	388	MT2	11/27/90	0.742	0.00	> 100.00	0.00	> 14.40
7920	74	388	CEM	11/27/90	1.062	0.00	> 100.00	0.00	> 0.37
7920	74	388	MT2	11/27/90	0.742	0.00	> 100.00	0.00	> 14.43
7921	74	39F	CEM	11/29/90	1.376	0.00	> 100.00	0.00	1.35
7921	74	38V	MT2	11/29/90	1.044	0.00	> 100.00	0.00	0.00
7922	74	39F	CEM	11/29/90	1.376	0.00	> 100.00	0.00	> 16.77
7922	74	38V	MT2	11/29/90	1.044	0.00	0.14	0.00	0.05
7923	74	39G	CEM	11/29/90	1.385	0.00	> 100.00	0.00	> 7.49
7923	74	38W	MT2	11/29/90	0.982	0.00	44.70	0.00	0.00
7924	74	39G	CEM	11/29/90	1.385	0.00	90.90	0.00	0.00
7924	74	38W	MT2	11/29/90	0.982	0.00	< 0.32	0.00	0.00
7925	74	39H	CEM	11/29/90	1.418	0.00	> 100.00	0.00	> 4.90
7925	74	38X	MT2	11/29/90	1.090	0.00	1.00	0.00	0.00
7926	74	39H	CEM	11/29/90	1.418	0.00	> 100.00	0.00	> 4.40
7926	74	38X	MT2	11/29/90	1.090	0.00	1.00	0.00	0.00
7927	74	39I	CEM	11/29/90	1.462	0.00	66.00	0.00	0.00
7927	74	38Y	MT2	11/29/90	1.001	0.00	41.70	0.00	3.58
7928	74	39I	CEM	11/29/90	1.462	65.60	> 100.00	> 1.53	> 9.00
7929	74	39J	CEM	11/29/90	1.040	0.00	> 100.00	0.00	> 4.34
7929	74	36Z	MT2	11/29/90	1.065	0.00	15.50	0.00	0.00
7930	74	39J	CEM	11/29/90	1.040	16.10	> 100.00	> 4.19	> 38.38
7930	74	3HE	CEM	01/04/91	1.397	36.50	> 1000.0	> 27.40	> 54.53
7931	74	38Z	MT2	11/29/90	1.065	0.00	0.20	0.00	1.90
7931	74	39K	CEM	11/29/90	1.401	0.00	2.47	0.00	0.00
7931	74	39O	MT2	11/29/90	0.879	0.00	59.00	0.00	> 12.25
7932	74	39K	CEM	11/29/90	1.401	0.00	> 100.00	0.00	> 0.66
7932	74	39O	MT2	11/29/90	0.879	0.00	0.20	0.00	0.57
7933	74	39L	CEM	11/29/90	1.244	0.00	19.90	0.00	> 0.26
7933	74	39I	MT2	11/29/90	1.041	0.00	1.06	0.00	0.62
7934	74	39L	CEM	11/29/90	1.244	0.00	> 100.00	0.00	1.00
7934	74	39I	MT2	11/29/90	1.041	0.00	0.14	0.00	> 6.09
7935	74	39M	CEM	11/29/90	1.021	0.00	56.60	0.00	0.02
7935	74	39Z	MT2	11/29/90	0.772	0.00	> 100.00	0.00	> 11.00
7936	74	39M	CEM	11/29/90	1.021	0.00	80.50	0.00	> 13.29
7936	74	39Z	MT2	11/29/90	0.772	0.00	0.13	0.00	5.33
7937	74	39N	CEM	11/29/90	1.357	0.00	66.00	0.00	1.65
7938	74	39N	CEM	11/29/90	1.357	0.00	25.60	0.00	> 5.22
7939	74	39O	CEM	11/29/90	1.301	0.00	> 100.00	0.00	> 0.53
7939	74	39A	MT2	11/29/90	0.825	0.00	> 100.00	0.00	> 5.85
7940	74	39O	CEM	11/29/90	1.301	100.00	92.70	0.93	> 3.38
7941	74	39P	CEM	11/29/90	1.148	0.00	> 100.00	0.00	> 6.41
7942	74	39P	CEM	11/29/90	1.148	24.50	49.50	1.97	> 11.73
7942	74	3HF	CEM	01/04/91	1.447	0.00	24.10	0.00	2.51
7943	74	39Q	CEM	11/29/90	1.366	0.00	93.80	0.00	0.15
7943	74	396	MT2	11/29/90	1.058	0.00	9.06	0.00	10.98
7944	74	39Q	CEM	11/29/90	1.366	0.00	> 100.00	0.00	> 2.21
7945	74	39R	CEM	11/29/90	1.258	68.40	45.60	0.67	> 3.06
7945	74	34F	CEM	01/04/91	1.447	0.00	427.00	0.00	> 3.30
7946	74	39R	CEM	11/29/90	1.258	0.00	10.00	0.00	0.00
7946	74	397	MT2	11/29/90	0.951	0.00	0.22	0.00	0.44
7947	74	398	CEM	11/29/90	0.993	70.40	95.00	1.35	> 11.89
7947	74	34G	CEM	01/04/91	1.366	65.00	695.00	10.69	> 28.25
7948	74	398	CEM	11/29/90	0.993	0.00	> 100.00	0.00	> 2.08
7949	74	39T	CEM	11/29/90	0.965	0.00	> 100.00	0.00	> 9.62
7950	74	39T	CEM	11/29/90	0.965	0.00	> 100.00	0.00	> 3.41
7951	74	39U	CEM	11/29/90	1.179	0.00	> 100.00	0.00	> 5.03
7952	74	39U	CEM	11/29/90	1.179	49.90	> 100.00	> 2.00	> 21.05
7952	74	34G	CEM	01/04/91	1.366	0.00	385.00	0.00	> 5.94
7953	74	39V	CEM	11/29/90	1.202	0.00	2.27	0.00	0.50
7954	74	39H	CEM	01/04/91	1.376	57.00	16.00	0.18	> 10.55
7954	74	6CW	CEM	02/20/91	0.714	5.89	0.08	0.01	> 42.01
7955	74	39V	CEM	11/29/90	1.242	0.00	82.00	0.00	> 2.72
7956	74	39W	CEM	11/29/90	1.242	0.00	> 100.00	0.00	0.00
7957	74	39X	CEM	11/29/90	1.240	0.00	27.60	0.00	0.00
7958	74	39X	CEM	11/29/90	1.240	0.00	> 100.00	0.00	0.00
7959	74	34E	CEM	11/30/90	1.140	0.00	92.40	0.00	0.00
7959	74	34Z	MT2	11/30/90	1.105	0.00	100.00	0.00	3.26
7960	74	34F	CEM	11/30/90	1.231	4.81	44.50	9.26	> 26.75
7960	74	34H	CEM	01/04/91	1.376	3.78	13.60	3.60	> 21.81
7961	74	34F	CEM	11/30/90	1.231	17.00	44.70	2.63	> 23.43
7961	74	34I	CEM	01/04/91	1.397	6.73	20.40	3.03	> 15.69
7962	74	34G	CEM	11/30/90	1.211	1.78	17.80	10.01	> 31.42
7962	74	34I	CEM	01/04/91	1.397	4.81	10.80	2.35	> 15.56
7962	74	344	MT2	11/30/90	0.953	3.98	0.56	0.16	> 17.29

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- rntl.	IC 50	TC 25	BI	TAI
8004	22A	31V	CEN	11/02/90	0.975	0.00	16.10	0.00	7.20
8004	22A	32F	MT2	11/02/90	1.267	0.00	14.90	0.00	0.00
8005	22A	31W	CEN	11/02/90	0.931	0.00	100.00	0.00	2.44
8005	22A	32G	MT2	11/02/90	1.261	0.00	73.80	0.00	0.00
8006	22A	31W	CEN	11/02/90	0.931	0.00	14.70	0.00	0.23
8006	22A	32G	MT2	11/02/90	1.261	0.00	15.60	0.00	0.00
8007	22A	31X	CEN	11/02/90	0.974	0.00	5.14	0.00	8.98
8007	22A	32H	MT2	11/02/90	1.271	0.00	1.56	0.00	0.10
8008	22A	31X	CEN	11/02/90	0.974	0.00	19.90	0.00	7.68
8008	22A	32H	MT2	11/02/90	1.271	0.00	49.00	0.00	0.06
8009	22A	31Y	CEN	11/02/90	0.934	0.00	68.60	0.00	0.13
8009	22A	32I	MT2	11/02/90	1.265	0.00	42.50	0.00	0.00
8010	22A	31Y	CEN	11/02/90	0.934	0.00	0.45	0.00	0.00
8010	22A	36A	CEN	11/14/90	0.713	0.00	0.02	0.00	0.00
8010	22A	32I	MT2	11/02/90	1.265	0.00	0.32	0.00	0.00
8010	22A	35J	MT2	11/14/90	0.718	0.00	0.05	0.00	0.00
8011	22A	31Z	CEN	11/02/90	1.033	0.00	9.03	0.00	3.12
8011	22A	32J	MT2	11/02/90	1.252	0.00	5.90	0.00	0.58
8012	22A	31Z	CEN	11/02/90	1.033	0.00	62.90	0.00	11.18
8012	22A	32J	MT2	11/02/90	1.252	0.00	19.80	0.00	0.00
8013	22A	32O	CEN	11/02/90	0.895	0.00	16.00	0.00	3.82
8013	22A	32K	MT2	11/02/90	1.188	0.00	10.00	0.00	0.00
8014	22A	32O	CEN	11/02/90	0.895	0.00	5.09	0.00	2.76
8014	22A	32K	MT2	11/02/90	1.188	0.00	3.55	0.00	0.00
8015	22A	32I	CEN	11/02/90	0.871	0.00	9.06	0.00	0.85
8015	22A	32L	MT2	11/02/90	1.210	0.00	4.33	0.00	0.00
8016	22A	32I	CEN	11/02/90	0.871	0.00	16.60	0.00	4.27
8016	22A	32L	MT2	11/02/90	1.210	0.00	16.20	0.00	0.00
8017	22A	322	CEN	11/02/90	0.967	0.00	8.64	0.00	0.03
8017	22A	32M	MT2	11/02/90	1.295	0.00	3.76	0.00	0.02
8018	22A	322	CEN	11/02/90	0.967	0.00	47.60	0.00	0.00
8018	22A	32M	MT2	11/02/90	1.295	0.00	16.60	0.00	0.03
8019	22A	323	CEN	11/02/90	1.049	0.00	49.00	0.00	3.64
8019	22A	32N	MT2	11/02/90	1.245	0.00	15.90	0.00	0.00
8020	22A	323	CEN	11/02/90	1.049	0.00	90.60	0.00	4.16
8020	22A	32N	MT2	11/02/90	1.245	0.00	100.00	0.00	0.00
8021	22A	324	CEN	11/02/90	1.027	0.00	51.90	0.00	0.38
8021	22A	32O	MT2	11/02/90	1.294	0.00	49.20	0.00	0.12
8022	22A	324	CEN	11/02/90	1.027	0.00	1.44	0.00	0.89
8022	22A	32O	MT2	11/02/90	1.294	0.00	1.46	0.00	0.00
8023	22A	325	CEN	11/02/90	0.986	0.00	80.90	0.00	13.26
8023	22A	32P	MT2	11/02/90	1.249	0.00	55.30	0.00	0.00
8024	22A	325	CEN	11/02/90	0.986	0.00	100.00	0.00	8.93
8024	22A	32P	MT2	11/02/90	1.249	0.00	100.00	0.00	0.30
8025	22A	326	CEN	11/02/90	1.009	0.00	4.90	0.00	5.94
8025	22A	32Q	MT2	11/02/90	1.243	0.00	1.67	0.00	0.00
8026	22A	326	CEN	11/02/90	1.009	0.00	4.19	0.00	4.66
8026	22A	32Q	MT2	11/02/90	1.243	0.00	1.61	0.00	0.41
8027	22A	327	CEN	11/02/90	1.034	0.00	15.40	0.00	6.22
8027	22A	32R	MT2	11/02/90	1.237	0.00	16.70	0.00	0.00
8028	22A	327	CEN	11/02/90	1.034	0.00	22.20	0.00	4.12
8028	22A	32R	MT2	11/02/90	1.237	0.00	15.70	0.00	0.00
8029	22A	328	CEN	11/02/90	1.030	0.00	100.00	0.00	6.11
8029	22A	32S	MT2	11/02/90	1.223	0.00	16.10	0.00	0.52
8030	22A	328	CEN	11/02/90	1.030	0.00	4.67	0.00	0.33
8030	22A	32S	MT2	11/02/90	1.223	0.00	0.87	0.00	0.00
8031	22A	2WY	CEN	11/06/90	0.971	0.00	4.75	0.00	0.35
8031	22A	2WE	MT2	11/06/90	1.234	0.00	5.18	0.00	0.00
8032	22A	2WY	CEN	11/06/90	0.971	0.00	43.30	0.00	1.37
8032	22A	2WE	MT2	11/06/90	1.234	0.00	49.00	0.00	0.30
8033	22A	2WZ	CEN	11/06/90	1.131	0.00	24.70	0.00	0.00
8033	22A	2WF	MT2	11/06/90	1.255	0.00	92.70	0.00	0.10
8034	22A	2WZ	CEN	11/06/90	1.131	0.00	71.70	0.00	4.90
8034	22A	2WF	MT2	11/06/90	1.255	0.00	86.80	0.00	1.63
8035	22A	2X0	CEN	11/06/90	1.104	0.00	45.40	0.00	0.98
8035	22A	2WG	MT2	11/06/90	1.242	0.00	53.50	0.00	0.00
8036	22A	2X0	CEN	11/06/90	1.104	0.00	67.30	0.00	1.10
8036	22A	2WG	MT2	11/06/90	1.242	0.00	58.60	0.00	0.30
8037	22A	2X1	CEN	11/06/90	1.051	0.00	32.00	0.00	2.20
8037	22A	2WM	MT2	11/06/90	1.283	0.00	29.00	0.00	0.00
8038	22A	2X1	CEN	11/06/90	1.051	0.00	3.82	0.00	1.64
8038	22A	2WM	MT2	11/06/90	1.283	0.00	49.00	0.00	0.00
8039	22A	2X2	CEN	11/06/90	1.148	0.00	51.10	0.00	2.71
8039	22A	36Z	CEN	11/20/90	1.007	0.00	100.00	0.00	1.70
8039	22A	2W1	MT2	11/06/90	1.232	0.00	50.10	0.00	0.00
8040	22A	2X2	CEN	11/06/90	1.148	0.00	190.00	0.00	4.70
8040	22A	2W1	MT2	11/06/90	1.232	0.00	100.00	0.00	0.52
8041	22A	2X3	CEN	11/06/90	1.014	73.40	24.40	0.33	8.86

Cumulative Summary (cont'd)

AVS No.	Ship- ment	91t Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAC	
8041	22A	2XII	CEM	11/20/90	0.817	8.41	> 100.00	11.29	42.14
8041	22A	2XJ	MT2	11/06/90	1.281	5.38	15.60	2.89	16.26
8041	22A	267	MT2	11/20/90	0.849	4.22	17.10	4.04	32.28
8042	22A	2X3	CEM	11/06/90	1.019	0.00	> 100.00	0.00	4.87
8042	22A	2XJ	MT2	11/06/90	1.281	0.00	> 100.00	0.00	8.54
8043	22A	2X4	CEM	11/06/90	1.149	0.00	15.00	0.00	8.08
8043	22A	2XK	MT2	11/06/90	1.158	0.00	69.00	0.00	0.10
8044	22A	2X4	CEM	11/06/90	1.149	0.00	42.20	0.00	3.25
8044	22A	2XK	MT2	11/06/90	1.158	0.00	> 100.00	0.00	1.53
8045	22A	2X5	CEM	11/06/90	0.925	0.00	23.50	0.00	2.72
8045	22A	2XL	MT2	11/06/90	1.246	0.00	20.80	0.00	0.60
8046	22A	2X5	CEM	11/06/90	0.925	0.00	> 100.00	0.00	4.04
8046	22A	2XL	MT2	11/06/90	1.246	0.00	> 100.00	0.00	1.80
8047	22A	2X6	CEM	11/06/90	1.034	0.00	16.60	0.00	0.00
8047	22A	2XM	MT2	11/06/90	1.267	0.00	45.70	0.00	0.40
8048	22A	2X6	CEM	11/06/90	1.034	0.00	67.10	0.00	0.18
8048	22A	2XM	MT2	11/06/90	1.267	0.00	> 100.00	0.00	0.69
8049	22A	2X7	CEM	11/06/90	1.081	0.00	37.40	0.00	0.00
8049	22A	2XM	MT2	11/06/90	1.258	0.00	> 100.00	0.00	1.60
8050	22A	2X7	CEM	11/06/90	1.081	0.00	100.00	0.00	0.19
8050	22A	2XM	MT2	11/06/90	1.258	0.00	> 100.00	0.00	1.08
8051	22A	2X8	CEM	11/06/90	1.172	0.00	44.50	0.00	8.21
8051	22A	2XO	MT2	11/06/90	1.241	0.00	17.10	0.00	0.61
8052	22A	2X8	CEM	11/06/90	1.172	0.00	43.30	0.00	1.13
8052	22A	2XO	MT2	11/06/90	1.241	0.00	49.20	0.00	0.00
8053	22A	2X9	CEM	11/06/90	1.026	0.00	63.70	0.00	3.68
8053	22A	2XP	MT2	11/06/90	1.266	0.00	> 100.00	0.00	1.42
8054	22A	2X9	CEM	11/06/90	1.026	0.00	> 100.00	0.00	17.84
8054	22A	2XP	MT2	11/06/90	1.266	0.00	> 100.00	0.00	0.85
8055	22A	2XA	CEM	11/06/90	1.115	0.00	1.73	0.00	1.36
8055	22A	2XQ	MT2	11/06/90	1.240	0.00	4.95	0.00	0.10
8056	22A	2XA	CEM	11/06/90	1.115	0.00	> 100.00	0.00	6.90
8056	22A	2XQ	MT2	11/06/90	1.240	0.00	> 100.00	0.00	0.08
8057	22A	2X8	CEM	11/06/90	1.106	0.00	> 100.00	0.00	2.86
8057	22A	2XR	MT2	11/06/90	1.279	0.00	> 100.00	0.00	3.90
8058	22A	2X8	CEM	11/06/90	1.106	0.00	> 100.00	0.00	0.30
8058	22A	2XR	MT2	11/06/90	1.279	0.00	> 100.00	0.00	1.29
8059	22A	2XC	CEM	11/06/90	1.259	0.00	> 100.00	0.00	0.00
8059	22A	2X8	MT2	11/06/90	1.184	0.00	> 100.00	0.00	0.70
8060	22A	2XC	CEM	11/06/90	1.259	0.00	> 100.00	0.00	5.75
8060	22A	2X8	MT2	11/06/90	1.184	0.00	> 100.00	0.00	0.78
8061	22A	2XD	CEM	11/06/90	1.240	0.00	73.80	0.00	0.49
8061	22A	2XT	MT2	11/06/90	1.203	0.00	> 100.00	0.00	0.55
8062	22A	2XD	CEM	11/06/90	1.240	0.00	> 100.00	0.00	0.03
8062	22A	2XT	MT2	11/06/90	1.203	0.00	> 100.00	0.00	0.00
8063	22A	2XE	CEM	11/06/90	1.156	0.00	> 100.00	0.00	1.36
8063	22A	2XU	MT2	11/06/90	1.187	0.00	> 100.00	0.00	0.80
8064	22A	2XE	CEM	11/06/90	1.156	0.00	32.90	0.00	3.66
8064	22A	2XU	MT2	11/06/90	1.187	0.00	47.40	0.00	0.10
8065	22A	2XF	CEM	11/06/90	1.254	0.00	> 100.00	0.00	5.78
8065	22A	2XV	MT2	11/06/90	1.033	0.00	> 100.00	0.00	1.50
8066	22A	2XF	CEM	11/06/90	1.254	0.00	> 100.00	0.00	6.45
8066	22A	2XV	MT2	11/06/90	1.033	0.00	> 100.00	0.00	2.50
8067	22A	2XG	CEM	11/06/90	1.155	0.00	14.10	0.00	6.50
8067	22A	2XW	MT2	11/06/90	1.196	0.00	12.70	0.00	1.58
8068	22A	2XG	CEM	11/06/90	1.155	0.00	> 100.00	0.00	3.93
8068	22A	2XW	MT2	11/06/90	1.196	0.00	> 100.00	0.00	1.75
8069	22A	2Z4	CEM	11/07/90	1.249	0.00	11.70	0.00	0.00
8069	22A	2YJ	MT2	11/07/90	1.202	0.00	17.10	0.00	0.80
8070	22A	2Z4	CEM	11/07/90	1.249	0.00	> 100.00	0.00	0.00
8070	22A	2YJ	MT2	11/07/90	1.202	0.00	> 100.00	0.00	1.40
8071	22A	2Z5	CEM	11/07/90	1.360	0.00	> 100.00	0.00	0.00
8071	22A	2YK	MT2	11/07/90	1.230	0.00	> 100.00	0.00	1.10
8072	22A	2Z5	CEM	11/07/90	1.360	0.00	> 100.00	0.00	0.00
8072	22A	2YK	MT2	11/07/90	1.230	0.00	> 100.00	0.00	1.10
8073	22A	2Z6	CEM	11/07/90	1.102	0.00	> 100.00	0.00	0.40
8073	22A	2YL	MT2	11/07/90	1.230	0.00	> 100.00	0.00	1.10
8074	22A	2Z6	CEM	11/07/90	1.102	0.00	> 100.00	0.00	0.00
8074	22A	2YL	MT2	11/07/90	1.230	0.00	> 100.00	0.00	1.22
8075	22A	2Z7	CEM	11/07/90	1.403	0.00	27.90	0.00	0.00
8075	22A	2YM	MT2	11/07/90	1.253	0.00	49.90	0.00	2.62
8076	22A	2Z7	CEM	11/07/90	1.403	0.00	90.30	0.00	1.47
8076	22A	2YM	MT2	11/07/90	1.253	0.00	> 100.00	0.00	1.61
8077	22A	2Z8	CEM	11/07/90	1.198	0.00	60.80	0.00	0.12
8077	22A	2YH	MT2	11/07/90	1.206	0.00	> 100.00	0.00	1.89
8078	22A	2Z8	CEM	11/07/90	1.198	0.00	> 100.00	0.00	8.04
8078	22A	2YH	MT2	11/07/90	1.206	0.00	> 100.00	0.00	0.18
8079	22A	2Z9	CEM	11/07/90	1.086	0.00	45.90	0.00	0.00

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Plt Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
8079	22A	ZYO MT2	11/07/90	1.213	0.00	3.06	0.00	0.00
8080	22A	ZZ9 CEM	11/07/90	1.086	0.00	48.60	0.00	0.00
8080	22A	ZYO MT2	11/07/90	1.213	0.00	100.00	0.00	10.33
8081	22A	ZZA CEM	11/07/90	1.128	0.00	100.00	0.00	0.00
8081	22A	ZYP MT2	11/07/90	1.229	0.00	100.00	0.00	0.05
8082	22A	ZZA CEM	11/07/90	1.128	0.00	100.00	0.00	0.00
8082	22A	ZYP MT2	11/07/90	1.229	0.00	100.00	0.00	0.00
8083	22A	ZZ8 CEM	11/07/90	1.322	0.00	47.10	0.00	0.00
8083	22A	ZYO MT2	11/07/90	1.182	0.00	54.40	0.00	0.58
8084	22A	ZZ8 CEM	11/07/90	1.322	0.00	95.00	0.00	3.00
8084	22A	ZYO MT2	11/07/90	1.182	0.00	100.00	0.00	2.33
8085	22A	ZZC CEM	11/07/90	1.286	0.00	76.20	0.00	0.05
8085	22A	ZYR MT2	11/07/90	1.239	0.00	100.00	0.00	1.10
8086	22A	ZZC CEM	11/07/90	1.286	0.00	8.68	0.00	0.00
8086	22A	ZYR MT2	11/07/90	1.239	0.00	9.50	0.00	0.00
8087	22A	ZZD CEM	11/07/90	1.332	0.00	88.20	0.00	0.00
8087	22A	ZY8 MT2	11/07/90	1.202	0.00	24.50	0.00	0.64
8088	22A	ZZD CEM	11/07/90	1.332	0.00	0.30	0.00	0.00
8088	22A	ZY8 MT2	11/07/90	1.202	0.00	47.80	0.00	0.00
8089	22A	ZZE CEM	11/07/90	1.251	0.00	66.00	0.00	0.00
8089	22A	ZYT MT2	11/07/90	1.207	0.00	100.00	0.00	0.02
8090	22A	ZZE CEM	11/07/90	1.251	0.00	50.50	0.00	0.00
8090	22A	ZYT MT2	11/07/90	1.207	0.00	51.80	0.00	0.50
8091	22A	ZZF CEM	11/07/90	1.242	0.00	15.00	0.00	0.00
8091	22A	ZYU MT2	11/07/90	1.215	0.00	5.14	0.00	0.00
8092	22A	ZZF CEM	11/07/90	1.242	0.00	51.90	0.00	0.00
8092	22A	ZYU MT2	11/07/90	1.215	0.00	41.80	0.00	0.00
8093	22A	ZZG CEM	11/07/90	1.323	0.00	69.10	0.00	0.00
8093	22A	ZYV MT2	11/07/90	1.168	0.00	100.00	0.00	0.32
8094	22A	ZZG CEM	11/07/90	1.323	0.00	100.00	0.00	0.00
8094	22A	ZYV MT2	11/07/90	1.168	0.00	100.00	0.00	0.00
8095	22A	ZZH CEM	11/07/90	1.346	0.00	54.70	0.00	0.00
8095	22A	ZYW MT2	11/07/90	1.158	0.00	100.00	0.00	1.63
8096	22A	ZZH CEM	11/07/90	1.346	0.00	100.00	0.00	0.00
8096	22A	ZYW MT2	11/07/90	1.158	0.00	100.00	0.00	0.00
8097	22A	ZZI CEM	11/07/90	1.378	0.00	51.70	0.00	0.00
8097	22A	ZYX MT2	11/07/90	1.125	0.00	21.00	0.00	0.00
8098	22A	ZZI CEM	11/07/90	1.378	0.00	5.79	0.00	0.41
8098	22A	ZYX MT2	11/07/90	1.125	0.00	43.30	0.00	0.00
8099	22A	ZZJ CEM	11/07/90	1.271	0.00	100.00	0.00	0.00
8099	22A	ZYY MT2	11/07/90	1.168	0.00	100.00	0.00	1.25
8100	22A	ZZJ CEM	11/07/90	1.271	0.00	100.00	0.00	0.00
8100	22A	ZYY MT2	11/07/90	1.168	0.00	100.00	0.00	0.31
8101	22A	ZZK CEM	11/07/90	1.230	0.00	0.28	0.00	0.00
8101	22A	ZY2 MT2	11/07/90	1.150	0.00	100.00	0.00	0.60
8102	22A	ZZK CEM	11/07/90	1.230	0.00	85.10	0.00	0.00
8102	22A	ZY2 MT2	11/07/90	1.150	0.00	19.60	0.00	0.00
8103	22A	ZZL CEM	11/07/90	1.345	0.00	100.00	0.00	0.00
8103	22A	ZZD MT2	11/07/90	1.038	0.00	100.00	0.00	0.15
8104	22A	ZZL CEM	11/07/90	1.345	0.00	100.00	0.00	1.35
8104	22A	ZZD MT2	11/07/90	1.038	0.00	100.00	0.00	0.00
8105	22A	ZZM CEM	11/07/90	1.233	0.00	4.20	0.00	0.00
8105	22A	ZZ1 MT2	11/07/90	1.150	0.00	6.82	0.00	0.00
8106	22A	ZZM CEM	11/07/90	1.233	0.00	4.69	0.00	0.00
8106	22A	ZZ1 MT2	11/07/90	1.150	0.00	4.85	0.00	0.00
8107	22A	313 CEM	11/08/90	1.218	0.00	20.40	0.00	0.00
8107	22A	301 MT2	11/08/90	1.110	0.00	100.00	0.00	0.60
8108	22A	313 CEM	11/08/90	1.218	0.00	6.32	0.00	0.00
8108	22A	301 MT2	11/08/90	1.110	0.00	11.10	0.00	0.30
8109	22A	314 CEM	11/08/90	1.095	0.00	16.50	0.00	1.54
8109	22A	30J MT2	11/08/90	1.095	0.00	15.60	0.00	0.30
8110	22A	314 CEM	11/08/90	1.095	0.00	100.00	0.00	2.45
8110	22A	30J MT2	11/08/90	1.095	0.00	100.00	0.00	2.50
8111	22A	315 CEM	11/08/90	1.309	0.00	49.00	0.00	0.00
8111	22A	30K MT2	11/08/90	1.089	0.00	100.00	0.00	0.00
8112	22A	315 CEM	11/08/90	1.309	0.00	10.80	0.00	0.00
8112	22A	30K MT2	11/08/90	1.089	0.00	49.90	0.00	0.21
8113	22A	316 CEM	11/08/90	1.290	0.00	15.80	0.00	0.07
8113	22A	30L MT2	11/08/90	1.083	0.00	49.00	0.00	0.81
8114	22A	316 CEM	11/08/90	1.290	0.00	100.00	0.00	0.80
8114	22A	30L MT2	11/08/90	1.083	0.00	100.00	0.00	0.00
8115	22A	317 CEM	11/08/90	1.229	0.00	100.00	0.00	1.50
8115	22A	30M MT2	11/08/90	1.190	0.00	100.00	0.00	1.00
8116	22A	317 CEM	11/08/90	1.229	0.00	49.30	0.00	1.00
8116	22A	30M MT2	11/08/90	1.190	0.00	51.80	0.00	0.72
8117	22A	318 CEM	11/08/90	1.416	0.00	24.70	0.00	0.00
8117	22A	30N MT2	11/08/90	1.198	0.00	51.10	0.00	0.10
8118	22A	318 CEM	11/08/90	1.416	0.00	11.30	0.00	0.00

Cumulative Summary (Cont'd)

AVS No.	Ship-ment	Pit #	Cell Line	Test Date	Diff-mtl.	IC 50	TC 25	SI	TAI
8118	Z2A	30M	MT2	11/08/90	1.198	0.00	15.60	0.00	0.48
8119	Z2A	319	CEN	11/08/90	1.126	0.00	15.30	0.00	0.43
8119	Z2A	300	MT2	11/08/90	1.145	0.00	10.30	0.00	0.31
8120	Z2A	319	CEN	11/08/90	1.126	0.00	19.70	0.00	0.60
8120	Z2A	300	MT2	11/08/90	1.145	0.00	55.00	0.00	0.00
8121	Z2A	31A	CEN	11/08/90	1.266	0.00	100.00	0.00	0.40
8121	Z2A	30P	MT2	11/08/90	1.165	0.00	100.00	0.00	0.80
8122	Z2A	31A	CEN	11/08/90	1.266	0.00	27.10	0.00	0.00
8122	Z2A	30P	MT2	11/08/90	1.165	0.00	49.00	0.00	0.00
8123	Z2A	31B	CEN	11/08/90	1.374	0.00	22.10	0.00	0.00
8123	Z2A	30M	MT2	11/08/90	1.159	0.00	49.70	0.00	0.21
8124	Z2A	31B	CEN	11/08/90	1.374	0.00	44.90	0.00	0.00
8124	Z2A	30M	MT2	11/08/90	1.159	0.00	49.30	0.00	0.31
8125	Z2A	31C	CEN	11/08/90	1.412	0.00	12.40	0.00	0.00
8125	Z2A	30R	MT2	11/08/90	1.175	0.00	49.90	0.00	0.00
8126	Z2A	31C	CEN	11/08/90	1.412	0.00	40.50	0.00	0.00
8126	Z2A	30R	MT2	11/08/90	1.175	0.00	50.10	0.00	0.00
8127	Z2A	31D	CEN	11/08/90	1.449	0.00	29.30	0.00	0.00
8127	Z2A	30S	MT2	11/08/90	1.166	0.00	18.70	0.00	0.20
8128	Z2A	31D	CEN	11/08/90	1.449	0.00	19.70	0.00	0.00
8128	Z2A	30S	MT2	11/08/90	1.166	0.00	17.00	0.00	0.00
8129	Z2A	31E	CEN	11/08/90	1.267	0.00	5.89	0.00	0.12
8129	Z2A	30T	MT2	11/08/90	1.171	0.00	5.20	0.00	0.00
8130	Z2A	31E	CEN	11/08/90	1.267	0.00	5.62	0.00	0.00
8130	Z2A	30T	MT2	11/08/90	1.171	0.00	5.56	0.00	0.00
8131	Z2A	31F	CEN	11/08/90	1.116	0.00	48.80	0.00	0.00
8131	Z2A	30U	MT2	11/08/90	1.154	0.00	16.30	0.00	0.31
8132	Z2A	31F	CEN	11/08/90	1.116	0.00	100.00	0.00	0.40
8132	Z2A	30U	MT2	11/08/90	1.154	0.00	100.00	0.00	0.00
8133	Z2A	31G	CEN	11/08/90	1.345	0.00	38.90	0.00	0.00
8133	Z2A	30V	MT2	11/08/90	1.188	0.00	49.90	0.00	0.00
8134	Z2A	31G	CEN	11/08/90	1.345	0.00	5.80	0.00	0.00
8134	Z2A	30V	MT2	11/08/90	1.188	0.00	5.09	0.00	0.30
8135	Z2A	31H	CEN	11/08/90	1.191	0.00	4.22	0.00	0.05
8135	Z2A	30W	MT2	11/08/90	1.191	0.00	5.07	0.00	0.21
8136	Z2A	31H	CEN	11/08/90	1.191	0.00	0.37	0.00	0.00
8136	Z2A	36M	CEN	11/20/90	0.817	0.00	0.53	0.00	0.41
8136	Z2A	30W	MT2	11/08/90	1.191	0.00	0.57	0.00	0.00
8136	Z2A	367	MT2	11/20/90	0.849	0.00	0.55	0.00	11.00
8137	Z2A	31I	CEN	11/08/90	1.396	0.00	49.90	0.00	1.02
8137	Z2A	30X	MT2	11/08/90	1.158	32.00	100.00	3.13	24.48
8137	Z2A	368	MT2	11/20/90	0.865	20.70	157.00	7.57	38.65
8138	Z2A	31I	CEN	11/08/90	1.396	0.00	33.40	0.00	0.00
8138	Z2A	30X	MT2	11/08/90	1.158	0.00	19.30	0.00	0.00
8139	Z2A	31J	CEN	11/08/90	1.294	0.00	1.67	0.00	0.00
8139	Z2A	30Y	MT2	11/08/90	1.185	0.00	4.93	0.00	0.00
8140	Z2A	31J	CEN	11/08/90	1.294	0.00	8.06	0.00	0.00
8140	Z2A	30Y	MT2	11/08/90	1.185	0.00	5.13	0.00	1.05
8141	Z2A	31K	CEN	11/08/90	1.392	0.00	100.00	0.00	4.92
8141	Z2A	30Z	MT2	11/08/90	1.137	52.00	100.00	1.92	12.72
8141	Z2A	368	MT2	11/20/90	0.865	118.00	490.00	4.17	35.91
8142	Z2A	31K	CEN	11/08/90	1.392	0.00	40.90	0.00	0.00
8142	Z2A	30Z	MT2	11/08/90	1.137	0.00	49.20	0.00	0.67
8143	Z2A	31L	CEN	11/08/90	1.194	0.00	100.00	0.00	0.00
8143	Z2A	31O	MT2	11/08/90	1.155	0.00	100.00	0.00	0.00
8144	Z2A	31L	CEN	11/08/90	1.194	0.00	100.00	0.00	0.00
8144	Z2A	31O	MT2	11/08/90	1.155	0.00	100.00	0.00	0.00
8145	Z2A	33E	CEN	11/09/90	1.116	5.59	29.30	5.23	23.26
8145	Z2A	360	CEN	11/20/90	0.984	0.00	45.90	0.00	0.04
8145	Z2A	32U	MT2	11/09/90	1.255	0.00	55.00	0.00	0.50
8146	Z2A	33E	CEN	11/09/90	1.116	0.00	15.60	0.00	0.00
8146	Z2A	32U	MT2	11/09/90	1.255	0.00	100.00	0.00	1.20
8147	Z2A	33F	CEN	11/09/90	1.286	0.00	9.24	0.00	0.00
8147	Z2A	32V	MT2	11/09/90	1.199	0.00	48.60	0.00	4.42
8148	Z2A	33F	CEN	11/09/90	1.286	0.00	23.00	0.00	1.40
8148	Z2A	32V	MT2	11/09/90	1.199	0.00	35.50	0.00	1.04
8149	Z2A	33G	CEN	11/09/90	1.266	0.00	7.03	0.00	0.49
8149	Z2A	32V	MT2	11/09/90	1.224	0.00	5.82	0.00	1.22
8150	Z2A	33G	CEN	11/09/90	1.266	0.00	5.24	0.00	0.22
8150	Z2A	32W	MT2	11/09/90	1.224	0.00	5.82	0.00	1.32
8151	Z2A	33H	CEN	11/09/90	1.337	0.00	12.60	0.00	0.03
8151	Z2A	32W	MT2	11/09/90	1.186	0.00	6.41	0.00	0.13
8152	Z2A	33H	CEN	11/09/90	1.337	0.00	15.10	0.00	0.10
8152	Z2A	32X	MT2	11/09/90	1.186	0.00	17.10	0.00	0.22
8153	Z2A	33I	CEN	11/09/90	1.173	0.00	14.50	0.00	0.45
8153	Z2A	32Y	MT2	11/09/90	1.171	0.00	16.90	0.00	2.32
8154	Z2A	33I	CEN	11/09/90	1.173	0.00	1.24	0.00	0.98
8154	Z2A	32Y	MT2	11/09/90	1.171	0.00	0.50	0.00	0.00

Cumulative Summary (cont'd)

AVC No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ml.	IC 50	IC 25	SI	TAI
8155	22A	33J	CEM	11/09/90	1.204	0.00	27.60	0.00	0.28
8155	22A	322	HT2	11/09/90	1.196	0.00	21.50	0.00	0.74
8156	22A	33J	CEM	11/09/90	1.204	0.00	26.10	0.00	1.10
8156	22A	322	HT2	11/09/90	1.196	0.00	20.40	0.00	0.00
8157	22A	33K	CEM	11/09/90	1.240	0.00	12.10	0.00	0.01
8157	22A	330	HT2	11/09/90	1.182	0.00	18.70	0.00	0.00
8158	22A	33K	CEM	11/09/90	1.240	0.00	23.20	0.00	0.06
8158	22A	330	HT2	11/09/90	1.182	0.00	68.20	0.00	0.10
8159	22A	33L	CEM	11/09/90	1.128	0.00	74.50	0.00	0.00
8159	22A	331	HT2	11/09/90	1.185	0.00	100.00	0.00	0.66
8160	22A	33L	CEM	11/09/90	1.128	0.00	61.60	0.00	3.80
8160	22A	331	HT2	11/09/90	1.185	0.00	100.00	0.00	1.50
8161	22A	33M	CEM	11/09/90	1.166	0.00	74.50	0.00	2.96
8161	22A	332	HT2	11/09/90	1.210	0.00	100.00	0.00	2.20
8162	22A	33M	CEM	11/09/90	1.166	0.00	100.00	0.00	1.57
8162	22A	332	HT2	11/09/90	1.210	0.00	100.00	0.00	0.97
8163	22A	33M	CEM	11/09/90	0.969	0.00	100.00	0.00	1.39
8163	22A	333	HT2	11/09/90	1.136	0.00	100.00	0.00	1.70
8164	22A	33M	CEM	11/09/90	0.969	0.00	78.90	0.00	1.21
8164	22A	333	HT2	11/09/90	1.136	0.00	100.00	0.00	0.00
8165	22A	330	CEM	11/09/90	1.046	0.00	100.00	0.00	6.31
8165	22A	334	HT2	11/09/90	1.163	0.00	100.00	0.00	4.40
8166	22A	330	CEM	11/09/90	1.046	0.00	100.00	0.00	8.92
8166	22A	334	HT2	11/09/90	1.163	0.00	100.00	0.00	1.70
8167	22A	33P	CEM	11/09/90	1.266	0.00	66.00	0.00	0.19
8167	22A	335	HT2	11/09/90	1.152	0.00	100.00	0.00	0.67
8168	22A	33P	CEM	11/09/90	1.266	0.00	14.80	0.00	2.06
8168	22A	335	HT2	11/09/90	1.152	0.00	21.50	0.00	1.06
8169	22A	330	CEM	11/09/90	1.163	0.00	100.00	0.00	3.68
8169	22A	336	HT2	11/09/90	1.179	0.00	100.00	0.00	4.11
8170	22A	330	CEM	11/09/90	1.163	0.00	4.29	0.00	0.04
8170	22A	336	HT2	11/09/90	1.179	0.00	7.67	0.00	0.37
8171	22A	33R	CEM	11/09/90	1.254	0.00	32.00	0.00	0.00
8171	22A	337	HT2	11/09/90	1.219	0.00	100.00	0.00	9.31
8172	22A	33R	CEM	11/09/90	1.254	0.00	78.20	0.00	1.01
8172	22A	337	HT2	11/09/90	1.219	0.00	100.00	0.00	5.20
8173	22A	33S	CEM	11/09/90	1.322	0.00	100.00	0.00	0.20
8173	22A	338	HT2	11/09/90	1.129	0.00	100.00	0.00	0.75
8174	22A	33S	CEM	11/09/90	1.322	0.00	100.00	0.00	7.01
8174	22A	338	HT2	11/09/90	1.129	0.00	100.00	0.00	2.57
8175	22A	33T	CEM	11/09/90	1.198	0.00	19.10	0.00	1.61
8175	22A	339	HT2	11/09/90	1.108	0.00	56.30	0.00	0.00
8176	22A	33T	CEM	11/09/90	1.198	0.00	100.00	0.00	1.49
8176	22A	339	HT2	11/09/90	1.108	0.00	100.00	0.00	0.65
8177	22A	33U	CEM	11/09/90	1.027	0.00	91.50	0.00	0.36
8177	22A	33A	HT2	11/09/90	1.150	0.00	100.00	0.00	0.00
8178	22A	33U	CEM	11/09/90	1.027	0.00	60.10	0.00	0.00
8178	22A	33A	HT2	11/09/90	1.150	0.00	100.00	0.00	1.69
8179	22A	33V	CEM	11/09/90	1.227	0.00	60.30	0.00	0.05
8179	22A	338	HT2	11/09/90	1.122	0.00	100.00	0.00	0.30
8180	22A	33V	CEM	11/09/90	1.227	0.00	18.30	0.00	0.00
8180	22A	338	HT2	11/09/90	1.122	0.00	100.00	0.00	0.00
8181	22A	36P	CEM	11/20/90	1.061	0.00	69.10	0.00	0.01
8181	22A	369	HT2	11/20/90	0.819	0.00	100.00	0.00	23.40
8182	22A	334	CEM	11/09/90	1.278	0.00	100.00	0.00	0.00
8182	22A	33C	HT2	11/09/90	1.158	0.00	100.00	0.00	0.20
8183	22A	36P	CEM	11/13/90	0.891	0.00	14.60	0.00	0.00
8183	22A	345	HT2	11/13/90	1.206	0.00	49.00	0.00	0.57
8184	22A	36P	CEM	11/13/90	0.891	0.00	48.30	0.00	0.00
8184	22A	345	HT2	11/13/90	1.206	0.00	100.00	0.00	0.00
8185	22A	360	CEM	11/13/90	0.839	0.00	100.00	0.00	0.14
8185	22A	366	HT2	11/13/90	1.197	0.00	100.00	0.00	0.08
8186	22A	360	CEM	11/13/90	0.839	41.70	100.00	2.42	31.70
8186	22A	366	HT2	11/13/90	1.197	0.00	100.00	0.00	0.00
8187	22A	368	CEM	11/13/90	0.831	0.00	79.60	0.00	0.00
8187	22A	367	HT2	11/13/90	1.181	0.00	90.60	0.00	0.00
8188	22A	368	CEM	11/13/90	0.831	0.00	100.00	0.00	0.00
8188	22A	367	HT2	11/13/90	1.181	0.00	100.00	0.00	0.31
8189	22A	348	CEM	11/13/90	0.840	0.00	45.60	0.00	0.00
8189	22A	368	HT2	11/13/90	1.126	0.00	100.00	0.00	0.75
8190	22A	348	CEM	11/13/90	0.840	0.00	100.00	0.00	0.00
8190	22A	368	HT2	11/13/90	1.126	0.00	100.00	0.00	0.53
8191	22A	36T	CEM	11/13/90	0.874	0.00	18.60	0.00	0.00
8191	22A	349	HT2	11/13/90	1.148	0.00	65.20	0.00	1.03
8192	22A	36T	CEM	11/13/90	0.874	0.00	100.00	0.00	0.00
8192	22A	349	HT2	11/13/90	1.148	0.00	100.00	0.00	0.03
8193	22A	36U	CEM	11/13/90	0.851	0.00	4.94	0.00	0.00
8193	22A	36A	HT2	11/13/90	1.136	0.00	11.20	0.00	0.00

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
8194	22A	34U	CEN	11/13/90	0.351	0.00	> 100.00	0.00	0.00
8194	22A	34A	HT2	11/13/90	1.136	0.00	> 100.00	0.00	0.11
8195	22A	34V	CEN	11/13/90	0.839	0.00	> 100.00	0.00	0.00
8195	22A	34B	HT2	11/13/90	1.160	0.00	> 100.00	0.00	0.00
8196	75	380	CEN	12/06/90	0.578	0.00	< 0.32	0.00	0.00
8196	75	386	HT2	12/06/90	0.663	0.00	4.80	0.00	0.00
8197	75	38A	CEN	12/06/90	0.612	0.00	28.30	0.00	> 15.37
8197	75	387	HT2	12/06/90	0.635	0.00	15.80	0.00	0.06
8198	75	38A	CEN	12/06/90	0.612	0.00	0.16	0.00	12.11
8198	75	387	HT2	12/06/90	0.635	0.00	49.70	0.00	0.79
8199	75	383	CEN	12/06/90	0.587	0.00	> 100.00	0.00	6.02
8199	75	388	HT2	12/06/90	0.610	0.00	29.60	0.00	0.00
8200	75	385	CEN	12/06/90	0.587	0.00	0.23	0.00	0.00
8200	75	386	HT2	12/06/90	0.610	0.00	53.50	0.00	0.00
8201	75	387	CEN	12/06/90	0.657	0.00	2.49	0.00	1.07
8201	75	389	HT2	12/06/90	0.642	0.00	5.18	0.00	> 0.60
8202	75	381	CEN	12/06/90	0.637	2.17	0.18	0.08	> 38.22
8202	75	389	HT2	12/06/90	0.642	1.44	14.90	10.38	31.41
8203	75	38U	CEN	12/06/90	0.545	0.00	44.10	0.00	0.00
8203	75	38A	HT2	12/06/90	0.611	0.00	50.70	0.00	0.40
8204	75	38U	CEN	12/06/90	0.545	0.00	0.17	0.00	0.00
8204	75	38A	HT2	12/06/90	0.611	0.00	15.70	0.00	0.52
8205	75	38V	CEN	12/06/90	0.544	25.90	65.20	2.51	18.97
8205	75	388	HT2	12/06/90	0.646	0.00	39.40	0.00	0.00
8206	75	38V	CEN	12/06/90	0.544	0.00	0.28	0.00	> 18.59
8206	75	388	HT2	12/06/90	0.646	0.00	17.20	0.00	6.59
8207	75	38U	CEN	12/06/90	0.522	0.00	> 100.00	0.00	5.63
8207	75	38C	HT2	12/06/90	0.695	0.00	49.70	0.00	0.05
8208	75	38W	CEN	12/06/90	0.522	0.00	0.13	0.00	12.17
8208	75	38C	HT2	12/06/90	0.695	0.00	18.00	0.00	0.10
8209	75	38X	CEN	12/06/90	0.566	14.90	49.00	3.29	> 26.40
8209	75	38D	HT2	12/06/90	0.627	7.82	51.80	6.62	29.31
8210	75	38X	CEN	12/06/90	0.566	0.00	0.14	0.00	10.80
8210	75	38D	HT2	12/06/90	0.627	0.00	20.40	0.00	1.05
8211	75	38Y	CEN	12/06/90	0.628	0.00	14.40	0.00	> 0.89
8211	75	38E	HT2	12/06/90	0.557	0.00	5.01	0.00	0.82
8212	75	38Y	CEN	12/06/90	0.628	0.00	0.13	0.00	6.66
8212	75	38E	HT2	12/06/90	0.557	0.00	51.10	0.00	0.00
8213	75	38Z	CEN	12/06/90	0.635	0.00	49.00	0.00	> 1.69
8213	75	38F	HT2	12/06/90	0.605	0.00	49.20	0.00	0.24
8214	75	38Z	CEN	12/06/90	0.635	0.00	0.11	0.00	0.14
8214	75	38F	HT2	12/06/90	0.605	0.00	49.90	0.00	0.00
8215	75	380	CEN	12/06/90	0.534	0.00	> 100.00	0.00	> 13.41
8215	75	38G	HT2	12/06/90	0.666	0.00	19.80	0.00	> 3.10
8216	75	380	CEN	12/06/90	0.534	90.30	0.14	0.00	> 21.67
8216	75	38G	HT2	12/06/90	0.666	0.00	67.40	0.00	15.10
8217	75	381	CEN	12/06/90	0.586	0.00	53.80	0.00	> 11.99
8217	75	38H	HT2	12/06/90	0.593	0.00	49.50	0.00	0.43
8218	75	381	CEN	12/06/90	0.586	0.00	0.17	0.00	11.90
8218	75	38H	HT2	12/06/90	0.593	0.00	50.50	0.00	0.00
8219	75	382	CEN	12/06/90	0.533	0.00	15.90	0.00	> 0.40
8219	75	381	HT2	12/06/90	0.645	0.00	49.00	0.00	2.31
8220	75	382	CEN	12/06/90	0.533	0.00	0.08	0.00	1.99
8220	75	381	HT2	12/06/90	0.645	0.00	18.10	0.00	0.00
8221	75	383	CEN	12/06/90	0.685	0.00	< 0.32	0.00	0.00
8221	75	38J	HT2	12/06/90	0.521	0.00	1.35	0.00	0.08
8222	75	383	CEN	12/06/90	0.685	0.00	0.14	0.00	3.89
8222	75	38J	HT2	12/06/90	0.521	0.00	27.20	0.00	0.00
8223	75	38A	CEN	12/06/90	0.540	0.00	35.00	0.00	> 2.28
8223	75	38K	HT2	12/06/90	0.519	0.00	41.50	0.00	0.00
8224	75	38A	CEN	12/06/90	0.540	0.00	0.08	0.00	3.87
8224	75	38K	HT2	12/06/90	0.519	0.00	25.30	0.00	0.70
8225	75	385	CEN	12/06/90	0.523	0.44	31.20	70.96	> 50.08
8225	75	38L	HT2	12/06/90	0.525	1.34	5.78	4.30	21.30
8226	75	385	CEN	12/06/90	0.523	5.79	0.15	0.03	22.28
8226	75	38L	HT2	12/06/90	0.525	0.00	25.70	0.00	0.00
8227	75	38T	CEN	12/11/90	1.182	0.00	15.20	0.00	0.00
8227	75	389	HT2	12/11/90	1.057	0.00	48.00	0.00	0.00
8228	75	38T	CEN	12/11/90	1.182	0.00	0.18	0.00	0.00
8228	75	389	HT2	12/11/90	1.057	0.00	15.70	0.00	2.42
8229	75	38U	CEN	12/11/90	1.321	0.00	29.00	0.00	> 0.05
8229	75	38A	HT2	12/11/90	1.111	0.00	49.50	0.00	> 2.02
8230	75	38U	CEN	12/11/90	1.321	0.00	0.20	0.00	0.23
8230	75	38A	HT2	12/11/90	1.111	0.00	16.70	0.00	0.00
8231	75	38V	CEN	12/11/90	1.249	0.00	5.50	0.00	> 2.10
8231	75	38B	HT2	12/11/90	1.047	0.00	5.57	0.00	0.13
8232	75	38V	CEN	12/11/90	1.249	0.00	< 0.32	0.00	0.00
8232	75	38B	HT2	12/11/90	1.047	0.00	1.60	0.00	> 0.19

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Call Line	Test Date	Diff- mtl.	IC 50	TC 25	BI	TAI
8233	75	302	CEN	12/11/90	1.253	0.00	25.10	0.00	5.21
8233	75	302	HT2	12/11/90	0.855	4.91	66.00	13.45	56.06
8234	75	302	CEN	12/11/90	1.253	0.32	6.60	20.33	68.31
8234	75	302	HT2	12/11/90	0.855	0.32	1.48	5.24	28.27
8235	75	302	CEN	12/11/90	1.155	4.15	35.80	8.64	39.94
8235	75	302	HT2	12/11/90	1.039	4.58	65.30	14.25	44.44
8236	75	302	CEN	12/11/90	1.155	0.42	0.26	0.62	72.27
8236	75	302	HT2	12/11/90	1.039	0.50	0.90	27.78	54.01
8237	75	302	CEN	12/11/90	1.324	5.53	9.48	1.71	24.60
8237	75	302	HT2	12/11/90	0.973	1.40	50.90	36.28	58.83
8238	75	302	CEN	12/11/90	0.973	0.00	32.00	1.00	2.84
8239	75	302	CEN	12/11/90	1.313	0.00	0.32	0.00	0.00
8239	75	302	HT2	12/11/90	1.042	0.00	11.40	0.00	7.24
8240	75	302	CEN	12/11/90	1.513	17.10	29.30	1.71	8.14
8240	75	302	HT2	12/11/90	1.042	0.00	18.70	0.00	9.38
8241	75	300	CEN	12/11/90	1.271	0.00	28.00	0.00	5.11
8241	75	300	HT2	12/11/90	1.041	0.00	15.70	0.00	1.63
8242	75	300	CEN	12/11/90	1.271	0.00	0.18	0.00	0.98
8242	75	300	HT2	12/11/90	1.041	0.00	15.70	0.00	0.43
8243	76	3F8	CEN	12/20/90	1.207	0.00	686.00	0.00	2.42
8243	76	3M8	CEN	01/17/91	0.515	0.00	100.00	0.00	0.77
8243	76	3M2	HT2	01/17/91	1.120	0.00	100.00	0.00	0.43
8244	76	3F8	CEN	12/20/90	1.207	0.00	78.90	0.00	0.64
8244	76	3M8	CEN	01/17/91	0.515	0.00	100.00	0.00	0.00
8244	76	3M2	HT2	01/17/91	1.120	0.00	100.00	0.00	0.12
8245	76	3F0	CEN	12/20/90	1.391	0.00	131.00	0.00	0.00
8245	76	3M1	CEN	01/17/91	0.614	0.00	100.00	0.00	0.41
8245	76	3M3	HT2	01/17/91	1.182	0.00	100.00	0.00	0.00
8246	76	3F0	CEN	12/20/90	1.391	0.00	7.92	0.00	0.14
8246	76	3M1	CEN	01/17/91	0.614	27.10	49.50	1.83	12.06
8246	76	3M3	HT2	01/17/91	1.182	0.00	15.20	0.00	0.00
8247	76	3F8	CEN	12/20/90	1.529	0.00	3.20	0.00	0.02
8247	76	3M4	CEN	01/17/91	0.618	100.00	100.00	1.00	13.51
8247	76	3M2	HT2	01/17/91	1.093	0.00	54.70	0.00	0.00
8248	76	3F8	CEN	12/20/90	1.529	0.00	86.40	0.00	3.80
8248	76	3M4	CEN	01/17/91	0.618	0.00	100.00	0.00	6.02
8248	76	3M6	HT2	01/17/91	1.093	0.00	100.00	0.00	0.20
8249	76	3F0	CEN	12/20/90	1.471	0.00	158.00	0.00	0.91
8249	76	3M8	CEN	01/17/91	0.582	0.00	100.00	0.00	18.93
8249	76	3M5	HT2	01/17/91	1.092	0.00	100.00	0.00	10.01
8250	76	3F0	CEN	12/20/90	1.471	0.00	198.00	0.00	0.19
8250	76	3M8	CEN	01/17/91	0.582	0.00	100.00	0.00	0.35
8250	76	3M5	HT2	01/17/91	1.092	0.00	23.10	0.00	0.21
8251	76	3F8	CEN	12/20/90	1.486	0.00	252.00	0.00	0.00
8251	76	3M6	HT2	01/17/91	1.194	0.00	75.60	0.00	0.33
8252	76	3F2	CEN	12/20/90	1.486	0.00	265.00	0.00	0.00
8252	76	3M6	HT2	01/17/91	1.194	0.00	100.00	0.00	0.08
8253	76	3F8	CEN	12/20/90	1.160	0.00	490.00	0.00	9.15
8253	76	3M7	HT2	01/17/91	1.121	0.00	100.00	0.00	0.48
8254	76	3F6	CEN	12/20/90	1.160	0.00	781.00	0.00	19.88
8254	76	3M7	HT2	01/17/91	1.121	0.00	100.00	0.00	0.37
8255	76	3F1	CEN	12/20/90	1.397	0.00	66.00	0.00	0.00
8255	76	3M8	CEN	01/17/91	0.578	5.66	100.00	17.66	34.79
8255	76	3M6	HT2	01/17/91	1.057	0.00	100.00	0.00	0.18
8256	76	3F1	CEN	12/20/90	1.397	159.00	634.00	3.98	21.04
8256	76	3M8	CEN	01/17/91	0.578	12.78	100.00	7.86	47.07
8256	76	3M6	HT2	01/17/91	1.057	0.00	100.00	0.00	1.49
8257	76	3F2	CEN	12/20/90	1.045	15.70	868.00	55.34	68.17
8257	76	3M8	CEN	01/17/91	0.562	25.50	0.13	0.00	15.88
8257	76	3M9	HT2	01/17/91	1.076	31.10	100.00	3.21	20.82
8258	76	3F2	CEN	12/20/90	1.045	119.00	1000.00	8.42	35.27
8258	76	3M8	CEN	01/17/91	0.562	67.70	100.00	1.48	3.74
8258	76	3M9	HT2	01/17/91	1.076	83.40	100.00	1.20	8.66
8259	76	3F4	CEN	12/20/90	1.167	8.27	1000.00	120.91	73.07
8259	76	3M9	CEN	01/17/91	0.562	16.30	100.00	6.15	32.76
8259	76	3M6	HT2	01/17/91	1.009	16.00	100.00	6.25	34.17
8260	76	3F4	CEN	12/20/90	1.167	11.40	1000.00	87.88	75.77
8260	76	3M9	CEN	01/17/91	0.562	15.80	100.00	6.30	28.51
8260	76	3M6	HT2	01/17/91	1.009	12.30	100.00	8.11	37.28
8261	76	3F2	CEN	12/20/90	1.160	5.95	192.00	32.23	55.11
8261	76	3M8	CEN	01/17/91	0.717	16.50	100.00	6.15	31.32
8261	76	3M6	HT2	01/17/91	1.004	14.70	100.00	6.79	31.10
8262	76	3F2	CEN	12/20/90	1.160	90.20	169.00	1.87	15.13
8262	76	3M8	CEN	01/17/91	0.717	88.10	100.00	1.13	4.63
8262	76	3M6	HT2	01/17/91	1.004	0.00	89.10	0.00	0.00
8263	76	3F4	CEN	12/20/90	0.985	0.00	32.00	0.00	0.50
8263	76	3M8	CEN	01/17/91	0.644	0.00	75.30	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship Name	Pit #	Cell Line	Test Date	Diff-rcnt.	IC 50	YC 25	SI	TAI
8263	76	3AC	HT2	01/17/91	1.015	0.00	53.20	0.00	0.00
8264	76	3FX	CEN	12/20/90	0.983	0.00	169.00	0.00	5.91
8264	76	3AC	CEN	01/17/91	0.844	0.00	> 100.00	0.00	0.00
8264	76	3AC	HT2	01/17/91	1.015	0.00	> 35.40	0.00	0.12
8265	76	3FY	CEN	12/20/90	0.981	0.00	49.00	0.00	5.90
8265	76	3AC	HT2	01/17/91	0.998	0.00	43.20	0.00	0.00
8266	76	3FY	CEN	12/20/90	0.981	0.00	274.00	0.00	4.31
8266	76	3AC	CEN	01/17/91	0.541	0.00	56.30	0.00	0.53
8266	76	3AC	HT2	01/17/91	0.998	0.00	97.40	0.00	0.00
8267	76	3FZ	CEN	12/20/90	1.141	0.00	114.00	0.00	4.42
8267	76	3AT	CEN	01/17/91	0.469	0.00	> 100.00	0.00	0.00
8267	76	3F1	HT2	12/20/90	1.044	0.00	< 3.20	0.00	0.00
8267	76	3AE	HT2	01/17/91	1.093	0.00	> 27.40	0.00	0.00
8268	76	3AT	CEN	01/17/91	0.469	0.00	> 100.00	0.00	0.00
8268	76	3AE	HT2	01/17/91	1.093	0.00	> 21.00	0.00	0.00
8269	76	3AU	CEN	01/17/91	0.488	0.00	> 100.00	0.00	0.00
8269	76	3AF	HT2	01/17/91	0.952	0.00	> 100.00	0.00	2.59
8270	76	3AU	CEN	01/17/91	0.488	0.00	> 100.00	0.00	0.00
8270	76	3AF	HT2	01/17/91	0.952	0.00	> 100.00	0.00	0.30
8271	76	3AG	CEN	01/18/91	1.152	0.00	> 100.00	0.00	0.00
8271	76	3AG	HT2	01/18/91	1.440	0.00	> 9.32	0.00	0.07
8272	76	3AG	CEN	01/18/91	1.152	50.50	> 0.88	0.82	10.90
8272	76	3AG	HT2	01/18/91	1.440	19.60	> 100.00	> 5.16	24.31
8273	76	3AH	CEN	01/18/91	1.005	0.00	> 6.53	0.00	0.00
8273	76	3AH	HT2	01/18/91	1.293	0.00	> 2.94	0.00	0.00
8274	76	3AH	CEN	01/18/91	1.005	0.00	> 100.00	0.00	0.13
8274	76	3AX	HT2	01/18/91	1.293	0.00	> 44.40	0.00	0.30
8308	23A	22H	CEN	11/07/90	1.362	12.10	> 10.00	0.82	16.10
8308	23A	22H	CEN	11/07/90	1.362	0.00	> 0.10	0.00	0.00
8308	23A	2Y9	HT2	10/26/90	0.799	1.68	> 47.80	28.51	44.65
8308	23A	2Y9	HT2	10/26/90	0.799	0.00	> 0.10	0.00	0.15
8309	76	3AI	CEN	01/18/91	1.020	0.00	> 100.00	0.00	5.70
8309	76	3AT	HT2	01/18/91	1.359	0.00	> 100.00	0.00	0.22
8310	76	3AI	CEN	01/18/91	1.320	0.00	> 100.00	0.00	1.34
8310	76	3AT	HT2	01/18/91	1.359	0.00	> 46.10	0.00	0.00
8311	76	3AJ	CEN	01/18/91	1.216	50.70	> 100.00	> 1.97	8.72
8311	76	3AZ	HT2	01/18/91	1.347	0.00	> 37.40	0.00	0.59
8312	76	3AJ	CEN	01/18/91	1.216	0.00	> 40.50	0.00	0.40
8312	76	3AZ	HT2	01/18/91	1.347	0.00	> 100.00	0.00	0.00
8313	76	3AK	CEN	01/18/91	0.937	0.00	> 100.00	0.00	0.00
8313	76	3AO	HT2	01/18/91	1.295	0.00	> 100.00	0.00	0.02
8314	76	3AK	CEN	01/18/91	0.937	0.00	> 100.00	0.00	0.00
8314	76	3AO	HT2	01/18/91	1.295	0.00	> 100.00	0.00	0.17
8315	76	3AL	CEN	01/18/91	1.045	0.00	> 100.00	0.00	0.00
8315	76	3AI	HT2	01/18/91	1.241	0.00	> 69.00	0.00	1.27
8316	76	3AL	CEN	01/18/91	1.045	0.00	> 100.00	0.00	0.00
8316	76	3AI	HT2	01/18/91	1.241	0.00	> 100.00	0.00	0.10
8317	76	3AM	CEN	01/18/91	1.224	0.00	> 40.50	0.00	0.00
8317	76	3AZ	HT2	01/18/91	1.290	0.00	> 2.83	0.00	0.00
8318	76	3AM	CEN	01/18/91	1.224	0.00	> 92.00	0.00	0.00
8318	76	3AZ	HT2	01/18/91	1.290	0.00	> 51.00	0.00	1.25
8319	76	3AN	CEN	01/18/91	1.073	0.00	> 100.00	0.00	0.01
8319	76	3AS	HT2	01/18/91	1.200	0.00	> 100.00	0.00	0.59
8320	76	3AN	CEN	01/18/91	1.073	0.00	> 100.00	0.00	0.00
8320	76	3AS	HT2	01/18/91	1.200	0.00	> 100.00	0.00	0.75
8321	76	3AO	CEN	01/18/91	1.094	0.00	> 100.00	0.00	0.00
8321	76	3AS	HT2	01/18/91	1.204	0.00	> 100.00	0.00	0.85
8322	76	3AP	CEN	01/18/91	1.094	0.00	> 100.00	0.00	3.17
8322	76	3AS	HT2	01/18/91	1.204	0.00	> 0.20	0.00	0.28
8323	76	3AP	CEN	01/18/91	1.089	0.00	> 100.00	0.00	3.84
8323	76	3AS	HT2	01/18/91	1.139	0.00	> 100.00	0.00	0.00
8324	76	3AP	CEN	01/18/91	1.089	0.00	> 100.00	0.00	0.00
8324	76	3AS	HT2	01/18/91	1.139	0.00	> 76.00	0.00	0.00
8325	76	3AQ	CEN	01/18/91	1.125	0.00	> 74.50	0.00	0.00
8325	76	3AM	HT2	01/18/91	1.196	0.00	> 100.00	0.00	0.32
8326	76	3AQ	CEN	01/18/91	1.125	33.20	> 83.50	2.52	23.39
8326	76	3AM	HT2	01/18/91	1.196	21.60	> 100.00	> 4.88	26.65
8327	76	3AR	CEN	01/18/91	1.126	0.00	> 86.40	0.00	0.00
8327	76	3AT	HT2	01/18/91	1.267	0.00	> 100.00	0.00	0.00
8328	76	3AR	CEN	01/18/91	1.126	0.00	> 100.00	0.00	0.00
8328	76	3AT	HT2	01/18/91	1.267	0.00	> 52.50	0.00	0.01
8329	76	3AS	CEN	01/18/91	1.008	0.00	> 100.00	0.00	3.50
8329	76	3AM	HT2	01/18/91	1.189	0.00	> 100.00	0.00	0.20
8330	76	3AS	CEN	01/18/91	1.008	0.00	> 100.00	0.00	0.76
8330	76	3AM	HT2	01/18/91	1.189	0.00	> 100.00	0.00	2.28
8331	76	3AT	CEN	01/18/91	1.102	0.00	> 100.00	0.00	1.64
8331	76	3AP	HT2	01/18/91	1.204	0.00	> 86.20	0.00	0.32
8332	76	3AT	CEN	01/18/91	1.102	0.00	> 100.00	0.00	0.00

Cumulative Summary (cont'd)

Avg No.	Ship- ment	Plt #	Call Line	Test Date	Diff. mtl.	TC 50	TC 25	SI	TAI
8332	76	349	HT2	01/18/91	1.204	0.00	85.10	0.00	0.45
8333	76	349	CEN	01/18/91	1.093	0.00	100.00	0.00	0.00
8333	76	349A	HT2	01/18/91	0.969	0.00	59.30	0.00	0.10
8334	76	406	CEN	02/21/91	0.851	28.50	7.45	0.26	10.63
8334	76	402	HT2	02/21/91	1.252	5.61	100.00	17.83	45.67
8335	76	406	CEN	02/21/91	0.851	71.65	93.80	1.31	3.55
8335	76	402	HT2	02/21/91	1.252	6.43	1.00	0.16	37.82
8336	76	404	CEN	02/21/91	0.897	0.00	33.90	0.00	9.79
8336	76	403	HT2	02/21/91	1.330	45.20	100.00	2.21	14.26
8337	76	404	CEN	02/21/91	0.897	0.00	5.12	0.00	0.00
8337	76	403	HT2	02/21/91	1.330	0.00	1.24	0.00	0.00
8338	76	401	CEN	02/21/91	0.709	0.00	83.00	0.00	0.00
8338	76	404	HT2	02/21/91	1.193	0.00	57.60	0.00	2.61
8339	76	401	CEN	02/21/91	0.709	0.00	100.00	0.00	0.15
8339	76	404	HT2	02/21/91	1.193	66.80	100.00	2.14	19.13
8340	76	402	CEN	02/21/91	0.896	0.00	100.00	0.00	3.58
8340	76	405	HT2	02/21/91	1.354	0.00	100.00	0.00	0.05
8341	76	402	CEN	02/21/91	0.896	0.00	38.60	0.00	5.23
8341	76	405	HT2	02/21/91	1.354	0.00	100.00	0.00	0.51
8342	76	404	CEN	02/21/91	0.769	0.00	30.60	0.00	0.25
8342	76	406	HT2	02/21/91	1.398	0.00	100.00	0.00	0.04
8353	75	301	CEN	12/11/90	1.389	0.00	0.32	0.00	0.00
8353	75	304	HT2	12/11/90	0.901	0.00	0.76	0.00	0.00
8354	75	301	CEN	12/11/90	1.389	0.00	0.22	0.00	1.35
8354	75	304	HT2	12/11/90	0.901	0.00	100.00	0.00	4.39
8355	76	317	CEN	01/08/91	0.655	0.00	0.32	0.00	0.00
8355	76	349	HT2	01/08/91	1.299	0.00	0.32	0.00	0.00
8356	76	318	CEN	01/08/91	0.685	0.00	5.20	0.00	0.00
8356	76	349	HT2	01/08/91	1.291	0.00	4.67	0.00	0.00
8357	76	318	CEN	01/08/91	0.685	0.00	100.00	0.00	0.00
8357	76	349	HT2	01/08/91	1.291	0.00	100.00	0.00	0.00
8358	76	319	CEN	01/08/91	0.616	0.00	18.20	0.00	5.48
8358	76	349	HT2	01/08/91	1.222	0.00	18.10	0.00	0.77
8359	76	319	CEN	01/08/91	0.516	0.00	10.00	0.00	0.00
8359	76	349	HT2	01/08/91	1.222	0.00	12.60	0.00	0.30
8360	76	31A	CEN	01/08/91	0.738	0.00	100.00	0.00	13.60
8360	76	349	HT2	01/08/91	1.234	0.00	100.00	0.00	0.00
8363	76	349	CEN	01/18/91	1.093	0.00	26.10	0.00	0.04
8363	76	349A	HT2	01/18/91	0.969	0.00	100.00	0.00	0.00
8364	76	349	CEN	01/18/91	0.996	32.00	21.20	0.66	0.60
8364	76	349	HT2	01/18/91	1.164	0.00	100.00	0.00	0.30
8365	76	349	CEN	01/18/91	0.996	0.00	100.00	0.00	1.34
8365	76	349	HT2	01/18/91	1.164	0.00	18.60	0.00	8.86
8366	76	349	CEN	01/18/91	1.022	5.71	100.00	17.52	66.60
8366	76	349	HT2	01/18/91	1.212	7.18	64.80	9.02	35.84
8367	76	349	CEN	01/18/91	1.022	0.00	100.00	0.00	1.44
8367	76	349	HT2	01/18/91	1.212	0.00	52.75	0.00	0.32
8368	76	349	CEN	01/18/91	1.165	0.00	45.50	0.00	0.00
8368	76	349	HT2	01/18/91	1.179	0.00	2.39	0.00	0.00
8369	76	349	CEN	01/18/91	1.165	0.00	100.00	0.00	1.53
8369	76	349	HT2	01/18/91	1.179	0.00	100.00	0.00	0.66
8370	76	349	CEN	01/18/91	1.049	58.40	100.00	1.71	7.52
8370	76	349	HT2	01/18/91	0.913	0.00	50.50	0.00	1.22
8371	76	349	CEN	01/18/91	1.049	0.00	100.00	0.00	5.95
8371	76	349	HT2	01/18/91	0.913	0.00	100.00	0.00	3.69
8372	76	498	CEN	02/05/91	1.326	61.40	78.60	1.28	6.49
8372	76	498	HT2	02/05/91	1.127	43.30	100.00	2.31	18.06
8373	76	498	CEN	02/05/91	1.326	0.00	100.00	0.00	0.14
8373	76	498	HT2	02/05/91	1.127	0.00	100.00	0.00	2.07
8374	76	498	CEN	02/05/91	1.306	0.00	9.03	0.00	0.00
8374	76	498	HT2	02/05/91	1.080	0.00	100.00	0.00	1.08
8375	76	498	CEN	02/05/91	1.306	11.10	100.00	9.02	35.27
8375	76	498	HT2	02/05/91	1.080	5.00	74.90	14.99	64.86
8376	76	498	CEN	02/05/91	1.260	0.00	19.20	0.00	0.08
8376	76	498	HT2	02/05/91	0.979	0.00	29.60	0.00	1.13
8377	76	498	CEN	02/05/91	1.260	0.00	0.92	0.00	0.00
8377	76	498	HT2	02/05/91	0.979	0.00	64.10	0.00	2.03
8378	76	497	CEN	02/05/91	1.216	20.60	51.10	2.48	15.11
8379	76	497	CEN	02/05/91	1.216	0.00	2.65	0.00	0.00
8379	76	498	HT2	02/05/91	1.107	0.00	100.00	0.00	0.73
8380	76	498	CEN	02/05/91	1.287	21.60	21.00	0.97	10.26
8380	76	498	HT2	02/05/91	1.105	11.10	57.20	3.14	29.95
8381	76	498	CEN	02/05/91	1.287	0.00	100.00	0.00	0.00
8381	76	498	HT2	02/05/91	1.105	0.00	100.00	0.00	0.00
8382	76	498	CEN	02/05/91	1.207	0.00	100.00	0.00	1.19
8382	76	498	HT2	02/05/91	1.157	31.00	100.00	3.23	17.59
8383	76	498	CEN	02/05/91	1.207	0.00	100.00	0.00	2.50
8383	76	498	HT2	02/05/91	1.157	0.00	100.00	0.00	2.97

Cumulative Summary (cont'd)

AVI No.	Strip- ment	Plt #	Cell Line	Test Date	Diff- rntl.	IC 50	TC 25	SI	TAI
8384	76	49W	CEM	02/05/91	1.193	0.00	17.30	0.00	0.04
8384	76	49E	HT2	02/05/91	0.707	0.00	4.90	0.00	1.60
8386	76	49W	CEM	02/05/91	1.193	0.00	> 100.00	0.00	0.25
8386	76	49E	HT2	02/05/91	0.907	72.20	> 100.00	1.38	17.28
8387	76	49X	CEM	02/05/91	1.172	0.00	> 100.00	0.00	0.43
8387	76	49F	HT2	02/05/91	1.190	0.00	> 100.00	0.00	0.04
8388	76	49X	CEM	02/05/91	1.172	0.00	> 100.00	0.00	0.00
8388	76	49F	HT2	02/05/91	1.190	0.00	> 100.00	0.00	0.15
8389	76	49Y	CEM	02/05/91	0.815	0.00	> 100.00	0.00	11.81
8389	76	49Y	HT2	02/05/91	1.144	0.00	> 100.00	0.00	0.00
8390	76	49Y	CEM	02/05/91	0.816	0.00	> 100.00	0.00	11.70
8390	76	49G	HT2	02/05/91	1.144	0.00	> 100.00	0.00	0.00
8391	76	49Z	CEM	02/05/91	1.152	0.00	> 100.00	0.00	0.04
8391	76	49H	HT2	02/05/91	1.096	0.00	79.20	0.00	4.56
8393	76	49Z	CEM	02/05/91	1.152	0.00	> 100.00	0.00	0.00
8393	76	49H	HT2	02/05/91	1.096	0.00	96.80	0.00	0.05
8394	76	4A0	CEM	02/05/91	0.907	0.00	49.90	0.00	1.10
8394	76	49I	HT2	02/05/91	1.104	0.00	53.60	0.06	2.73
8395	76	4A0	CEM	02/05/91	0.907	0.00	> 100.00	0.00	0.00
8395	76	49I	HT2	02/05/91	1.104	0.00	29.10	0.00	0.04
8396	76	4A1	CEM	02/05/91	0.900	0.00	95.00	0.00	5.79
8396	76	49J	HT2	02/05/91	1.048	0.00	69.80	0.00	2.73
8397	76	4A1	CEM	02/05/91	0.900	100.00	> 100.00	1.00	4.07
8397	76	49J	HT2	02/05/91	1.048	0.00	50.50	0.00	2.03
8398	76	4A2	CEM	02/05/91	0.940	0.00	88.70	0.00	0.03
8398	76	49K	HT2	02/05/91	1.053	0.00	44.10	0.00	0.90
8399	76	4A2	CEM	02/05/91	0.940	0.00	> 100.00	0.00	2.68
8399	76	49K	HT2	02/05/91	1.053	0.00	> 100.00	0.00	0.00
8400	76	4A3	CEM	02/05/91	1.222	0.00	> 100.00	0.00	0.00
8400	76	49L	HT2	02/05/91	1.093	0.00	> 100.00	0.00	0.64
8401	76	4A3	CEM	02/05/91	1.222	0.00	> 100.00	0.00	0.00
8401	76	49L	HT2	02/05/91	1.093	0.00	> 100.00	0.00	0.00
8402	76	4A4	CEM	02/05/91	1.087	0.00	> 100.00	0.00	0.00
8402	76	49M	HT2	02/05/91	1.216	0.00	> 100.00	0.00	0.05
8403	76	4A4	CEM	02/05/91	1.087	0.00	> 100.00	0.00	1.01
8403	76	49M	HT2	02/05/91	1.216	0.00	> 100.00	0.00	0.15
8404	76	4AJ	CEM	02/08/91	1.141	0.00	> 100.00	0.00	2.55
8404	76	4A6	HT2	02/08/91	1.358	0.00	> 100.00	0.00	0.07
8406	76	3I8	CEM	01/08/91	0.680	0.00	14.00	0.00	1.00
8406	76	3M1	HT2	01/08/91	1.204	0.00	16.20	0.00	0.10
8407	76	3I8	CEM	01/08/91	0.680	0.00	> 100.00	0.00	0.22
8407	76	3M1	HT2	01/08/91	1.204	0.00	> 100.00	0.00	0.00
8408	76	3I0	CEM	01/08/91	0.746	0.00	38.10	0.00	0.00
8408	76	3M0	HT2	01/08/91	1.257	0.00	45.60	0.00	0.00
8409	76	3I0	CEM	01/08/91	0.746	0.00	11.40	0.00	0.00
8409	76	3M0	HT2	01/08/91	1.257	0.00	12.80	0.00	0.00
8413	76	4AJ	CEM	02/08/91	1.141	0.00	> 100.00	0.00	1.20
8413	76	4A6	HT2	02/08/91	1.358	0.00	> 100.00	0.00	0.00
8414	76	4A2	CEM	02/08/91	1.242	0.00	30.60	0.00	1.70
8414	76	4A7	HT2	02/08/91	1.278	0.00	16.20	0.00	0.03
8418	75	302	CEM	12/11/90	1.346	0.00	> 100.00	0.00	1.28
8418	75	301	HT2	12/11/90	0.945	0.00	> 100.00	0.00	0.00
8419	75	302	CEM	12/11/90	1.346	0.00	0.32	0.00	2.69
8419	75	301	HT2	12/11/90	0.945	0.00	> 100.00	0.00	0.00
8420	75	303	CEM	12/11/90	1.504	0.00	> 100.00	0.00	1.97
8420	75	30J	HT2	12/11/90	0.954	0.00	> 100.00	0.00	1.04
8421	75	303	CEM	12/11/90	1.504	0.00	> 100.00	0.00	1.09
8421	75	30L	HT2	12/11/90	0.954	0.00	> 100.00	0.00	7.74
8422	75	304	CEM	12/11/90	1.247	0.00	> 100.00	0.00	1.52
8422	75	30X	HT2	12/11/90	0.958	0.00	> 100.00	0.00	0.95
8423	75	304	CEM	12/11/90	1.247	0.00	> 100.00	0.00	3.59
8423	75	30X	HT2	12/11/90	0.958	0.00	> 100.00	0.00	0.30
8424	75	305	CEM	12/11/90	1.242	0.00	95.10	0.00	7.34
8424	75	30L	HT2	12/11/90	1.086	0.00	> 100.00	0.00	14.41
8425	75	305	CEM	12/11/90	1.242	0.00	> 100.00	0.00	0.00
8425	75	30L	HT2	12/11/90	1.086	0.00	> 100.00	0.00	2.45
8426	75	304	CEM	12/11/90	1.261	0.00	> 100.00	0.00	8.28
8426	75	30N	HT2	12/11/90	1.022	0.00	> 100.00	0.00	7.20
8427	75	304	CEM	12/11/90	1.261	0.00	> 100.00	0.00	2.96
8427	75	30N	HT2	12/11/90	1.022	0.00	> 100.00	0.00	2.10
8428	75	307	CEM	12/11/90	1.254	0.00	> 100.00	0.00	1.68
8428	75	30W	HT2	12/11/90	0.978	0.00	> 100.00	0.00	0.00
8429	75	307	CEM	12/11/90	1.254	0.00	> 100.00	0.00	5.14
8429	75	30W	HT2	12/11/90	0.978	0.00	> 100.00	0.00	0.80
8430	75	308	CEM	12/11/90	1.195	0.00	> 100.00	0.00	3.00
8430	75	300	HT2	12/11/90	1.043	0.00	> 100.00	0.00	0.92
8431	75	308	CEM	12/11/90	1.195	0.00	0.22	0.00	3.22
8431	75	300	HT2	12/11/90	1.043	0.00	> 100.00	0.00	0.05

Cumulative Summary (cont'd)

AVS No.	Sh: P- Unit	Pit Cell # Line	Test Date	Diff- rentl.	TC 50	TC 25	SI	TAI
8432	75	309 CEM	12/11/90	1.252	0.00	> 100.00	0.00	> 7.01
8432	75	309 MT2	12/11/90	0.998	0.00	> 100.00	0.00	> 0.60
8433	75	309 CEM	12/11/90	1.252	14.70	> 100.00	6.79	> 30.99
8433	75	309 CEM	07/04/91	1.477	0.00	> 100.00	0.00	> 15.66
8433	75	309 MT2	12/11/90	0.998	59.60	> 100.00	1.68	> 24.19
8434	75	30A CEM	12/11/90	1.176	66.40	> 100.00	1.51	> 7.38
8434	75	30A CEM	01/04/91	1.235	545.00	> 1000.0	1.83	> 19.90
8434	75	30A MT2	12/11/90	0.977	2.11	> 100.00	67.44	> 54.02
8435	75	30A CEM	12/11/90	1.176	0.00	> 0.14	0.00	> 0.00
8435	75	30A MT2	12/11/90	0.977	0.00	> 100.00	0.00	> 0.83
8436	75	30B CEM	12/11/90	1.271	0.00	> 2.74	0.00	> 5.48
8436	75	30B MT2	12/11/90	1.024	14.10	> 100.00	7.09	> 38.71
8437	75	30B CEM	12/11/90	1.271	0.00	> 0.18	0.00	> 11.66
8437	75	30B MT2	12/11/90	1.024	37.70	> 100.00	2.66	> 34.06
8438	75	30C CEM	12/12/90	1.361	0.00	> 15.30	0.00	> 0.00
8438	75	30C MT2	12/12/90	1.033	0.00	> 1.00	0.00	> 0.10
8439	75	30C CEM	12/12/90	1.361	0.00	> 100.00	0.00	> 4.58
8439	75	30C MT2	12/12/90	1.033	0.00	> 100.00	0.00	> 2.99
8440	75	30V CEM	12/12/90	1.248	0.00	> 29.60	0.00	> 0.00
8440	75	30V MT2	12/12/90	1.092	1.68	> 27.20	16.21	> 21.76
8441	75	30V CEM	12/12/90	1.248	0.00	> 0.23	0.00	> 0.24
8441	75	30V MT2	12/12/90	1.092	6.38	> 100.00	15.69	> 36.85
8442	75	30W CEM	12/12/90	1.180	0.00	> 100.00	0.00	> 3.51
8442	75	30W MT2	12/12/90	1.097	0.00	> 100.00	0.00	> 3.99
8443	75	30W CEM	12/12/90	1.180	0.00	> 0.19	0.00	> 1.24
8443	75	30W MT2	12/12/90	1.097	0.00	> 18.10	0.00	> 7.70
8444	75	30X CEM	12/12/90	1.506	0.00	> 100.00	0.00	> 1.19
8444	75	30X MT2	12/12/90	1.101	0.00	> 2.36	0.00	> 2.46
8445	75	30X CEM	12/12/90	1.506	0.00	> 0.22	0.00	> 3.31
8445	75	30X MT2	12/12/90	1.101	0.00	> 100.00	0.00	> 1.14
8446	75	30Y CEM	12/12/90	1.474	0.00	> 40.70	0.00	> 1.19
8446	75	30Y MT2	12/12/90	1.094	0.00	> 100.00	0.00	> 7.43
8447	75	30Y CEM	12/12/90	1.474	0.00	> 0.20	0.00	> 1.54
8447	75	30Y MT2	12/12/90	1.094	0.00	> 100.00	0.00	> 1.27
8448	75	30Z CEM	12/12/90	1.437	0.00	> 100.00	0.00	> 0.25
8448	75	30Z MT2	12/12/90	1.134	0.00	> 100.00	0.00	> 0.00
8449	75	30Z CEM	12/12/90	1.437	0.00	> 74.50	0.00	> 2.53
8449	75	30Z MT2	12/12/90	1.134	0.00	> 9.60	0.00	> 0.32
8450	75	30D CEM	12/12/90	1.391	0.00	> 12.30	0.00	> 0.00
8450	75	30D MT2	12/12/90	0.816	0.00	> 0.43	0.00	> 0.00
8451	75	30D CEM	12/12/90	1.391	0.00	> 20.60	0.00	> 0.56
8451	75	30D MT2	12/12/90	0.816	0.00	> 13.70	0.00	> 0.00
8452	75	30E CEM	12/12/90	1.362	0.00	> 14.80	0.00	> 0.00
8452	75	30E MT2	12/12/90	0.946	0.00	> 15.70	0.00	> 2.85
8453	75	30E CEM	12/12/90	1.362	0.00	> 0.22	0.00	> 1.60
8453	75	30E MT2	12/12/90	0.946	0.00	> 43.00	0.00	> 2.79
8454	75	30E CEM	12/12/90	1.290	0.00	> 100.00	0.00	> 1.48
8454	75	30E MT2	12/12/90	1.085	0.00	> 100.00	0.00	> 3.52
8455	75	30E CEM	12/12/90	1.290	85.70	> 0.32	0.00	> 9.86
8455	75	30E MT2	12/12/90	1.085	0.00	> 100.00	0.00	> 6.21
8456	75	30F CEM	12/12/90	1.164	0.00	> 100.00	0.00	> 0.20
8456	75	30F MT2	12/12/90	0.994	0.00	> 100.00	0.00	> 2.16
8457	75	30F CEM	12/12/90	1.164	0.00	> 100.00	0.00	> 1.40
8457	75	30F MT2	12/12/90	0.994	0.00	> 100.00	0.00	> 5.30
8458	75	30G CEM	12/12/90	1.482	0.00	> 25.20	0.00	> 0.61
8458	75	30G MT2	12/12/90	1.311	0.00	> 11.70	0.00	> 0.00
8459	75	30G CEM	12/12/90	1.482	0.00	> 0.28	0.00	> 0.82
8459	75	30G MT2	12/12/90	1.311	0.00	> 10.00	0.00	> 0.00
8460	75	30S CEM	12/12/90	1.343	0.00	> 56.00	0.00	> 0.03
8460	75	30S MT2	12/12/90	1.089	0.00	> 100.00	0.00	> 3.35
8461	75	30S CEM	12/12/90	1.343	0.00	> 35.40	0.00	> 0.00
8461	75	30S MT2	12/12/90	1.089	0.00	> 100.00	0.00	> 1.57
8462	75	30S CEM	12/12/90	1.344	0.00	> 100.00	0.00	> 1.50
8462	75	30S MT2	12/12/90	1.087	0.00	> 100.00	0.00	> 0.52
8463	75	30S CEM	12/12/90	1.334	0.00	> 13.10	0.00	> 0.14
8463	75	30S MT2	12/12/90	1.087	0.00	> 23.40	0.00	> 1.21
8464	75	30T CEM	12/12/90	1.197	0.00	> 58.40	0.00	> 0.00
8464	75	30T MT2	12/12/90	1.006	0.00	> 100.00	0.00	> 5.20
8465	75	30T CEM	12/12/90	1.197	0.00	> 100.00	0.00	> 0.80
8465	75	30T MT2	12/12/90	1.006	0.00	> 100.00	0.00	> 5.11
8466	75	30T CEM	12/12/90	1.278	0.00	> 100.00	0.00	> 1.47
8466	75	30T MT2	12/12/90	1.089	53.80	> 100.00	1.86	> 10.72
8467	75	30T CEM	12/12/90	1.278	0.00	> 100.00	0.00	> 1.85
8467	75	30T MT2	12/12/90	1.089	0.00	> 100.00	0.00	> 0.79
8468	75	30U CEM	12/12/90	1.273	0.00	> 83.00	0.00	> 0.00
8468	75	30U MT2	12/12/90	1.074	0.00	> 100.00	0.00	> 3.69
8469	75	30U CEM	12/12/90	1.273	100.00	> 0.31	0.00	> 7.06
8469	75	30U MT2	12/12/90	1.074	24.70	> 100.00	4.05	> 24.45

Cumulative Summary (cont'd)

AVT No.	Ship-ment	Pit Cell # Line	Test Date	Diff-ml.	IC 50	IC 25	SI	TAI
8470	75	3EA CEM	12/12/90	1.386	0.00	100.00	0.00	0.11
8471	75	3EA CEM	12/12/90	1.386	0.00	0.27	0.00	0.70
8472	75	3EB CEM	12/12/90	1.293	0.00	38.00	0.00	0.00
8473	75	3EB CEM	12/12/90	1.293	0.00	0.23	0.00	0.03
8474	75	3EC CEM	12/12/90	1.456	0.00	21.00	0.00	0.00
8475	75	3EC CEM	12/12/90	1.456	0.00	0.25	0.00	1.51
8476	75	3ET CEM	12/13/90	1.100	0.00	5.29	0.00	0.89
8476	75	3EG NT2	12/13/90	1.148	0.00	16.20	0.00	0.62
8477	75	3ET CEM	12/13/90	1.100	0.00	100.00	0.00	7.31
8477	75	3EG NT2	12/13/90	1.148	0.00	100.00	0.00	1.49
8478	75	3EU CEM	12/13/90	1.169	0.00	100.00	0.00	0.00
8478	75	3EM NT2	12/13/90	1.165	0.00	100.00	0.00	2.51
8479	75	3EU CEM	12/13/90	1.169	0.00	100.00	0.00	0.75
8479	75	3EM NT2	12/13/90	1.165	0.00	100.00	0.00	2.49
8480	75	3EV CEM	12/13/90	1.232	0.00	100.00	0.00	1.42
8480	75	3E1 NT2	12/13/90	1.150	0.00	100.00	0.00	1.70
8481	75	3EV CEM	12/13/90	1.238	0.00	76.60	0.00	0.28
8481	75	3E1 NT2	12/13/90	1.150	0.00	48.50	0.00	0.00
8482	75	3EV CEM	12/13/90	1.340	9.46	60.10	6.36	24.39
8482	75	3EJ NT2	12/13/90	1.203	15.20	49.20	3.23	18.92
8483	75	3EV CEM	12/13/90	1.340	0.00	26.10	0.00	7.19
8483	75	3EJ NT2	12/13/90	1.203	15.70	48.50	2.90	18.42
8484	75	3EX CEM	12/13/90	1.294	0.00	55.40	0.00	1.44
8484	75	3EK NT2	12/13/90	1.155	0.00	49.60	0.00	0.00
8485	75	3EX CEM	12/13/90	1.294	0.00	100.00	0.00	0.29
8485	75	3EK NT2	12/13/90	1.155	0.00	48.00	0.00	0.03
8486	75	3EY CEM	12/13/90	1.395	0.00	18.60	0.00	1.43
8486	75	3EL NT2	12/13/90	1.159	0.00	5.05	0.00	0.00
8487	75	3EY CEM	12/13/90	1.395	0.00	7.43	0.00	0.60
8487	75	3EL NT2	12/13/90	1.159	0.00	4.26	0.00	0.00
8488	75	3EZ CEM	12/13/90	1.177	0.00	25.30	0.00	1.13
8488	75	3EM H 2	12/13/90	1.161	0.00	18.50	0.00	0.20
8489	75	3EZ CEM	12/13/90	1.177	0.00	2.63	0.00	7.42
8489	75	3EM NT2	12/13/90	1.161	0.00	4.52	0.00	2.74
8490	75	3FO CEM	12/13/90	1.297	0.00	29.90	0.00	3.61
8490	75	3EM NT2	12/13/90	1.129	0.00	49.00	0.00	1.25
8491	75	3FO CEM	12/13/90	1.297	0.00	63.30	0.00	2.50
8491	75	3EM NT2	12/13/90	1.129	0.00	49.20	0.00	0.46
8492	75	3F1 CEM	12/13/90	1.340	0.00	37.70	0.00	0.05
8492	75	3EO NT2	12/13/90	1.172	0.00	45.70	0.00	0.00
8493	75	3F1 CEM	12/13/90	1.340	0.00	1.42	0.00	0.03
8493	75	3EO NT2	12/13/90	1.172	0.00	1.44	0.00	0.00
8494	75	3F2 CEM	12/13/90	1.394	0.00	5.01	0.00	0.00
8494	75	3EP NT2	12/13/90	1.121	0.00	2.93	0.00	0.03
8495	75	3F2 CEM	12/13/90	1.394	0.00	11.50	0.00	0.00
8495	75	3EP NT2	12/13/90	1.121	0.00	14.80	0.00	0.00
8496	75	3F3 CEM	12/13/90	1.357	0.00	15.80	0.00	0.00
8496	75	3EO NT2	12/13/90	1.096	0.00	4.78	0.00	0.00
8497	75	3F3 CEM	12/13/90	1.357	64.70	100.00	1.74	8.18
8497	75	3ER NT2	12/13/90	1.096	0.00	17.50	0.00	0.00
8498	75	3F4 CEM	12/13/90	1.370	0.00	100.00	0.00	0.00
8498	75	3ER NT2	12/13/90	1.092	0.00	100.00	0.00	0.35
8499	75	3F4 CEM	12/13/90	1.370	0.00	1.31	0.00	0.00
8499	75	3ER NT2	12/13/90	1.092	0.00	0.90	0.00	0.00
8500	76	4AK CEM	02/08/91	1.262	0.00	100.00	0.00	5.62
8500	76	4A7 NT2	02/08/91	1.278	0.00	100.00	0.00	0.96
8501	76	4AL CEM	02/08/91	1.074	0.00	15.50	0.00	0.70
8501	76	4AB NT2	02/08/91	1.333	25.50	19.20	0.75	3.29
8502	76	4AL CEM	02/08/91	1.074	0.00	100.00	0.00	1.83
8502	76	4AB NT2	02/08/91	1.333	0.00	53.40	0.00	0.00
8503	76	4AM CEM	02/08/91	1.173	0.00	27.10	0.00	0.00
8503	76	4A9 NT2	02/08/91	1.349	0.00	100.00	0.00	0.00
8504	76	4AM CEM	02/08/91	1.173	0.00	100.00	0.00	0.12
8504	76	4A9 NT2	02/08/91	1.349	0.00	100.00	0.00	0.00
8505	76	4AM CEM	02/08/91	1.267	0.00	36.30	0.00	4.19
8505	76	4AA NT2	02/08/91	1.335	12.00	100.00	8.55	28.81
8506	76	4AM CEM	02/08/91	1.267	0.00	100.00	0.00	2.00
8506	76	4AA NT2	02/08/91	1.335	0.00	100.00	0.00	0.03
8507	76	4AO CEM	02/08/91	0.966	0.00	58.20	0.00	1.15
8507	76	4AB NT2	02/08/91	1.274	0.00	53.20	0.00	0.65
8508	76	4AO CEM	02/08/91	0.966	0.00	100.00	0.00	2.21
8508	76	4AB NT2	02/08/91	1.274	0.00	100.00	0.00	12.20
8509	76	4AP CEM	02/08/91	1.328	0.00	0.30	0.00	0.38
8509	76	4AC NT2	02/08/91	1.347	0.00	3.76	0.00	0.00
8510	76	4AP CEM	02/08/91	1.328	0.00	64.50	0.00	0.00
8510	76	4AC NT2	02/08/91	1.347	0.00	14.60	0.00	0.00
8511	76	4AQ CEM	02/08/91	1.008	0.00	100.00	0.00	10.07
8511	76	4AO NT2	02/08/91	1.358	0.00	100.00	0.00	

Cumulative Summary (cont'd)

Avg Ship No.	Ship Name	Plt #	Cell Line	Test Date	Diff- Tntl.	TC 50	TC 25	SI	TAI
8512	76	6AB	CEM	02/08/91	1.006	0.00	32.00	0.00	1.06
8512	76	6AD	MT2	02/08/91	1.358	0.00	100.00	0.00	2.32
8513	76	6AB	CEM	02/08/91	1.016	0.00	100.00	0.00	2.92
8513	76	6AE	MT2	02/08/91	1.309	0.00	54.70	0.00	0.00
8514	76	6AB	CEM	02/08/91	1.066	15.00	100.00	6.69	31.18
8514	76	6AT	MT2	02/08/91	1.309	6.42	12.20	1.89	14.13
8515	76	6AS	CEM	02/08/91	1.073	0.00	100.00	0.00	4.38
8515	76	6AF	MT2	02/08/91	1.301	0.00	74.50	0.00	0.04
8516	76	6AS	CEM	02/08/91	1.075	0.00	45.60	0.00	0.00
8516	76	6AF	MT2	02/08/91	1.301	0.00	29.00	0.00	0.00
8517	76	6AT	CEM	02/08/91	0.827	0.00	100.00	0.00	0.00
8517	76	6AG	MT2	02/08/91	1.239	0.00	50.20	0.00	2.91
8518	76	6AT	CEM	02/08/91	0.827	0.00	100.00	0.00	0.00
8518	76	6AG	MT2	02/08/91	1.239	0.00	100.00	0.00	0.80
8519	76	6AU	CEM	02/08/91	0.887	39.90	100.00	2.51	19.94
8519	76	6AH	MT2	02/08/91	1.287	7.39	100.00	13.53	38.09
8520	24A	10E	CEM	12/28/90	0.99	0.032	0.00026	122.00	67.87
8521	24A	379	CEM	11/21/90	0.672	0.00	100.00	0.00	14.29
8521	24A	3AB	CEM	11/30/90	1.385	0.00	578.00	0.00	1.48
8521	24A	397	MT2	11/30/90	1.286	0.00	155.00	0.00	0.00
8522	24A	3AB	CEM	11/30/90	1.385	0.00	10.00	0.00	0.60
8522	24A	392	MT2	11/30/90	1.286	0.00	10.00	0.00	0.00
8523	24A	3AC	CEM	11/30/90	1.219	0.00	10.00	0.00	0.00
8523	24A	3AD	MT2	11/30/90	1.210	0.00	0.32	0.00	0.00
8524	24A	3AC	CEM	11/30/90	1.219	0.00	10.00	0.00	1.55
8524	24A	3AD	MT2	11/30/90	1.210	0.00	0.03	0.00	0.00
8525	24A	3AD	CEM	11/30/90	1.240	0.00	10.00	0.00	0.00
8525	24A	3A1	MT2	11/30/90	1.266	0.00	10.00	0.00	4.81
8526	24A	3AD	CEM	11/30/90	1.240	0.00	10.00	0.00	4.36
8526	24A	3A1	MT2	11/30/90	1.266	0.00	0.02	0.00	0.00
8527	24A	3AE	CEM	11/30/90	1.140	0.00	10.00	0.00	4.34
8527	24A	3A2	MT2	11/30/90	1.105	0.00	6.22	0.00	0.26
8528	76	31D	CEM	01/08/91	0.722	0.00	0.32	0.00	0.00
8528	76	31V	MT2	01/08/91	1.229	0.00	0.49	0.00	0.00
8529	76	31D	CEM	01/08/91	0.722	0.00	45.60	0.00	0.42
8529	76	31V	MT2	01/08/91	1.229	0.00	37.60	0.00	0.00
8530	76	31E	CEM	01/08/91	0.816	0.00	100.00	0.00	7.79
8530	76	31W	MT2	01/08/91	1.209	0.00	100.00	0.00	0.00
8531	76	31E	CEM	01/08/91	0.816	0.00	60.90	0.00	0.00
8531	76	31W	MT2	01/08/91	1.209	0.00	68.20	0.00	0.00
8532	76	31F	CEM	01/08/91	0.764	0.00	15.90	0.00	0.89
8532	76	31X	MT2	01/08/91	1.246	0.00	17.10	0.00	0.00
8533	76	31F	CEM	01/08/91	0.764	0.00	4.54	0.00	2.03
8533	76	31X	MT2	01/08/91	1.246	0.00	22.20	0.00	0.00
8534	76	31G	CEM	01/08/91	0.719	0.00	36.50	0.00	0.00
8534	76	31Y	MT2	01/08/91	1.235	0.00	61.10	0.00	0.00
8536	76	31G	CEM	01/08/91	0.719	0.00	1.76	0.00	0.00
8536	76	31Y	MT2	01/08/91	1.235	0.00	1.20	0.00	0.00
8537	76	31H	CEM	01/08/91	0.617	0.00	22.80	0.00	0.00
8537	76	31Z	MT2	01/08/91	1.254	0.00	100.00	0.00	1.30
8538	76	31H	CEM	01/08/91	0.617	0.00	13.60	0.00	0.02
8538	76	31Z	MT2	01/08/91	1.254	0.00	3.09	0.00	0.00
8539	76	31I	CEM	01/08/91	0.789	0.00	4.71	0.00	0.00
8539	76	31O	MT2	01/08/91	1.216	0.00	0.72	0.00	0.00
8540	76	31I	CEM	01/08/91	0.789	0.00	57.90	0.00	1.68
8540	76	31O	MT2	01/08/91	1.216	0.00	100.00	0.00	0.00
8541	76	31J	CEM	01/08/91	0.697	0.00	6.32	0.00	0.00
8541	76	31P	MT2	01/08/91	1.165	0.00	16.70	0.00	0.00
8542	76	31J	CEM	01/08/91	0.697	0.00	40.50	0.00	0.00
8542	76	31P	MT2	01/08/91	1.165	0.00	49.50	0.00	0.00
8543	76	31K	CEM	01/08/91	0.696	0.00	2.41	0.00	0.00
8543	76	31Q	MT2	01/08/91	1.195	0.00	5.33	0.00	0.00
8544	76	31K	CEM	01/08/91	0.696	0.00	2.76	0.00	0.06
8544	76	31Q	MT2	01/08/91	1.195	0.00	53.00	0.00	4.71
8545	76	31L	CEM	01/08/91	0.644	0.00	23.20	0.00	1.60
8545	76	313	MT2	01/08/91	1.228	0.00	65.30	0.00	1.11
8546	76	31L	CEM	01/08/91	0.644	0.00	16.60	0.00	3.48
8546	76	313	MT2	01/08/91	1.228	0.00	44.60	0.00	0.00
8547	76	31M	CEM	01/08/91	0.670	0.00	100.00	0.00	1.47
8547	76	314	MT2	01/08/91	1.207	0.00	100.00	0.00	0.08
8548	76	31M	CEM	01/08/91	0.670	0.00	1.27	0.00	0.22
8548	76	314	MT2	01/08/91	1.207	0.00	2.93	0.00	0.00
8549	76	31N	CEM	01/08/91	0.606	0.00	66.70	0.00	4.69
8549	76	315	MT2	01/08/91	1.181	0.00	66.70	0.00	0.40
8550	76	31N	CEM	01/08/91	0.606	0.00	100.00	0.00	0.55
8550	76	315	MT2	01/08/91	1.181	0.00	92.70	0.00	0.00
8551	76	319	CEM	01/09/91	0.822	0.00	16.80	0.00	0.00
8551	76	31P	MT2	01/09/91	1.334	0.00	29.60	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt Coil # Line	Test Date	Diff- mtl.	IC 5G	TC 25	SI	TAI
8552	76	3I9 CEM	01/09/91	0.822	0.00	6.67	0.00	0.25
8552	76	3I9 MT2	01/09/91	1.334	0.00	0.20	0.00	0.00
8553	76	3IA CEM	01/09/91	0.759	0.00	50.50	0.00	0.31
8553	76	3I0 MT2	01/09/91	1.340	0.00	61.00	0.00	0.60
8554	76	3IA CEM	01/09/91	0.755	0.00	13.90	0.00	0.40
8554	76	3I0 MT2	01/09/91	1.380	0.00	14.50	0.00	0.00
8555	76	3I8 CEM	01/09/91	0.769	100.00	100.00	1.00	6.77
8555	76	3I8 MT2	01/09/91	1.373	0.00	65.30	0.00	0.13
8556	76	3I8 CEM	01/09/91	0.769	0.00	73.30	0.00	0.30
8556	76	3I1 MT2	01/09/91	1.375	0.00	100.00	0.00	2.20
8557	76	3I0 CEM	01/09/91	0.659	0.00	14.80	0.00	0.00
8557	76	3I8 MT2	01/09/91	1.447	0.00	13.10	0.00	0.00
8558	76	3I0 CEM	01/09/91	0.659	0.00	100.00	0.00	0.00
8558	76	3I8 MT2	01/09/91	1.447	0.00	100.00	0.00	0.00
8559	76	3I0 CEM	01/09/91	0.769	0.00	100.00	0.00	5.11
8559	76	3I1 MT2	01/09/91	1.399	0.00	100.00	0.00	0.00
8560	76	3I0 CEM	01/09/91	0.769	0.00	100.00	0.00	3.65
8560	76	3I1 MT2	01/09/91	1.399	0.00	100.00	0.00	0.00
8561	76	3I4 CEM	01/09/91	0.717	0.00	2.41	0.00	0.00
8561	76	3I0 MT2	01/09/91	1.303	0.00	3.02	0.00	0.00
8562	76	3I4 CEM	01/09/91	0.717	0.00	100.00	0.00	1.15
8562	76	3I0 MT2	01/09/91	1.303	0.00	24.40	0.00	0.00
8563	76	3I4 CEM	01/09/91	0.774	0.00	92.40	0.00	1.04
8563	76	3I1 MT2	01/09/91	1.381	0.00	100.00	0.00	0.06
8564	76	3I4 CEM	01/09/91	0.774	0.00	95.50	0.00	4.21
8564	76	3I1 MT2	01/09/91	1.381	0.00	81.00	0.00	0.00
8565	76	3I0 CEM	01/09/91	0.797	0.00	100.00	0.00	0.00
8565	76	3I1 MT2	01/09/91	1.405	0.00	100.00	0.00	0.32
8566	76	3I0 CEM	01/09/91	0.797	0.00	100.00	0.00	0.00
8566	76	3I1 MT2	01/09/91	1.405	0.00	100.00	0.00	0.00
8567	76	3I0 CEM	01/09/91	0.732	0.00	100.00	0.00	0.00
8567	76	3I1 MT2	01/09/91	1.349	0.00	100.00	0.00	0.00
8568	76	3I0 CEM	01/09/91	0.732	0.00	100.00	0.00	0.02
8568	76	3I1 MT2	01/09/91	1.349	0.00	100.00	0.00	0.00
8569	76	3I1 CEM	01/09/91	0.699	0.00	15.50	0.00	0.00
8569	76	3I1 MT2	01/09/91	1.406	0.00	13.60	0.00	0.00
8570	76	3I1 CEM	01/09/91	0.699	0.00	8.43	0.00	0.00
8570	76	3I1 MT2	01/09/91	1.406	0.00	15.50	0.00	0.00
8571	76	3I0 CEM	01/09/91	0.723	0.00	100.00	0.00	1.59
8571	76	3I2 MT2	01/09/91	1.363	0.00	15.50	0.00	0.03
8572	76	3I0 CEM	01/09/91	0.738	0.00	12.90	0.00	3.02
8572	76	3I2 MT2	01/09/91	1.363	0.00	8.24	0.00	0.00
8573	76	3I0 CEM	01/09/91	0.710	0.00	33.70	0.00	0.00
8573	76	3I0 MT2	01/09/91	1.372	0.00	10.00	0.00	0.00
8574	76	3I0 CEM	01/09/91	0.710	0.00	46.00	0.00	0.00
8574	76	3I0 MT2	01/09/91	1.372	0.00	21.80	0.00	0.15
8575	76	3I0 CEM	01/09/91	0.551	0.00	32.00	0.00	0.00
8575	76	3I1 MT2	01/09/91	1.136	0.00	7.35	0.00	0.20
8576	76	3I0 CEM	01/09/91	0.551	0.00	41.90	0.00	0.00
8576	76	3I1 MT2	01/09/91	1.136	0.00	50.90	0.00	0.85
8577	76	3I0 CEM	01/09/91	0.769	0.00	2.10	0.00	0.33
8577	76	3I2 MT2	01/09/91	1.271	0.00	16.70	0.00	0.00
8578	76	3I0 CEM	01/09/91	0.769	0.00	10.00	0.00	0.00
8578	76	3I2 MT2	01/09/91	1.271	0.00	7.28	0.00	0.00
8579	76	3I0 CEM	01/09/91	0.715	0.00	8.51	0.00	3.71
8579	76	3I3 MT2	01/09/91	1.346	0.00	16.30	0.00	0.44
8580	76	3I0 CEM	01/09/91	0.715	0.00	37.40	0.00	0.00
8580	76	3I3 MT2	01/09/91	1.340	0.00	17.90	0.00	0.29
8581	76	3I0 CEM	01/09/91	0.724	0.00	29.30	0.00	0.11
8581	76	3I4 MT2	01/09/91	1.313	0.00	7.45	0.00	0.21
8582	76	3I0 CEM	01/09/91	0.724	0.00	14.80	0.00	0.00
8582	76	3I4 MT2	01/09/91	1.313	0.00	34.40	0.00	0.00
8583	76	3I0 CEM	01/09/91	0.694	0.00	3.20	0.00	0.00
8583	76	3I5 MT2	01/09/91	1.353	0.00	5.82	0.00	0.32
8584	76	3I0 CEM	01/09/91	0.694	0.00	20.30	0.00	0.00
8584	76	3I5 MT2	01/09/91	1.353	0.00	5.82	0.00	0.00
8585	76	3I0 CEM	01/09/91	0.643	0.00	29.30	0.00	4.63
8585	76	3I6 MT2	01/09/91	1.326	0.00	80.60	0.00	0.45
8586	76	3I0 CEM	01/09/91	0.643	0.00	2.41	0.00	0.00
8586	76	3I6 MT2	01/09/91	1.326	0.00	15.50	0.00	0.52
8587	76	3I0 CEM	01/09/91	0.655	0.00	61.80	0.00	0.00
8587	76	3I7 MT2	01/09/91	1.332	0.00	42.60	0.00	0.17
8588	76	3I0 CEM	01/09/91	0.655	0.00	48.50	0.00	0.00
8588	76	3I7 MT2	01/09/91	1.332	0.00	55.90	0.00	0.00
8589	76	3I8 CEM	01/11/91	0.711	0.00	8.68	0.00	1.55
8589	76	3I8 MT2	01/11/91	1.333	0.00	4.54	0.00	0.00
8590	76	3I8 CEM	01/11/91	0.711	0.00	20.10	0.00	0.00
8590	76	3I8 MT2	01/11/91	1.333	0.00	3.85	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit Cell # Line	Test Date	Diff-mnt.	IC 50	TC 25	SI	TAI
8591	76	3L9 CEM	01/11/91	0.829	0.00	19.70	0.00	1.59
8591	76	3K0 HT2	01/11/91	1.293	0.00	28.10	0.00	0.00
8592	76	3L9 CEM	01/11/91	0.829	0.00	100.00	0.00	0.00
8592	76	3K0 HT2	01/11/91	1.293	0.00	64.80	0.00	0.00
8593	76	3LA CEM	01/11/91	0.745	0.00	0.32	0.00	5.78
8593	76	3KP HT2	01/11/91	1.260	0.00	16.80	0.00	0.00
8594	76	3LA CEM	01/11/91	0.745	0.00	100.00	0.00	2.71
8594	76	3KP HT2	01/11/91	1.260	0.00	100.00	0.00	0.00
8595	76	3LB CEM	01/11/91	0.706	0.00	59.20	0.00	0.00
8595	76	3KQ HT2	01/11/91	1.218	0.00	30.60	0.00	0.00
8596	76	3LB CEM	01/11/91	0.706	0.00	100.00	0.00	0.25
8596	76	3KQ HT2	01/11/91	1.218	0.00	100.00	0.00	0.00
8597	76	3LC CEM	01/11/91	0.711	0.00	100.00	0.00	1.95
8597	76	3KR HT2	01/11/91	1.270	0.00	100.00	0.00	0.00
8598	76	3LC CEM	01/11/91	0.711	0.00	1.03	0.00	0.29
8598	76	3KR HT2	01/11/91	1.270	0.00	1.76	0.00	0.00
8599	76	3LD CEM	01/11/91	0.684	0.00	100.00	0.00	0.00
8599	76	3AG HT2	01/11/91	1.288	0.00	100.00	0.00	0.08
8600	76	3LD CEM	01/11/91	0.684	0.00	100.00	0.00	1.67
8600	76	3KS HT2	01/11/91	1.288	0.00	100.00	0.00	0.00
8601	76	3LE CEM	01/11/91	0.780	0.00	33.80	0.00	4.21
8601	76	3KT HT2	01/11/91	1.262	0.00	43.10	0.00	0.15
8602	76	3LE CEM	01/11/91	0.780	0.00	28.50	0.00	1.01
8602	76	3KT HT2	01/11/91	1.262	0.00	20.20	0.00	0.00
8603	76	3LF CEM	01/11/91	0.754	0.00	100.00	0.00	1.80
8603	76	3KU HT2	01/11/91	1.251	0.00	100.00	0.00	2.16
8604	76	3LF CEM	01/11/91	0.754	0.00	100.00	0.00	0.56
8604	76	3KU HT2	01/11/91	1.251	0.00	100.00	0.00	0.00
8605	76	3LG CEM	01/11/91	0.812	0.00	16.80	0.00	1.36
8605	76	3KV HT2	01/11/91	1.236	0.00	11.80	0.00	0.00
8606	76	3LG CEM	01/11/91	0.812	0.00	100.00	0.00	0.97
8606	76	3KV HT2	01/11/91	1.236	0.00	100.00	0.00	0.00
8607	76	3LH CEM	01/11/91	0.709	0.00	100.00	0.00	2.55
8607	76	3KW HT2	01/11/91	1.289	0.00	100.00	0.00	0.00
8608	76	3LH CEM	01/11/91	0.709	0.00	91.50	0.00	1.85
8608	76	3KW HT2	01/11/91	1.289	0.00	100.00	0.00	0.00
8609	76	3LI CEM	01/11/91	0.800	0.00	0.81	0.00	4.82
8609	76	3MX HT2	01/11/91	1.280	0.00	100.00	0.00	0.00
8610	76	3LI CEM	01/11/91	0.800	0.00	100.00	0.00	3.94
8610	76	3MX HT2	01/11/91	1.280	0.00	100.00	0.00	0.00
8611	76	3LJ CEM	01/11/91	0.684	0.00	31.20	0.00	0.00
8611	76	3KY HT2	01/11/91	1.263	0.00	100.00	0.00	0.00
8612	76	3LJ CEM	01/11/91	0.684	0.00	100.00	0.00	1.86
8613	76	3KY HT2	01/11/91	1.263	0.00	100.00	0.00	0.00
8613	76	3LK CEM	01/11/91	0.657	0.00	100.00	0.00	6.81
8613	76	3K2 HT2	01/11/91	1.235	0.00	100.00	0.00	0.00
8614	76	3LK CEM	01/11/91	0.657	0.00	9.06	0.00	0.00
8614	76	3K2 HT2	01/11/91	1.235	0.00	3.49	0.00	0.00
8615	76	3LL CEM	01/11/91	0.665	0.00	15.90	0.00	0.00
8615	76	3LO HT2	01/11/91	1.274	0.00	13.00	0.00	0.00
8616	76	3LL CEM	01/11/91	0.665	0.00	0.17	0.00	0.00
8616	76	3LO HT2	01/11/91	1.274	0.00	8.80	0.00	0.00
8617	76	3LM CEM	01/11/91	0.776	0.00	3.20	0.00	0.25
8617	76	3L1 HT2	01/11/91	1.233	0.00	100.00	0.00	0.00
8618	76	3LM CEM	01/11/91	0.776	0.00	3.68	0.00	0.00
8618	76	3L1 HT2	01/11/91	1.233	0.00	0.89	0.00	0.00
8619	76	3LN CEM	01/11/91	0.689	0.00	4.75	0.00	4.97
8619	76	3L2 HT2	01/11/91	1.270	0.00	2.28	0.00	0.00
8620	76	3LN CEM	01/11/91	0.689	0.00	3.54	0.00	0.00
8620	76	3L2 HT2	01/11/91	1.270	0.00	3.67	0.00	0.00
8621	76	3LO CEM	01/11/91	0.745	0.00	2.79	0.00	0.12
8621	76	3L3 HT2	01/11/91	1.331	0.00	0.61	0.00	0.00
8622	76	3LO CEM	01/11/91	0.745	0.00	3.20	0.00	0.00
8622	76	3L3 HT2	01/11/91	1.331	0.00	1.92	0.00	0.00
8623	76	3LP CEM	01/11/91	0.749	0.00	100.00	0.00	7.44
8623	76	3L4 HT2	01/11/91	1.282	0.00	100.00	0.00	0.00
8624	76	3LP CEM	01/11/91	0.749	0.00	3.20	0.00	2.69
8624	76	3L4 HT2	01/11/91	1.282	0.00	100.00	0.00	0.00
8625	76	3LQ CEM	01/11/91	0.662	0.00	100.00	0.00	6.61
8625	76	3L5 HT2	01/11/91	1.229	0.00	100.00	0.00	0.00
8626	76	3LQ CEM	01/11/91	0.662	0.00	38.60	0.00	1.32
8626	76	3L5 HT2	01/11/91	1.229	0.00	1.73	0.00	0.00
8627	76	47I CEM	01/29/91	0.790	0.00	21.70	0.00	1.62
8627	76	46Y HT2	01/29/91	1.439	0.00	10.60	0.00	0.00
8628	76	47I CEM	01/29/91	0.790	0.00	63.20	0.00	1.27
8628	76	46Y HT2	01/29/91	1.439	0.00	100.00	0.00	0.00
8629	76	47J CEM	01/29/91	0.892	0.00	10.00	0.00	3.91
8629	76	46Z HT2	01/29/91	1.382	0.00	4.11	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Call Line	Test Date	Diff- rntl.	IC 50	TC 25	SI	TAI
8630	76	47J	CEM	01/29/91	0.892	0.00	13.30	0.00	2.80
8630	76	48Z	MT2	01/29/91	1.382	0.00	7.86	0.00	0.00
8631	76	47K	CEM	01/29/91	0.827	0.00	100.00	0.00	2.60
8631	76	47D	MT2	01/29/91	1.443	0.00	> 100.00	0.00	0.00
8632	76	47K	CEM	01/29/91	0.827	0.00	> 100.00	0.00	2.46
8632	76	47D	MT2	01/29/91	1.443	0.00	> 100.00	0.00	0.00
8633	76	47L	CEM	01/29/91	0.861	0.00	> 100.00	0.00	1.25
8633	76	47I	MT2	01/29/91	1.388	0.00	> 100.00	0.00	0.27
8634	76	47L	CEM	01/29/91	0.861	0.00	> 100.00	0.00	1.87
8634	76	47I	MT2	01/29/91	1.388	0.00	> 100.00	0.00	0.22
8635	76	47M	CEM	01/29/91	0.653	0.00	> 100.00	0.00	4.76
8635	76	472	MT2	01/29/91	1.381	0.00	> 100.00	0.00	0.00
8636	76	47M	CEM	01/29/91	0.653	0.00	4.90	0.00	1.19
8636	76	472	MT2	01/29/91	1.381	0.00	4.58	0.00	0.00
8637	76	47N	CEM	01/29/91	0.807	0.00	7.67	0.00	3.02
8637	76	473	MT2	01/29/91	0.810	0.00	7.92	0.00	2.89
8638	76	47N	CEM	01/29/91	0.807	0.00	13.60	0.00	0.00
8638	76	473	MT2	01/29/91	0.810	0.00	13.50	0.00	0.06
8639	76	47O	CEM	01/29/91	0.771	0.00	69.80	0.00	1.79
8639	76	474	MT2	01/29/91	0.781	0.00	54.72	0.00	1.15
8640	76	47O	CEM	01/29/91	0.771	0.00	5.05	0.00	0.00
8640	76	474	MT2	01/29/91	0.781	0.00	5.20	0.00	0.00
8641	76	47P	CEM	01/29/91	0.801	0.00	4.37	0.00	1.03
8641	76	475	MT2	01/29/91	1.422	0.00	1.68	0.00	0.08
8642	76	47P	CEM	01/29/91	0.801	0.00	6.37	0.00	1.29
8642	76	475	MT2	01/29/91	1.422	0.00	> 100.00	0.00	0.00
8643	76	47Q	CEM	01/29/91	0.771	0.00	10.00	0.00	2.99
8643	76	476	MT2	01/29/91	1.382	0.00	3.76	0.00	0.00
8644	76	47Q	CEM	01/29/91	0.771	0.00	> 100.00	0.00	0.82
8644	76	476	MT2	01/29/91	1.382	0.00	> 100.00	0.00	0.73
8645	76	47R	CEM	01/29/91	0.820	0.00	49.00	0.00	0.25
8645	76	477	MT2	01/29/91	0.848	0.00	50.80	0.00	0.25
8646	76	47R	CEM	01/29/91	0.820	0.00	5.41	0.00	0.28
8646	76	477	MT2	01/29/91	0.848	0.00	4.62	0.00	0.00
8647	76	47S	CEM	01/29/91	0.832	0.00	> 100.00	0.00	5.43
8647	76	478	MT2	01/29/91	0.863	0.00	> 100.00	0.00	7.01
8648	76	47S	CEM	01/29/91	0.862	0.00	> 100.00	0.00	2.85
8648	76	478	MT2	01/29/91	0.863	0.00	> 100.00	0.00	3.10
8649	76	47T	CEM	01/29/91	0.842	0.00	59.70	0.00	0.00
8649	76	479	MT2	01/29/91	0.852	0.00	63.60	0.00	0.00
8650	76	47T	CEM	01/29/91	0.842	0.00	> 100.00	0.00	0.00
8650	76	479	MT2	01/29/91	0.852	0.00	> 100.00	0.00	0.08
8651	76	47U	CEM	01/29/91	0.814	0.00	> 100.00	0.00	0.50
8651	76	47A	MT2	01/29/91	0.823	0.00	> 100.00	0.00	0.60
8652	76	47U	CEM	01/29/91	0.814	0.00	> 100.00	0.00	5.82
8652	76	47A	MT2	01/29/91	0.823	0.00	> 100.00	0.00	4.64
8653	76	47V	CEM	01/29/91	0.739	0.00	5.82	0.00	5.25
8653	76	47B	MT2	01/29/91	0.760	0.00	5.70	0.00	5.17
8654	76	47V	CEM	01/29/91	0.739	0.00	18.90	0.00	4.89
8654	76	47B	MT2	01/29/91	0.760	0.00	18.80	0.00	4.97
8655	76	47V	CEM	01/29/91	0.743	0.00	15.60	0.00	3.20
8655	76	47C	MT2	01/29/91	0.751	0.00	15.60	0.00	2.70
8656	76	47V	CEM	01/29/91	0.743	0.00	5.94	0.00	1.77
8656	76	47C	MT2	01/29/91	0.751	0.00	6.08	0.00	1.52
8657	76	47X	CEM	01/29/91	0.825	0.00	> 100.00	0.00	8.35
8657	76	47D	MT2	01/29/91	0.841	0.00	> 100.00	0.00	9.89
8658	76	47X	CEM	01/29/91	0.825	0.00	19.20	0.00	5.99
8658	76	47D	MT2	01/29/91	0.841	0.00	18.90	0.00	6.06
8659	76	47Y	CEM	01/29/91	0.880	0.00	62.00	0.00	0.00
8659	76	47E	MT2	01/29/91	0.908	0.00	61.80	0.00	0.00
8660	76	47Y	CEM	01/29/91	0.580	0.00	24.40	0.00	0.00
8660	76	47E	MT2	01/29/91	0.908	0.00	24.10	0.00	0.00
8661	76	47Z	CEM	01/29/91	0.843	0.00	> 100.00	0.00	0.82
8661	76	47F	MT2	01/29/91	0.867	0.00	> 100.00	0.00	0.71
8662	76	47Z	CEM	01/29/91	0.843	0.00	5.47	0.00	0.83
8662	76	47F	MT2	01/29/91	0.867	0.00	5.60	0.00	0.56
8663	76	480	CEM	01/29/91	0.892	0.00	8.30	0.00	0.00
8663	76	47G	MT2	01/29/91	0.921	0.00	8.80	0.00	0.00
8664	76	480	CEM	01/29/91	0.892	0.00	100.00	0.00	0.01
8664	76	47G	MT2	01/29/91	0.921	0.00	79.60	0.00	0.01
8665	76	480	CEM	01/31/91	0.946	44.80	> 100.00	2.23	13.68
8665	76	482	MT2	01/31/91	1.448	0.00	> 100.00	0.00	1.39
8666	76	480	CEM	01/31/91	0.946	0.00	> 100.00	0.00	1.29
8666	76	482	MT2	01/31/91	1.448	0.00	> 100.00	0.00	0.00
8667	76	480	CEM	01/31/91	0.914	0.00	> 100.00	0.00	1.31
8667	76	483	MT2	01/31/91	1.458	0.00	81.90	0.00	0.00
8668	76	480	CEM	01/31/91	0.914	0.00	> 100.00	0.00	0.71
8668	76	483	MT2	01/31/91	1.458	0.00	> 100.00	0.00	0.08

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- rmtl.	IC 50	TC 25	SI	TAI
8669	76	483	CEM	01/31/91	0.959	0.00	3.04	0.00	0.00
8669	76	484	MT2	01/31/91	1.484	0.00	100.00	0.00	0.00
8670	76	480	CEM	01/31/91	0.959	0.00	0.64	0.00	0.00
8670	76	484	MT2	01/31/91	1.484	0.00	70.10	0.00	0.10
8671	76	489	CEM	01/31/91	0.894	0.00	100.00	0.00	0.00
8671	76	485	MT2	01/31/91	1.441	0.00	41.40	0.00	0.00
8672	76	489	CEM	01/31/91	0.894	0.00	100.00	0.00	0.00
8672	76	485	MT2	01/31/91	1.441	0.00	100.00	0.00	0.00
8673	76	480	CEM	01/31/91	0.917	0.00	54.70	0.00	0.99
8673	76	486	MT2	01/31/91	1.462	0.00	100.00	0.00	0.00
8674	76	480	CEM	01/31/91	0.917	0.00	100.00	0.00	0.00
8674	76	486	MT2	01/31/91	1.462	0.00	100.00	0.00	0.00
8675	76	48R	CEM	01/31/91	0.876	0.00	100.00	0.00	0.25
8675	76	487	MT2	01/31/91	1.442	0.00	89.10	0.00	0.00
8676	76	48R	CEM	01/31/91	0.876	0.00	100.00	0.00	0.00
8676	76	487	MT2	01/31/91	1.442	0.00	100.00	0.00	0.10
8677	76	48S	CEM	01/31/91	0.916	0.00	44.40	0.00	0.00
8677	76	488	MT2	01/31/91	1.446	0.00	100.00	0.00	0.00
8678	76	48S	CEM	01/31/91	0.916	0.00	100.00	0.00	0.00
8678	76	488	MT2	01/31/91	1.446	0.00	100.00	0.00	0.00
8679	76	48T	CEM	01/31/91	0.877	0.00	25.60	0.00	0.00
8679	76	489	MT2	01/31/91	1.454	0.00	100.00	0.00	0.00
8680	76	48T	CEM	01/31/91	0.877	0.00	72.80	0.00	0.00
8680	76	489	MT2	01/31/91	1.454	0.00	6.36	0.00	0.00
8681	76	48U	CEM	01/31/91	0.790	0.00	0.71	0.00	0.57
8681	76	48A	MT2	01/31/91	1.487	0.00	100.00	0.00	0.00
8682	76	48U	CEM	01/31/91	0.790	0.00	0.32	0.00	0.00
8682	76	48A	MT2	01/31/91	1.487	0.00	100.00	0.00	0.00
8683	76	48V	CEM	01/31/91	0.760	0.00	100.00	0.00	0.00
8683	76	48B	MT2	01/31/91	1.418	0.00	100.00	0.00	0.00
8684	76	48V	CEM	01/31/91	0.760	0.00	20.40	0.00	0.00
8684	76	48B	MT2	01/31/91	1.418	0.00	100.00	0.00	0.00
8685	76	48W	CEM	01/31/91	0.716	0.00	100.00	0.00	0.00
8685	76	48C	MT2	01/31/91	1.397	0.00	100.00	0.00	0.00
8686	76	48W	CEM	01/31/91	0.716	0.00	41.80	0.00	0.00
8686	76	48C	MT2	01/31/91	1.397	0.00	41.10	0.00	0.00
8687	76	48X	CEM	01/31/91	0.761	0.00	100.00	0.00	0.00
8687	76	48D	MT2	01/31/91	1.186	0.00	100.00	0.00	2.19
8688	76	48X	CEM	01/31/91	0.761	0.00	91.50	0.00	0.00
8688	76	48D	MT2	01/31/91	1.186	0.00	100.00	0.00	0.60
8689	76	48Y	CEM	01/31/91	0.632	0.00	100.00	0.00	9.00
8689	76	48E	MT2	01/31/91	1.378	0.00	18.30	0.00	0.00
8690	76	48Y	CEM	01/31/91	0.632	0.00	100.00	0.00	2.84
8690	76	48E	MT2	01/31/91	1.378	0.00	100.00	0.00	0.00
8691	76	48Z	CEM	01/31/91	0.785	0.00	10.00	0.00	0.01
8691	76	48F	MT2	01/31/91	1.418	0.00	38.80	0.00	0.00
8692	76	48Z	CEM	01/31/91	0.785	0.00	100.00	0.00	0.64
8692	76	48T	MT2	01/31/91	1.418	0.00	100.00	0.00	0.04
8693	76	490	CEM	01/31/91	0.713	0.00	100.00	0.00	0.00
8693	76	48G	MT2	01/31/91	1.363	0.00	100.00	0.00	0.40
8694	76	490	CEM	01/31/91	0.713	0.00	66.00	0.00	0.00
8694	76	48G	MT2	01/31/91	1.363	0.00	13.40	0.00	0.13
8695	76	491	CEM	01/31/91	0.745	0.00	100.00	0.00	1.16
8695	76	48H	MT2	01/31/91	1.414	0.00	100.00	0.00	0.00
8696	76	491	CEM	01/31/91	0.745	0.00	100.00	0.00	0.42
8696	76	48H	MT2	01/31/91	1.414	0.00	6.00	0.00	0.09
8697	76	492	CEM	01/31/91	0.793	0.00	95.80	0.00	0.00
8697	76	48I	MT2	01/31/91	1.411	0.00	100.00	0.00	0.00
8698	76	492	CEM	01/31/91	0.793	0.00	100.00	0.00	2.31
8698	76	48I	MT2	01/31/91	1.411	0.00	100.00	0.00	0.00
8699	76	493	CEM	01/31/91	0.741	0.00	100.00	0.00	9.18
8699	76	48J	MT2	01/31/91	1.427	0.00	52.70	0.00	0.00
8700	76	493	CEM	01/31/91	0.741	0.00	100.00	0.00	0.07
8700	76	48J	MT2	01/31/91	1.427	0.00	100.00	0.00	0.10
8701	76	494	CEM	01/31/91	0.794	0.32	100.00	312.50	86.73
8701	76	48K	MT2	01/31/91	1.423	0.32	100.00	312.50	95.21
8702	76	494	CEM	01/31/91	0.794	0.32	100.00	312.50	96.83
8702	76	48K	MT2	01/31/91	1.423	0.32	100.00	312.50	92.21
8704	76	317	CEM	01/08/91	0.655	0.00	100.00	0.00	1.44
8704	76	349	MT2	01/08/91	1.299	0.00	100.00	0.00	0.00
8705	27A	308	CEM	01/21/91	0.643	0.00	100.00	0.00	3.74
8705	27A	302	MT2	01/21/91	1.326	0.00	100.00	0.00	2.10
8706	27A	308	CEM	01/21/91	0.643	0.00	100.00	0.00	3.20
8706	27A	302	MT2	01/21/91	1.326	0.00	100.00	0.00	0.70
8707	27A	307	CEM	01/21/91	0.861	0.00	6.41	0.00	2.63
8707	27A	303	MT2	01/21/91	1.362	0.00	15.20	0.00	0.00
8708	27A	307	CEM	01/21/91	0.861	0.00	90.30	0.00	5.31
8708	27A	303	MT2	01/21/91	1.362	0.00	51.80	0.00	0.40

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Plc #	Call Line	Test Date	Diff- mtl.	IC 50	TC 25	SI	TAI
8709	27A	30U	CEM	01/21/91	0.976	0.00	23.20	0.00	0.00
8709	27A	30A	MT2	01/21/91	1.407	0.00	> 100.00	0.00	> 1.60
8710	27A	30U	CEM	01/21/91	0.976	0.00	13.60	0.00	3.17
8710	27A	30A	MT2	01/21/91	1.407	0.00	> 16.30	0.00	> 1.60
8711	27A	30V	CEM	01/21/91	0.915	0.00	< 0.32	0.00	0.00
8711	27A	40A	CEM	02/22/91	0.682	0.00	0.03	0.00	> 0.29
8711	27A	30S	MT2	01/21/91	1.375	0.00	0.62	0.00	0.00
8711	27A	40M	MT2	02/22/91	1.285	0.00	0.23	0.00	0.60
8712	27A	30V	CEM	01/21/91	0.915	0.00	18.90	0.00	> 4.60
8712	27A	30S	MT2	01/21/91	1.375	0.00	36.40	0.00	> 0.90
8713	27A	30W	CEM	01/21/91	0.907	0.00	1.80	0.00	> 2.24
8713	27A	4C2	MT2	02/21/91	0.944	0.00	0.38	0.00	0.00
8714	27A	30M	CEM	01/21/91	0.907	0.00	> 100.00	0.00	> 3.45
8714	27A	30B	MT2	01/21/91	0.726	0.00	> 100.00	0.00	> 4.75
8715	27A	30X	CEM	01/21/91	0.913	0.00	4.68	0.00	> 3.09
8715	27A	307	MT2	01/21/91	1.381	0.00	5.12	0.00	> 0.61
8716	27A	30X	CEM	01/21/91	0.913	0.00	> 100.00	0.00	> 2.70
8716	27A	307	MT2	01/21/91	1.381	0.00	> 100.00	0.00	> 0.02
8717	27A	30Y	CEM	01/21/91	0.834	0.00	51.30	0.00	2.83
8717	27A	30B	MT2	01/21/91	1.370	0.00	19.40	0.00	> 1.73
8718	27A	30Y	CEM	01/21/91	0.834	0.00	> 100.00	0.00	0.00
8718	27A	30B	MT2	01/21/91	1.370	0.00	> 100.00	0.00	> 1.00
8719	27A	30Z	CEM	01/21/91	0.904	27.10	> 100.00	> 3.69	> 24.91
8719	27A	40B	CEM	02/21/91	0.833	0.00	403.00	0.00	8.80
8719	27A	309	MT2	01/21/91	1.383	2.32	> 100.00	> 43.17	> 48.89
8720	27A	30Z	CEM	01/21/91	0.904	4.25	> 100.00	> 23.50	> 54.25
8720	27A	40B	CEM	02/21/91	0.833	6.52	67.40	10.34	34.53
8720	27A	309	MT2	01/21/91	1.383	6.32	> 100.00	> 15.82	> 48.30
8721	27A	3P0	CEM	01/21/91	0.970	0.00	54.70	0.00	2.78
8721	27A	30A	MT2	01/21/91	1.404	0.00	> 100.00	0.00	> 1.50
8722	27A	3P0	CEM	01/21/91	0.970	22.60	45.90	2.04	12.98
8722	27A	4D9	CEM	02/21/91	0.911	39.60	> 100.00	> 2.52	> 11.42
8722	27A	30A	MT2	01/21/91	1.404	0.00	> 100.00	0.00	> 0.10
8723	27A	3P1	CEM	01/21/91	0.943	0.00	54.70	0.00	0.00
8723	27A	30B	MT2	01/21/91	1.363	0.00	> 100.00	0.00	> 2.00
8724	27A	3P1	CEM	01/21/91	0.943	0.00	> 100.00	0.00	> 7.30
8724	27A	30B	MT2	01/21/91	1.363	0.00	> 100.00	0.00	> 3.30
8725	27A	3P2	CEM	01/21/91	1.027	0.00	13.00	0.00	0.00
8725	27A	30C	MT2	01/21/91	1.389	0.00	21.70	0.00	> 2.31
8726	27A	3P2	CEM	01/21/91	1.027	0.00	86.80	0.00	2.12
8726	27A	30C	MT2	01/21/91	1.389	0.00	> 100.00	0.00	> 0.50
8727	27A	3P3	CEM	01/21/91	0.884	0.00	32.00	0.00	1.66
8727	27A	30D	MT2	01/21/91	1.389	0.00	> 100.00	0.00	0.00
8728	27A	3P3	CEM	01/21/91	0.884	0.00	> 100.00	0.00	> 4.35
8728	27A	30D	MT2	01/21/91	1.389	0.00	> 100.00	0.00	0.34
8729	27A	3P4	CEM	01/21/91	0.970	0.00	32.00	0.00	0.00
8729	27A	30E	MT2	01/21/91	1.322	0.00	> 100.00	0.00	0.15
8730	27A	3P4	CEM	01/21/91	0.970	0.00	93.20	0.00	0.00
8730	27A	30E	MT2	01/21/91	1.322	0.00	> 100.00	0.00	0.03
8731	27A	3P5	CEM	01/21/91	1.176	0.00	21.00	0.00	0.76
8731	27A	30F	MT2	01/21/91	1.390	0.00	> 100.00	0.00	0.11
8732	27A	3P5	CEM	01/21/91	1.176	0.00	> 100.00	0.00	> 5.24
8732	27A	30F	MT2	01/21/91	1.390	0.00	> 100.00	0.00	> 0.30
8733	27A	3P6	CEM	01/21/91	1.032	0.00	22.20	0.00	0.00
8733	27A	30G	MT2	01/21/91	1.386	0.00	> 100.00	0.00	> 1.40
8734	27A	3P6	CEM	01/21/91	1.032	0.00	4.98	0.00	> 1.42
8734	27A	30G	MT2	01/21/91	1.386	0.00	3.74	0.00	> 0.02
8735	27A	3P7	CEM	01/21/91	0.948	0.00	5.02	0.00	1.94
8735	27A	30H	MT2	01/21/91	1.373	0.00	11.60	0.00	0.00
8736	27A	3P7	CEM	01/21/91	0.948	0.00	1.79	0.00	0.00
8736	27A	30H	MT2	01/21/91	1.373	0.00	1.50	0.00	0.00
8737	27A	3P8	CEM	01/21/91	0.949	0.00	62.90	0.00	0.00
8737	27A	30I	MT2	01/21/91	1.354	0.00	> 100.00	0.00	> 2.10
8738	27A	3P8	CEM	01/21/91	0.949	0.00	66.00	0.00	> 0.32
8738	27A	30I	MT2	01/21/91	1.354	0.00	> 100.00	0.00	> 1.95
8739	27A	3P9	CEM	01/21/91	0.943	0.00	42.30	0.00	0.00
8739	27A	30J	MT2	01/21/91	1.273	0.00	43.30	0.00	0.00
8740	27A	3P9	CEM	01/21/91	0.943	0.00	10.40	0.00	0.00
8740	27A	30J	MT2	01/21/91	1.273	0.00	4.90	0.00	> 0.52
8741	27A	3PA	CEM	01/21/91	0.881	0.00	100.00	0.00	0.38
8741	27A	30K	MT2	01/21/91	1.339	0.00	> 100.00	0.00	0.00
8742	27A	3PA	CEM	01/21/91	0.881	0.00	57.50	0.00	0.00
8742	27A	30K	MT2	01/21/91	1.339	0.00	61.30	0.00	0.74
8743	27A	3PB	CEM	01/21/91	0.874	0.00	100.00	0.00	2.06
8743	27A	30L	MT2	01/21/91	1.273	0.00	> 100.00	0.00	0.70
8744	27A	3PB	CEM	01/21/91	0.874	0.00	58.90	0.00	> 0.30
8744	27A	30L	MT2	01/21/91	1.273	0.00	62.40	0.00	3.13
8745	27A	3PC	CEM	01/21/91	1.000	0.00	1.82	0.00	> 0.60

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Pit & Cell Line	Test Date	Diff-mchl.	IC 50	TC 25	SI	TAI
8743	27A	30B MT2	01/21/91	1.276	0.00	1.43	0.00	0.04
8744	27A	30C CEM	01/21/91	1.000	0.00	95.80	0.00	0.12
8746	27A	30M MT2	01/21/91	1.276	0.00	80.60	0.00	0.47
8747	27A	30D CEM	01/21/91	0.927	0.00	96.00	0.00	0.00
8747	27A	30M MT2	01/21/91	1.231	0.00	100.00	0.00	1.08
8748	27A	30D CEM	01/21/91	0.927	0.00	100.00	0.00	3.42
8748	27A	30M MT2	01/21/91	1.231	0.00	100.00	0.00	0.92
8749	27A	30E CEM	01/21/91	0.914	0.00	100.00	0.00	2.19
8749	27A	30D MT2	01/21/91	1.286	0.00	100.00	0.00	0.12
8750	27A	30E CEM	01/21/91	0.914	0.00	100.00	0.00	1.50
8750	27A	30D MT2	01/21/91	1.286	0.00	100.00	0.00	0.70
8751	27A	30F CEM	01/21/91	0.914	0.00	10.80	0.00	0.00
8751	27A	30D MT2	01/21/91	1.307	0.00	4.88	0.00	0.00
8752	27A	30F CEM	01/21/91	0.914	0.00	100.00	0.00	4.03
8752	27A	30D MT2	01/21/91	1.307	0.00	62.90	0.00	1.20
8753	27A	30G CEM	01/21/91	1.093	0.00	40.80	0.00	5.90
8753	27A	30B MT2	01/21/91	1.309	0.00	100.00	0.00	1.90
8754	27A	30G CEM	01/21/91	1.093	3.20	83.00	25.94	16.84
8754	27A	30B MT2	01/21/91	1.309	3.00	100.00	0.00	2.50
8755	27A	42X CEM	01/22/91	0.569	0.00	53.40	0.00	3.23
8755	27A	440 MT2	01/22/91	1.282	0.00	100.00	0.00	0.00
8756	27A	42X CEM	01/22/91	0.569	0.00	100.00	0.00	7.59
8756	27A	440 MT2	01/22/91	1.282	0.00	100.00	0.00	0.00
8757	27A	42L CEM	01/22/91	0.452	0.00	100.00	0.00	3.67
8757	27A	441 MT2	01/22/91	1.347	0.00	100.00	0.00	0.85
8758	27A	42L CEM	01/22/91	0.452	0.00	100.00	0.00	0.80
8758	27A	441 MT2	01/22/91	1.347	0.00	100.00	0.00	0.40
8759	27A	42M CEM	01/22/91	0.639	0.00	100.00	0.00	9.55
8759	27A	442 MT2	01/22/91	1.270	0.00	100.00	0.00	3.60
8760	27A	42M CEM	01/22/91	0.639	0.00	100.00	0.00	13.54
8760	27A	442 MT2	01/22/91	1.270	0.00	100.00	0.00	0.35
8761	27A	42H CEM	01/22/91	0.569	0.00	100.00	0.00	7.36
8761	27A	443 MT2	01/22/91	1.228	0.00	100.00	0.00	3.65
8762	27A	42M CEM	01/22/91	0.569	0.00	100.00	0.00	0.23
8762	27A	443 MT2	01/22/91	1.228	0.00	100.00	0.00	1.61
8763	27A	42O CEM	01/22/91	0.542	0.00	100.00	0.00	0.00
8763	27A	444 MT2	01/22/91	1.243	0.00	100.00	0.00	1.49
8764	27A	42O CEM	01/22/91	0.542	0.00	5.00	0.00	0.00
8764	27A	444 MT2	01/22/91	1.243	0.00	4.85	0.00	0.90
8765	27A	42P CEM	01/22/91	0.707	0.00	100.00	0.00	0.64
8765	27A	449 CEM	02/21/91	0.911	0.00	206.00	0.00	0.00
8765	27A	445 MT2	01/22/91	1.203	0.32	100.00	312.50	96.81
8765	27A	442 MT2	02/21/91	0.964	0.00	100.00	0.00	1.31
8766	27A	42P CEM	01/22/91	0.707	0.00	9.38	0.00	0.65
8766	27A	445 MT2	01/22/91	1.203	0.00	3.20	0.00	0.00
8767	27A	42Q CEM	01/22/91	0.641	0.00	2.49	0.00	3.09
8767	27A	446 MT2	01/22/91	1.157	0.00	2.72	0.00	0.07
8768	27A	42Q CEM	01/22/91	0.641	0.00	0.32	0.00	0.00
8768	27A	446 MT2	02/22/91	0.682	0.00	0.02	0.00	0.00
8768	27A	446 MT2	01/22/91	1.157	0.00	0.32	0.00	0.00
8768	27A	42R CEM	02/22/91	1.289	0.00	0.06	0.00	0.75
8769	27A	42R CEM	01/22/91	0.557	0.00	97.00	0.00	6.21
8769	27A	447 MT2	01/22/91	1.240	0.00	67.20	0.00	0.88
8770	27A	42R CEM	01/22/91	0.557	0.00	88.70	0.00	7.21
8770	27A	447 MT2	01/22/91	1.240	0.00	76.70	0.00	0.09
8771	27A	42S CEM	01/22/91	0.634	0.00	100.00	0.00	1.15
8771	27A	448 MT2	01/22/91	1.131	0.00	100.00	0.00	0.14
8772	27A	42S CEM	01/22/91	0.634	0.00	100.00	0.00	0.12
8772	27A	448 MT2	02/21/91	0.901	0.00	135.00	0.00	2.71
8772	27A	448 MT2	01/22/91	1.131	0.32	100.00	312.50	92.11
8772	27A	450 MT2	02/21/91	1.272	0.00	100.00	0.00	0.64
8773	27A	42T CEM	01/22/91	0.669	0.00	100.00	0.00	0.00
8773	27A	449 MT2	01/22/91	1.180	0.00	100.00	0.00	2.54
8774	27A	42T CEM	01/22/91	0.669	0.00	100.00	0.00	6.79
8774	27A	449 MT2	01/22/91	1.180	0.00	100.00	0.00	1.43
8775	27A	42U CEM	01/22/91	0.635	3.00	100.00	0.00	5.70
8775	27A	44A MT2	01/22/91	1.131	0.00	100.00	0.00	0.15
8776	27A	42U CEM	01/22/91	0.635	0.00	3.46	0.00	7.29
8776	27A	44A MT2	01/22/91	1.131	0.00	1.96	0.00	0.00
8777	27A	42V CEM	01/22/91	0.528	0.00	4.38	0.00	0.10
8777	27A	44B MT2	01/22/91	1.112	0.00	6.89	0.00	0.00
8778	27A	42V CEM	01/22/91	0.528	0.00	100.00	0.00	5.42
8778	27A	44B MT2	01/22/91	1.112	0.00	100.00	0.00	0.28
8779	27A	42W CEM	01/22/91	0.542	0.00	100.00	0.00	4.30
8779	27A	44C MT2	01/22/91	1.135	0.00	100.00	0.00	2.54
8780	27A	42W CEM	01/22/91	0.542	0.00	100.00	0.00	1.49
8780	27A	44C MT2	01/22/91	1.135	0.00	100.00	0.00	0.76
8781	27A	42X CEM	01/22/91	0.580	0.00	100.00	0.00	3.85

Cumulative Summary (cont'd)

AVG Ship- No. Marc	Pile Cell # Line	Test Date	Diff- incl.	IC 50	TC 25	SI	TAI		
8781	27A	445	MT2	01/22/91	0.996	0.00	> 100.00	0.00	> 1.60
8782	27A	445	CEM	01/22/91	0.580	0.00	> 100.00	0.00	> 7.61
8782	27A	445	MT2	01/22/91	0.996	0.00	> 100.00	0.00	> 1.60
8783	27A	445	CEM	01/22/91	0.573	0.00	> 100.00	0.00	> 1.60
8783	27A	445	MT2	01/22/91	1.157	0.00	> 100.00	0.00	> 3.44
8784	27A	445	CEM	01/22/91	0.573	0.00	> 100.00	0.00	> 2.63
8784	27A	445	MT2	01/22/91	1.157	0.00	> 100.00	0.00	> 0.71
8785	27A	445	CEM	01/22/91	0.600	0.00	> 100.00	0.00	> 1.19
8785	27A	445	MT2	01/22/91	1.220	0.00	> 100.00	0.00	> 1.47
8786	27A	445	CEM	01/22/91	0.600	0.00	> 100.00	0.00	> 3.21
8786	27A	445	MT2	01/22/91	1.220	0.00	> 100.00	0.00	> 0.14
8787	27A	445	CEM	01/22/91	0.716	0.00	> 100.00	0.00	> 6.36
8787	27A	445	MT2	01/22/91	1.142	0.00	> 100.00	0.00	> 3.43
8788	27A	445	CEM	01/22/91	0.716	0.00	> 100.00	0.00	> 0.79
8788	27A	445	MT2	01/22/91	1.142	0.00	> 100.00	0.00	> 1.15
8789	27A	445	CEM	01/22/91	0.630	0.00	> 91.80	0.00	> 0.05
8789	27A	445	MT2	01/22/91	0.915	0.00	> 100.00	0.00	> 0.00
8790	27A	445	CEM	01/22/91	0.630	0.00	> 93.50	0.00	> 4.50
8790	27A	445	MT2	01/22/91	0.915	0.00	> 100.00	0.00	> 0.51
8791	27A	445	CEM	01/22/91	0.662	0.00	> 100.00	0.00	> 5.98
8791	27A	445	MT2	01/22/91	1.100	0.00	> 100.00	0.00	> 3.40
8792	27A	445	CEM	01/22/91	0.662	0.00	> 53.30	0.00	> 5.61
8792	27A	445	MT2	01/22/91	1.100	0.00	> 51.80	0.00	> 1.16
8793	27A	445	CEM	01/22/91	0.589	0.00	> 100.00	0.00	> 8.00
8793	27A	445	MT2	01/22/91	1.112	0.00	> 100.00	0.00	> 1.70
8794	27A	445	CEM	01/22/91	0.589	0.00	> 14.00	0.00	> 1.79
8794	27A	445	MT2	01/22/91	1.112	0.00	> 16.10	0.00	> 2.44
8795	27A	445	CEM	01/22/91	0.352	0.00	> 23.40	0.00	> 1.10
8795	27A	445	MT2	01/22/91	0.986	0.00	> 5.95	0.00	> 0.58
8796	27A	445	CEM	01/22/91	0.652	0.00	> 66.00	0.00	> 6.64
8796	27A	445	MT2	01/22/91	0.986	0.00	> 36.40	0.00	> 0.77
8797	27A	445	CEM	01/22/91	0.666	0.00	> 57.50	0.00	> 1.39
8797	27A	445	MT2	01/22/91	1.143	0.00	> 6.60	0.00	> 0.00
8798	27A	445	CEM	01/22/91	0.666	0.00	> 100.00	0.00	> 0.00
8798	27A	445	MT2	01/22/91	1.143	0.00	> 2.40	0.00	> 0.00
8799	27A	445	CEM	01/22/91	0.668	0.00	> 55.10	0.00	> 3.41
8799	27A	445	MT2	01/22/91	1.229	0.00	> 39.20	0.00	> 3.00
8800	27A	445	CEM	01/22/91	0.668	0.00	> 57.20	0.00	> 1.93
8800	27A	445	MT2	01/22/91	1.229	0.00	> 16.00	0.00	> 1.06
8801	27A	445	CEM	01/22/91	0.601	0.00	> 49.70	0.00	> 1.13
8801	27A	445	MT2	01/22/91	1.097	0.00	> 29.05	0.00	> 3.59
8802	27A	445	CEM	01/22/91	0.601	0.00	> 9.27	0.00	> 1.21
8802	27A	445	MT2	01/22/91	1.067	0.00	> 8.93	0.00	> 0.34
8803	27A	445	CEM	01/22/91	0.588	0.00	> 100.00	0.00	> 14.20
8803	27A	445	MT2	01/22/91	1.153	0.00	> 8.00	0.00	> 3.74
8804	27A	445	CEM	01/22/91	0.588	0.00	> 21.60	0.00	> 4.91
8804	27A	445	MT2	01/22/91	1.153	0.00	> 5.90	0.00	> 1.23
8805	27A	445	CEM	01/22/91	0.557	0.00	> 15.50	0.00	> 4.13
8805	27A	445	MT2	01/22/91	1.031	0.00	> 10.50	0.00	> 2.67
8806	27A	445	CEM	01/22/91	0.557	0.00	> 100.00	0.00	> 2.01
8806	27A	445	MT2	01/22/91	1.031	0.00	> 100.00	0.00	> 5.20
8807	27A	445	CEM	01/22/91	0.595	0.00	> 15.50	0.00	> 5.10
8807	27A	445	MT2	01/22/91	0.888	0.00	> 6.39	0.00	> 0.00
8808	27A	445	CEM	01/22/91	0.595	0.00	> 43.70	0.00	> 4.74
8808	27A	445	MT2	01/22/91	0.888	0.00	> 6.78	0.00	> 0.22
8809	27A	445	CEM	01/22/91	0.528	0.00	> 72.80	0.00	> 5.97
8809	27A	445	MT2	01/22/91	1.042	0.00	> 100.00	0.00	> 3.81
8810	27A	445	CEM	01/22/91	0.528	0.00	> 100.00	0.00	> 1.70
8810	27A	445	MT2	01/22/91	1.042	0.00	> 100.00	0.00	> 3.76
8811	27A	445	CEM	01/22/91	0.558	0.00	> 3.76	0.00	> 0.16
8811	27A	445	MT2	01/22/91	1.097	0.00	> 1.39	0.00	> 0.19
8812	27A	445	CEM	01/22/91	0.558	0.00	> 100.00	0.00	> 3.18
8812	27A	445	MT2	01/22/91	1.097	0.00	> 100.00	0.00	> 12.11
8813	27A	445	CEM	02/21/91	0.901	0.00	> 56.00	0.00	> 0.00
8813	27A	445	MT2	01/22/91	0.910	0.00	> 20.00	0.00	> 1.31
8814	27A	445	CEM	02/21/91	0.760	0.00	> 100.00	0.00	> 0.18
8814	27A	445	MT2	01/22/91	0.910	0.00	> 88.70	0.00	> 0.01
8815	27A	445	CEM	02/21/91	0.760	28.10	> 97.00	3.45	> 13.51
8815	27A	445	MT2	01/22/91	1.020	12.90	> 64.60	5.01	> 31.45
8815	27A	445	CEM	02/21/91	1.272	42.20	> 100.00	2.37	> 15.95
8816	27A	445	CEM	02/21/91	0.759	0.00	> 44.00	0.00	> 5.96
8816	27A	445	MT2	01/22/91	1.020	0.00	> 14.60	0.00	> 0.36
8817	27A	445	CEM	01/22/91	0.560	0.00	> 100.00	0.00	> 13.80
8817	27A	445	MT2	01/22/91	1.057	0.00	> 73.50	0.00	> 3.92
8818	27A	445	CEM	01/22/91	0.560	0.00	> 40.00	0.00	> 11.82
8818	27A	445	MT2	01/22/91	1.057	0.00	> 22.20	0.00	> 1.05
8819	27A	445	CEM	01/22/91	0.634	0.00	> 100.00	0.00	> 13.61
8819	27A	445	MT2	01/22/91	1.000	0.00	> 100.00	0.00	> 1.73

Cumulative Summary (cont'd)

AVS No.	Ship Name	Pit #	Cell Line	Test Date	Diff. mtl.	IC 50	TC 25	\$1	TAL
8820	27A	43M	CEM	01/22/91	0.634	0.00	> 100.00	0.00	11.22
8820	27A	44X	MT2	01/22/91	1.000	0.00	> 100.00	0.00	3.99
8821	27A	43I	CEM	01/22/91	0.657	0.00	> 100.00	0.00	6.24
8821	27A	44Y	MT2	01/22/91	1.074	0.00	> 100.00	0.00	5.80
8822	27A	45I	CEM	01/22/91	0.657	0.00	> 100.00	0.00	11.42
8822	27A	44Y	MT2	01/22/91	1.074	0.00	> 100.00	0.00	2.67
8823	27A	43J	CEM	01/22/91	0.720	0.00	> 100.00	0.00	6.24
8823	27A	44Z	MT2	01/22/91	1.128	0.00	> 100.00	0.00	5.50
8824	27A	43J	CEM	01/22/91	0.720	0.00	5.39	0.00	1.55
8824	27A	44Z	MT2	01/22/91	1.128	0.00	1.54	0.00	0.00
8825	27A	43K	CEM	01/22/91	0.651	0.00	5.30	0.00	2.33
8825	27A	450	MT2	01/22/91	0.937	0.00	6.41	0.00	0.28
8826	27A	43K	CEM	01/22/91	0.651	0.00	91.10	0.00	4.57
8826	27A	450	MT2	01/22/91	0.937	0.00	15.20	0.00	1.36
8827	27A	43L	CEM	01/22/91	0.774	0.00	7.19	0.00	2.20
8827	27A	451	MT2	01/22/91	0.933	0.00	7.92	0.00	2.13
8828	27A	43L	CEM	01/22/91	0.774	0.00	5.47	0.00	0.45
8828	27A	451	MT2	01/22/91	0.933	0.00	11.00	0.00	2.95
8829	27A	43M	CEM	01/22/91	0.587	0.00	15.00	0.00	0.20
8829	27A	452	MT2	01/22/91	1.050	0.00	5.07	0.00	0.00
8830	27A	43M	CEM	01/22/91	0.587	0.00	14.80	0.00	2.00
8830	27A	452	MT2	01/22/91	1.050	0.00	8.79	0.00	0.00
8831	27A	43M	CEM	01/22/91	0.654	0.00	12.60	0.00	4.89
8831	27A	453	MT2	01/22/91	0.923	0.00	15.20	0.00	7.61
8832	27A	43M	CEM	01/22/91	0.654	0.00	5.90	0.00	0.00
8832	27A	453	MT2	01/22/91	0.923	0.00	3.32	0.00	1.90
8833	27A	450	CEM	01/22/91	0.721	0.00	3.10	0.00	0.00
8833	27A	454	MT2	01/22/91	0.997	0.00	4.90	0.00	1.69
8834	27A	450	CEM	01/22/91	0.721	0.00	1.35	0.00	0.63
8834	27A	454	MT2	01/22/91	0.997	0.00	1.06	0.00	0.22
8835	27A	43P	CEM	01/22/91	0.727	0.00	6.60	0.00	3.96
8835	27A	455	MT2	01/22/91	1.031	0.00	6.18	0.00	2.10
8836	27A	43P	CEM	01/22/91	0.727	0.00	5.83	0.00	0.00
8836	27A	455	MT2	01/22/91	1.031	0.00	4.65	0.00	0.30
8837	27A	43Q	CEM	01/22/91	0.639	0.00	3.62	0.00	0.00
8837	27A	456	MT2	01/22/91	1.017	0.00	3.64	0.00	1.57
8838	27A	43Q	CEM	01/22/91	0.639	0.00	9.03	0.00	3.51
8838	27A	456	MT2	01/22/91	1.017	0.00	3.82	0.00	0.00
8839	27A	43R	CEM	01/22/91	0.702	0.00	4.16	0.00	0.00
8839	27A	457	MT2	01/22/91	0.976	0.00	5.38	0.00	0.70
8840	27A	43R	CEM	01/22/91	0.702	0.00	> 100.00	0.00	1.27
8840	27A	457	MT2	01/22/91	0.976	0.00	> 100.00	0.00	2.54
8841	27A	43R	CEM	01/22/91	0.578	0.00	13.70	0.00	0.60
8841	27A	458	MT2	01/22/91	1.010	0.00	5.41	0.00	1.82
8842	27A	43R	CEM	01/22/91	0.578	0.00	8.35	0.00	0.10
8842	27A	458	MT2	01/22/91	1.010	0.00	3.86	0.00	1.02
8843	27A	43T	CEM	01/22/91	0.797	0.00	6.20	0.00	0.00
8843	27A	459	MT2	01/22/91	0.885	0.00	5.94	0.00	0.79
8844	27A	43T	CEM	01/22/91	0.797	0.00	43.00	0.00	2.25
8844	27A	459	MT2	01/22/91	0.885	0.00	> 100.00	0.00	2.33
8845	27A	43U	CEM	01/22/91	0.659	0.00	51.00	0.00	0.60
8845	27A	45A	MT2	01/22/91	0.988	0.00	14.70	0.00	3.37
8846	27A	43U	CEM	01/22/91	0.659	0.00	22.70	0.00	0.00
8846	27A	45A	MT2	01/22/91	0.988	0.00	24.90	0.00	1.92
8847	27A	43V	CEM	01/22/91	0.735	0.00	58.80	0.00	3.92
8847	27A	45B	MT2	01/22/91	0.875	0.00	> 100.00	0.00	6.38
8848	27A	43V	CEM	01/22/91	0.735	0.00	55.70	0.00	0.00
8848	27A	45B	MT2	01/22/91	0.875	0.00	> 100.00	0.00	2.39
8849	27A	46C	CEM	02/21/91	0.759	100.00	1.00	0.01	3.24
8849	27A	45C	MT2	01/22/91	0.924	73.50	> 100.00	1.36	15.76
8849	27A	46I	MT2	02/21/91	1.363	0.00	173.00	0.00	8.12
8850	27A	460	CEM	02/21/91	0.673	0.00	5.71	0.00	2.47
8850	27A	45C	MT2	01/22/91	0.924	0.00	6.27	0.00	1.03
8851	27A	460	CEM	02/21/91	0.673	0.00	4.27	0.00	0.00
8851	27A	450	MT2	01/22/91	1.016	0.00	3.96	0.00	1.80
8852	27A	46E	CEM	02/21/91	0.854	0.00	4.69	0.00	0.00
8852	27A	450	MT2	01/22/91	1.016	0.00	2.65	0.00	1.47
8853	27A	43Y	CEM	01/22/91	0.745	0.00	57.10	0.00	0.50
8853	27A	45E	MT2	01/22/91	1.104	0.00	> 100.00	0.00	6.40
8854	27A	43Y	CEM	01/22/91	0.745	0.00	64.60	0.00	0.00
8854	27A	45E	MT2	01/22/91	1.104	0.00	> 100.00	0.00	3.33
8855	27A	450	CEM	01/23/91	1.121	69.10	77.30	1.12	4.39
8855	27A	32X	MT2	01/23/91	1.325	0.00	0.17	0.00	0.44
8856	27A	450	CEM	01/23/91	1.121	0.00	49.80	0.00	2.81
8856	27A	32X	MT2	01/23/91	1.325	0.00	90.30	0.00	0.00
8857	27A	45P	CEM	01/23/91	1.049	0.00	19.90	0.00	0.44
8857	27A	32Y	MT2	01/23/91	1.343	0.00	20.00	0.00	0.00
8858	27A	45P	CEM	01/23/91	1.049	0.00	14.60	0.00	1.66

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Pir Cell 3 Line	Test Date	Diff- mct.	IC 50	TC 25	SI	TAI
8858	27A	32Y	MT2	01/23/91	1.343	0.00	4.77	0.00
8859	27A	45Q	CEN	01/23/91	1.007	0.00	64.70	0.00
8859	27A	32Z	MT2	01/23/91	1.359	0.00	61.50	0.00
8860	27A	45R	CEN	01/23/91	1.007	0.00	4.97	0.00
8860	27A	32Z	MT2	01/23/91	1.359	0.00	0.91	0.00
8861	27A	45R	CEN	01/23/91	0.780	0.00	4.70	0.00
8861	27A	400	MT2	01/23/91	1.317	0.00	2.10	0.00
8862	27A	45R	CEN	01/23/91	0.780	0.00	> 100.00	0.00
8862	27A	400	MT2	01/23/91	1.317	0.00	> 100.00	0.00
8863	27A	45R	CEN	01/23/91	0.976	0.00	> 100.00	0.00
8863	27A	411	MT2	01/23/91	1.233	0.00	> 100.00	0.00
8864	27A	45R	CEN	01/23/91	0.976	0.00	21.80	0.00
8864	27A	401	MT2	01/23/91	1.233	0.00	14.20	0.00
8865	27A	45T	CEN	01/23/91	0.750	0.00	> 100.00	0.00
8865	27A	402	MT2	01/23/91	1.311	0.00	90.90	0.00
8866	27A	45T	CEN	01/23/91	0.750	0.00	18.90	0.00
8866	27A	402	MT2	01/23/91	1.311	0.00	1.37	0.00
8867	27A	45U	CEN	01/23/91	1.152	0.00	0.14	0.00
8867	27A	403	MT2	01/23/91	1.298	0.00	22.60	0.00
8868	27A	45U	CEN	01/23/91	1.152	0.00	61.80	0.00
8868	27A	403	MT2	01/23/91	1.298	0.00	10.40	0.00
8869	27A	45V	CEN	01/23/91	1.103	0.00	16.10	0.00
8869	27A	404	MT2	01/23/91	1.363	0.00	9.20	0.00
8870	27A	45V	CEN	01/23/91	1.103	0.00	50.90	0.00
8870	27A	404	MT2	01/23/91	1.363	0.00	16.00	0.00
8871	27A	45W	CEN	01/23/91	1.232	0.00	2.56	0.00
8871	27A	405	MT2	01/23/91	1.368	0.00	4.16	0.00
8872	27A	45W	CEN	01/23/91	1.232	0.00	15.00	0.00
8872	27A	405	MT2	01/23/91	1.368	0.00	4.07	0.00
8873	27A	45X	CEN	01/23/91	1.276	0.00	59.80	0.00
8873	27A	406	MT2	01/23/91	1.397	0.00	35.40	0.00
8874	27A	45X	CEN	01/23/91	1.276	0.00	6.24	0.00
8874	27A	406	MT2	01/23/91	1.397	0.00	4.90	0.00
8875	27A	45Y	CEN	01/23/91	1.109	0.00	44.50	0.00
8875	27A	407	MT2	01/23/91	1.363	0.00	20.60	0.00
8876	27A	45Y	CEN	01/23/91	1.109	0.00	3.70	0.00
8876	27A	407	MT2	01/23/91	1.363	0.00	1.37	0.00
8877	27A	45Z	CEN	01/23/91	0.904	0.00	6.64	0.00
8877	27A	408	MT2	01/23/91	1.301	0.00	6.89	0.00
8878	27A	45Z	CEN	01/23/91	0.904	0.00	8.87	0.00
8878	27A	408	MT2	01/23/91	1.301	0.00	> 100.00	0.00
8879	27A	460	CEN	01/23/91	0.960	0.00	> 100.00	0.00
8879	27A	409	MT2	01/23/91	1.282	0.00	73.80	0.00
8880	27A	460	CEN	01/23/91	0.960	0.00	49.70	0.00
8880	27A	409	MT2	01/23/91	1.282	0.00	12.60	0.00
8881	27A	461	CEN	01/23/91	0.774	0.00	15.90	0.00
8881	27A	40A	MT2	01/23/91	1.277	0.00	5.29	0.00
8882	27A	461	CEN	01/23/91	0.774	0.00	15.30	0.00
8882	27A	40A	MT2	01/23/91	1.277	0.00	2.54	0.00
8883	27A	462	CEN	01/23/91	1.035	0.00	35.00	0.00
8883	27A	40B	MT2	01/23/91	1.270	0.00	65.20	0.00
8884	27A	462	CEN	01/23/91	1.035	0.00	21.20	0.00
8884	27A	40B	MT2	01/23/91	1.270	0.00	48.60	0.00
8885	27A	463	CEN	01/23/91	0.892	0.00	22.70	0.00
8885	27A	40C	MT2	01/23/91	1.188	0.00	15.90	0.00
8886	27A	463	CEN	01/23/91	0.892	0.00	47.60	0.00
8886	27A	40C	MT2	01/23/91	1.188	0.00	14.30	0.00
8887	27A	464	CEN	01/23/91	0.852	0.00	21.60	0.00
8887	27A	40D	MT2	01/23/91	1.074	0.32	5.47	> 17.00
8887	27A	401	MT2	02/21/91	1.363	0.00	3.22	0.00
8888	27A	464	CEN	01/23/91	0.852	0.00	7.18	0.00
8888	27A	40D	MT2	01/23/91	1.096	0.00	4.80	0.00
8889	27A	41T	CEN	01/23/91	0.913	0.00	0.31	0.00
8889	27A	40E	MT2	01/23/91	1.234	0.00	3.82	0.00
8890	27A	41T	CEN	01/23/91	0.913	0.00	14.50	0.00
8890	27A	40E	MT2	01/23/91	1.234	0.00	9.74	0.00
8891	27A	41U	CEN	01/23/91	0.905	0.00	12.60	0.00
8891	27A	40F	MT2	01/23/91	1.206	0.00	10.60	0.00
8892	27A	41U	CEN	01/23/91	0.905	0.00	> 100.00	0.00
8892	27A	40F	MT2	01/23/91	1.206	0.00	57.10	0.00
8893	27A	41V	CEN	01/23/91	0.973	0.00	2.82	0.00
8893	27A	40G	MT2	01/23/91	1.206	0.00	1.71	0.00
8894	27A	41V	CEN	01/23/91	0.973	0.00	1.66	> 2.19
8894	27A	40G	MT2	01/23/91	1.206	0.00	1.30	0.00
8895	27A	41V	CEN	01/23/91	1.045	0.00	2.53	0.00
8895	27A	40H	MT2	01/23/91	1.286	0.00	13.70	0.00
8896	27A	41V	CEN	01/23/91	1.045	0.00	4.01	> 0.20
8896	27A	40H	MT2	01/23/91	1.286	0.00	4.04	0.00

Cumulative Summary (cont'd)

AVS No.	Ship Name	Plt #	Cell Line	Test Date	Diff. msl.	IC 50	TC 25	BI	TAI
8897	27A	41X	CEM	01/23/91	1.093	0.00	8.96	0.00	0.00
8897	27A	401	MT2	01/23/91	1.191	0.00	18.20	0.00	0.21
8898	27A	41X	CEM	01/23/91	1.093	0.00	45.20	0.00	7.77
8898	27A	401	MT2	01/23/91	1.191	0.00	10.00	0.00	0.00
8899	27A	41Y	CEM	01/23/91	0.886	0.00	100.00	0.00	0.20
8899	27A	40J	MT2	01/23/91	0.960	0.00	72.60	0.00	0.00
8900	27A	41Y	CEM	01/23/91	0.886	0.00	13.30	0.00	0.41
8900	27A	40J	MT2	01/23/91	0.960	0.00	2.96	0.00	0.16
8901	27A	41Z	CEM	01/23/91	0.625	0.00	1.53	0.00	0.61
8901	27A	40K	MT2	01/23/91	1.153	0.00	0.89	0.00	0.00
8902	27A	41Z	CEM	01/23/91	0.625	0.00	100.00	0.00	7.62
8902	27A	40K	MT2	01/23/91	1.153	0.00	62.60	0.00	0.01
8903	27A	420	CEM	01/23/91	0.754	0.00	100.00	0.00	7.60
8903	27A	40L	MT2	01/23/91	1.085	0.00	100.00	0.00	0.00
8904	27A	420	CEM	01/23/91	0.754	0.00	100.00	0.00	15.22
8904	27A	40L	MT2	01/23/91	1.085	0.00	65.00	0.00	0.00
8905	27A	421	CEM	01/23/91	0.837	0.00	100.00	0.00	1.60
8905	27A	40M	MT2	01/23/91	0.974	0.00	59.90	0.00	0.03
8906	27A	421	CEM	01/23/91	0.837	0.00	100.00	0.00	7.41
8906	27A	40M	MT2	01/23/91	0.974	0.00	100.00	0.00	0.60
8907	27A	422	CEM	01/23/91	1.067	0.00	100.00	0.00	1.06
8907	27A	40N	MT2	01/23/91	1.062	0.00	52.00	0.00	0.11
8908	27A	422	CEM	01/23/91	1.067	0.00	100.00	0.00	2.43
8908	27A	40N	MT2	01/23/91	1.062	0.00	43.80	0.00	0.57
8909	27A	423	CEM	01/23/91	1.001	0.00	100.00	0.00	9.90
8909	27A	40O	MT2	01/23/91	1.087	0.00	100.00	0.00	0.05
8910	27A	423	CEM	01/23/91	1.001	0.00	100.00	0.00	9.61
8910	27A	40O	MT2	01/23/91	1.087	0.00	80.30	0.00	0.00
8911	27A	424	CEM	01/23/91	1.042	0.00	54.70	0.00	0.00
8911	27A	40P	MT2	01/23/91	1.053	0.00	100.00	0.00	0.00
8912	27A	424	CEM	01/23/91	1.042	0.00	7.33	0.00	1.75
8913	27A	425	CEM	01/23/91	0.753	0.00	100.00	0.00	5.41
8913	27A	40R	MT2	01/23/91	1.119	0.00	100.00	0.00	0.17
8914	27A	425	CEM	01/23/91	0.753	0.00	100.00	0.00	6.21
8914	27A	40R	MT2	01/23/91	1.119	0.00	100.00	0.00	0.78
8915	27A	426	CEM	01/23/91	0.741	0.00	100.00	0.00	9.61
8915	27A	40R	MT2	01/23/91	1.103	0.00	100.00	0.00	1.64
8916	27A	426	CEM	01/23/91	0.741	0.00	100.00	0.00	12.23
8916	27A	40R	MT2	01/23/91	1.103	0.00	100.00	0.00	0.12
8917	27A	427	CEM	01/23/91	0.864	0.00	100.00	0.00	0.28
8917	27A	40S	MT2	01/23/91	1.112	0.00	100.00	0.00	0.91
8918	27A	427	CEM	01/23/91	0.864	0.00	100.00	0.00	1.79
8918	27A	40S	MT2	01/23/91	1.112	0.00	19.30	0.00	0.00
8919	27A	428	CEM	01/23/91	0.963	0.00	1.55	0.00	0.94
8919	27A	40T	MT2	01/23/91	1.014	0.00	0.59	0.00	0.00
8920	27A	428	CEM	01/23/91	0.963	0.00	26.70	0.00	5.49
8920	27A	40T	MT2	01/23/91	1.014	0.00	5.47	0.00	0.00
8921	27A	429	CEM	01/23/91	0.992	0.00	1.64	0.00	0.20
8922	27A	429	CEM	01/23/91	0.992	0.00	100.00	0.00	6.70
8923	27A	42A	CEM	01/23/91	1.051	0.00	100.00	0.00	4.28
8923	27A	40V	MT2	01/23/91	0.908	0.00	100.00	0.00	2.60
8924	27A	42A	CEM	01/23/91	1.051	0.00	100.00	0.00	8.51
8924	27A	40V	MT2	01/23/91	0.908	0.00	100.00	0.00	1.58
8925	27A	42B	CEM	01/23/91	0.735	0.00	100.00	0.00	0.00
8925	27A	40W	MT2	01/23/91	0.865	0.00	100.00	0.00	1.70
8926	27A	42B	CEM	01/23/91	0.735	0.00	100.00	0.00	0.00
8926	27A	40W	MT2	01/23/91	0.865	0.00	100.00	0.00	1.41
8927	27A	42C	CEM	01/23/91	0.811	0.00	100.00	0.00	3.61
8927	27A	40X	MT2	01/23/91	0.964	0.00	77.90	0.00	0.10
8928	27A	42C	CEM	01/23/91	0.811	0.00	100.00	0.00	16.92
8928	27A	40X	MT2	01/23/91	0.964	0.00	100.00	0.00	0.10
8929	27A	42C	CEM	01/23/91	0.838	0.00	100.00	0.00	3.62
8929	27A	40Y	MT2	01/23/91	0.563	0.00	100.00	0.00	3.98
8930	27A	42C	CEM	01/23/91	0.838	0.00	100.00	0.00	5.43
8930	27A	40Y	MT2	01/23/91	0.563	0.00	100.00	0.00	2.70
8931	27A	42E	CEM	01/23/91	0.964	0.00	100.00	0.00	1.96
8931	27A	40Z	MT2	01/23/91	0.553	0.00	100.00	0.00	6.10
8932	27A	42E	CEM	01/23/91	0.744	0.00	25.70	0.00	1.34
8932	27A	40Z	MT2	01/23/91	0.553	0.00	17.10	0.00	2.52
8933	27A	42F	CEM	01/23/91	1.068	0.00	100.00	0.00	5.03
8933	27A	410	MT2	01/23/91	0.545	0.00	100.00	0.00	3.00
8934	27A	42F	CEM	01/23/91	1.068	0.00	52.50	0.00	6.13
8934	27A	410	MT2	01/23/91	0.545	0.00	9.74	0.00	0.74
8935	27A	42G	CEM	01/23/91	0.991	0.00	0.31	0.00	0.26
8935	27A	411	MT2	01/23/91	0.512	0.00	53.70	0.00	5.76
8936	27A	42G	CEM	01/23/91	0.991	0.00	100.00	0.00	7.60
8936	27A	411	MT2	01/23/91	0.512	0.00	100.00	0.00	7.01
8937	27A	42H	CEM	01/23/91	0.907	0.00	100.00	0.00	1.74

Cumulative Summary (cont'd)

AVG No.	Ship- ment	Plt #	Cell Line	Test Date	Diff- rml.	IC 50	TC 25	SI	TAI
8937	27A	412	NT2	01/23/91	0.704	0.00	> 100.00	0.00	> 3.52
8938	27A	42H	CEM	01/23/91	0.907	0.00	> 100.00	0.00	> 6.61
8938	27A	412	NT2	01/23/91	0.704	0.00	> 100.00	0.00	> 1.55
8939	27A	46H	CEM	01/24/91	0.596	0.00	> 100.00	0.00	> 19.96
8939	27A	46H	NT2	01/24/91	1.461	0.00	> 100.00	0.00	> 0.00
8940	27A	46H	CEM	01/24/91	0.596	0.00	> 100.00	0.00	> 30.78
8940	27A	46H	NT2	01/24/91	1.461	0.00	> 100.00	0.00	> 0.00
8941	27A	34F	CEM	01/24/91	0.978	0.00	> 100.00	0.00	> 5.60
8941	27A	467	NT2	01/24/91	1.484	0.00	> 100.00	0.00	> 0.01
8942	27A	34F	CEM	01/24/91	0.978	0.00	8.87	0.00	> 2.26
8942	27A	467	NT2	01/24/91	1.484	0.00	3.48	0.00	> 0.00
8943	27A	34G	CEM	01/24/91	1.306	0.00	2.36	0.00	> 0.49
8943	27A	468	NT2	01/24/91	1.312	0.00	1.64	0.00	> 0.61
8944	27A	34G	CEM	01/24/91	1.306	0.00	1.38	0.00	> 0.00
8944	27A	468	NT2	01/24/91	1.312	0.00	1.83	0.00	> 0.61
8945	27A	34H	CEM	01/24/91	1.049	0.00	3.74	0.00	> 0.00
8945	27A	469	NT2	01/24/91	1.501	0.00	4.08	0.00	> 0.43
8946	27A	34H	CEM	01/24/91	1.049	0.00	1.55	0.00	> 0.00
8946	27A	469	NT2	01/24/91	1.501	0.00	1.55	0.00	> 0.20
8947	27A	34I	CEM	01/24/91	0.970	0.00	3.58	0.00	> 0.00
8947	27A	46A	NT2	01/24/91	1.378	0.00	4.61	0.00	> 0.00
8948	27A	34I	CEM	01/24/91	0.970	0.00	6.60	0.00	> 0.00
8948	27A	46A	NT2	01/24/91	1.378	0.00	4.20	0.00	> 0.02
8949	27A	34J	CEM	01/24/91	1.117	0.00	55.20	0.00	> 4.30
8949	27A	46B	NT2	01/24/91	1.375	0.00	100.00	0.00	> 1.29
8950	27A	34J	CEM	01/24/91	1.117	0.00	70.90	0.00	> 7.63
8950	27A	46B	NT2	01/24/91	1.375	0.00	> 100.00	0.00	> 0.27
8951	27A	34K	CEM	01/24/91	1.295	0.00	16.80	0.00	> 0.61
8951	27A	46C	NT2	01/24/91	1.255	0.00	12.90	0.00	> 0.63
8952	27A	34K	CEM	01/24/91	1.295	0.00	1.29	0.00	> 0.00
8952	27A	46C	NT2	01/24/91	1.255	0.00	1.64	0.00	> 0.62
8953	27A	34L	CEM	01/24/91	0.924	0.00	4.90	0.00	> 4.41
8953	27A	46D	NT2	01/24/91	1.433	0.00	1.41	0.00	> 0.00
8954	27A	34L	CEM	01/24/91	0.924	0.00	15.00	0.00	> 1.58
8954	27A	46D	NT2	01/24/91	1.433	0.00	4.76	0.00	> 0.10
8955	27A	34M	CEM	01/24/91	1.131	0.00	1.24	0.00	> 0.00
8955	27A	46E	NT2	01/24/91	1.345	0.00	4.08	0.00	> 0.00
8956	27A	34M	CEM	01/24/91	1.131	0.00	4.00	0.00	> 0.06
8956	27A	46E	NT2	01/24/91	1.345	0.00	3.63	0.00	> 0.01
8957	27A	34N	CEM	01/24/91	1.050	0.00	4.07	0.00	> 0.00
8957	27A	46F	NT2	01/24/91	1.296	0.00	1.58	0.00	> 0.00
8958	27A	34N	CEM	01/24/91	1.050	0.00	0.74	0.00	> 0.00
8958	27A	46F	NT2	02/22/91	0.667	0.00	0.00	0.00	> 0.00
8958	27A	46F	NT2	01/24/91	1.296	0.00	0.52	0.00	> 0.00
8958	27A	46H	NT2	02/22/91	1.316	0.00	0.13	0.00	> 0.00
8959	27A	34O	CEM	01/24/91	1.104	0.00	11.20	0.00	> 2.80
8959	27A	46G	NT2	01/24/91	1.399	0.00	5.04	0.00	> 0.96
8960	27A	34O	CEM	01/24/91	1.104	0.00	4.70	0.00	> 2.50
8960	27A	46G	NT2	01/24/91	1.399	0.00	1.74	0.00	> 0.70
8961	27A	34P	CEM	01/24/91	0.912	0.00	3.04	0.00	> 0.00
8961	27A	46H	NT2	01/24/91	1.059	0.00	2.10	0.00	> 0.01
8962	27A	34P	CEM	01/24/91	0.912	0.00	> 100.00	0.00	> 0.85
8962	27A	46H	NT2	01/24/91	1.059	0.00	> 100.00	0.00	> 0.00
8963	27A	34Q	CEM	01/24/91	0.900	0.00	68.60	0.00	> 10.01
8963	27A	46I	NT2	01/24/91	1.321	0.00	> 100.00	0.00	> 0.00
8964	27A	34Q	CEM	01/24/91	0.900	0.00	> 100.00	0.00	> 2.83
8964	27A	46I	NT2	01/24/91	1.321	0.00	> 100.00	0.00	> 0.00
8965	27A	34R	CEM	01/24/91	0.841	0.00	43.10	0.00	> 0.22
8965	27A	46J	NT2	01/24/91	1.370	0.00	60.00	0.00	> 0.00
8966	27A	34R	CEM	01/24/91	0.841	0.00	> 100.00	0.00	> 1.66
8966	27A	46J	NT2	01/24/91	1.370	0.00	> 100.00	0.00	> 0.02
8967	27A	34R	CEM	01/24/91	1.225	0.00	16.30	0.00	> 3.68
8967	27A	46K	NT2	01/24/91	1.192	0.00	> 100.00	0.00	> 0.03
8968	27A	34R	CEM	01/24/91	1.225	0.00	69.40	0.00	> 4.02
8968	27A	46K	NT2	01/24/91	1.192	0.00	> 100.00	0.00	> 0.20
8969	27A	34T	CEM	01/24/91	1.097	0.00	75.80	0.00	> 1.39
8969	27A	46L	NT2	01/24/91	1.251	0.00	> 100.00	0.00	> 0.00
8970	27A	34T	CEM	01/24/91	1.097	0.00	28.70	0.00	> 3.82
8970	27A	46L	NT2	01/24/91	1.251	0.00	> 100.00	0.00	> 0.10
8971	27A	34U	CEM	01/24/91	1.199	0.00	86.40	0.00	> 0.00
8971	27A	46M	NT2	01/24/91	1.280	0.00	> 100.00	0.00	> 1.33
8972	27A	34U	CEM	01/24/91	1.109	0.00	64.40	0.00	> 0.90
8972	27A	46M	NT2	01/24/91	1.280	0.00	76.70	0.00	> 0.34
8973	27A	34V	CEM	01/24/91	1.010	0.00	> 100.00	0.00	> 0.81
8973	27A	46N	NT2	01/24/91	1.0	0.00	> 100.00	0.00	> 1.55
8974	27A	34V	CEM	01/24/91	1.0	0.00	12.80	0.00	> 0.94
8974	27A	46N	NT2	01/24/91	1.097	0.00	9.06	0.00	> 1.99
8975	27A	34W	CEM	01/24/91	1.003	0.00	34.40	0.00	> 0.48

Cumulative Summary (cont'd)

AVZ No.	Strip No.	Pit #	Cell Line	Test Date	Diff. mtl.	TC 50	TC 25	SI	TAI
8975	27A	440	HT2	01/24/91	1.299	0.00	> 100.00	0.00	0.21
8976	27A	36J	CEN	01/24/91	1.003	0.00	29.00	0.00	2.71
8978	27A	440	HT2	01/24/91	1.299	0.00	94.10	0.00	0.20
8977	27A	36K	CEN	01/24/91	1.057	0.00	5.01	0.00	0.00
8977	27A	440	HT2	01/24/91	1.342	0.00	12.80	0.00	> 0.15
8978	27A	36K	CEN	01/24/91	1.057	0.00	1.48	0.00	> 0.32
8978	27A	440	HT2	01/24/91	1.342	0.00	1.06	0.00	0.00
8979	27A	36Y	CEN	01/24/91	1.138	0.00	4.34	0.00	> 0.50
8979	27A	440	HT2	01/24/91	1.011	0.00	4.52	0.00	0.00
8980	27A	36Y	CEN	01/24/91	1.138	0.00	35.70	0.00	11.21
8980	27A	440	HT2	01/24/91	1.011	0.00	0.72	0.00	0.00
8981	27A	36Z	CEN	01/24/91	1.416	0.00	29.40	0.00	0.00
8981	27A	440	HT2	01/24/91	1.288	0.00	16.70	0.00	0.00
8982	27A	36Z	CEN	01/24/91	1.416	0.00	18.30	0.00	> 0.16
8982	27A	440	HT2	01/24/91	1.258	0.00	> 100.00	0.00	0.15
8983	27A	310	CEN	01/24/91	1.231	0.00	64.40	0.00	0.30
8983	27A	445	HT2	01/24/91	1.308	0.00	32.30	0.00	0.86
8984	27A	310	CEN	01/24/91	1.231	0.00	26.80	0.00	> 1.33
8984	27A	445	HT2	01/24/91	1.308	0.00	12.70	0.00	0.00
8985	27A	311	CEN	01/24/91	0.827	0.00	> 100.00	0.00	> 2.89
8985	27A	447	HT2	01/24/91	1.169	0.00	46.00	0.00	> 1.00
8986	27A	311	CEN	01/24/91	0.827	0.00	94.80	0.00	7.02
8986	27A	447	HT2	01/24/91	1.169	0.00	73.50	0.00	> 0.11
8987	27A	312	CEN	01/24/91	1.067	0.00	20.30	0.00	> 4.68
8987	27A	440	HT2	01/24/91	1.299	0.00	15.10	0.00	0.12
8988	27A	312	CL1	01/24/91	1.067	0.00	16.00	0.00	5.14
8988	27A	440	HT2	01/24/91	1.299	0.00	5.22	0.00	> 0.05
8989	27A	313	CEN	01/24/91	1.249	0.00	36.10	0.00	> 0.70
8989	27A	310	HT2	01/24/91	1.336	0.00	22.50	0.00	> 0.30
8990	27A	313	CEN	01/24/91	1.249	0.00	6.92	0.00	> 0.41
8990	27A	310	HT2	01/24/91	1.336	0.00	1.69	0.00	0.00
8991	27A	314	CEN	01/24/91	1.032	0.00	0.32	0.00	0.00
8991	27A	319	HT2	01/24/91	1.110	0.00	2.90	0.00	0.00
8992	27A	314	CEN	01/24/91	1.032	0.00	96.00	0.00	0.00
8992	27A	319	HT2	01/24/91	1.110	0.00	> 100.00	0.00	0.00
8993	27A	315	CEN	01/24/91	0.855	0.00	> 100.00	0.00	13.33
8993	27A	310	HT2	01/24/91	1.232	0.00	> 100.00	0.00	0.00
8994	27A	315	CEN	01/24/91	0.855	0.00	15.50	0.00	> 3.29
8994	27A	310	HT2	01/24/91	1.232	0.00	4.99	0.00	0.00
8995	27A	316	CEN	01/24/91	0.962	0.00	> 100.00	0.00	> 2.30
8995	27A	319	HT2	01/24/91	1.267	0.00	50.50	0.00	> 0.20
8996	27A	316	CEN	01/24/91	0.962	0.00	1.98	0.00	> 0.30
8996	27A	319	HT2	01/24/91	1.267	0.00	2.77	0.00	0.04
8997	27A	317	CEN	01/24/91	1.055	0.00	5.82	0.00	0.00
8997	27A	318	HT2	01/24/91	1.123	0.00	1.22	0.00	0.00
8998	27A	317	CEN	01/24/91	1.055	0.00	5.84	0.00	1.35
8998	27A	318	HT2	01/24/91	1.128	0.00	1.41	0.00	0.00
8999	27A	318	CEN	01/24/91	0.991	0.00	> 100.00	0.00	4.00
8999	27A	317	HT2	01/24/91	1.060	0.00	> 100.00	0.00	0.00
9000	27A	318	CEN	01/24/91	0.991	0.00	4.53	0.00	> 0.69
9000	27A	317	HT2	01/24/91	1.060	0.00	1.40	0.00	0.00
9001	27A	319	CEN	01/24/91	1.019	0.00	35.20	0.00	> 1.43
9001	27A	310	HT2	01/24/91	1.309	0.00	52.29	0.00	> 0.20
9002	27A	319	CEN	01/24/91	1.019	0.00	6.37	0.00	> 0.32
9002	27A	310	HT2	01/24/91	1.309	0.00	0.62	0.00	0.00
9003	27A	31A	CEN	01/24/91	0.860	0.00	> 100.00	0.00	> 7.81
9003	27A	31V	HT2	01/24/91	0.983	0.00	> 100.00	0.00	> 1.80
9004	27A	31A	CEN	01/24/91	0.560	0.00	> 100.00	0.00	6.21
9004	27A	31V	HT2	01/24/91	0.983	0.00	> 100.00	0.00	> 1.22
9005	27A	31G	CEN	01/24/91	1.009	0.00	> 100.00	0.00	> 4.70
9005	27A	31W	HT2	01/24/91	1.248	0.00	> 100.00	0.00	> 0.44
9006	27A	31G	CEN	01/24/91	1.009	0.00	52.40	0.00	> 9.23
9006	27A	31W	HT2	01/24/91	1.248	0.00	2.03	0.00	0.00
9007	27A	31C	CEN	01/24/91	1.193	0.00	> 100.00	0.00	> 8.43
9007	27A	31X	HT2	01/24/91	1.335	0.00	> 100.00	0.00	0.03
9008	27A	31C	CEN	01/24/91	1.193	0.00	> 100.00	0.00	3.48
9008	27A	31X	HT2	01/24/91	1.335	0.00	> 100.00	0.00	0.00
9009	27A	31D	CEN	01/24/91	0.875	0.00	10.70	0.00	> 8.12
9009	27A	31Y	HT2	01/24/91	1.171	0.00	4.12	0.00	0.01
9010	27A	31D	CEN	01/24/91	0.875	0.00	> 100.00	0.00	> 7.32
9010	27A	31Y	HT2	01/24/91	1.171	0.00	> 100.00	0.00	2.05
9011	27A	31E	CEN	01/24/91	0.790	0.84	27.70	33.01	10.84
9011	27A	31Z	HT2	01/24/91	1.003	0.00	> 100.00	0.00	1.00
9012	27A	31E	CEN	01/24/91	0.790	0.00	> 100.00	0.00	0.00
9012	27A	31Z	HT2	01/24/91	1.003	0.00	> 100.00	0.00	1.73
9013	27A	31F	CEN	01/24/91	0.605	0.00	> 100.00	0.00	0.00
9013	27A	31D	HT2	01/24/91	1.164	0.00	49.40	0.00	0.02
9014	27A	31F	CEN	01/24/91	0.605	0.00	74.50	0.00	0.00

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit Cell # Line	Test Date	Diff- incl.	TC 50	TC 25	BI	TAI
9014	27A	3W0 MT2	01/24/91	1.164	0.00	49.00	0.00	0.04
9015	27A	3W6 CEM	01/24/91	0.874	0.00	> 100.00	0.00	3.41
9015	27A	3W1 MT2	01/24/91	1.043	0.00	> 100.00	0.00	0.56
9016	27A	3W6 CEM	01/24/91	0.874	0.32	> 100.00	> 312.50	> 5.68
9016	27A	4G6 CEM	02/21/91	0.854	0.00	0.00	0.00	0.00
9016	27A	3W1 MT2	01/24/91	1.048	0.00	> 100.00	0.00	0.24
9017	27A	3W8 CEM	01/24/91	0.907	0.00	> 100.00	0.00	4.14
9017	27A	3W2 MT2	01/24/91	1.123	0.00	0.32	0.00	0.00
9018	27A	3W8 CEM	01/24/91	0.907	0.00	19.60	0.00	1.60
9018	27A	3W2 MT2	01/24/91	1.123	0.00	> 100.00	0.00	0.00
9019	27A	3W1 CEM	01/24/91	0.824	0.00	> 100.00	0.00	16.51
9019	27A	3W3 MT2	01/24/91	1.255	0.00	> 100.00	0.00	0.16
9020	27A	3W1 CEM	01/24/91	0.824	0.00	> 100.00	0.00	19.81
9020	27A	3W3 MT2	01/24/91	1.255	0.00	> 100.00	0.00	0.97
9021	27A	3WJ CEM	01/24/91	1.001	0.00	> 100.00	0.00	0.27
9021	27A	3W4 MT2	01/24/91	1.063	0.00	> 100.00	0.00	0.20
9022	27A	3WJ CEM	01/24/91	1.001	0.00	96.60	0.00	12.13
9022	27A	3W4 MT2	01/24/91	1.063	0.00	22.10	0.00	0.00
9023	27A	3WJ CEM	01/24/91	0.928	0.00	15.50	0.00	2.63
9023	27A	3W5 MT2	01/24/91	1.081	0.00	2.83	0.00	0.00
9024	27A	3WJ CEM	01/24/91	0.928	4.95	12.10	2.46	12.66
9024	27A	4F CEM	02/21/91	0.854	0.00	16.90	0.00	3.83
9024	27A	3W5 MT2	01/24/91	1.081	0.00	5.78	0.00	1.04
9025	27A	3WJ CEM	01/24/91	0.866	0.00	> 100.00	0.00	6.19
9025	27A	3W6 MT2	01/24/91	1.174	0.00	> 100.00	0.00	1.40
9026	27A	3WJ CEM	01/24/91	0.866	0.77	4.90	6.39	15.03
9026	27A	3W6 MT2	01/24/91	1.174	0.00	1.48	0.00	0.00
9027	27A	3WJ CEM	01/24/91	0.939	0.00	> 100.00	0.00	4.96
9027	27A	3W7 MT2	01/24/91	1.110	0.00	24.10	0.00	0.00
9028	27A	3WJ CEM	01/24/91	0.939	27.80	58.70	2.11	14.81
9028	27A	3W7 MT2	01/24/91	1.110	0.00	20.60	0.00	0.36
9029	27A	3WJ CEM	01/24/91	1.080	0.00	17.60	0.00	4.29
9029	27A	3W8 MT2	01/24/91	1.156	0.00	4.04	0.00	0.00
9030	27A	3WJ CEM	01/24/91	1.080	0.00	12.80	0.00	8.18
9030	27A	3W8 MT2	01/24/91	1.156	0.00	13.00	0.00	1.52
9031	27A	3W0 CEM	01/24/91	1.064	0.00	7.37	0.00	1.39
9031	27A	3W9 MT2	01/24/91	0.994	0.00	5.44	0.00	0.72
9032	27A	3W0 CEM	01/24/91	1.064	0.00	3.63	0.00	5.24
9032	27A	3W9 MT2	01/24/91	0.994	0.00	1.44	0.00	0.01
9033	27A	3WJ CEM	01/24/91	0.892	0.00	9.27	0.00	1.20
9033	27A	3W4 MT2	01/24/91	0.871	0.00	5.15	0.00	0.00
9034	27A	3WJ CEM	01/24/91	0.892	0.00	15.50	0.00	8.61
9034	27A	3W4 MT2	01/24/91	0.871	0.00	2.61	0.00	0.15
9035	27A	4F CEM	02/21/91	0.854	0.00	14.40	0.00	8.62
9035	27A	3W8 MT2	01/24/91	1.051	0.00	7.17	0.00	3.30
9036	27A	3WJ CEM	01/24/91	0.815	0.00	> 100.00	0.00	2.00
9036	27A	3W8 MT2	01/24/91	1.051	0.00	37.20	0.00	0.00
9037	27A	3WJ CEM	01/24/91	1.014	0.00	4.76	0.00	1.32
9037	27A	3WJ CEM	01/24/91	1.224	0.00	23.30	0.00	1.81
9038	27A	3WJ CEM	01/24/91	1.014	0.00	42.00	0.00	2.50
9038	27A	3WJ CEM	01/24/91	1.224	0.00	23.80	0.00	0.63
9039	27A	3YR CEM	01/25/91	1.128	0.00	6.44	0.00	0.99
9039	27A	3YJ MT2	01/25/91	1.143	0.00	1.47	0.00	0.00
9040	27A	3YR CEM	01/25/91	1.128	0.00	> 100.00	0.00	18.64
9040	27A	3YJ MT2	01/25/91	1.143	0.00	> 100.00	0.00	1.25
9041	27A	3YB CEM	01/25/91	1.153	0.00	5.92	0.00	2.27
9041	27A	3WJ MT2	01/25/91	1.316	0.00	12.80	0.00	0.13
9042	27A	3YB CEM	01/25/91	1.153	0.00	6.45	0.00	9.48
9042	27A	3WJ MT2	01/25/91	1.316	0.00	1.88	0.00	0.00
9043	27A	3YJ CEM	01/25/91	1.148	0.00	9.24	0.00	1.27
9043	27A	3YV MT2	01/25/91	1.348	0.00	7.55	0.00	0.00
9044	27A	3YJ CEM	01/25/91	1.148	0.00	11.10	0.00	0.30
9044	27A	3YV MT2	01/25/91	1.348	0.00	5.28	0.00	0.00
9045	27A	3YU CEM	01/25/91	1.253	0.00	11.00	0.00	0.00
9045	27A	3YW MT2	01/25/91	1.253	0.00	2.41	0.00	0.00
9046	27A	3YU CEM	01/25/91	1.253	0.00	> 100.00	0.00	0.31
9046	27A	3YW MT2	01/25/91	1.253	0.00	> 100.00	0.00	0.00
9047	27A	3YV CEM	01/25/91	1.231	0.00	> 100.00	0.00	0.39
9047	27A	3YX MT2	01/25/91	1.351	0.00	> 100.00	0.00	0.00
9048	27A	3YV CEM	01/25/91	1.231	0.00	> 100.00	0.00	0.00
9048	27A	3YX MT2	01/25/91	1.351	0.00	> 100.00	0.00	0.00
9049	27A	3YU CEM	01/25/91	1.394	0.00	> 100.00	0.00	4.08
9049	27A	3YV MT2	01/25/91	1.272	0.00	10.00	0.00	0.00
9050	27A	3YU CEM	01/25/91	1.394	0.00	50.00	0.00	2.64
9050	27A	3YV MT2	01/25/91	1.272	0.00	13.40	0.00	0.02
9051	27A	3YX CEM	01/25/91	1.305	0.00	9.03	0.00	1.38
9051	27A	3W2 MT2	01/25/91	1.250	0.00	4.07	0.00	0.32
9052	27A	3YX CEM	01/25/91	1.305	0.00	30.30	0.00	1.88

Cumulative Summary (cont'd)

AVS No.	Ship- ment	Pit #	Cell Line	Test Date	Diff- ml.	IC 50	TC 25	SI	TAI
9052	27A	3XZ	MT2	01/25/91	1.250	0.00	65.80	0.00	0.58
9053	27A	3YX	CEM	01/25/91	1.287	0.00	2.57	0.00	0.16
9053	27A	3Y0	MT2	01/25/91	1.231	0.00	0.32	0.00	0.00
9053	27A	40M	MT2	02/22/91	1.316	0.00	0.15	0.00	0.00
9054	27A	3YX	CEM	01/25/91	1.287	0.00	100.00	0.00	1.04
9054	27A	3Y0	MT2	01/25/91	1.231	0.00	100.00	0.00	0.14
9055	27A	3Y2	CEM	01/25/91	1.191	0.00	10.00	0.00	0.00
9055	27A	3Y1	MT2	01/25/91	0.842	0.00	34.90	0.00	0.50
9056	27A	3Y2	CEM	01/25/91	1.191	0.00	100.00	0.00	0.00
9056	27A	3Y1	MT2	01/25/91	0.842	0.00	100.00	0.00	1.61
9057	27A	320	CEM	01/25/91	1.014	0.00	100.00	0.00	1.86
9057	27A	3Y2	MT2	01/25/91	1.036	0.00	56.70	0.00	0.48
9058	27A	320	CEM	01/25/91	1.014	0.00	37.60	0.00	0.53
9058	27A	3Y2	MT2	01/25/91	1.036	0.00	12.50	0.00	0.00
9059	27A	321	CEM	01/25/91	1.133	0.00	21.00	0.00	0.00
9059	27A	3Y3	MT2	01/25/91	1.112	0.00	100.00	0.00	0.33
9060	27A	321	CEM	01/25/91	1.133	0.00	100.00	0.00	0.41
9060	27A	3Y3	MT2	01/25/91	1.112	0.00	9.80	0.00	0.63
9061	27A	322	CEM	01/25/91	1.201	0.00	100.00	0.00	0.00
9061	27A	3Y4	MT2	01/25/91	1.051	0.00	96.90	0.00	0.00
9062	27A	322	CEM	01/25/91	1.201	0.00	100.00	0.00	0.03
9062	27A	3Y4	MT2	01/25/91	1.051	0.00	73.20	0.00	0.00
9063	27A	323	CEM	01/25/91	1.152	0.00	100.00	0.00	4.56
9063	27A	3Y5	MT2	01/25/91	1.024	0.00	100.00	0.00	0.00
9064	27A	323	CEM	01/25/91	1.152	0.00	5.67	0.00	3.73
9064	27A	3Y5	MT2	01/25/91	1.024	0.00	2.97	0.00	0.22
9065	27A	324	CEM	01/25/91	1.159	0.00	11.50	0.00	0.73
9065	27A	3Y6	MT2	01/25/91	1.001	0.00	6.75	0.00	0.00
9066	27A	324	CEM	01/25/91	1.159	0.00	26.30	0.00	2.11
9066	27A	3Y6	MT2	01/25/91	1.001	0.00	35.70	0.00	0.00
9067	27A	325	CEM	01/25/91	1.228	0.00	100.00	0.00	2.64
9067	27A	3Y7	MT2	01/25/91	0.901	0.00	1.40	0.00	2.73
9068	27A	325	CEM	01/25/91	1.228	0.00	15.80	0.00	0.10
9068	27A	3Y7	MT2	01/25/91	0.901	0.00	15.00	0.00	3.42
9069	27A	326	CEM	01/25/91	1.258	0.00	19.10	0.00	0.66
9069	27A	3Y8	MT2	01/25/91	0.918	0.00	2.02	0.00	0.40
9070	27A	326	CEM	01/25/91	1.258	0.00	93.20	0.00	0.53
9070	27A	3Y8	MT2	01/25/91	0.918	0.00	100.00	0.00	0.45
9071	27A	327	CEM	01/25/91	1.219	0.00	100.00	0.00	6.20
9071	27A	3Y9	MT2	01/25/91	1.006	0.00	3.90	0.00	0.45
9072	27A	327	CEM	01/25/91	1.219	0.00	100.00	0.00	0.00
9072	27A	3Y9	MT2	01/25/91	1.006	0.00	48.50	0.00	0.93
9073	27A	328	CEM	01/25/91	1.345	0.00	3.57	0.00	0.00
9073	27A	3YA	MT2	01/25/91	0.784	0.00	2.69	0.00	0.30
9074	27A	328	CEM	01/25/91	1.345	0.00	100.00	0.00	7.76
9074	27A	3YA	MT2	01/25/91	0.784	0.00	100.00	0.00	0.40
9075	27A	329	CEM	01/25/91	1.258	0.00	9.24	0.00	6.58
9075	27A	3YB	MT2	01/25/91	0.968	0.00	4.30	0.00	0.00
9076	27A	329	CEM	01/25/91	1.258	0.00	11.00	0.00	4.48
9076	27A	3YB	MT2	01/25/91	0.968	0.00	1.57	0.00	0.02
9077	27A	32A	CEM	01/25/91	1.129	0.00	10.00	0.00	4.61
9077	27A	3YC	MT2	01/25/91	0.901	0.00	3.46	0.00	0.34
9078	27A	32A	CEM	01/25/91	1.129	0.00	100.00	0.00	1.95
9078	27A	3YC	MT2	01/25/91	0.901	0.00	100.00	0.00	0.14
9079	27A	32B	CEM	01/25/91	0.980	0.00	84.90	0.00	2.58
9079	27A	3YD	MT2	01/25/91	0.745	0.00	55.20	0.00	0.00
9080	27A	32B	CEM	01/25/91	0.980	0.00	95.10	0.00	0.00
9080	27A	3YD	MT2	01/25/91	0.745	0.00	41.10	0.00	0.00
9081	27A	32C	CEM	01/25/91	1.003	0.00	100.00	0.00	0.06
9081	27A	3YE	MT2	01/25/91	0.654	0.00	100.00	0.00	0.80
9082	27A	32C	CEM	01/25/91	1.003	0.00	100.00	0.00	3.91
9082	27A	3YE	MT2	01/25/91	0.654	0.00	100.00	0.00	0.00
9083	27A	320	CEM	01/25/91	1.076	0.00	1.91	0.00	0.40
9083	27A	3YF	MT2	01/25/91	0.746	0.00	2.25	0.00	0.15
9084	27A	320	CEM	01/25/91	1.076	0.00	6.42	0.00	0.68
9084	27A	3YF	MT2	01/25/91	0.746	0.00	8.87	0.00	0.20
9085	27A	32E	CEM	01/25/91	1.160	0.00	2.80	0.00	0.00
9085	27A	3Y5	MT2	01/25/91	0.802	0.00	5.99	0.00	0.67
9086	27A	32E	CEM	01/25/91	1.160	0.00	0.32	0.00	0.00
9086	27A	400	MT2	02/22/91	1.325	0.00	0.02	0.00	0.00
9087	27A	32F	CEM	01/25/91	1.118	0.00	38.30	0.00	5.18
9087	27A	3YH	MT2	01/25/91	0.889	0.00	0.28	0.00	0.62
9088	27A	32F	CEM	01/25/91	1.118	0.00	45.40	0.00	1.22
9088	27A	3YH	MT2	01/25/91	0.889	0.00	14.00	0.00	0.00
9089	27A	32G	CEM	01/25/91	1.190	0.00	0.32	0.00	0.00
9089	27A	3YI	MT2	01/25/91	0.990	0.00	0.32	0.00	0.00
9089	27A	40P	MT2	02/22/91	1.280	0.00	0.01	0.00	0.02
9090	27A	32G	CEM	01/25/91	1.190	0.00	0.42	0.00	0.00

Cumulative Summary (cont'd)

AV3 No.	Ship- ment	Pile Cell # Line	Test Date	Diff- mtl.	IC 50	TC 25	BI	TAI
9090	27A	40Z CEM	02/22/91	0.600	0.00	0.28	0.00	0.00
9090	27A	3Y1 MT2	01/25/91	0.990	0.00 <	0.32	0.00	0.00
9090	27A	40P MT2	02/22/91	1.280	0.00	0.28	0.00	0.10
9091	27A	32H CEM	01/25/91	0.912	0.00	1.39	6.00	0.00
9091	27A	3YJ MT2	01/25/91	0.766	0.00	0.81	0.00	0.00
9091	27A	40Q MT2	02/22/91	1.363	0.00	0.19	0.00	0.00
9092	27A	32H CEM	01/25/91	0.912	0.00	0.37	0.00	0.00
9092	27A	40Z CEM	02/22/91	0.600	0.00	0.03	0.00	1.53
9092	27A	3YJ MT2	01/25/91	0.766	0.00 <	0.32	0.00	0.00
9092	27A	40Q MT2	02/22/91	1.363	0.00	0.02	0.00 >	0.10
9093	27A	32I CEM	01/25/91	1.031	0.00	1.16	0.00	0.00
9093	27A	3YK MT2	01/25/91	0.811	0.00 <	0.32	0.00	0.00
9093	27A	40R MT2	02/22/91	1.341	0.00	0.07	0.00	0.00
9094	27A	32I CEM	01/25/91	1.031	0.00 <	0.32	0.00	0.00
9094	27A	4E0 CEM	02/22/91	0.604	0.00	0.04	0.00	2.43
9094	27A	3YK MT2	01/25/91	0.811	0.00 <	0.32	0.00	0.00
9094	27A	40R MT2	02/22/91	1.341	0.00	0.01	0.00	0.00
9095	27A	32J CEM	01/25/91	0.919	0.00 <	0.32	0.00	0.00
9095	27A	4E0 CEM	02/22/91	0.604	0.00	0.02	0.00	0.00
9095	27A	3YL MT2	01/25/91	0.711	0.00 <	0.32	0.00	0.00
9095	27A	40B MT2	02/22/91	1.211	0.00	0.02	0.00	0.66
9096	27A	32J CEM	01/25/91	0.919	0.00	3.46	0.00	0.00
9096	27A	3YL MT2	01/25/91	0.711	0.00	1.00	0.00 >	0.22
9097	27A	32K CEM	01/25/91	1.270	0.00	0.33	0.00	0.00
9097	27A	4E1 CEM	02/22/91	0.622	0.00	0.12	0.00 >	1.72
9097	27A	3YM MT2	01/25/91	0.710	0.00 <	0.32	0.00	0.00
9097	27A	40B MT2	02/22/91	1.211	0.00	0.17	0.00	0.00
9097	27A	32K CEM	01/25/91	1.270	0.00 <	0.32	0.00	0.00
9098	27A	4E1 CEM	02/22/91	0.622	0.00	0.01	0.00	0.00
9098	27A	3YM MT2	01/25/91	0.710	0.00 <	0.32	0.00	0.00
9098	27A	40T MT2	02/22/91	1.363	0.00	0.06	0.00	0.10
9099	27A	32L CEM	01/25/91	1.175	0.00	0.39	0.00	0.00
9099	27A	4E2 CEM	02/22/91	0.534	0.00	0.05	0.00	0.00
9099	27A	3YM MT2	01/25/91	0.810	0.00 <	0.32	0.00	0.00
9099	27A	40T MT2	02/22/91	1.363	0.00	0.17	0.00 >	0.41
9100	27A	32L CEM	01/25/91	1.175	0.00 <	0.32	0.00	0.00
9100	27A	4E2 CEM	02/22/91	0.534	0.00	0.05	0.00	0.11
9100	27A	3YM MT2	01/25/91	0.810	0.00 <	0.32	0.00	0.00
9100	27A	40U MT2	02/22/91	1.326	0.00	0.06	0.00	0.15
9101	27A	32M CEM	01/25/91	0.889	0.00 <	0.32	0.00	0.00
9101	27A	4E3 CEM	02/22/91	0.625	0.00	0.05	0.00	0.00
9101	27A	3YO MT2	01/25/91	0.889	0.00 <	0.32	0.00	0.00
9101	27A	40U MT2	02/22/91	1.326	0.00	0.18	0.00	0.00
9102	27A	32M CEM	01/25/91	0.889	0.00 <	0.32	0.00	0.00
9102	27A	40X CEM	02/22/91	0.667	0.00	0.08	0.00	0.00
9102	27A	3YO MT2	01/25/91	0.889	0.00 <	0.32	0.00	0.00
9102	27A	40U MT2	02/22/91	1.325	0.00	0.17	0.00	0.00
9103	27A	32M CEM	01/25/91	1.109	0.00	12.90	0.00	0.00
9103	27A	3YP MT2	01/25/91	1.045	0.00	6.47	0.00	0.00
9104	27A	32M CEM	01/25/91	1.109	0.00	29.10	0.00	0.36
9104	27A	3YP MT2	01/25/91	1.045	0.00	35.60	0.00 >	0.82
9105	27A	45G CEM	01/23/91	0.814	0.00 >	100.00	0.00	0.00
9106	27A	45G CEM	01/23/91	0.814	0.00 >	100.00	0.00 >	1.09
9107	27A	45H CEM	01/23/91	0.776	0.00 >	100.00	0.00	6.15
9108	27A	45H CEM	01/23/91	0.776	0.00 >	100.00	0.00	4.81
9109	27A	45I CEM	01/23/91	1.110	0.00 >	100.00	0.00 >	0.27
9110	27A	45I CEM	01/23/91	1.110	0.00 >	100.00	0.00	0.88
9111	27A	45J CEM	01/23/91	1.220	0.00 >	100.00	0.00	0.00
9112	27A	45J CEM	01/23/91	1.220	0.00	95.80	0.00	0.07
9113	27A	45K CEM	01/23/91	1.095	0.00 >	100.00	0.00	0.00
9114	27A	45K CEM	01/23/91	1.095	0.00 >	100.00	0.00	1.52
9115	27A	45L CEM	01/23/91	1.036	0.00 >	100.00	0.00 >	0.64
9116	27A	45L CEM	01/23/91	1.036	0.00 >	100.00	0.00	2.73
9117	27A	45M CEM	01/23/91	1.131	0.00 >	100.00	0.00 >	0.13
9118	27A	45M CEM	01/23/91	1.131	0.00 >	100.00	0.00	4.34
9119	27A	45M CEM	01/23/91	0.908	0.00 >	100.00	0.00	1.90
9120	27A	45M CEM	01/23/91	0.908	0.00 >	100.00	0.00 >	2.96
9464	25A	36I CEM	12/20/90	1.235 <	0.32	74.50 >	232.81 >	88.44
9464	25A	36M CEM	01/04/91	1.273	2.84 >	10.00 >	3.52 >	18.83
9464	25A	490 CEM	02/05/91	1.380 <	3.20	408.00 >	127.50 >	75.27
9464	25A	490 CEM	02/05/91	1.380	0.19 >	1.00 >	5.34 >	23.17
9464	25A	37K MT2	12/20/90	0.653 <	0.32	23.10 >	72.17 >	82.46
9464	25A	496 MT2	02/05/91	1.110 <	3.20	84.60 >	20.20 >	48.26
9464	25A	496 MT2	02/05/91	1.110	0.08 >	1.00 >	15.93 >	44.63
9465	25A	36J CEM	12/20/90	1.263	0.00 <	0.32	0.00	0.00
9465	25A	36M CEM	01/04/91	1.054	0.00 >	1.00	0.00	5.15
9465	25A	37L MT2	12/20/90	0.660 <	0.32 <	0.32 -	1.00 >	0.79
9466	25A	36I CEM	12/20/90	1.235 <	0.32	5.20 >	16.25 >	45.05

Cumulative Summary (cont'd)

AVS No.	Ship-ment	Plt #	Cell Line	Test Date	Diff-ml.	IC 50	TC 25	SI	TAI
9466	25A	34H	CEM	01/04/91	1.273	0.81 >	10.00 >	12.37 >	36.16
9466	25A	49P	CEM	02/05/91	1.317 <	3.20 >	42.80 >	13.38 >	37.12
9466	25A	49P	CEM	02/05/91	1.317	0.00 >	1.00 >	0.00 >	7.99
9466	25A	3FK	MT2	12/20/90	0.653 <	0.32 >	7.92 >	24.76 >	54.11
9466	25A	497	MT2	02/05/91	1.097 <	3.20 <	3.20 -	1.00	5.87
9466	25A	497	MT2	02/05/91	1.097	0.00	0.53	0.00 >	3.73
9467	26A	3F2	CEM	12/20/90	1.141	0.00	33.10	0.00	1.00
9468	26A	3G0	CEM	12/20/90	1.407	0.00	3.20	0.00	0.00
9469	26A	3G0	CEM	12/20/90	1.407	0.00	49.90	0.00 >	5.38
11266	76	3LR	CEM	01/11/91	0.769	0.00 >	100.00	0.00	1.44
11266	76	3LR	CEM	01/11/91	1.227	0.00 >	100.00	0.00	0.33
11267	76	3LR	CEM	01/11/91	0.769	0.00 >	100.00	0.00	3.53
11267	76	3LR	MT2	01/11/91	1.227	0.00 >	100.00	0.00 >	0.90

DIFRNTL = DIFF is the abbreviation for the differential. The differential is the difference in the cell control and the virus control optical densities. A differential value of >0.5 is required for the assay to be considered satisfactory.

TC₂₅ = The minimum drug concentration (µg/ml) that reduced cell viability by 25%.

IC₅₀ = The minimum drug concentration (µg/ml) that inhibited the CPE by 50%, calculated by using a regression analysis program for semilog curve fitting.

SI = Selectivity Index, calculated by dividing the TC₂₅ by the ID₅₀.

TAI = Total Antiviral Index = the area between the cytotoxicity and the antiviral curves.

APPENDIX B

Cumulative Summary of All Compounds That
Demonstrated Activity (SI > 0) in HIV Primary Screen
January 1, 1989 - April 30, 1991

Confirmatory Assays for Compound Active Against Human Immunodeficiency Virus (HIV-1) - Test Dates January 4, 1988 - April 30, 1991

AVS No.	Ship- ment	Test date	Plt #	Cell	Blif.	IC 25	IC 25	AI 25	IC 50	IC 50	AI 50	IC 95	IC 95	AI 95	BI	A		TAIL
																C	T	
0581	48	08/01/90	113	CEM	0.912	14.10	44.50	3.43	24.30	45.70	2.50	0.00	96.00	0.00	1.85	0.06	*	0.06
0581	48	06/12/90	115	RT2	1.117	13.00	15.40	1.20	17.40	22.30	1.27	30.10	75.70	2.51	0.89	1.49	*	1.49
0609	48	08/01/90	100	CEM	1.007	0.87	100.00	115.31	72.20	100.00	1.38	0.00	100.00	0.00	1.34	27.57	*	27.57
0609	45	06/12/90	110	RT2	1.102	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	*	0.00
0700	48	08/01/90	100	CEM	1.007	1.45	49.00	42.95	0.00	100.00	0.00	0.00	100.00	0.00	0.00	24.73	*	24.73
0700	45	06/12/90	110	RT2	1.130	49.20	53.50	1.09	70.40	81.90	1.04	0.00	100.00	0.00	0.48	0.47	*	0.47
0702	45	07/05/90	104	CEM	1.134	0.06	100.00	116.51	4.20	100.00	23.34	77.30	100.00	1.29	23.34	53.09	*	53.09
0702	75	12/04/90	304	CEM	0.427	1.03	100.00	97.54	4.43	100.00	22.50	61.80	100.00	1.62	22.50	33.09	*	33.09
0702	75	01/04/91	308	CEM	1.376	35.50	109.8	28.14	51.70	100.00	19.34	121.00	100.00	0.24	19.34	51.31	*	51.31
0702	48	02/20/91	424	CEM	0.787	12.00	0.32	0.02	20.10	100.00	4.98	78.90	100.00	1.27	0.02	28.25	*	28.25
0702	45	06/12/90	110	RT2	1.130	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	*	0.00
0702	75	12/04/90	304	RT2	0.720	7.52	100.00	13.30	16.50	100.00	6.07	0.00	100.00	0.00	6.07	22.73	*	22.73
0702	48	02/20/91	424	RT2	1.443	11.40	100.00	0.45	17.30	100.00	5.77	62.20	100.00	1.61	5.77	32.24	*	32.24
0703	75	12/04/90	304	CEM	0.427	0.50	0.20	0.15	2.05	75.40	34.95	28.00	100.00	3.57	0.13	45.29	*	45.29
0703	75	01/04/91	300	CEM	1.376	0.47	45.20	07.52	19.40	43.40	3.24	0.00	94.30	0.00	2.31	24.77	*	24.77
0703	75	12/04/90	304	RT2	0.720	1.32	100.00	05.61	2.32	100.00	43.05	23.90	100.00	4.18	43.05	49.45	*	49.45
0709	45	07/05/90	101	CEM	1.211	0.14	100.00	14.30	20.40	100.00	4.90	0.00	100.00	0.00	4.90	22.97	*	22.97
0709	48	02/20/91	420	CEM	0.715	12.60	100.00	7.92	22.60	100.00	4.43	0.00	100.00	0.00	4.43	27.90	*	27.90
0709	30	11/22/88	018	RT2	1.770	0.34	04.00	13.30	0.00	320.00	0.00	0.00	320.00	0.00	0.00	11.13	*	11.13
0709	48	06/18/90	117	RT2	1.107	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.70	*	1.70
0709	48	02/20/91	420	RT2	1.444	2.77	100.00	36.12	13.70	100.00	7.29	0.00	100.00	0.00	7.29	33.90	*	33.90
0710	48	08/01/90	100	CEM	0.902	5.46	55.00	9.72	21.70	77.90	3.59	0.00	100.00	0.00	2.53	18.42	*	18.42
0710	45	06/18/90	116	RT2	1.708	0.00	14.90	0.00	0.00	21.00	0.00	0.00	32.00	0.00	0.00	1.85	*	1.85
0712	48	08/01/90	100	CEM	0.402	1.53	100.00	65.51	6.84	100.20	14.42	0.00	100.00	0.00	10.42	61.91	*	61.91
0712	45	06/18/90	116	RT2	1.068	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.20	*	0.20
0714	45	07/17/90	117	CEM	1.334	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	10.50	*	10.50
0714	30	08/01/90	100	CEM	0.968	0.00	100.00	113.50	44.50	100.00	2.24	0.00	100.00	0.00	2.24	32.13	*	32.13
0714	45	06/18/90	118	RT2	1.005	0.00	50.20	0.00	0.00	76.10	0.00	0.00	100.00	0.00	0.00	0.55	*	0.55
1017	44	06/25/90	110	CEM	0.554	0.52	100.00	191.77	14.18	100.00	7.10	0.00	100.00	0.00	7.10	43.52	*	43.52
1017	44	07/05/90	101	CEM	1.211	25.90	100.00	3.04	0.00	100.00	0.00	0.00	100.00	0.00	0.00	9.35	*	9.35
1017	44	06/10/90	110	RT2	1.040	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.03	*	0.03
1315	47	02/20/91	420	CEM	0.715	18.90	04.40	5.11	0.00	100.00	0.00	0.00	100.00	0.00	0.00	7.04	*	7.04
1315	47	02/20/91	420	RT2	1.444	2.89	100.00	34.58	10.00	100.00	10.00	0.00	100.00	0.00	10.00	31.19	*	31.19
1444	44	04/26/90	104	CEM	0.600	10.00	100.00	10.00	18.30	100.00	5.44	81.00	100.00	1.23	5.44	37.35	*	37.35
1444	48	08/14/90	210	CEM	1.013	41.10	100.00	2.44	55.20	100.00	1.81	0.00	100.00	1.04	1.81	11.43	*	11.43
1444	44	06/10/90	110	RT2	1.034	0.00	51.30	0.00	0.00	70.60	0.00	0.00	100.00	0.00	0.00	1.29	*	1.29
1444	48	08/02/90	132	RT2	1.264	0.00	57.10	0.00	0.00	82.70	0.00	0.00	100.00	0.00	0.00	4.65	*	4.65
1801	47	08/07/90	209	CEM	1.075	44.70	100.00	2.24	48.00	100.00	1.47	0.00	100.00	0.00	1.47	7.84	*	7.84
1801	55	05/24/90	040	RT2	1.402	30.30	100.00	3.30	46.30	100.00	2.16	92.40	100.00	1.08	2.16	17.23	*	17.23
1801	47	07/24/90	109	RT2	1.172	44.70	100.00	2.24	0.00	100.00	0.00	0.00	100.00	0.00	0.00	8.57	*	8.57

AVS Ship- Test Pit
No. Name Date @ Cell

AVS No.	Ship-Name	Test Date	Pit @ Cell	DIFF.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAI T
1841	45	07/05/90	18U CEM	1.144	1.83	100.00	94.88	5.04	100.00	19.84	87.30	100.00	1.73	19.84	45.28
1841	53	05/24/89	04U HTZ	1.295	0.08	95.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	2.37
1841	65	04/18/90	1J1 HTZ	1.130	95.48	105.00	1.05	0.00	100.00	0.00	0.00	100.00	0.00	0.00	2.98
1844	45	07/05/90	18V CEM	1.117	0.32	100.00	312.50	2.22	100.00	44.95	0.00	100.00	0.00	44.95	31.32
1844	48	06/01/90	19A CEM	1.030	5.57	100.00	17.95	32.00	100.00	3.13	6.00	100.00	0.00	3.13	19.55
1844	65	04/18/90	1J1 HTZ	1.150	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.13
1859	53	05/24/89	04U HTZ	1.295	4.50	100.00	22.28	7.24	100.00	13.00	24.80	100.00	3.75	13.00	43.11
1859	67	07/24/90	18A HTZ	1.104	4.93	100.00	20.30	7.39	100.00	13.18	27.00	100.00	3.71	13.18	42.70
2572	54	05/09/90	11J HTZ	1.103	1.72	100.00	50.29	6.44	100.00	15.02	32.00	100.00	3.13	15.02	45.59
2572	65	05/15/90	10T HTZ	0.900	4.08	100.00	24.48	13.00	100.00	7.49	30.70	100.00	3.31	7.49	43.98
2573	63	06/21/90	24T CEM	0.523	0.32	100.00	312.50	33.48	100.00	2.99	0.00	100.00	0.00	2.99	41.07
2573	54	05/09/90	11J HTZ	1.103	7.10	100.00	14.08	10.40	100.00	9.47	53.10	100.00	1.08	9.47	39.79
2573	56	07/19/90	14Z CEM	0.378	0.32	100.00	312.50	10.40	100.00	9.47	53.10	100.00	1.08	9.47	39.79
2573	56	05/09/90	11Z HTZ	1.112	1.44	100.00	69.33	5.31	100.00	14.14	61.40	100.00	1.43	14.14	47.09
2581	65	06/21/90	24U CEM	0.820	10.70	100.00	9.37	16.10	100.00	6.22	0.00	100.00	0.00	6.22	26.48
2582	54	05/03/90	11B HTZ	1.182	1.54	100.00	64.10	3.91	100.00	16.91	45.10	100.00	1.54	16.91	43.19
2581	65	05/15/90	10T HTZ	0.909	4.34	100.00	23.04	15.40	100.00	7.44	53.10	100.00	1.08	7.44	42.58
2582	54	06/21/90	24U CEM	0.820	14.00	100.00	6.25	28.90	100.00	3.57	92.20	100.00	1.08	3.57	15.71
2582	54	05/03/90	11B HTZ	1.232	3.31	100.00	18.83	17.00	100.00	5.99	80.30	100.00	1.24	5.99	34.07
2582	65	05/15/90	10V HTZ	1.077	10.00	100.00	10.00	34.90	100.00	2.72	60.50	100.00	1.11	2.72	27.95
2582	65	07/18/90	11Z HTZ	1.087	2.03	332.00	143.45	0.89	544.00	63.44	78.70	981.00	12.47	37.36	28.88
2585	63	05/16/90	10S CEM	1.508	12.90	100.00	7.72	20.50	100.00	4.87	0.00	100.00	0.00	4.87	16.97
2585	54	05/03/90	11B HTZ	1.232	1.77	100.00	54.39	6.34	100.00	15.24	49.10	100.00	1.45	15.24	44.49
2585	65	05/15/90	10U HTZ	1.077	3.49	100.00	27.10	12.30	100.00	8.11	29.10	100.00	3.44	8.11	44.49
2585	65	07/18/90	11Z HTZ	1.087	1.35	311.00	230.48	12.30	541.00	43.87	81.10	954.00	11.74	25.24	29.15
2585	65	06/16/90	21J HTZ	1.279	6.24	100.00	14.62	13.00	100.00	7.25	30.90	100.00	3.24	7.25	33.23
2589	63	05/16/90	10S CEM	1.508	18.20	100.00	5.50	34.40	100.00	2.61	0.00	100.00	0.00	2.61	18.66
2589	54	05/03/90	11B HTZ	1.232	7.04	100.00	14.20	16.20	100.00	7.02	30.40	100.00	3.29	7.02	33.78
2589	65	05/15/90	10V HTZ	1.048	2.64	100.00	48.91	9.71	100.00	10.30	160.00	100.00	0.42	10.30	33.28
2589	65	07/18/90	11Z HTZ	1.113	2.74	311.00	113.45	17.50	541.00	30.95	84.00	954.00	11.34	17.81	23.65
2589	65	06/16/90	21J HTZ	1.279	11.10	50.50	4.54	17.00	100.00	5.83	0.60	100.00	0.00	2.97	16.96
2600	48	05/16/90	10T CEM	1.420	35.90	100.00	2.70	54.30	100.00	1.04	0.00	100.00	0.00	1.04	8.18
2600	54	06/03/90	11J HTZ	1.217	1.79	100.00	55.90	4.31	100.00	22.04	9.24	100.00	10.82	22.04	40.11
2600	65	05/15/90	10V HTZ	1.040	3.31	100.00	18.83	20.20	100.00	4.94	21.70	100.00	1.17	4.94	33.57
2600	65	07/18/90	11Z HTZ	1.113	8.28	1.00	3.59	0.00	1.00	0.00	0.00	1.00	0.00	0.00	8.35
2600	54	06/21/90	22Z HTZ	1.131	9.02	100.00	11.09	14.90	100.00	6.71	31.50	100.00	3.18	6.71	35.07
2625	54	05/03/90	11B HTZ	1.244	9.39	100.00	18.45	16.50	100.00	4.07	0.00	100.00	0.00	4.07	18.77
2625	65	07/18/90	11Z HTZ	1.064	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	3.84
2921	48	06/16/90	21J CEM	1.013	18.00	100.00	5.32	34.00	100.00	2.58	0.00	100.00	0.00	2.58	18.74
2921	45	05/15/90	10V HTZ	1.096	2.54	100.00	39.43	17.80	100.00	5.67	0.00	100.00	0.00	5.67	35.99
2921	48	06/01/90	10I HTZ	1.217	19.20	100.00	5.20	43.10	100.00	2.32	0.00	100.00	0.00	2.32	19.65
2922	48	06/21/90	24V CEM	0.758	55.90	100.00	1.79	0.00	100.00	0.00	0.00	100.00	0.00	0.00	5.26
2922	45	05/15/90	10V HTZ	1.096	18.70	100.00	5.35	55.00	100.00	1.82	0.00	100.00	0.00	1.82	18.16
2922	48	06/01/90	10J HTZ	1.207	33.30	100.00	3.00	55.10	100.00	1.00	0.00	100.00	0.00	1.00	14.95

AVS No.	Ship Name	Test Date	Plt #	Call	Diff.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAIT
3362 74	11/13/90 34J CEM	0.829	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.25
3362 75	12/04/90 34J CEM	0.574	7.94	100.00	12.54	92.18	100.00	1.08	0.00	100.00	0.00	0.00	100.00	0.00	1.08	23.58
3362 74	11/13/90 34C M12	1.153	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00
3374 65	05/14/90 101 CEM	1.206	91.68	100.00	1.09	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	6.09
3374 74	11/13/90 34J CEM	0.827	61.00	100.00	1.42	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	3.25
3374 75	12/04/90 34J CEM	0.574	2.98	100.00	31.41	12.90	100.00	7.77	30.80	100.00	3.25	91.60	100.00	3.25	7.77	42.90
3374 68	05/15/90 102 M12	0.874	13.90	100.00	7.17	41.60	100.00	2.40	0.00	100.00	0.00	0.00	100.00	1.09	2.40	23.55
3374 74	11/13/90 34J M12	1.129	42.98	100.00	2.33	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	7.64
3592 65	05/10/90 101 CEM	1.004	0.32	95.00	204.74	0.32	100.00	312.56	0.32	100.00	49.74	2.01	100.00	49.74	204.74	84.34
3592 51	05/09/89 04P M12	1.217	40.40	91.18	1.58	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	3.82
3592 61	10/31/89 102 M12	0.793	1.00	97.49	97.38	23.58	100.00	4.24	0.00	100.00	0.00	0.00	100.00	0.00	4.15	32.83
3592 65	04/18/90 12J M12	1.030	19.28	49.00	2.54	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	7.34
3592 65	05/10/90 102 M12	1.157	45.70	97.28	2.13	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	6.51
4032 68	08/21/90 24K CEM	0.742	63.50	74.48	0.79	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00
4032 74	12/01/89 074 M12	1.024	14.20	100.00	0.18	41.70	100.00	2.43	0.00	100.00	0.00	0.00	100.00	0.00	2.43	18.07
4032 74	08/01/89 080 M12	1.222	11.00	100.00	9.08	20.20	100.00	4.95	0.00	100.00	1.20	0.00	100.00	1.20	4.95	28.80
4032 65	05/15/90 100 M12	1.104	10.00	100.00	9.25	17.50	100.00	5.70	0.00	100.00	0.00	0.00	100.00	0.00	5.70	28.87
4032 68	08/01/90 106 M12	1.253	11.00	100.00	0.51	17.60	100.00	5.48	0.00	100.00	0.00	0.00	100.00	0.00	5.48	27.19
4035 34	12/01/89 03T M12	1.902	0.90	100.00	111.00	0.96	100.00	25.34	0.00	100.00	0.00	0.00	100.00	0.00	25.34	58.42
4035 34	08/01/89 060 M12	1.222	0.40	100.00	27.53	0.77	100.00	129.54	2.77	100.00	34.14	2.77	100.00	34.14	129.54	81.44
4035 65	05/15/90 106 M12	1.044	0.43	100.00	156.87	1.55	100.00	64.65	7.52	100.00	13.30	7.52	100.00	13.30	64.65	73.73
4036 64	08/15/90 220 CEM	1.040	15.70	100.00	0.34	24.90	100.00	3.71	100.00	100.00	0.00	100.00	100.00	0.00	3.71	19.07
4036 67	08/21/90 24K CEM	0.742	14.10	100.00	7.18	19.00	100.00	5.04	0.00	100.00	0.00	0.00	100.00	0.00	5.04	22.49
4036 67	02/20/91 4C8 CEM	0.779	10.94	54.38	5.34	14.00	100.00	0.24	0.00	100.00	0.00	0.00	100.00	0.00	0.00	18.43
4036 30	12/01/89 03T M12	1.902	6.04	95.00	13.90	15.18	100.00	6.82	0.00	100.00	0.00	0.00	100.00	0.00	6.82	32.32
4036 34	08/01/89 081 M12	1.195	2.03	100.00	49.34	6.85	100.00	12.48	0.00	100.00	0.00	0.00	100.00	0.00	12.48	39.13
4036 68	08/01/90 106 M12	1.255	5.93	100.00	14.04	12.90	100.00	7.79	29.20	100.00	3.42	29.20	100.00	3.42	7.79	42.34
4036 65	02/20/91 4C7 M12	1.356	7.00	7.91	1.13	14.30	100.00	4.20	0.00	100.00	0.00	0.00	100.00	0.00	4.20	9.81
4075 1A	01/20/89 042 CEM	1.163	0.55	100.00	11.70	14.10	100.00	7.09	29.50	100.00	3.79	29.50	100.00	3.79	7.09	35.77
4075 68	08/21/90 24V CEM	0.744	1.00	100.00	100.00	12.50	100.00	0.11	29.10	100.00	3.44	29.10	100.00	3.44	0.11	50.34
4075 65	02/20/91 4C8 CEM	0.779	1.04	100.00	04.39	3.73	100.00	24.04	37.20	100.00	2.69	37.20	100.00	2.69	24.04	49.44
4075 64	08/08/89 081 M12	1.139	34.90	100.00	3.78	58.00	100.00	1.70	0.00	100.00	0.00	0.00	100.00	0.00	1.70	14.91
4075 68	08/01/90 106 M12	1.292	29.90	100.00	3.35	79.60	100.00	1.24	0.00	100.00	0.00	0.00	100.00	0.00	1.24	9.22
4075 65	02/20/91 4C7 M12	1.356	0.64	34.64	56.93	1.45	91.20	43.01	0.00	100.00	0.00	0.00	100.00	0.00	25.13	46.22
4593 12A	11/01/90 304 CEM	1.261	6.43	100.00	11.04	64.30	100.00	1.19	0.00	100.00	0.00	0.00	100.00	0.00	1.19	9.24
4593 12A	11/14/90 345 CEM	0.731	12.00	100.00	43.42	64.00	100.00	15.44	0.00	100.00	0.00	0.00	100.00	0.00	15.44	41.48
4593 17A	11/01/90 21P M12	1.221	34.30	100.00	2.92	52.80	100.00	1.89	0.00	100.00	0.00	0.00	100.00	0.00	1.89	13.00
4593 12A	11/14/90 354 M12	0.448	61.90	100.00	16.14	143.00	100.00	6.98	422.00	1000.00	1.41	422.00	1000.00	1.41	6.98	33.94
4411 74	11/13/90 350 CEM	0.822	0.43	100.00	120.91	1.41	100.00	70.89	2.95	100.00	33.92	2.95	100.00	33.92	70.89	75.29
4411 65	02/20/91 4C8 CEM	0.724	0.44	100.00	228.08	0.41	100.00	143.34	1.97	100.00	50.74	1.97	100.00	50.74	143.34	83.70
4411 74	11/13/90 34C M12	1.179	1.17	12.50	10.51	1.64	24.00	14.66	2.99	100.00	33.41	2.99	100.00	33.41	7.52	29.49
4411 65	02/20/91 4C6 M12	1.359	0.32	29.08	90.43	0.37	94.30	256.30	0.91	100.00	110.51	0.91	100.00	110.51	78.79	65.94
4750 6A	11/01/90 307 CEM	1.161	0.32	100.00	312.50	0.32	100.00	312.50	0.32	100.00	312.50	0.32	100.00	312.50	312.50	99.50
4750 6A	11/14/90 345 CEM	0.731	0.01	1000.0	100000	0.01	1000.0	35938	0.01	1000.0	35938	0.01	1000.0	35938	0.01	99.10
4750 6A	05/11/89 05K M12	1.344	37.40	100.00	2.44	87.50	100.00	1.14	0.00	100.00	0.00	0.00	100.00	0.00	1.14	9.31
4750 6A	11/01/90 21P M12	1.221	0.32	100.00	312.50	0.32	100.00	312.50	0.51	100.00	198.11	0.51	100.00	198.11	312.50	97.90
4750 6A	11/14/90 354 M12	0.648	0.01	1000.0	100000	0.01	1000.0	100000	0.01	1000.0	100000	0.01	1000.0	100000	0.01	97.70

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AVS No.	Ship- ment	Test Date	Pit	Coil	Bluff.	IC 25	IC 25	IC 25	IC 50	IC 50	IC 50	IC 95	IC 95	AI 95	AI 95	BI	TAI V	
5114	54	07/09/54	104	CEH	1.175 <	0.32 >	108.00 >	312.50	67.50 >	100.00 >	1.48	0.00 >	100.00	0.00	0.00	0.00	1.48 >	18.17 *
5114	54	05/08/50	143	HTZ	1.023	0.00 >	108.00	0.00	0.00 >	100.00	0.00	0.00 >	100.00	0.00	0.00	0.00	0.00 >	3.90 -
5121	74	11/13/50	351	CEH	0.750	0.49	42.00	00.59	2.83	91.50	33.14	0.00 >	100.00	0.00	11.24	22.22 >	54.32 *	
5121	54	05/08/50	146	HTZ	1.194	11.20	53.30	4.77	17.70	74.50	4.20	0.00 >	100.00	0.00	0.00	3.00	19.53 *	
5121	74	11/13/50	349	HTZ	1.203	12.48	56.00	4.52	17.00	89.50	5.25	30.00 >	100.00	0.00	5.33	3.70	19.62 *	
5106	74	11/13/50	352	CEH	0.710	0.58 >	100.00 >	171.55	1.73	100.00 >	57.05	0.37 >	100.00	0.00	11.95	57.05 >	71.53 *	
5106	54	08/29/50	020	HTZ	1.290	3.03	83.00	30.99	4.81	100.00	20.70	0.00 >	100.00	0.00	0.00	19.49 >	36.31 *	
5106	65	05/16/50	144	HTZ	0.993	3.48	54.50	10.27	11.50	94.00	8.99	0.00 >	100.00	0.00	0.00	4.00 >	23.52 *	
5106	74	11/13/50	341	HTZ	1.177	53.10	5.30	0.10	2.00	7.00	0.00	0.00 >	100.00	0.00	0.00	0.00	0.20 *	
5235	52	06/20/50	041	HTZ	0.891	0.00	4.31	0.00	0.00	4.43	0.00	0.00	18.30	0.00	0.00	0.00	4.06 -	
5235	52	06/21/50	042	HTZ	1.133	45.90	64.00	1.44	97.00 >	100.00 >	1.03	0.00 >	100.00	0.00	0.00	0.00	2.54 -	
5340	54	07/19/50	003	HTZ	0.847 <	0.00	5.70	0.00	0.00	0.35	0.00	0.00 >	100.00	0.00	0.00	0.00	0.11 -	
5340	54	05/10/50	111	HTZ	0.847 <	0.32	52.70	144.54 <	0.32	74.20	231.80 <	0.32 >	100.00	0.00	312.50	164.54 >	65.49 *	
5340	54	07/17/50	141	HTZ	0.942	0.00	4.41	0.10	0.00	7.82	4473.9	0.01 >	10.00	0.00	1190.4	2523.0	42.82 *	
5406	65	08/07/50	207	CEH	1.122	40.70	100.00	1.45	0.00	100.00	0.00	0.00 >	100.00	0.00	0.00	0.00	7.47 *	
5406	65	08/16/50	214	CEH	0.711	37.90	100.00	1.73	0.00	100.00	0.00	0.00 >	100.00	0.00	0.00	0.00	4.74 *	
5406	94	03/16/50	092	HTZ	1.265	24.20	100.00	4.13	45.90 >	100.00 >	2.18	0.00 >	100.00	0.00	0.00	2.18	18.05 *	
5406	54	08/17/50	050	HTZ	1.314	0.00	2.45	12.18	0.00	4.00	0.00	0.00 >	100.00	0.00	0.00	0.00	19.48 *	
5406	54	08/17/50	050	HTZ	1.309	0.00	5.30	0.00	0.00	7.44	0.00	0.00 >	100.00	0.00	0.00	0.00	3.16 *	
5406	65	05/16/50	145	HTZ	1.100	0.00	5.43	0.00	0.00	0.06	0.00	0.00 >	100.00	0.00	0.00	0.00	0.00 -	
5540	53	03/30/50	004	HTZ	1.204	1.33 >	10.00 >	7.51	2.22 >	10.00 >	4.51	0.37 >	10.00	0.00	1.19	4.51 >	30.15 *	
5540	53	05/16/50	004	HTZ	1.204	0.00	13.50	0.00	0.00	19.00	0.00	0.00 >	100.00	0.00	0.00	0.00	2.72 -	
5440	54	07/19/50	008	HTZ	0.795 <	0.32	77.90	243.54 <	0.32	100.00	312.50	2.22 >	100.00	0.00	44.95	243.54 >	81.39 *	
5440	54	08/04/50	009	HTZ	1.465	0.00	0.20	0.00	0.00	0.40	0.00	0.00 >	100.00	0.00	0.00	0.00	0.62 -	
5440	54	08/05/50	011	HTZ	1.505	0.00	15.00	0.00	0.00	22.70	0.00	0.00 >	100.00	0.00	0.00	0.00	0.40 -	
5440	54	08/17/50	050	HTZ	1.314	0.00	2.45	12.18	0.00	4.00	0.00	0.00 >	100.00	0.00	0.00	0.00	19.48 *	
5440	54	08/17/50	050	HTZ	1.309	0.00	5.30	0.00	0.00	7.44	0.00	0.00 >	100.00	0.00	0.00	0.00	3.16 *	
5440	65	05/16/50	145	HTZ	1.100	0.00	5.43	0.00	0.00	0.06	0.00	0.00 >	100.00	0.00	0.00	0.00	0.00 -	
5691	65	08/15/50	221	CEH	1.271	4.50 >	100.00 >	21.91	7.20	100.00 >	13.74	24.00 >	100.00	0.00	3.73	13.74 >	45.29 *	
5691	57	08/23/50	018	HTZ	1.271	2.70	100.00	35.83	4.82 >	100.00	20.75	14.00 >	100.00	0.00	5.06	20.75 >	52.51 *	
5732	58	09/05/50	005	HTZ	1.240	3.33 >	100.00 >	30.07	5.39	100.00	18.55	23.20 >	100.00	0.00	4.32	18.55 >	47.21 *	
5732	58	10/17/50	012	HTZ	1.310	0.00	1.04	0.00	0.00	2.76	0.00	0.00 >	100.00	0.00	0.00	0.00	1.81 -	
5733	58	05/26/50	104	HTZ	1.231	37.60	100.00	2.44	50.40	100.00	1.71	0.00 >	100.00	0.00	0.00	1.71	10.06 *	
5733	58	07/17/50	151	HTZ	0.931	13.50	325.00	24.13	24.50	550.00	20.74	89.70	953.00	10.64	10.64	12.36	20.53 *	
5735	58	09/05/50	050	HTZ	1.264	0.00	100.00	0.30	21.50	100.00	4.64	84.10	100.00	0.00	1.19	4.64	22.79 *	
5735	58	10/17/50	012	HTZ	1.310	0.00	6.74	0.00	0.00	10.00	0.00	0.00 >	100.00	0.00	0.00	0.00	0.94 -	
5748	59	06/16/50	214	CEH	0.711	13.40	100.00	7.48	17.90	100.00	5.59	30.20	100.00	0.00	3.31	5.59	27.10 *	
5748	59	05/30/50	101	HTZ	1.119	13.20	37.10	2.81	6.00	70.40	0.80	0.00	100.00	0.00	0.00	0.00	2.91 *	
5767	59	08/21/50	212	CEH	0.830	4.50	49.20	10.74	10.30	64.30	4.55	0.00	97.30	0.00	0.00	4.70	23.60 *	
5767	73	05/20/50	201	CEH	0.873	2.05	27.60	9.64	15.30	52.00	3.45	0.00	100.00	0.00	0.00	1.70	16.70 *	
5767	59	05/30/50	101	HTZ	1.102	4.76	34.00	5.39	21.70	50.20	2.69	0.00	98.20	0.00	0.00	1.48	10.20 *	
5737	73	09/28/50	265	HTZ	1.052	0.00	16.30	0.00	0.00	23.40	0.00	0.00 >	100.00	0.00	0.00	0.00	0.90 -	

AWB No.	Ship name	Teat Date	Pile #	Call	DIFF.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	BI	A	
																TAI T	C
5070	61	11/02/89	145	H12	1.223	16.10	53.00	3.20	0.00	74.00	0.00	0.00	100.00	0.00	0.00	0.00	0.55
5070	61	11/30/89	142	H12	0.971	0.32	32.00	100.00	1.03	55.00	53.70	7.00	96.40	14.01	30.95	44.00	0.55
5070	61	02/06/90	142	H12	1.272	19.40	54.10	2.78	0.00	76.20	0.00	0.00	100.00	0.00	0.00	7.00	0.00
5071	61	11/02/89	144	H12	1.223	3.44	17.00	5.20	4.91	25.70	5.24	9.31	97.40	10.44	3.44	17.10	0.00
5071	61	11/30/89	142	H12	0.971	4.73	14.50	3.50	6.00	23.10	3.31	0.00	78.00	0.00	2.37	10.40	0.00
5071	61	02/06/90	142	H12	1.272	4.00	25.70	3.50	7.00	50.20	7.00	0.00	100.00	0.00	3.45	10.04	0.00
5072	61	11/02/89	106	H12	1.262	1.70	100.00	56.27	6.00	100.00	16.12	53.90	100.00	1.70	16.42	47.30	0.00
5072	61	11/30/89	145	H12	1.125	3.20	50.00	10.30	3.20	85.10	26.40	3.20	307.00	65.83	10.30	46.13	0.00
5073	61	11/02/89	100	H12	1.379	3.00	100.00	27.33	0.44	100.00	11.02	20.10	100.00	3.54	11.02	45.93	0.00
5073	61	11/30/89	145	H12	1.019	0.32	51.50	161.06	0.42	71.10	149.15	2.17	100.00	44.00	122.45	70.30	0.00
5075	61	11/02/89	100	H12	1.379	11.20	100.00	0.94	20.40	100.00	3.50	90.40	100.00	1.30	3.50	27.01	0.00
5075	61	11/30/89	145	H12	1.125	3.20	50.70	15.04	3.20	69.40	21.00	6.22	190.00	31.00	13.04	29.21	0.00
5076	61	11/12/89	100	H12	1.201	3.20	50.30	15.71	0.21	60.40	11.03	24.70	100.00	3.75	0.10	35.31	0.00
5076	61	11/30/89	143	H12	1.019	0.35	21.20	30.35	0.94	33.40	34.05	2.83	94.40	33.34	22.10	44.44	0.00
5080	61	11/02/89	100	H12	1.200	1.20	100.00	0.64	4.10	100.00	23.07	30.90	100.00	2.31	23.07	34.06	0.00
5080	61	11/30/89	144	H12	1.052	3.20	40.50	15.40	4.00	67.10	16.70	0.00	90.40	0.00	12.30	32.32	0.00
5082	61	11/13/89	124	H12	1.095	10.30	100.00	0.70	15.00	100.00	6.45	29.70	100.00	3.37	6.45	20.37	0.00
5082	61	11/30/89	144	H12	1.052	3.20	75.40	23.42	3.20	141.00	43.05	4.22	305.00	49.00	23.02	44.03	0.00
5084	61	11/13/89	120	H12	1.121	0.04	37.00	0.33	13.40	82.00	6.10	29.30	100.00	3.45	4.20	20.90	0.00
5084	61	11/30/89	144	H12	1.041	0.32	52.20	163.24	1.03	72.50	70.20	0.30	100.00	0.00	10.40	52.90	0.00
5085	61	11/13/89	120	H12	1.121	4.90	100.00	20.25	12.50	100.00	7.90	29.10	100.00	3.45	7.90	43.00	0.00
5085	61	02/16/90	103	H12	1.104	2.11	100.00	47.50	4.25	100.00	23.50	9.40	100.00	10.55	23.50	50.42	0.00
5087	61	11/13/89	120	H12	1.194	1.11	54.70	69.27	1.04	100.00	33.43	7.00	100.00	12.40	29.32	53.32	0.00
5087	61	02/16/90	103	H12	1.104	0.32	10.40	37.44	0.32	55.30	172.00	0.00	100.00	0.00	37.44	54.33	0.00
5094	60	04/01/90	141	CE0	0.005	0.32	100.00	312.50	0.34	100.00	290.50	13.90	100.00	7.17	290.50	01.92	0.00
5094	60	10/25/89	141	H12	1.424	32.70	100.00	3.06	53.40	100.00	1.81	0.00	100.00	0.00	1.81	16.55	0.00
5094	62	02/27/90	101	H12	1.174	45.40	100.00	2.20	94.30	100.00	1.06	0.00	100.00	0.00	1.06	0.23	0.00
5096	61	04/01/90	141	CE0	1.044	3.01	65.30	17.15	7.07	100.00	14.15	0.00	100.00	0.00	0.23	20.40	0.00
5096	61	04/18/90	140	CE0	0.925	0.32	77.30	243.47	3.34	100.00	29.01	0.94	100.00	11.34	23.13	60.35	0.00
5096	61	07/25/90	140	CE0	0.000	0.32	59.20	105.00	3.31	100.00	29.06	0.00	100.00	0.00	17.60	47.92	0.00
5096	60	00/02/90	119	CE0	0.920	3.20	97.40	30.43	5.23	100.00	19.12	0.00	100.00	0.00	10.62	40.07	0.00
5096	61	12/20/89	150	H12	1.207	0.45	31.20	47.76	1.54	57.90	39.81	0.00	100.00	0.00	21.42	41.36	0.00
5096	61	02/16/90	100	H12	1.200	0.31	35.20	69.71	1.54	61.00	39.65	7.00	100.00	12.40	22.50	50.54	0.00
5096	60	06/07/90	100	H12	0.940	0.45	33.50	76.90	4.22	71.30	16.90	0.17	100.00	10.90	7.94	43.20	0.00
6075	60	07/19/90	107	CE0	0.751	0.50	100.00	172.70	0.00	100.00	0.00	0.00	100.00	0.00	0.00	34.11	0.00
6075	62	01/30/90	171	H12	1.004	4.04	49.20	10.15	12.40	64.30	5.34	29.40	97.30	3.28	3.97	20.10	0.00
6075	61	02/16/90	107	H12	1.104	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.21	0.00
6075	60	06/07/90	100	H12	0.940	17.40	51.00	2.90	0.00	71.50	0.00	0.00	100.00	0.00	0.00	7.25	0.00
6107	62	01/30/90	170	H12	0.496	42.00	100.00	2.33	00.00	100.00	1.12	0.00	100.00	0.00	1.12	12.47	0.00
6107	62	02/20/90	100	H12	1.274	0.00	54.40	0.00	0.00	76.70	0.00	0.00	202.00	0.00	0.00	0.00	0.00

AVS No.	Ship Name	PLT	Test Date	Call	Bluff	IC 24	TC 25	AI 25	IC 56	TC 56	AI 50	IC 55	TC 95	AI 95	81	A	C
6191	66	08/16/90	224	CEH	1.049	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	5.70	
6191	64	02/07/90	190	M12	1.270	44.18	100.00	2.27	43.68	100.00	1.37	0.00	100.00	0.00	1.37	11.74	
6191	62	06/12/90	190	M12	0.966	14.38	100.00	6.99	42.28	100.00	2.37	91.70	100.00	1.09	2.37	27.94	
6192	74	11/13/90	354	CEH	0.728	3.20	100.00	31.25	8.35	100.00	11.70	29.20	100.00	3.34	11.70	42.05	
6192	62	02/07/90	190	M12	1.279	13.36	100.00	7.54	20.10	100.00	4.98	77.20	100.00	1.38	4.98	27.45	
6192	64	06/12/90	190	M12	0.966	18.58	100.00	9.54	15.20	100.00	6.59	29.70	100.00	3.17	6.59	40.87	
6192	74	11/13/90	344	M12	1.111	0.00	29.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	
6193	66	07/26/90	190	CEH	0.711	6.03	100.00	16.59	16.18	100.00	6.21	85.70	100.00	1.17	6.21	28.95	
6193	64	02/07/90	190	M12	1.176	12.48	100.00	8.09	39.50	100.00	2.52	0.00	100.00	0.00	2.52	23.87	
6193	62	06/12/90	190	M12	0.854	5.97	100.00	14.75	88.70	100.00	1.13	0.00	100.00	0.00	1.13	22.70	
6194	74	11/13/90	355	CEH	0.815	0.00	100.00	12.42	14.18	100.00	7.89	29.50	100.00	3.39	7.89	36.87	
6194	62	02/07/90	190	M12	1.176	3.48	100.00	27.33	3.72	100.00	19.55	9.35	100.00	10.69	19.55	33.81	
6194	64	06/12/90	190	M12	0.854	3.25	100.00	30.78	4.73	100.00	21.16	9.28	100.00	10.78	21.16	51.34	
6194	74	11/13/90	344	M12	1.105	0.13	100.00	12.26	13.96	100.00	7.17	29.60	100.00	3.48	7.17	35.97	
6195	74	11/13/90	355	CEH	0.815	49.40	100.00	2.02	97.30	100.00	1.93	0.00	100.00	0.00	1.93	9.89	
6195	62	02/07/90	190	M12	1.311	8.54	50.60	3.55	16.30	100.00	7.81	29.50	100.00	3.39	2.13	32.76	
6195	64	06/26/90	108	M12	1.032	3.82	100.00	26.17	5.53	100.00	18.87	17.00	100.00	5.59	18.87	52.10	
6195	74	11/13/90	344	M12	1.105	37.90	100.00	2.84	52.33	100.00	1.91	93.70	100.00	1.87	1.91	12.47	
6196	74	02/20/91	400	CEH	0.753	47.18	100.00	2.12	78.38	100.00	1.28	0.00	100.00	0.00	1.28	2.46	
6196	62	02/07/90	190	M12	1.311	32.50	100.00	3.08	47.50	100.00	2.12	92.80	100.00	1.08	2.12	17.13	
6196	64	06/26/90	108	M12	1.042	10.70	30.00	9.31	16.80	100.00	5.95	0.00	100.00	0.00	5.95	31.70	
6196	74	02/20/91	400	M12	1.429	36.90	100.00	2.71	52.70	100.00	1.90	100.00	100.00	1.08	1.90	12.16	
6197	74	11/13/90	356	CEH	0.828	17.50	10.00	5.72	44.70	100.00	2.24	0.00	100.00	0.00	2.24	22.04	
6197	62	02/07/90	180	M12	1.048	4.80	3.00	20.83	7.78	100.00	12.85	28.50	100.00	3.44	12.85	32.10	
6197	64	06/26/90	108	M12	0.970	5.20	100.00	19.23	8.81	100.00	11.55	28.00	100.00	3.57	11.55	31.10	
6197	74	11/13/90	340	M12	1.143	37.90	100.00	2.84	52.30	100.00	1.91	93.70	100.00	1.87	1.91	13.65	
6198	74	11/13/90	356	CEH	0.828	33.48	100.00	2.99	48.28	100.00	2.08	93.80	100.00	1.08	2.08	17.64	
6198	62	02/07/90	180	M12	1.048	16.28	100.00	6.16	28.48	100.00	3.79	84.70	100.00	1.15	3.79	21.94	
6198	64	06/26/90	108	M12	0.970	7.18	100.00	14.08	14.38	100.00	7.81	29.50	100.00	3.39	7.81	38.77	
6198	74	07/18/90	110	M12	1.148	4.49	325.00	72.48	17.98	550.00	38.44	84.20	955.00	11.34	58.12	25.70	
6198	74	11/13/90	344	M12	1.143	29.30	100.00	3.42	49.20	100.00	2.83	0.00	100.00	0.00	2.83	11.96	
6199	64	08/02/90	110	CEH	0.923	1.47	100.00	67.86	38.18	100.00	3.33	0.00	100.00	0.00	3.33	26.51	
6199	62	02/07/90	182	M12	1.095	41.48	100.00	2.48	54.90	100.00	1.74	100.00	100.00	1.68	1.74	11.44	
6199	64	02/20/90	184	M12	0.954	152.80	1000.00	6.58	272.08	1000.00	3.48	876.00	1000.00	1.14	3.48	26.44	
6199	64	06/26/90	108	M12	0.918	42.88	100.00	2.33	56.68	100.00	1.77	84.50	100.00	1.64	1.77	9.92	
6199	62	07/18/90	110	M12	1.213	15.98	325.00	29.61	29.48	530.00	18.72	88.50	955.00	18.79	11.86	20.80	
6200	62	06/26/90	108	CEH	0.545	0.32	100.00	312.58	8.87	100.00	11.27	68.40	100.00	1.44	11.27	52.45	
6200	64	07/19/90	112	CEH	0.590	0.32	100.00	312.58	2.28	100.00	43.87	9.00	100.00	0.00	43.87	43.18	
6200	64	08/02/90	112	CEH	0.726	0.00	42.90	0.80	0.00	100.00	0.00	0.00	100.00	0.00	0.00	4.15	
6200	62	02/06/90	182	M12	1.095	17.00	100.00	5.89	32.78	100.00	3.08	89.40	100.00	1.12	3.08	23.84	
6200	64	06/26/90	108	M12	0.918	1.40	100.00	6.85	21.50	100.00	4.70	78.10	100.00	1.28	4.70	29.15	
6201	62	06/26/90	108	CEH	0.545	0.57	100.00	174.78	10.50	100.00	9.70	0.00	100.00	0.00	9.70	50.52	
6201	64	07/19/90	112	CEH	0.590	0.32	100.00	312.58	2.54	100.00	39.63	27.00	100.00	1.71	39.63	42.20	
6201	64	08/02/90	112	CEH	0.726	0.00	59.90	0.00	0.00	87.70	0.00	0.00	100.00	0.00	0.00	1.60	
6201	62	02/06/90	180	M12	1.036	13.00	100.00	7.70	23.50	100.00	4.25	85.70	100.00	1.17	4.25	27.35	
6201	64	06/26/90	108	M12	1.001	3.20	100.00	31.25	14.40	100.00	6.93	29.50	100.00	3.38	6.93	40.72	

WSP No.	Ship Name	Test Date	Pit #	Call	DIFF.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAI T	A		C	
																	SI	TAI T	SI	TAI T
6202	42	04/24/90	11C	CEH	0.403	0.32	100.00	312.50	55.90	100.00	2.79	100.00	100.00	1.00	2.79	42.36				
6202	44	07/24/90	190	CEH	0.899	0.50	95.50	192.48	0.00	100.00	0.00	0.00	100.00	0.00	0.00	12.83				
6202	48	05/07/90	207	CEH	1.144	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	2.80				
6202	42	02/04/90	190	M12	1.034	32.50	100.00	7.99	20.80	100.00	4.80	42.20	100.00	1.22	4.80	27.82				
6202	44	04/24/90	102	M12	1.001	0.16	100.00	10.92	15.70	110.00	6.35	81.30	100.00	1.23	6.35	33.47				
6203	42	04/24/90	11C	CEH	0.403	0.32	100.00	312.50	0.00	100.00	0.00	0.00	100.00	0.00	0.00	4.33				
6203	44	02/06/90	191	M12	1.047	41.00	100.00	2.39	55.90	100.00	1.79	94.40	100.00	1.04	1.79	13.42				
6203	44	04/24/90	10F	M12	0.933	30.70	100.00	2.77	57.30	100.00	1.74	0.00	100.00	0.00	1.34	21.47				
6205	42	02/04/90	192	M12	1.000	37.40	100.00	2.67	52.00	100.00	1.92	93.70	100.00	1.07	1.92	13.04				
6205	44	04/24/90	10F	M12	0.935	0.32	100.00	312.50	23.10	100.00	4.33	87.00	100.00	1.15	4.33	34.44				
6205	74	11/13/90	344	M12	1.128	33.90	100.00	2.95	48.60	100.00	2.06	93.00	100.00	1.07	2.06	16.45				
6207	74	11/13/90	357	CEH	0.754	42.40	0.14	0.00	0.00	0.29	0.00	0.00	3.09	0.00	0.00	0.09				
6207	42	02/06/90	190	M12	1.152	12.40	49.00	3.94	17.40	44.00	3.74	49.10	94.40	1.97	2.78	23.24				
6207	44	04/27/90	101	M12	1.003	4.12	100.00	24.24	35.50	100.00	2.32	90.20	100.00	1.11	2.32	33.85				
6207	74	11/13/90	344	M12	1.128	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.83				
6208	42	04/24/90	11C	CEH	0.427	0.32	100.00	312.50	3.20	100.00	30.45	13.90	100.00	2.17	30.45	42.48				
6208	44	08/07/90	202	CEH	1.144	6.40	95.00	23.63	6.40	100.00	13.48	23.00	100.00	3.00	14.70	42.24				
6208	42	02/04/90	190	M12	1.152	1.82	100.00	90.20	3.41	100.00	24.24	40.90	100.00	2.44	24.24	54.31				
6208	44	04/27/90	101	M12	1.003	0.32	92.70	209.73	1.75	100.00	57.03	8.50	100.00	1.77	52.00	70.14				
6209	42	04/24/90	11C	CEH	0.427	0.32	100.00	312.50	2.81	100.00	35.54	8.00	100.00	11.26	35.54	70.01				
6209	44	07/24/90	190	CEH	0.833	4.20	100.00	23.82	6.40	100.00	15.16	23.00	100.00	3.00	15.16	45.40				
6209	44	04/07/90	203	CEH	1.147	5.43	100.00	18.43	10.70	100.00	9.34	28.70	100.00	3.49	9.34	61.48				
6209	42	02/06/90	190	M12	1.101	2.92	100.00	34.30	4.32	100.00	21.82	9.25	100.00	10.81	21.82	55.91				
6210	42	04/01/90	11C	CEH	0.932	1.30	100.00	74.85	2.25	100.00	44.48	4.14	100.00	11.82	44.48	62.02				
6210	44	07/24/90	190	CEH	0.839	0.34	100.00	291.01	2.22	100.00	44.97	64.10	100.00	1.54	64.97	58.20				
6210	44	04/07/90	203	CEH	1.147	1.00	100.00	100.00	1.55	100.00	64.37	3.31	100.00	14.83	64.37	73.64				
6210	42	02/04/90	190	M12	1.101	5.34	100.00	18.05	12.50	100.00	8.02	50.70	100.00	3.25	8.02	41.18				
6211	42	04/01/90	11C	CEH	0.932	4.00	100.00	25.03	3.70	100.00	17.29	20.50	100.00	4.89	17.29	50.79				
6211	44	07/24/90	190	CEH	0.833	2.41	100.00	41.43	6.39	100.00	15.5	8.00	100.00	0.00	15.65	34.18				
6211	44	04/07/90	204	CEH	1.210	18.00	72.50	7.25	17.30	100.00	5.78	2.00	100.00	0.00	4.19	22.64				
6211	42	02/06/90	190	M12	1.125	3.20	48.00	19.00	5.48	89.40	19.16	9.27	100.00	10.79	13.00	42.03				
6211	44	04/27/90	101	M12	1.131	2.34	77.30	32.32	4.43	100.00	22.57	9.22	100.00	10.05	17.65	40.07				
6212	42	02/06/90	190	M12	1.125	15.10	49.00	3.25	25.00	44.00	2.34	0.00	94.40	0.20	1.90	12.74				
6212	44	04/27/90	101	M12	1.131	22.70	100.00	4.41	42.70	100.00	2.34	91.00	100.00	1.00	2.34	20.23				
6214	44	04/16/90	232	CEH	0.810	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	4.90				
6214	42	11/27/90	306	CEH	1.120	35.70	100.00	2.80	50.30	100.00	1.99	93.40	100.00	1.07	1.99	18.73				
6214	42	02/07/90	190	M12	1.220	33.70	100.00	2.80	50.50	100.00	1.99	93.40	100.00	1.07	1.99	17.13				
6214	44	04/27/90	101	M12	1.148	1.59	100.00	42.80	47.50	100.00	2.32	92.00	100.00	1.00	2.12	32.55				
6214	74	11/27/90	378	M12	0.713	21.70	100.00	4.41	44.80	100.00	2.23	92.50	100.00	1.00	2.23	23.54				
6215	42	04/01/90	11C	CEH	0.879	0.32	125.00	312.50	1.17	100.00	85.43	7.90	100.00	12.40	85.43	74.04				
6215	44	04/07/90	204	CEH	1.210	0.43	100.00	231.34	1.70	100.00	55.90	8.44	100.00	11.57	55.90	71.43				
6215	44	04/21/90	250	CEH	0.744	1.23	100.00	81.50	1.49	100.00	59.21	3.00	100.00	33.31	59.21	23.63				
6215	42	02/07/90	190	M12	1.274	4.69	100.00	16.95	15.40	100.00	4.48	72.90	100.00	1.17	4.48	31.28				
6215	44	04/27/90	101	M12	1.148	7.52	100.00	13.50	19.10	100.00	5.22	0.00	100.00	0.00	3.22	33.09				

AVS	Ship	Test	Pitt	B16F	IC 25	TC 25	AI 25	IC 54	TC 54	AI 54	IC 95	TC 95	AI 95	SE	YAT
4216	74	11/27/90	308 CEM	1.129	10.50 > 100.00 >	9.49	16.30 > 100.00 >	4.15	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	4.15 > 31.51 >	
4216	42	02/07/90	195 M12	1.276	13.70 > 57.70 >	3.04	23.90 > 73.50 >	3.87	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.20 > 14.00 >	
4216	64	04/27/90	108 M12	1.162	3.20 > 100.00 >	31.25	12.90 > 100.00 >	7.75	29.20 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	7.75 > 43.61 >	
4216	74	11/27/90	378 M12	0.713	9.00 > 20.20 >	0.00	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 6.94 >	
4217	44	06/15/90	23 CEM	0.951	4.79 > 100.00 >	20.87	0.67 > 100.00 >	11.53	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	11.53 > 45.48 >	
4217	42	02/07/90	194 M12	1.247	3.25 > 100.00 >	20.78	4.73 > 100.00 >	21.16	9.20 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	21.16 > 54.11 >	
4217	64	04/27/90	108 M12	1.162	3.70 > 100.00 >	26.41	5.23 > 100.00 >	19.11	9.37 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	19.11 > 51.90 >	
4218	44	06/15/90	23 CEM	0.919	14.00 > 100.00 >	5.91	34.00 > 100.00 >	2.94	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.94 > 18.93 >	
4218	42	02/07/90	194 M12	1.247	1.84 > 7.43 >	4.03	4.87 > 52.60 >	18.76	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	1.53 > 14.47 >	
4218	64	06/28/90	109 M12	1.174	2.94 > 100.00 >	33.77	4.74 > 100.00 >	21.02	44.50 > 109.00 >	2.26 > 109.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	21.02 > 52.50 >	
4218	42	07/18/90	119 M12	1.212	1.83 > 198.00 >	190.54	2.32 > 644.00 >	199.00	10.00 > 944.00 >	94.04	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	84.53 > 37.42 >	
4219	44	06/07/90	205 CEM	1.135	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 5.59 >	
4219	74	11/27/90	308 CEM	1.245	43.50 > 100.00 >	1.20	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 2.43 >	
4219	42	02/07/90	197 M12	1.207	17.10 > 100.00 >	5.63	37.04 > 100.00 >	2.87	90.00 > 100.00 >	1.11 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.87 > 22.24 >	
4219	42	02/20/90	112 M12	1.180	19.60 > 100.00 >	9.15	50.90 > 259.00 >	6.56	91.20 > 099.00 >	9.74 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	4.50 > 25.82 >	
4219	44	06/28/90	109 M12	1.174	11.00 > 100.00 >	8.44	20.10 > 100.00 >	6.98	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	4.90 > 30.34 >	
4219	42	07/18/90	111 M12	1.147	10.90 > 54.00 >	33.19	22.90 > 433.00 >	27.27	84.30 > 1000.00 >	11.29 > 1000.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	13.82 > 24.18 >	
4219	74	11/27/90	378 M12	0.911	3.87 > 100.10 >	25.84	32.00 > 100.00 >	3.13	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	3.13 > 32.18 >	
4220	44	06/15/90	224 CEM	1.049	10.90 > 100.00 >	9.17	15.60 > 100.00 >	6.41	29.80 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	6.41 > 32.39 >	
4220	42	02/07/90	197 M12	1.207	3.48 > 100.00 >	28.72	4.95 > 100.00 >	20.21	9.32 > 100.00 >	19.73 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	20.21 > 55.21 >	
4220	64	06/28/90	108 M12	1.094	3.34 > 100.00 >	29.91	1.92 > 100.00 >	20.74	9.30 > 100.00 >	14.76 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	20.74 > 60.71 >	
4221	44	06/24/90	104 CEM	1.158	14.00 > 100.00 >	5.94	24.70 > 100.00 >	3.48	84.73 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	3.48 > 21.14 >	
4221	42	02/07/90	198 M12	1.222	16.00 > 100.00 >	6.24	34.90 > 100.00 >	2.87	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.87 > 23.44 >	
4222	44	06/24/90	104 CEM	1.156	39.90 > 100.00 >	2.50	59.34 > 100.00 >	1.49	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	1.49 > 12.14 >	
4222	42	02/07/90	198 M12	1.222	14.40 > 100.00 >	6.87	36.20 > 100.00 >	2.78	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.78 > 22.98 >	
4223	44	06/24/90	104 CEM	1.318	0.87 > 100.00 >	11.27	14.40 > 100.00 >	6.93	29.50 > 100.00 >	3.26 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	6.93 > 38.76 >	
4223	42	02/07/90	199 M12	1.278	4.03 > 100.00 >	24.82	5.43 > 100.00 >	18.33	9.41 > 100.00 >	19.62 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	18.33 > 52.18 >	
4224	42	06/20/90	104 CEM	1.318	5.49 > 100.00 >	18.22	13.10 > 100.00 >	7.45	29.30 > 100.00 >	3.42 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	7.45 > 43.17 >	
4224	42	02/07/90	199 M12	1.278	5.14 > 100.00 >	19.44	12.30 > 100.00 >	8.11	29.10 > 100.00 >	3.44 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	8.11 > 42.08 >	
4225	44	06/24/90	104 CEM	1.138	19.40 > 100.00 >	9.45	14.70 > 100.00 >	4.17	42.20 > 100.00 >	1.61 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	4.17 > 34.04 >	
4225	44	06/15/90	220 CEM	1.072	93.90 > 100.00 >	1.87	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 5.70 >	
4225	42	02/07/90	191 M12	1.235	12.10 > 100.00 >	7.24	15.80 > 100.00 >	5.94	34.00 > 100.00 >	3.33 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	5.94 > 33.04 >	
4226	44	06/15/90	220 CEM	1.072	70.10 > 100.00 >	1.28	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 2.48 >	
4226	42	02/13/90	144 M12	1.053	18.80 > 100.00 >	5.94	34.80 > 100.00 >	2.87	90.00 > 100.00 >	1.11 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	2.87 > 21.08 >	
4227	44	06/24/90	104 CEM	1.223	11.60 > 85.10 >	7.34	14.30 > 100.00 >	6.35	29.90 > 100.00 >	3.34 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	6.35 > 33.09 >	
4227	44	06/15/90	220 CEM	0.960	44.30 > 100.00 >	2.16	70.10 > 100.00 >	1.42	8.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	1.42 > 8.01 >	
4227	42	02/13/90	144 M12	1.053	7.61 > 100.00 >	13.15	13.80 > 100.00 >	7.24	29.40 > 100.00 >	3.40 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	7.24 > 35.67 >	
4228	44	06/24/90	104 CEM	1.221	13.40 > 69.00 >	3.44	0.00 > 64.00 >	0.00	0.00 > 96.40 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 15.45 >	
4228	42	06/15/90	220 CEM	0.960	0.00 > 170.00 >	0.00	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 1.19 >	
4228	42	02/13/90	145 M12	0.823	10.20 > 42.90 >	4.20	14.90 > 93.80 >	6.30	29.60 > 100.00 >	3.37 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	6.30 > 26.00 >	
4229	44	06/24/90	102 CEM	1.357	44.90 > 100.00 >	2.14	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 17.88 >	
4229	44	06/15/90	220 CEM	1.025	44.80 > 100.00 >	2.14	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 7.03 >	
4229	42	02/13/90	145 M12	0.823	34.40 > 100.00 >	2.91	42.20 > 100.00 >	1.61	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	1.61 > 19.06 >	
4230	42	04/01/90	114 CEM	1.046	0.90 > 100.00 >	0.00	0.00 > 100.00 >	0.00	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 100.00 >	0.00 > 6.29 >	

AVS No.	Ship. No.	Test Date	Pit	Cell	Diff.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAI T
						0.157	24.50 > 100.00 > 4.99	1.357	45.30 > 100.00 > 2.21	92.44 > 100.00 > 1.06	2.21 > 29.44 *	1.357	24.50 > 100.00 > 4.99	1.357	45.30 > 100.00 > 2.21	92.44 > 100.00 > 1.06
4230	44	04/26/90	182	CEH	1.357	24.50 > 100.00 > 4.99	1.357	45.30 > 100.00 > 2.21	92.44 > 100.00 > 1.06	2.21 > 29.44 *	1.357	45.30 > 100.00 > 2.21	92.44 > 100.00 > 1.06	2.21 > 29.44 *	2.21 > 29.44 *	29.44 *
4230	42	02/13/90	146	MT2	1.027	14.90 > 100.00 > 5.91	1.027	29.30 > 100.00 > 3.41	84.40 > 100.00 > 1.13	3.41 > 84.40 *	1.027	29.30 > 100.00 > 3.41	84.40 > 100.00 > 1.13	3.41 > 84.40 *	3.41 > 84.40 *	22.74 *
4230	61	02/27/90	163	MT2	1.160	33.90 > 175.00 > 5.17	1.160	48.60 > 251.00 > 5.16	93.08 > 1600.00 > 16.75	5.16 > 93.08 *	1.160	48.60 > 251.00 > 5.16	93.08 > 1600.00 > 16.75	5.16 > 93.08 *	5.61 > 19.98 *	19.98 *
4289	14A	12/07/89	119	CEH	0.907	5.01 > 100.00 > 19.97	0.907	6.33 > 100.00 > 12.01	4.95 > 100.00 > 20.19	12.01 > 4.95 *	0.907	6.33 > 100.00 > 12.01	4.95 > 100.00 > 20.19	12.01 > 4.95 *	12.01 > 37.91 *	37.91 *
4289	14A	02/22/90	107	CEH	0.661	2.60 > 100.00 > 37.37	0.661	4.95 > 100.00 > 20.19	4.95 > 100.00 > 20.19	20.19 > 4.95 *	0.661	4.95 > 100.00 > 20.19	4.95 > 100.00 > 20.19	4.95 > 100.00 > 20.19	28.19 > 50.04 *	50.04 *
4289	14A	12/07/89	148	MT2	1.157	1.52 > 100.00 > 65.44	1.157	1.97 > 100.00 > 16.74	1.97 > 100.00 > 16.74	16.74 > 1.97 *	1.157	1.97 > 100.00 > 16.74	1.97 > 100.00 > 16.74	1.97 > 100.00 > 16.74	14.74 > 44.09 *	44.09 *
4289	14A	12/20/89	151	MT2	1.352	18.20 > 100.00 > 9.78	1.352	17.70 > 100.00 > 5.45	17.70 > 100.00 > 5.45	5.45 > 17.70 *	1.352	17.70 > 100.00 > 5.45	17.70 > 100.00 > 5.45	1.20 > 5.45 *	5.45 > 32.16 *	32.16 *
4293	14A	12/07/89	149	CEH	0.907	0.32 > 100.00 > 6.44	0.907	0.32 > 100.00 > 6.44	0.32 > 100.00 > 6.44	6.44 > 0.32 *	0.907	0.32 > 100.00 > 6.44	0.32 > 100.00 > 6.44	0.32 > 100.00 > 6.44	6.44 > 18.89 *	18.89 *
4293	14A	02/12/90	107	CEH	0.661	0.32 > 100.00 > 312.50	0.661	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	312.50 > 0.32 *	0.661	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	312.50 > 78.84 *	78.84 *
4293	14A	12/07/89	148	MT2	1.157	0.32 > 100.00 > 312.50	1.157	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	312.50 > 0.32 *	1.157	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	0.32 > 100.00 > 312.50	312.50 > 90.00 *	90.00 *
4293	14A	12/20/89	151	MT2	1.352	0.32 > 100.00 > 279.81	1.352	0.32 > 100.00 > 279.81	0.32 > 100.00 > 279.81	279.81 > 0.32 *	1.352	0.32 > 100.00 > 279.81	0.32 > 100.00 > 279.81	0.32 > 100.00 > 279.81	279.81 > 86.00 *	86.00 *
4295	14A	12/07/89	148	CEH	0.958	0.32 > 100.00 > 19.89	0.958	0.32 > 100.00 > 19.89	0.32 > 100.00 > 19.89	19.89 > 0.32 *	0.958	0.32 > 100.00 > 19.89	0.32 > 100.00 > 19.89	0.32 > 100.00 > 19.89	19.89 > 24.51 *	24.51 *
4295	14A	12/07/89	148	MT2	1.159	3.44 > 100.00 > 27.32	1.159	12.10 > 100.00 > 8.24	12.10 > 100.00 > 8.24	8.24 > 12.10 *	1.159	12.10 > 100.00 > 8.24	8.24 > 100.00 > 3.44	3.44 > 8.24 *	8.24 > 44.19 *	44.19 *
4295	14A	12/20/89	156	MT2	1.344	5.16 > 100.00 > 19.38	1.344	11.50 > 100.00 > 8.67	11.50 > 100.00 > 8.67	8.67 > 11.50 *	1.344	11.50 > 100.00 > 8.67	8.67 > 100.00 > 3.44	3.44 > 8.67 *	8.67 > 37.75 *	37.75 *
4455	43	04/12/90	107	CEH	1.186	0.49 > 100.00 > 203.04	1.186	17.50 > 100.00 > 5.71	17.50 > 100.00 > 5.71	5.71 > 17.50 *	1.186	17.50 > 100.00 > 5.71	5.71 > 100.00 > 0.00	0.00 > 5.71 *	5.71 > 34.94 *	34.94 *
4455	43	03/28/90	180	MT2	1.357	0.00 > 100.00 > 0.00	1.357	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 0.00 *	1.357	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 4.00 *	4.00 *
4455	72	09/06/90	264	MT2	1.183	0.00 > 100.00 > 0.00	1.183	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 0.00 *	1.183	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 3.00 *	3.00 *
4457	43	04/12/90	108	CEH	1.220	4.48 > 100.00 > 21.37	1.220	77.40 > 100.00 > 1.29	77.40 > 100.00 > 1.29	1.29 > 77.40 *	1.220	77.40 > 100.00 > 1.29	77.40 > 100.00 > 1.29	1.29 > 100.00 > 0.00	1.29 > 27.78 *	27.78 *
4457	43	03/28/90	180	MT2	1.304	0.00 > 100.00 > 0.00	1.304	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 0.00 *	1.304	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	1.29 > 27.78 *	27.78 *
4460	43	04/12/90	109	CEH	1.444	1.18 > 42.40 > 52.81	1.444	92.70 > 4.16	92.70 > 4.16	4.16 > 92.70 *	1.444	92.70 > 4.16	92.70 > 4.16	92.70 > 4.16	2.78 > 30.24 *	30.24 *
4460	43	03/28/90	180	MT2	1.300	0.00 > 55.30 > 0.00	1.300	0.00 > 78.40 > 0.00	0.00 > 78.40 > 0.00	0.00 > 0.00 *	1.300	0.00 > 55.30 > 0.00	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 1.70 *	1.70 *
4460	72	09/06/90	264	MT2	1.160	0.00 > 74.50 > 0.00	1.160	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 0.00 *	1.160	0.00 > 74.50 > 0.00	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	0.00 > 0.90 *	0.90 *
4464	43	04/28/90	164	CEH	0.600	0.32 > 51.50 > 161.04	0.600	71.10 > 222.13	71.10 > 222.13	222.13 > 71.10 *	0.600	71.10 > 222.13	71.10 > 222.13	71.10 > 222.13	161.04 > 85.47 *	85.47 *
4464	43	04/04/90	180	MT2	1.279	3.53 > 48.00 > 13.84	1.279	4.99 > 64.40 > 13.29	4.99 > 64.40 > 13.29	13.29 > 4.99 *	1.279	4.99 > 64.40 > 13.29	4.99 > 64.40 > 13.29	4.99 > 64.40 > 13.29	9.78 > 35.67 *	35.67 *
4477	44	07/19/90	149	CEH	0.751	0.32 > 4.00 > 18.75	0.751	0.00 > 38.40 > 0.00	0.00 > 38.40 > 0.00	0.00 > 0.00 *	0.751	0.00 > 38.40 > 0.00	0.00 > 95.50 > 0.00	0.00 > 95.50 > 0.00	0.00 > 9.01 *	9.01 *
4477	74	11/27/90	300	CEH	1.245	0.00 > 8.87 > 10.00	1.245	0.00 > 21.00 > 0.00	0.00 > 21.00 > 0.00	0.00 > 0.00 *	1.245	0.00 > 8.87 > 10.00	0.00 > 69.50 > 0.00	0.00 > 69.50 > 0.00	0.00 > 4.00 *	4.00 *
4477	46	07/03/90	180	MT2	1.095	4.57 > 7.47 > 1.44	1.095	0.27 > 14.30 > 1.72	0.27 > 14.30 > 1.72	1.72 > 0.27 *	1.095	4.57 > 7.47 > 1.44	0.27 > 14.30 > 1.72	0.27 > 14.30 > 1.72	0.00 > 3.52 *	3.52 *
4477	74	11/27/90	378	MT2	0.911	0.13 > 6.53 > 0.00	0.911	0.00 > 9.87 > 0.00	0.00 > 9.87 > 0.00	0.00 > 0.00 *	0.911	0.13 > 6.53 > 0.00	0.00 > 29.00 > 0.00	0.00 > 29.00 > 0.00	0.00 > 3.57 *	3.57 *
4482	44	08/16/90	236	CEH	0.717	0.00 > 49.00 > 0.00	0.717	0.00 > 46.00 > 0.00	0.00 > 46.00 > 0.00	0.00 > 0.00 *	0.717	0.00 > 49.00 > 0.00	0.00 > 96.48 > 0.00	0.00 > 96.48 > 0.00	0.00 > 1.60 *	1.60 *
4482	73	09/28/90	261	CEH	0.944	0.00 > 0.34 > 0.00	0.944	0.00 > 0.93 > 0.00	0.00 > 0.93 > 0.00	0.00 > 0.00 *	0.944	0.00 > 0.34 > 0.00	0.00 > 2.97 > 0.00	0.00 > 2.97 > 0.00	0.00 > 0.00 *	0.00 *
4482	44	07/11/90	164	MT2	1.154	12.40 > 49.00 > 3.88	1.154	17.80 > 44.00 > 3.71	17.80 > 44.00 > 3.71	3.71 > 17.80 *	1.154	12.40 > 49.00 > 3.88	0.00 > 96.40 > 0.00	0.00 > 96.40 > 0.00	2.72 > 16.59 *	16.59 *
4482	73	09/28/90	264	MT2	1.084	0.00 > 1.14 > 2.00	1.084	0.00 > 1.84 > 0.00	0.00 > 1.84 > 0.00	0.00 > 0.00 *	1.084	0.00 > 1.14 > 2.00	0.00 > 3.89 > 0.00	0.00 > 3.89 > 0.00	0.00 > 0.00 *	0.00 *
4510	14A	07/05/90	180	CEH	1.471	5.78 > 100.00 > 17.31	1.471	14.30 > 100.00 > 4.99	14.30 > 100.00 > 4.99	4.99 > 14.30 *	1.471	5.78 > 100.00 > 17.31	100.00 > 100.00 > 1.00	1.00 > 4.99 *	4.99 > 21.34 *	21.34 *
4510	14A	06/04/90	191	MT2	0.854	4.15 > 100.00 > 24.12	0.854	4.38 > 100.00 > 15.47	4.38 > 100.00 > 15.47	15.47 > 4.38 *	0.854	4.15 > 100.00 > 24.12	76.90 > 100.00 > 1.30	1.30 > 15.47 *	15.47 > 43.37 *	43.37 *
4510	14A	07/17/90	166	MT2	1.219	18.40 > 318.00 > 17.08	1.219	88.30 > 545.00 > 4.18	88.30 > 545.00 > 4.18	4.18 > 88.30 *	1.219	18.40 > 318.00 > 17.08	0.00 > 953.00 > 0.00	0.00 > 953.00 > 0.00	3.40 > 9.49 *	9.49 *
4510	72	09/06/90	284	MT2	1.160	65.50 > 100.00 > 2.20	1.160	89.70 > 100.00 > 1.11	89.70 > 100.00 > 1.11	1.11 > 89.70 *	1.160	65.50 > 100.00 > 2.20	0.00 > 100.00 > 0.00	0.00 > 100.00 > 0.00	1.11 > 8.44 *	8.44 *
4511	14A	07/05/90	188	CEH	1.164	1.60 > 100.00 > 62.54	1.164	2.55 > 100.00 > 39.14	2.55 > 100.00 > 39.14	39.14 > 2.55 *	1.164	1.60 > 100.00 > 62.54	8.41 > 100.00 > 11.62	11.62 > 39.14 *	39.14 > 57.01 *	57.01 *
4511	14A	06/04/90	191	MT2	0.834	0.92 > 100.00 > 108.81	0.834	1.73 > 100.00 > 57.93	1.73 > 100.00 > 57.93	57.93 > 1.73 *	0.834	0.92 > 100.00 > 108.81	7.89 > 100.00 > 52.48	52.48 > 57.93 *	57.93 > 67.34 *	67.34 *
4511	14A	07/17/90	188	MT2	1.217	1.61 > 307.00 > 190.59	1.217	3.32 > 566.00 > 181.21	3.32 > 566.00 > 181.21	181.21 > 3.32 *	1.217	1.61 > 307.00 > 190.59	14.70 > 1000.00 > 40.13	40.13 > 94.34 > 37.03 *	94.34 > 37.03 *	37.03 *
4511	72	09/04/90	281	MT2	1.160	6.22 >										

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C

AVS No.	SHIP No.	Test Date	Pile Cell	DIFF.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAIL
6777	73	09/24/90	1V5 CEM	0.639	3.87	100.00	25.04	32.78	100.00	3.06	89.48	100.00	1.12	3.06	24.53
6777	73	09/24/90	2S1 CEM	0.644	2.94	2.05	0.00	11.58	100.00	8.72	133.08	100.00	0.75	0.23	23.48
6777	73	09/24/90	208 HT2	1.195	58.00	100.00	1.72	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.78
6777	73	09/24/90	206 HT2	1.084	1.88	100.00	31.74	7.45	100.00	13.08	97.45	100.00	1.03	13.08	39.18
6777	73	10/28/90	200 HT2	0.877	358.00	100.00	2.81	690.00	100.00	3.45	0.00	100.00	0.00	1.45	18.48
6793	68	09/14/90	212 CEM	1.149	32.00	100.00	2.13	53.78	100.00	1.06	0.00	100.00	0.00	1.06	12.53
6793	68	09/02/90	183 HT2	1.272	48.18	100.00	2.08	0.00	100.00	0.00	0.00	100.00	0.00	0.00	13.19
6842	74	11/27/90	308 CEM	1.143	14.79	100.00	4.79	34.00	100.00	2.72	90.58	100.00	1.11	2.72	23.27
6842	74	09/15/90	218 HT2	1.318	24.00	100.00	4.02	45.78	100.00	2.19	0.00	100.00	0.00	2.19	18.05
6842	74	11/27/90	371 HT2	0.955	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	15.09
6843	74	11/27/90	308 CEM	1.143	1.49	100.00	59.14	3.75	100.00	26.43	9.23	100.00	18.83	26.43	55.21
6843	69	08/15/90	216 HT2	1.322	1.53	31.80	30.28	2.59	100.00	38.41	0.00	100.00	0.00	11.95	41.27
6845	74	11/27/90	308 CEM	1.197	4.58	71.38	14.27	9.18	100.00	18.89	28.58	100.00	3.54	7.98	30.17
6845	69	09/15/90	208 HT2	1.341	12.90	52.78	4.16	18.50	73.50	4.82	0.00	100.00	0.00	3.69	17.94
6845	74	11/27/90	371 HT2	0.887	3.20	100.00	31.25	14.58	100.00	7.81	29.50	100.00	3.39	7.81	41.81
6846	74	11/27/90	308 CEM	1.197	49.50	100.00	2.82	90.00	100.00	1.18	0.00	100.00	0.00	1.18	8.85
6846	69	08/15/90	208 HT2	1.275	39.60	100.00	2.53	54.10	100.00	1.85	95.10	100.00	1.85	1.85	13.32
6846	74	11/27/90	371 HT2	0.887	15.80	0.15	0.01	31.10	0.30	0.81	0.00	96.68	0.00	0.00	14.09
6847	74	11/27/90	308 CEM	1.236	0.78	100.00	127.77	3.21	180.00	31.11	46.90	100.00	2.45	31.11	57.10
6847	69	08/15/90	208 HT2	1.275	15.00	100.00	6.32	33.48	100.00	2.99	89.40	100.00	1.12	2.99	21.00
6847	74	11/27/90	371 HT2	0.887	1.00	100.00	180.00	12.30	101.00	0.11	29.18	100.00	3.44	0.11	52.59
7207	72	09/25/90	204 CEM	0.894	5.05	15.40	3.10	0.47	23.18	2.72	0.00	92.38	0.00	1.85	7.97
7207	75	12/04/90	308 CEM	0.580	0.32	7.08	22.07	1.65	12.90	7.86	0.00	69.16	0.00	4.29	27.15
7207	72	09/25/90	204 HT2	1.052	0.00	0.00	0.00	0.00	0.43	0.00	0.00	100.00	0.00	0.00	0.68
7207	75	12/04/90	305 HT2	0.718	1.40	24.18	17.28	2.14	55.48	25.91	0.00	100.00	0.00	11.29	28.94
7208	72	09/25/90	204 CEM	0.894	1.00	4.78	4.78	2.73	7.81	2.87	0.00	28.48	0.00	1.75	11.17
7208	75	12/04/90	308 CEM	0.580	0.32	0.20	0.43	0.47	9.74	20.54	1.79	36.54	17.89	0.42	37.11
7208	72	09/25/90	204 HT2	1.052	0.00	2.55	0.00	0.00	4.71	0.00	0.00	19.48	0.00	0.00	3.82
7208	75	12/04/90	305 HT2	0.718	0.48	12.28	38.66	0.58	19.08	32.51	2.17	31.28	14.36	28.87	50.25
7228	73	09/25/90	281 CEM	1.144	48.60	0.00	0.62	97.38	100.00	1.83	0.00	100.00	0.00	0.81	3.24
7228	73	09/25/90	202 HT2	1.801	60.78	100.00	1.65	0.00	100.00	0.00	0.00	100.00	0.00	0.00	11.29
7241	73	09/25/90	274 CEM	1.025	24.90	0.95	0.04	82.80	100.00	1.22	0.00	100.00	0.00	0.81	5.03
7241	75	11/20/90	343 CEM	0.864	17.68	490.00	28.13	54.40	640.00	11.47	0.00	944.00	3.88	6.44	24.67
7241	75	09/25/90	209 HT2	1.027	0.00	44.38	0.00	0.00	91.10	0.00	0.00	100.00	0.00	0.00	7.81
7295	73	09/26/90	264 CEM	0.632	0.32	54.10	107.44	2.56	100.00	59.00	0.00	100.00	0.00	21.89	42.98
7295	73	11/20/90	381 CEM	0.903	2.98	100.00	33.33	14.00	100.00	7.13	0.00	100.00	0.00	7.13	33.59
7295	75	12/04/90	308 CEM	0.578	0.00	40.20	0.00	0.00	60.70	0.00	0.00	97.58	0.00	0.00	0.00
7295	73	01/04/91	308 CEM	1.235	3.97	100.00	25.20	4.79	100.00	14.73	0.00	100.00	0.00	14.73	50.32
7295	73	09/26/90	281 HT2	0.826	4.17	48.60	11.65	11.00	84.40	7.84	0.00	100.00	0.00	4.41	23.01
7295	75	10/28/90	308 HT2	0.818	1.26	100.00	79.28	4.44	100.00	22.54	42.60	100.00	2.35	22.54	51.71
7295	75	12/04/90	304 HT2	0.643	0.00	60.00	0.00	0.00	89.60	0.00	0.00	100.00	0.00	0.00	0.12
7296	73	09/26/90	264 CEM	0.632	34.30	100.00	2.92	60.60	100.00	1.05	0.00	100.00	0.00	1.65	21.16
7296	73	09/26/90	281 HT2	0.028	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.60
7547	20A	10/02/90	245 CEM	0.449	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.52
7547	20A	10/02/90	214 HT2	0.712	3.59	100.00	27.88	46.80	100.00	2.16	0.00	100.00	0.00	2.16	51.58

AVS No.	Ship Name	Port Date	Pit #	Call	Eff.	A										C		
						IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAI T		
7544	20A	10/02/90	20A	CEM	0.708	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	1.76
7545	20A	10/02/90	20A	M12	0.716	0.92	100.00	108.48	62.90	100.00	1.59	0.00	100.00	0.00	0.00	1.59	24.54	
7546	20A	11/20/90	349	M12	0.819	3.26	767.00	239.00	0.00	1300.00	0.00	0.00	1000.00	0.00	0.00	0.00	19.62	
7549	20A	10/02/90	20A	CEM	0.708	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	2.45	
7549	20A	10/02/90	20A	M12	0.714	11.46	100.00	0.65	54.60	100.00	1.77	0.00	100.00	0.00	0.00	1.77	18.28	
7549	20A	11/20/90	34A	M12	0.921	3.20	556.00	173.78	0.00	792.00	0.00	0.00	1000.00	0.00	0.00	0.00	20.40	
7578	20A	10/02/90	20A	CEM	0.654	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.44	
7578	20A	10/02/90	20A	M12	0.643	3.15	100.00	31.73	31.70	100.00	3.15	0.00	100.00	0.00	0.00	3.15	24.00	
7581	20A	10/02/90	20A	CEM	0.730	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.03	
7581	20A	10/02/90	20A	M12	0.727	25.40	100.00	3.94	100.00	100.00	1.00	0.00	100.00	0.00	0.00	1.00	17.90	
7589	20A	10/02/90	20A	CEM	0.595	0.00	40.50	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.96	
7589	20A	10/02/90	20A	M12	0.491	0.32	100.00	312.50	9.18	100.00	10.89	0.00	100.00	0.00	0.00	10.89	40.48	
7589	20A	11/20/90	348	M12	0.938	3.00	215.00	0.00	0.00	350.00	0.00	0.00	1000.00	0.00	0.00	0.00	10.32	
7590	20A	10/02/90	20A	CEM	0.640	20.30	100.00	4.75	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	10.74	
7590	20A	10/02/90	20A	M12	0.619	0.90	100.00	111.44	29.20	100.00	3.43	0.00	100.00	0.00	0.00	3.43	31.31	
7590	20A	11/20/90	34C	M12	0.834	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	9.10	
7592	20A	10/02/90	20A	CEM	0.635	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.96	
7592	20A	10/02/90	20A	M12	0.617	0.96	100.00	103.81	6.99	100.00	14.31	0.00	100.00	0.00	0.00	14.31	44.28	
7592	20A	11/20/90	34C	M12	0.834	0.00	538.00	0.00	0.00	754.00	0.00	0.00	1000.00	0.00	0.00	0.00	5.43	
7593	20A	10/02/90	20A	CEM	0.635	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.22	
7593	20A	10/02/90	20A	M12	0.617	0.33	100.00	312.50	15.50	100.00	4.43	0.00	100.00	0.00	0.00	4.43	44.00	
7593	20A	11/20/90	340	M12	0.803	0.32	0.32	1.00	0.32	0.32	1.00	0.32	1.00	0.32	1.00	0.32	0.00	
7601	20A	10/02/90	20A	CEM	0.658	0.00	45.50	0.00	0.00	82.30	0.00	0.00	100.00	0.00	0.00	0.00	6.54	
7601	20A	10/02/90	20A	M12	0.706	0.37	100.00	176.78	18.30	100.00	5.44	0.00	100.00	0.00	0.00	5.44	37.15	
7604	20A	10/03/90	217	CEM	0.518	0.00	32.00	0.00	0.00	82.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
7604	20A	10/23/90	205	M12	0.954	16.80	50.70	3.02	26.30	69.40	2.46	0.00	100.00	0.00	0.00	1.79	7.79	
7605	20A	10/03/90	21K	CEM	0.400	0.00	54.10	0.00	0.00	96.40	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
7605	20A	10/23/90	20A	M12	1.004	3.03	100.00	313.03	24.30	100.00	4.11	0.00	100.00	0.00	0.00	4.11	29.00	
7605	20A	11/20/90	34J	M12	0.865	0.00	2.04	0.00	0.00	702.00	0.00	0.00	1000.00	0.00	0.00	0.00	1.04	
7620	20A	10/03/90	218	CEM	0.513	4.04	2.83	0.70	26.20	100.00	3.82	0.00	100.00	0.00	0.00	0.11	15.90	
7620	20A	10/23/90	200	M12	0.923	40.30	100.00	1.44	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	4.92	
7643	20A	10/04/90	20E	M12	0.607	0.54	100.00	184.17	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	33.31	
7643	20A	11/20/90	360	M12	0.803	3.20	3.20	1.00	3.20	3.20	1.00	3.20	3.20	1.00	1.00	3.20	0.00	
7676	20A	10/05/90	20P	CEM	0.714	0.00	4.20	0.00	0.00	6.27	0.00	0.00	10.00	0.00	0.00	0.00	0.00	
7676	20A	10/23/90	218	M12	0.918	4.13	15.40	3.78	7.39	21.20	2.87	0.00	10.00	0.00	0.00	2.11	9.70	
7680	20A	10/05/90	20R	CEM	0.712	0.00	14.20	0.00	0.00	20.40	0.00	0.00	31.50	0.00	0.00	0.00	2.44	
7680	20A	10/23/90	21P	M12	0.941	2.34	15.90	4.78	4.82	21.70	4.50	0.00	65.40	0.00	0.00	3.29	18.73	
7681	20A	10/05/90	20S	CEM	0.705	0.00	25.50	0.00	0.00	70.90	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
7681	20A	10/23/90	210	M12	0.980	10.60	100.00	9.41	37.10	100.00	2.70	95.90	100.00	1.04	2.70	24.04	0.00	
7693	20A	10/05/90	20Y	CEM	0.660	0.00	32.00	0.00	0.00	54.70	0.00	0.00	95.50	0.00	0.00	0.00	3.47	
7693	20A	10/23/90	211	M12	0.960	7.32	40.10	6.31	16.00	44.90	3.87	0.00	96.50	0.00	0.00	2.83	21.00	

AVS No.	Ship name	Test Date	Pit #	Cell	Diff.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	EI	A		
																TAI B	TAI C	
7816	20A	10/31/90	276	CEH	1.142	0.00	17.44	0.00	0.00	24.90	0.00	0.00	0.00	0.00	0.00	0.00	3.32	
7816	20A	10/11/90	201	HTZ	0.692	0.32	44.98	144.58	0.32	70.25	219.35	0.00	0.00	0.00	0.00	0.00	146.58	
7817	20A	10/31/90	276	CEH	1.142	0.00	49.08	0.00	0.00	44.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	
7817	20A	10/11/90	201	HTZ	0.692	0.45	108.00	221.24	5.16	100.00	19.38	27.50	100.00	3.43	19.38	54.17	0.02	
7817	20A	10/30/90	284	HTZ	1.187	0.00	15.70	0.00	0.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
7828	20A	10/31/90	276	CEH	0.928	0.00	44.48	0.00	0.00	64.40	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
7828	20A	10/12/90	298	HTZ	0.873	4.20	13.00	7.84	7.81	54.90	7.29	0.00	100.00	0.00	4.22	10.24	0.00	
7828	20A	10/31/90	276	CEH	1.057	0.00	4.67	0.00	0.00	10.48	0.00	0.00	29.00	0.00	0.00	0.00	0.00	
7828	20A	10/12/90	298	HTZ	1.017	0.32	7.31	23.44	0.32	16.30	37.97	0.00	77.30	0.00	17.50	29.40	0.00	
7828	20A	10/30/90	284	HTZ	1.234	0.00	14.10	0.00	0.00	25.40	0.00	0.00	90.40	0.00	0.00	0.00	0.24	
7825	20A	10/31/90	276	CEH	1.057	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	3.34	
7825	20A	10/12/90	298	HTZ	1.017	1.25	100.00	77.22	78.60	100.00	1.27	0.00	100.00	0.00	0.00	1.27	0.71	
7839	20A	10/31/90	276	CEH	1.135	2.10	100.00	47.73	9.58	100.00	19.44	0.00	100.00	0.00	10.44	34.08	0.00	
7839	20A	11/14/90	344	CEH	0.713	3.20	605.00	104.95	3.20	1000.00	312.50	0.00	1000.00	0.00	100.00	45.08	0.00	
7839	20A	10/12/90	298	HTZ	1.074	0.32	48.48	214.42	0.32	100.00	312.50	0.00	100.00	0.00	214.42	42.28	0.00	
7839	20A	10/30/90	284	HTZ	1.182	1.27	100.00	78.90	2.17	100.00	48.05	9.60	100.00	10.82	48.05	43.36	0.00	
7844	20A	11/01/90	272	CEH	1.077	0.00	15.70	0.00	0.00	21.50	0.00	0.00	31.00	0.00	0.00	0.00	3.02	
7844	20A	10/12/90	298	HTZ	0.928	13.50	49.50	3.48	19.60	67.10	3.43	0.00	98.48	0.00	2.53	15.81	0.00	
7844	20A	11/20/90	306	HTZ	0.843	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	14.40	
7848	20A	11/01/90	301	CEH	1.137	0.00	29.70	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.40	
7848	20A	10/12/90	298	HTZ	0.917	17.30	100.00	5.78	50.00	100.00	3.34	0.00	100.00	0.00	3.34	19.04	0.00	
7848	20A	11/20/90	306	HTZ	0.905	0.00	20.00	0.00	0.00	31.40	0.00	0.00	780.00	0.00	0.00	0.00	1.33	
7868	20A	10/18/90	261	HTZ	0.598	2.11	100.00	47.44	17.00	100.00	5.00	49.10	100.00	2.04	5.00	38.78	0.00	
7868	20A	10/25/90	269	HTZ	0.817	54.40	490.00	0.44	140.00	660.00	4.72	0.00	964.00	0.00	3.50	22.08	0.00	
7890	20A	10/18/90	262	HTZ	0.835	1.31	100.00	74.24	4.74	100.00	20.99	48.40	100.00	2.04	20.99	52.44	0.00	
7890	20A	10/26/90	269	HTZ	0.877	14.00	531.00	37.78	23.00	790.00	33.75	206.00	1000.00	3.50	23.45	34.59	0.00	
7891	19A	09/04/90	280	CEH	0.818	0.00	5.30	4777.2	0.02	10.00	457.93	0.00	10.00	0.00	344.99	35.10	0.00	
7891	19A	09/05/90	297	CEH	1.151	0.00	2.44	20430	0.00	5.11	19043	0.00	9.51	175.75	0.00	48.02	0.00	
7891	19A	09/11/90	219	CEH	0.927	0.02	5.42	312.49	0.05	19.40	343.81	0.00	92.00	0.00	109.72	31.05	0.00	
7891	19A	09/04/90	295	HTZ	1.392	0.02	10.00	449.04	0.05	10.00	213.19	0.44	10.00	15.57	213.19	45.70	0.00	
7891	19A	09/05/90	299	HTZ	1.143	0.00	3.25	0.00	0.00	5.50	0.00	0.00	9.55	0.00	0.00	0.00	0.00	
7891	19A	09/05/90	291	HTZ	1.316	0.00	3.25	1478.4	0.01	5.50	552.00	0.00	9.55	120.23	325.00	47.90	0.00	
7905	74	11/21/90	306	CEH	1.194	22.50	100.00	4.45	78.10	100.00	1.28	0.00	100.00	0.00	1.28	15.87	0.00	
7905	74	11/27/90	301	HTZ	0.427	0.00	0.20	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
7930	74	11/29/90	303	CEH	1.040	11.50	100.00	0.72	16.10	100.00	4.19	29.90	100.00	3.35	4.19	34.38	0.00	
7930	74	01/04/91	304	CEH	1.397	12.00	1000.0	83.42	36.50	1000.00	27.40	258.00	1000.00	3.88	27.40	54.53	0.00	
7930	74	11/29/90	302	HTZ	1.065	2.39	0.20	0.09	0.00	0.81	0.00	0.00	100.00	0.00	0.00	1.90	0.00	
7942	74	11/29/90	300	CEH	1.148	0.32	49.00	153.13	24.00	64.00	2.44	0.00	94.40	0.00	1.97	11.73	0.00	
7942	74	01/04/91	301	HTZ	1.447	0.34	24.10	3.81	0.00	51.40	0.00	0.00	95.10	0.00	0.00	2.51	0.00	
7945	74	11/29/90	308	CEH	1.258	28.40	45.40	1.73	48.40	100.00	1.44	0.00	100.00	0.00	0.00	0.00	3.06	0.00
7945	74	01/04/91	301	HTZ	1.447	0.00	427.00	0.00	0.00	618.00	0.00	0.00	942.00	0.00	0.00	0.00	3.30	0.00
7947	74	11/29/90	304	CEH	0.993	24.40	95.00	3.84	70.40	100.00	1.42	0.00	100.00	0.00	1.55	11.09	0.00	
7947	74	01/04/91	306	CEH	1.304	3.20	495.00	217.24	65.00	1000.00	15.38	0.00	1000.00	0.00	10.69	28.25	0.00	

AUS No.	Ship Name	Time Date	PLC # Call	DIFF.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	A		C	
															TAT V	TAT V		
7952	76	11/20/90	300 CEN	1.179	32.00 >	100.00 >	3.13	49.00 >	100.00 >	2.00	0.00 >	100.00	0.00 >	2.00 >	21.05 >			
7952	76	01/04/91	300 CEN	1.366	121.00	305.00	3.17	0.00	619.00	0.00	0.00 >	1000.00	0.00	0.00 >	3.94 >			
7994	76	01/04/91	300 CEN	1.376	7.00	14.00	2.20	07.10	27.49	0.31	0.00 >	100.00	0.00	0.10 >	10.35 >			
7994	76	02/20/91	400 CEN	0.716	3.94	0.00	0.02	5.09	0.16	0.03	53.10	0.30	0.01	0.01 >	42.01 >			
7968	76	11/30/90	340 CEN	1.231	1.75	44.50	25.30	4.01	64.00	13.32	0.00	99.20	0.00	9.20 >	24.75 >			
7968	76	01/04/91	300 CEN	1.576	1.11	13.60	12.35	3.70	20.10	5.31	0.00	31.70	0.00	3.60 >	21.01 >			
7961	76	11/30/90	340 CEN	1.231	2.34	64.70	19.00	17.00	64.40	3.00	0.00	100.00	0.00	2.03 >	23.63 >			
7961	76	01/04/91	300 CEN	1.397	3.62	20.40	5.62	0.73	40.40	0.00	0.00	94.00	0.00	3.03 >	13.69 >			
7962	76	11/30/90	340 CEN	1.211	1.32	17.00	13.50	1.70	29.30	14.45	3.05	92.30	0.00	10.01 >	31.62 >			
7962	76	01/04/91	300 CEN	1.397	0.32	10.00 >	33.09	4.61	17.90	3.00	0.00	30.60	0.00	2.35 >	13.54 >			
7962	76	11/30/90	340 RTZ	0.953	1.00	0.56	0.54	3.98	2.36	0.60	24.80	0.00	3.57	0.14 >	17.29 >			
7963	76	11/30/90	340 CEN	1.211	2.07	39.10	10.40	4.01	61.10	12.72	0.00	100.00	0.00	0.13	29.21 >			
7963	76	01/04/91	300 CEN	1.277	1.99	12.70	6.39	6.14	21.20	5.65	0.00	81.90	0.00	2.07	12.29 >			
7963	76	11/30/90	340 RTZ	0.953	4.68	0.15	0.03	20.10	0.31	0.02	0.00	100.00	0.00	0.01	1.61 >			
7975	76	11/16/90	350 CEN	0.650	1.30	0.10	0.00	1.00	0.21	0.11	0.00	100.00	0.00	0.04	31.00 >			
7975	76	01/04/91	300 CEN	1.277	0.32	1.82	5.05 <	0.32	2.29 >	7.15	0.32	10.00	0.00	3.05 >	22.00 >			
7975	76	11/16/90	350 RTZ	0.760	0.00 <	0.62	0.00	0.00 <	0.32	0.00	0.00 <	0.32	0.00	0.00	0.00 >			
7976	76	11/16/90	350 CEN	0.650	0.32	100.00 >	312.50 <	0.32	100.00 >	312.50	0.00	100.00	0.00	0.00	0.00 >			
7976	76	11/16/90	350 RTZ	0.760	0.32	100.00 >	312.50 <	0.32	100.00 >	312.50	0.00	100.00	0.00	0.00	0.00 >			
7975	76	11/16/90	350 CEN	0.724	0.32	100.00 >	312.50 <	0.32	100.00 >	312.50	0.00	100.00	0.00	0.00	0.00 >			
7975	76	11/16/90	350 RTZ	0.750	0.32	100.00 >	312.50 <	0.32	100.00 >	312.50	0.00	100.00	0.00	0.00	0.00 >			
7977	76	11/16/90	350 CEN	0.805	0.32	1.00 >	3.13 <	0.32	100.00 >	312.50	0.00	100.00	0.00	0.00	0.00 >			
7977	76	11/16/90	350 RTZ	0.794	40.50	100.00 >	2.47	93.50	100.00 >	1.07	0.00	100.00	0.00	1.07 >	2.38 >			
7978	76	11/16/90	350 CEN	0.601	122.00	100.00 >	0.82	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00 >			
7978	76	11/16/90	350 RTZ	0.794	0.32	1.59 >	4.95 <	0.32	2.17 >	6.78 <	0.32	4.33 >	13.54 >	4.95 >	26.66 >			
7960	76	01/04/91	300 CEN	1.477	1.10	12.20	10.33	2.36	20.10	0.90	0.00	71.70	0.00	5.17	33.68 >			
7960	76	11/16/90	350 RTZ	0.721	0.00	0.41	0.00	0.00	1.00	0.00	0.00	2.90	0.00	0.00	0.00 >			
7901	76	11/16/90	350 CEN	0.630	0.32	23.40	73.17 <	0.32	99.00	104.95 <	0.32	100.00	0.00	0.00	0.00 >			
7901	76	11/16/90	350 RTZ	0.716	0.32	4.59	14.35 <	0.32	0.64	20.75 <	0.32	19.00	0.00	1.07 >	40.76 >			
7963	76	11/16/90	350 CEN	0.577	0.93	100.00 >	107.09	3.74	100.00	24.71	9.04	100.00	0.00	11.01	26.71 >			
7963	76	11/16/90	350 RTZ	0.678	0.32	49.20	153.66	1.24	66.30	53.34	8.57	97.30	11.34	39.34	56.17 >			
7964	76	11/16/90	350 CEN	0.577	13.50	100.00 >	7.36	62.20	100.00	2.37	0.00	100.00	0.00	2.37 >	21.08 >			
7964	76	11/16/90	350 RTZ	0.670	0.00	55.00	0.00	0.00	77.90	0.00	0.00	100.00	0.00	0.00	1.00 >			
7907	76	11/16/90	351 CEN	0.675	8.56	100.00 >	11.64	20.40	100.00	4.91	0.00	100.00	0.00	4.91 >	17.55 >			
7907	76	11/16/90	350 RTZ	0.690	16.90	47.40	5.19	27.60	64.90	2.55	0.00	94.50	0.00	1.72	6.41 >			
7908	76	11/16/90	351 CEN	0.675	6.39	100.00 >	15.61	13.60	100.00	7.55	0.00	100.00	0.00	7.55 >	28.90 >			
7908	76	11/16/90	350 RTZ	0.690	17.30	49.00	2.83	0.00	64.00	0.00	0.00	94.60	0.00	0.00	4.95 >			

WSP No.	Ship Name	Test Date	PLT #	Call	Blff.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	81	TAL T
7909 W	11/16/90 350 CEM	0.722	1.37	71.79	52.19	4.41	100.00	22.48	4.41	100.00	22.48	25.40	100.00	3.08	14.26	41.04
7909 P	11/16/90 350 RT2	0.743	4.35	39.34	9.83	11.30	59.50	5.25	11.30	59.50	5.25	28.40	94.00	3.33	3.47	16.83
8041 22A	11/06/90 253 CEM	1.019	6.04	24.48	3.57	73.48	100.00	1.34	6.41	100.00	1.34	0.00	100.00	0.00	0.33	6.04
8041 22A	11/06/90 254 CEM	0.817	4.53	100.00	22.09	8.41	100.00	11.89	8.41	100.00	11.89	78.00	100.00	3.58	11.09	42.14
8041 22A	11/06/90 261 RT2	1.203	3.95	15.48	3.94	5.38	21.18	3.92	5.38	21.18	3.92	9.40	31.10	3.31	2.89	14.24
8041 22A	11/20/90 347 RT2	0.849	0.34	17.18	53.29	4.22	24.18	5.71	4.22	24.18	5.71	9.17	100.00	10.00	4.04	32.28
8137 22A	11/08/90 311 CEM	1.394	0.00	49.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.02
8137 22A	11/08/90 308 RT2	1.158	12.90	100.00	7.75	32.00	100.00	3.13	32.00	100.00	3.13	0.00	100.00	0.00	3.13	21.48
8137 22A	11/20/90 348 RT2	0.845	3.20	157.00	48.97	20.70	213.00	10.32	20.70	213.00	10.32	67.90	315.00	3.59	7.57	34.65
8141 22A	11/08/90 316 CEM	1.392	42.78	100.00	1.40	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	4.92
8141 22A	11/08/90 302 RT2	1.137	37.40	100.00	2.67	32.00	100.00	1.92	32.00	100.00	1.92	93.70	100.00	1.07	1.92	12.72
8141 22A	11/20/90 348 RT2	0.845	3.20	490.00	153.13	118.00	460.00	5.42	118.00	460.00	5.42	0.00	964.00	0.00	4.17	35.91
8145 22A	11/09/90 334 CEM	1.114	2.90	29.34	18.07	5.59	70.00	12.51	5.59	70.00	12.51	0.00	100.00	0.00	5.23	23.24
8145 22A	11/20/90 340 CEM	0.984	0.00	53.00	0.00	0.00	77.30	0.00	0.00	77.30	0.00	0.00	292.00	0.00	0.00	0.04
8145 22A	11/09/90 320 RT2	1.255	0.00	55.00	0.00	0.00	77.90	0.00	0.00	77.90	0.00	0.00	100.00	0.00	0.00	0.50
8186 22A	11/13/90 344 CEM	0.839	2.30	100.00	43.37	41.78	100.00	2.48	41.78	100.00	2.48	0.00	100.00	0.00	2.40	31.78
8186 22A	11/13/90 344 RT2	1.197	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00
8202 75	12/06/90 307 CEM	0.657	1.18	0.18	0.15	2.17	100.00	44.05	2.17	100.00	44.05	0.00	100.00	0.00	0.00	34.22
8202 75	12/06/90 309 RT2	0.842	0.63	14.90	23.55	1.44	24.40	16.97	1.44	24.40	16.97	0.00	88.70	0.00	18.34	31.41
8205 75	12/06/90 307 CEM	0.544	16.10	65.20	4.95	25.90	100.00	3.85	25.90	100.00	3.85	0.00	100.00	0.00	2.51	10.97
8205 75	12/06/90 308 RT2	0.644	0.00	39.48	0.00	0.00	70.30	0.00	0.00	70.30	0.00	0.00	100.00	0.00	0.00	0.00
8209 75	12/06/90 304 CEM	0.546	10.20	49.00	4.83	17.90	44.00	4.43	17.90	44.00	4.43	29.40	94.60	3.26	3.29	24.40
8209 75	12/06/90 306 RT2	0.427	4.47	31.00	11.37	7.33	71.50	9.15	7.33	71.50	9.15	27.40	100.00	3.43	6.62	29.31
8225 75	12/06/90 303 CEM	0.523	0.32	31.28	97.34	0.44	54.10	123.09	0.44	54.10	123.09	0.00	95.48	0.00	70.94	50.86
8225 75	12/06/90 304 RT2	0.525	0.71	5.78	0.10	1.34	8.35	6.22	1.34	8.35	6.22	2.93	36.60	18.42	4.50	21.50
8226 75	12/06/90 305 CEM	0.523	0.82	0.15	0.19	5.79	0.30	0.05	5.79	0.30	0.05	0.00	95.48	0.00	0.03	22.28
8226 75	12/06/90 306 RT2	0.525	0.00	25.70	0.00	0.00	48.70	0.00	0.00	48.70	0.00	0.00	98.98	0.00	0.00	0.00
8233 75	12/11/90 304 CEM	1.253	15.00	25.10	1.44	0.00	48.90	0.00	0.00	48.90	0.00	0.00	100.00	0.00	0.00	5.21
8233 75	12/11/90 304 RT2	0.853	2.30	64.00	28.76	4.91	100.00	29.38	4.91	100.00	29.38	0.00	100.00	0.00	13.43	34.04
8234 75	12/11/90 307 CEM	1.253	0.32	4.48	29.43	0.32	14.50	50.09	0.32	14.50	50.09	0.32	91.58	285.94	29.43	44.31
8234 75	12/11/90 307 RT2	0.853	0.32	1.48	5.24	0.32	9.60	50.00	0.32	9.60	50.00	0.32	100.00	312.50	5.24	26.27
8235 75	12/11/90 308 CEM	1.155	0.93	35.00	38.49	4.15	67.90	16.37	4.15	67.90	16.37	61.70	100.00	1.42	0.64	39.94
8235 75	12/11/90 308 RT2	1.039	2.74	45.30	23.82	4.58	100.00	21.82	4.58	100.00	21.82	9.25	100.00	16.81	14.25	44.44
8236 75	12/11/90 309 CEM	1.155	0.32	0.26	0.81	0.42	64.20	153.12	0.42	64.20	153.12	1.00	98.48	96.42	0.42	72.27
8236 75	12/11/90 309 RT2	1.039	0.35	13.90	39.32	0.50	19.90	39.89	0.50	19.90	39.89	0.93	30.60	33.01	27.78	54.01
8237 75	12/11/90 307 CEM	1.324	3.82	9.48	2.48	5.53	64.50	11.65	5.53	64.50	11.65	0.00	100.00	0.00	1.71	24.40
8237 75	12/11/90 307 RT2	0.973	0.70	50.90	72.48	1.40	69.80	49.75	1.40	69.80	49.75	5.96	100.00	14.79	34.28	58.83
8240 75	12/11/90 302 CEM	1.313	7.59	29.30	3.86	17.10	54.40	3.19	17.10	54.40	3.19	0.00	96.30	0.00	1.71	8.14
8240 75	12/11/90 302 RT2	1.042	5.05	18.70	3.71	0.00	27.50	0.00	0.00	27.50	0.00	0.00	100.00	0.00	0.00	9.38

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AVG	Ship	Test	PIC	Bliff.	IC 25	TC 25	AI 25	IC 30	TC 30	AI 30	IC 95	TC 95	AI 95	BI	TAL T
8246	76	12/20/90	310 CEM	1.391	0.00	7.92	0.08	0.00	33.30	0.00	0.00	93.30	0.00	0.00	0.16
8246	76	01/17/91	341 CEM	0.414	0.92	49.50	5.55	27.10	47.10	2.47	0.00	98.40	0.00	1.83	12.04
8246	76	01/17/91	343 RT2	1.182	0.00	15.20	0.00	0.00	21.10	0.00	0.00	31.00	0.00	0.00	0.00
8247	76	12/20/90	319 CEM	1.529	141.00	3.20	0.02	0.00	643.00	0.00	0.00	1000.00	0.00	0.00	0.02
8247	76	01/17/91	349 CEM	0.618	0.37	100.00	176.78	100.00	100.00	1.00	0.00	100.00	0.00	1.00	13.51
8247	76	01/17/91	346 RT2	1.093	89.79	54.76	0.61	0.00	100.00	0.00	3.00	100.00	0.00	0.00	0.00
8253	76	12/20/90	311 CEM	1.397	0.00	04.00	0.00	0.00	424.00	0.00	0.00	942.00	0.00	0.00	0.00
8253	76	01/17/91	340 CEM	0.578	0.32	100.00	312.54	0.00	100.00	17.48	0.00	100.00	0.00	17.48	34.79
8253	76	01/17/91	348 RT2	1.057	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.18
8254	76	12/20/90	317 CEM	1.397	102.00	434.00	6.23	139.00	1000.00	6.20	0.00	1000.00	0.00	3.90	21.04
8254	76	01/17/91	348 CEM	0.578	0.32	100.00	312.50	12.70	100.00	7.06	49.10	100.00	2.04	7.83	47.07
8254	76	01/17/91	348 RT2	1.057	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.49
8257	76	12/20/90	310 CEM	1.045	3.20	648.00	271.37	15.70	1000.00	43.75	83.20	1000.00	12.02	55.36	68.17
8257	76	01/17/91	340 CEM	0.542	14.00	0.13	0.01	25.50	0.25	0.01	04.10	100.00	1.16	0.00	15.04
8257	76	01/17/91	349 RT2	1.076	15.40	100.00	6.42	31.10	100.00	3.21	89.00	100.00	1.12	3.21	20.82
8258	76	12/20/90	310 CEM	1.045	25.90	1000.0	38.43	119.00	1000.00	0.42	1845.0	1000.00	0.34	0.42	35.27
8258	76	01/17/91	340 CEM	0.542	44.60	100.00	2.13	67.70	100.00	1.48	0.00	100.00	0.00	1.48	3.74
8258	76	01/17/91	349 RT2	1.076	43.70	100.00	2.29	83.40	100.00	1.20	0.00	100.00	0.00	1.20	8.44
8259	76	12/20/90	319 CEM	1.167	3.75	1000.0	264.76	8.27	1000.00	120.91	28.00	1000.00	35.67	120.91	73.07
8259	76	01/17/91	340 CEM	0.542	11.40	100.00	0.42	16.30	100.00	6.15	29.50	100.00	3.34	6.15	32.76
8259	76	01/17/91	344 RT2	1.009	11.30	100.00	0.83	16.00	100.00	6.25	29.90	100.00	3.35	6.25	34.17
8260	76	12/20/90	319 CEM	1.167	3.20	1000.0	312.50	11.40	1000.00	87.06	54.40	1000.00	17.48	87.06	75.77
8260	76	01/17/91	340 CEM	0.562	11.20	100.00	0.94	15.90	100.00	6.30	29.00	100.00	3.35	6.30	29.51
8260	76	01/17/91	344 RT2	1.009	5.98	100.00	16.73	12.30	100.00	8.11	29.10	100.00	3.44	8.11	37.28
8261	76	12/20/90	319 CEM	1.160	3.41	197.00	33.13	5.95	283.00	47.45	25.10	1000.00	39.82	32.23	55.11
8261	76	01/17/91	340 CEM	0.717	11.40	100.00	0.42	16.30	100.00	6.15	29.90	100.00	3.34	6.15	31.32
8261	76	01/17/91	344 RT2	1.004	10.00	100.00	10.00	14.70	100.00	6.79	29.60	100.00	3.36	6.79	31.10
8262	76	12/20/90	319 CEM	1.160	38.00	149.00	4.44	90.20	409.00	4.53	0.00	1000.00	0.00	1.87	15.13
8262	76	01/17/91	340 CEM	0.717	44.80	100.00	2.14	88.10	100.00	1.13	0.00	100.00	0.00	1.13	4.63
8262	76	01/17/91	348 RT2	1.004	0.00	99.10	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00
8272	76	01/18/91	346 CEM	1.152	24.40	0.00	0.03	50.30	100.00	1.99	0.00	100.00	0.00	0.02	10.90
8272	76	01/18/91	346 RT2	1.448	12.48	100.00	8.07	19.40	100.00	5.16	77.20	100.00	1.34	5.16	24.31
8308	23A	11/07/90	218 CEM	1.342	6.04	10.00	1.65	12.10	100.00	8.24	0.00	100.00	0.00	0.02	14.10
8308	23A	11/07/90	218 CEM	1.342	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.00
8308	23A	10/24/90	219 RT2	0.799	0.32	47.00	91.29	1.48	67.40	40.30	30.40	100.00	0.00	28.51	44.65
8308	23A	10/26/90	219 RT2	0.799	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.15
8311	76	01/18/91	347 CEM	1.216	23.90	100.00	4.18	50.70	100.00	1.97	0.00	100.00	0.00	1.97	8.72
8311	76	01/18/91	342 RT2	1.547	0.00	37.40	0.00	0.00	60.10	0.00	0.00	100.00	0.00	0.00	0.59
8326	76	01/18/91	348 CEM	1.125	10.90	83.50	7.44	33.20	100.00	3.02	0.00	100.00	0.00	2.52	23.39
8326	76	01/18/91	346 RT2	1.194	11.30	100.00	0.81	21.40	100.00	6.48	84.40	100.00	1.18	4.48	26.65
8334	76	02/21/91	402 CEM	0.631	1.47	7.45	5.04	28.50	51.60	17.83	0.00	100.00	0.00	0.26	10.43
8334	76	02/21/91	402 RT2	1.252	1.54	100.00	84.87	5.61	100.00	1.74	57.30	100.00	1.74	17.83	45.67

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AVS No.	Ship name	Test Date	Cell	Diff.	IC 75	TC 75	AI 75	IC 50	TC 50	AI 50	IC 75	TC 75	AI 75	IC 50	TC 50	AI 50	BI	TAI V
8335	76	02/21/91	400 CEM	0.851	63.80	93.80	2.14	71.60	100.00	1.40	0.00	100.00	0.00	100.00	100.00	0.00	1.31	3.55 *
8335	76	02/21/91	402 M12	1.252	4.20	1.00	0.24	6.43	100.00	15.54	25.10	100.00	3.00	100.00	100.00	0.00	0.16	37.82 *
8336	76	02/21/91	408 CEM	0.877	0.00	33.90	0.00	0.00	57.50	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.79 -
8336	76	02/21/91	403 M12	1.330	17.40	100.00	5.73	45.20	100.00	2.21	6.00	100.00	0.00	100.00	100.00	0.00	2.21	14.26 *
8339	76	02/21/91	401 CEM	0.709	94.50	100.00	1.06	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.15 -
8339	76	02/21/91	404 M12	1.193	32.00	100.00	3.13	44.80	100.00	2.14	92.70	100.00	1.00	100.00	100.00	0.00	2.16	19.13 *
8344	76	01/18/91	349 CEM	0.996	17.90	21.20	1.19	32.00	79.40	1.11	0.00	100.00	0.00	100.00	100.00	0.00	0.46	0.60 -
8344	76	01/18/91	348 M12	1.144	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.30 -
8346	76	01/18/91	346 CEM	1.022	1.50	100.00	64.43	5.71	100.00	17.52	43.20	100.00	1.54	100.00	100.00	0.00	17.52	64.40 *
8346	76	01/18/91	340 M12	1.212	6.54	64.00	14.29	7.18	100.00	13.92	30.70	100.00	3.26	100.00	100.00	0.00	0.02	35.64 *
8370	76	01/18/91	347 CEM	1.049	34.10	100.00	2.93	50.40	100.00	1.71	0.40	100.00	0.00	100.00	100.00	0.00	1.71	7.52 *
8370	76	01/18/91	344 M12	0.913	0.00	50.50	0.00	0.00	69.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	1.22 -
8372	76	02/05/91	498 CEM	1.324	36.90	78.60	2.13	41.40	100.00	1.43	0.00	100.00	0.00	100.00	100.00	0.00	1.28	6.49 *
8372	76	02/05/91	498 M12	1.127	10.30	100.00	5.44	43.30	100.00	2.31	0.00	100.00	0.00	100.00	100.00	0.00	2.31	18.06 *
8375	76	02/05/91	498 CEM	1.306	2.84	100.00	35.27	11.10	100.00	9.02	100.00	100.00	1.00	100.00	100.00	0.00	9.02	35.27 *
8375	76	02/05/91	498 M12	1.080	3.40	74.90	22.02	5.00	100.00	20.00	10.00	100.00	10.00	100.00	100.00	0.00	14.99	44.86 *
8380	76	02/05/91	490 CEM	1.287	13.50	21.00	1.34	21.60	100.00	4.63	0.00	100.00	0.00	100.00	100.00	0.00	0.97	10.26 *
8380	76	02/05/91	490 M12	1.105	5.31	57.20	10.77	11.10	100.00	9.00	28.80	100.00	3.47	100.00	100.00	0.00	5.14	29.95 *
8382	76	02/05/91	499 CEM	1.207	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	1.19 -
8382	76	02/05/91	499 M12	1.157	13.50	100.00	7.41	31.00	100.00	3.23	0.00	100.00	0.00	100.00	100.00	0.00	3.23	17.39 *
8386	76	02/05/91	499 CEM	1.193	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.25 -
8386	76	02/05/91	498 M12	0.907	17.90	100.00	3.59	72.20	100.00	1.56	0.00	100.00	0.00	100.00	100.00	0.00	1.56	17.28 *
8397	76	02/05/91	541 CEM	0.900	50.80	100.00	1.97	100.00	100.00	1.00	0.00	100.00	0.00	100.00	100.00	0.00	1.00	4.07 *
8397	76	02/05/91	497 M12	1.048	0.00	50.50	0.00	0.00	72.60	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	2.83 -
8433	75	12/11/90	309 CEM	1.252	2.24	100.00	44.30	14.70	100.00	6.79	0.00	100.00	0.00	100.00	100.00	0.00	4.79	30.99 *
8433	75	01/04/91	348 CEM	1.477	107.00	949.00	9.05	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	13.64 *
8433	75	12/11/90	307 M12	0.998	4.19	100.00	23.00	59.60	100.00	1.48	0.00	100.00	0.00	100.00	100.00	0.00	1.48	24.19 *
8434	75	12/11/90	304 CEM	1.174	22.30	100.00	4.48	64.60	100.00	1.51	0.00	100.00	0.00	100.00	100.00	0.00	1.51	7.38 *
8434	75	01/04/91	348 CEM	1.235	26.40	1000.0	37.94	545.00	1000.0	1.83	0.00	1000.0	0.00	1000.0	1000.0	0.00	1.83	19.90 *
8434	75	12/11/90	300 M12	0.977	1.00	100.00	100.00	2.11	100.00	47.44	0.00	100.00	0.00	100.00	100.00	0.00	47.44	54.02 *
8436	75	12/11/90	308 CEM	1.271	0.50	2.74	0.32	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	5.48 *
8436	75	12/11/90	308 M12	1.024	1.38	100.00	72.39	14.10	100.00	7.09	0.00	100.00	0.00	100.00	100.00	0.00	7.09	38.71 *
8437	75	12/11/90	308 CEM	1.271	16.60	0.18	0.01	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	11.44 *
8437	75	12/11/90	308 M12	1.024	1.44	100.00	60.12	37.70	100.00	2.46	0.00	100.00	0.00	100.00	100.00	0.00	2.46	34.06 *
8440	75	12/12/90	309 CEM	1.248	0.00	29.60	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.00 -
8440	75	12/12/90	304 M12	1.092	1.21	27.20	22.40	1.68	50.80	30.31	3.00	97.90	32.44	16.21	21.76	0.00	16.21	21.76 *
8441	75	12/12/90	309 CEM	1.248	0.00	0.23	0.00	0.00	77.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	0.24 -
8441	75	12/12/90	304 M12	1.092	4.49	100.00	22.30	6.38	100.00	15.69	23.20	100.00	4.32	100.00	100.00	0.00	4.32	15.69 *
8444	75	12/12/90	308 CEM	1.278	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	1.47 -
8444	75	12/12/90	308 M12	1.085	39.50	100.00	2.53	53.80	100.00	1.86	94.00	100.00	1.06	100.00	100.00	0.00	1.86	10.72 *

AVS No.	Ship Mark	Test Date	Pit #	Cell	DIF1	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	BI	TAI T	A	C
8469	75	12/12/90	369	CEM	1.273	51.60	8.31	8.01	100.00	100.00	1.00	0.00	100.00	0.00	0.00	0.00	7.06	*
8469	75	12/12/90	308	MT2	1.074	11.00	100.00	9.08	24.70	100.00	4.05	97.00	100.00	1.03	4.05	24.45	*	*
8482	75	12/13/90	364	CEM	1.340	4.72	60.10	12.74	9.44	89.40	9.44	0.00	100.00	0.00	6.34	24.39	*	*
8482	75	12/13/90	363	MT2	1.203	5.33	49.20	9.22	15.20	64.30	4.36	0.00	97.30	0.00	3.23	18.92	*	*
8483	75	12/13/90	364	CEM	1.340	11.10	24.10	2.35	0.00	49.30	0.00	0.00	94.90	0.00	0.00	7.19	*	*
8483	75	12/13/90	363	MT2	1.203	6.45	48.50	7.52	16.70	63.70	3.93	0.00	94.60	0.00	2.90	18.42	*	*
8497	75	12/13/90	363	CEM	1.337	44.50	100.00	2.25	64.70	100.00	1.54	0.00	100.00	0.00	1.34	8.18	*	*
8497	75	12/13/90	366	MT2	1.096	0.00	17.50	8.00	0.00	28.80	0.00	0.00	94.00	0.00	0.00	0.00	0.00	-
8501	76	02/08/91	441	CEM	1.074	0.00	15.50	0.00	0.00	21.00	0.00	0.00	30.90	0.00	0.00	0.70	-	-
8501	76	02/08/91	448	MT2	1.333	15.10	19.20	1.27	25.50	29.20	1.15	0.00	100.00	0.00	0.75	3.29	*	*
8505	76	02/08/91	441	CEM	1.267	17.10	34.30	2.12	0.00	100.00	0.00	0.00	100.00	0.00	0.00	4.19	*	*
8505	76	02/08/91	444	MT2	1.335	2.46	100.00	40.73	12.00	100.00	8.35	0.00	100.00	0.00	8.35	28.81	*	*
8514	76	02/08/91	448	CEM	1.016	7.79	100.00	12.83	15.00	100.00	6.69	0.00	100.00	0.00	6.69	31.18	*	*
8514	76	02/08/91	444	MT2	1.309	1.58	12.20	7.71	6.42	22.90	3.57	0.00	100.00	0.00	1.89	14.13	*	*
8519	76	02/08/91	441	CEM	0.887	17.90	100.00	5.59	39.90	100.00	2.51	91.20	100.00	1.10	2.51	19.94	*	*
8519	76	02/08/91	448	MT2	1.287	2.11	100.00	47.43	7.39	100.00	13.53	70.70	100.00	1.41	13.53	38.09	*	*
8555	76	01/09/91	348	CEM	0.769	32.00	100.00	3.13	100.00	100.00	1.00	0.00	100.00	0.00	1.00	4.77	*	*
8555	76	01/09/91	318	MT2	1.375	0.00	45.30	0.00	0.00	100.00	0.00	0.00	100.00	0.06	0.00	0.13	-	-
8645	76	01/31/91	481	CEM	0.944	24.10	100.00	3.83	44.80	100.00	2.23	92.30	100.00	1.06	2.23	13.44	*	*
8645	76	01/31/91	482	MT2	1.448	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.39	-	-
8701	76	01/31/91	494	CEM	0.794	0.32	100.00	312.50	0.32	100.00	312.50	0.80	100.00	125.59	312.50	84.73	*	*
8701	76	01/31/91	486	MT2	1.423	0.32	100.00	312.50	0.32	100.00	312.50	0.32	100.00	312.50	312.50	95.21	*	*
8702	76	01/31/91	494	CEM	0.794	0.32	100.00	312.50	0.32	100.00	312.50	0.81	100.00	123.49	312.50	96.83	*	*
8702	76	01/31/91	486	MT2	1.423	0.32	100.00	312.50	0.32	100.00	312.50	0.39	100.00	258.45	312.50	92.21	*	*
8719	27A	01/21/91	302	CEM	0.904	3.07	100.00	32.33	27.10	100.00	3.49	0.00	100.00	0.00	3.49	24.91	*	*
8719	27A	02/21/91	408	CEM	0.833	49.10	403.00	5.83	0.00	410.00	0.00	0.00	983.00	0.00	0.00	8.80	*	*
8719	27A	01/21/91	309	MT2	1.343	1.35	100.00	73.97	2.32	100.00	43.17	38.70	100.00	2.58	43.17	48.89	*	*
8720	27A	01/21/91	302	CEM	0.904	1.70	100.00	58.94	4.25	100.00	23.50	18.90	100.00	3.30	23.50	34.25	*	*
8720	27A	02/21/91	408	CEM	0.833	4.57	67.40	14.76	6.32	109.00	16.65	25.00	303.00	12.69	10.34	34.53	*	*
8720	27A	01/21/91	309	MT2	1.343	4.47	100.00	22.39	6.32	100.00	15.82	22.70	100.00	4.40	15.82	48.30	*	*
8722	27A	01/21/91	300	CEM	0.970	7.94	45.90	5.77	12.40	47.70	3.00	0.00	100.00	0.00	2.04	12.98	*	*
8722	27A	02/21/91	409	CEM	0.911	16.60	100.00	4.02	39.60	100.00	2.52	0.00	100.00	0.00	2.52	11.42	*	*
8722	27A	01/21/91	30A	MT2	1.404	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.10	-	-
8754	27A	01/21/91	306	CEM	1.093	0.32	83.00	259.38	3.20	100.00	31.25	0.00	100.00	0.00	25.94	16.84	*	*
8754	27A	01/21/91	300	MT2	1.309	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	2.50	-	-

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AVS No.	Ship- ment	Test Date	Pit #	Cell	Diff.	IC 25	TC 25	AI 25	IC 50	TC 50	AI 50	IC 95	TC 95	AI 95	SI	TAI Y
8765	27A	01/22/91	429	CEM	0.707	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.64
8765	27A	02/21/91	409	CEM	0.911	0.00	206.00	0.00	0.00	471.00	0.00	0.00	947.00	0.00	0.00	0.00
8765	27A	01/22/91	445	M12	1.203	0.32	100.00	312.50	0.32	100.00	312.50	0.32	100.00	312.50	312.50	96.81
8765	27A	02/21/91	422	M12	0.944	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.31
8772	27A	01/22/91	428	CEM	0.434	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.12
8772	27A	02/21/91	404	CEM	0.901	0.00	135.00	0.00	0.00	423.00	0.00	0.00	942.00	0.00	0.00	2.71
8772	27A	01/22/91	448	M12	1.131	0.32	100.00	312.50	0.32	100.00	312.50	0.32	100.00	312.50	312.50	92.11
8772	27A	02/21/91	400	M12	1.272	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.64
8815	27A	02/21/91	408	CEM	0.760	16.40	97.00	5.91	28.10	100.00	3.56	0.00	100.00	0.00	3.45	13.51
8815	27A	01/22/91	444	M12	1.020	5.80	64.60	11.14	12.90	100.00	7.75	29.20	100.00	3.42	5.01	31.45
8815	27A	02/21/91	400	M12	1.272	22.30	100.00	4.48	42.20	100.00	2.37	91.70	100.00	1.09	2.37	15.95
8849	27A	02/21/91	400	CEM	0.759	20.70	1.00	0.05	100.00	100.00	1.00	0.00	100.00	0.00	0.01	3.24
8849	27A	01/22/91	450	M12	0.924	34.00	100.00	2.94	73.50	100.00	1.36	0.00	100.00	0.00	1.36	15.76
8849	27A	02/21/91	401	M12	1.363	49.70	173.00	3.48	0.70	250.00	0.00	0.00	874.00	0.00	0.00	8.12
8855	27A	01/23/91	450	CEM	1.121	33.90	77.30	2.28	49.10	190.00	1.45	0.00	100.00	0.00	1.12	4.39
8855	27A	01/23/91	328	M12	1.325	0.00	0.17	0.00	0.00	93.80	0.00	0.00	100.00	0.00	0.00	0.44
8887	27A	01/23/91	444	CEM	0.852	0.00	21.40	0.00	0.00	44.00	0.00	0.00	94.40	0.00	0.00	0.00
8887	27A	01/23/91	400	M12	1.094	0.32	5.47	17.08	0.32	29.30	91.61	0.53	92.80	174.70	17.08	32.99
8887	27A	02/21/91	401	M12	1.363	0.00	3.22	0.00	0.00	5.87	0.00	0.00	59.10	0.00	0.00	0.00
9011	27A	01/24/91	31E	CEM	0.790	0.52	27.70	53.45	0.84	100.00	118.98	0.00	100.00	0.00	33.01	10.64
9011	27A	01/24/91	31Z	M12	1.003	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	1.00
9016	27A	01/24/91	31G	CEM	0.874	0.32	100.00	312.50	0.32	100.00	312.50	0.00	100.00	0.00	312.50	5.68
9016	27A	02/21/91	40E	CEM	0.854	0.00	0.70	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00
9016	27A	01/24/91	3041	M12	1.048	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	0.24
9024	27A	01/24/91	31K	CEM	0.928	2.11	12.10	5.75	4.93	18.70	3.80	0.00	30.70	0.00	2.46	12.66
9024	27A	02/21/91	407	CEM	0.854	0.00	16.90	6.01	0.00	23.80	0.00	0.00	83.00	0.00	0.00	3.83
9024	27A	01/24/91	3045	M12	1.061	0.00	5.78	0.00	2.00	9.18	0.00	0.00	29.50	0.00	0.00	1.04
9026	27A	01/24/91	31L	CEM	0.866	0.40	6.90	12.39	0.77	6.60	8.60	0.00	9.44	0.00	6.39	15.03
9026	27A	01/24/91	3046	M12	1.174	0.00	1.48	0.00	0.00	2.67	0.00	0.00	9.13	0.00	0.00	0.00
9028	27A	01/24/91	31M	CEM	0.939	13.70	58.70	4.29	27.80	92.00	3.31	0.00	100.00	0.00	2.11	14.81
9028	27A	01/24/91	307	M12	1.110	0.00	20.60	0.00	0.00	31.20	0.00	0.00	100.00	0.00	0.00	0.36
9464	25A	12/20/90	361	CEM	1.235	0.32	74.50	232.81	0.32	100.00	312.50	0.32	100.00	312.50	232.81	88.44
9464	25A	01/04/91	31M	CEM	1.273	1.04	10.00	9.61	2.84	10.00	3.52	0.86	10.00	1.13	3.52	18.83
9464	25A	02/05/91	490	CEM	1.300	3.20	408.00	127.50	3.20	608.00	190.00	3.20	968.00	302.50	127.50	75.27
9464	25A	02/05/91	490	CEM	1.300	0.10	1.00	9.55	0.19	1.00	5.34	0.81	1.00	1.23	5.34	23.17
9464	25A	12/20/90	31E	M12	0.653	0.32	23.10	72.17	0.32	81.50	254.55	0.32	100.00	312.50	72.17	82.66
9464	25A	02/05/91	496	M12	1.110	3.20	64.60	20.20	3.20	151.00	47.12	3.20	660.00	206.25	20.20	48.26
9464	25A	02/05/91	496	M12	1.110	0.02	1.00	58.63	0.06	1.00	15.93	0.66	1.00	1.33	15.93	44.83
9465	25A	12/20/90	362	CEM	1.263	0.20	0.32	0.00	0.00	0.37	0.00	0.00	0.32	0.00	0.00	0.00
9465	25A	01/04/91	31M	CEM	1.054	0.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	5.15
9465	25A	12/20/90	31L	M12	0.660	0.32	0.32	1.00	0.32	0.32	1.00	0.32	0.90	2.81	1.00	0.79

AVS No.	Ship name	Test Date	PIP #	Cell	Diff.	IC 25	IC 25	AI 25	IC 50	IC 50	AI 50	IC 95	IC 95	AI 95	SI	TAI	A	C
9444	ZSA	12/20/90	361	CEM	1.235 <	0.22	5.20 >	16.25 <	0.32	7.50 >	22.50 <	0.32	24.70 >	77.00 >	14.25 >	65.05 >		
9444	ZSA	01/04/91	368	CEM	1.273	0.17 >	10.00 >	57.20 <	0.81 >	10.00 >	12.37 <	12.70 >	19.00 >	8.79 >	12.37 >	34.16 >		
9444	ZSA	02/05/91	409	CEM	1.317 <	3.20	42.00 >	13.38 <	3.20	42.10 >	19.42 <	7.04	94.90 >	13.76 >	13.38 >	37.12 >		
9444	ZSA	02/05/91	409	CEM	1.317 <	0.31	1.00 >	3.18 <	0.00 >	1.00 >	0.00 <	0.00 >	1.00 >	0.00 >	0.00 >	7.99 >		
9444	ZSA	12/20/90	316	RI	0.653 <	0.32	7.92 >	24.76 <	0.32	16.70 >	44.53 <	0.32	30.60 >	95.63 >	24.76 >	54.11 >		
9444	ZSA	02/05/91	407	R	1.097 <	3.20 <	3.20 <	1.00 <	3.20 <	2.91 >	0.91 <	0.00	242.00 >	0.00	1.00	5.07 >		
9444	ZSA	02/05/91	407	R	1.297	0.32	0.53	1.65	0.00 >	1.00 >	0.00	0.00	1.00	0.00	0.00 >	3.73 >		

Differential = The differential is the difference in the cell control and the virus control optical densities.

IC₂₅ to 95 = (Viral) inhibitory concentration 25%, 50% and 95% = The drug concentration (µg/ml) that inhibited viral CPE by 25%, 50% or 95% calculated by using a regression analysis for sigmoid curve fitting.

IC₂₅ to 95 = (Cell) toxicity concentration 25%, 50% and 95% = The drug concentration (µg/ml) that reduced cell viability by 25%, 50% or 95%.

AI₂₅ to 95 = Antiviral Index = A single point ratio of the antiviral and antiproliferative effect of the compound, calculated with 25%, 50% or 95% reduction values (calculated by dividing the IC₂₅ to 95 by the IC₂₅ to 95).

SI = Selectivity Index = A ratio calculated by dividing the IC₂₅ by the IC₅₀ (based upon a one half log₁₀ dilutions, µg/ml, the maximum scale is 0.320).

TAI = Total Antiviral Index = The area between the cytotoxicity and the antiviral curves (based upon a scale of 0.1000).

ACT = Activity = A "*" denotes a test that produced 25% reduction in CPE. A "•" denotes an inactive test (i.e., 50% reduction in CPE).

APPENDIX C

List of Confirmed Actives Against HIV from the Primary Screen
(Includes Testing Done in 1987, 1988, 1989, 1990 and 1991)

List of Compounds that Demonstrated Confirmed Activity
in the Primary Screen Against HIV

AVS No.	AVS No.	AVS No.	AVS No.	AVS No.	AVS No.
0094	2657 ^{F, S}	5186	6200	6947	8235
0206 ^{F, S}	2708 ^{F, S}	5360	6201	7207	8236
0598	2760	5691	6202	7208	8237
0702	2921	5733	6203	7241	8256
0703	2922	5767	6207	7295	8257
0709	2955	5871	6208	7701	8258
0999 ^{F, S}	2996 ^F	5872	6209	7708	8259
1603	3345	5874	6210	7741	8260
1644	3374	5875	6211	7787	8261
1790	3392	5876	6212	7839	8262
1795	3436	5880	6214	7888	8272
1801	3443	5882	6215	7890	8308
1846	3459	5884	6216	7891	8326
1850	3491	5885	6217	7930	8334
2285 ^{F, S}	3496	5887	6218	7947	8335
2332	3513 ^R	5956	6219	7954	8366
2340 ^S	3592	5996	6220	7960	8372
2353 ^{F, S}	3819	6174	6221	7961	8375
2358 ^{F, S}	3939 ^R	6175	6222	7962	8380
2365	4032	6176	6223	7963	8433
2393 ^{F, S}	4035	6180	6224	7973	8434
2397 ^F	4036	6183	6225	7974	8482
2445 ^{F, S}	4075	6184	6227	7975	8514
2448 ^{F, S}	4138	6185	6230	7976	8519
2572	4139	6186	6289	7977	8520
2573	4142	6187	6293	7980	8701
2574 ^{F, S}	4357	6188	6295	7983	8702
2575	4397	6191	6446	7987	8719
2576 ^S	4446	6192	6510	7989	8720
2581	4593	6193	6511	8041	8722
2582	4611	6194	6512	8137	8815
2585 ^F	4730	6195	6777	8141	8849
2589	4923	6196	6942	8201	9464
2600	5024	6197	6943	8209	9466
2629 ^{F, S}	5025	6198	6945	8225	
2639	5121	6199	6946	8234	

^F Secondary testing done on FAIDS virus.

^S Secondary testing done on SAIDS virus.

^R Secondary testing done on Rauscher - Murine Leukemia Virus (RMuLV).