APPENDICES

Volume 1 of 5

APPENDIX 1A Chemical Characterization of DIMP (MRI)

MRI REPORT

Characterization of Diisopropyl Methylphosphonate (DIMP)

Batch No. 10009217

For Pathology Associates, Inc.
15 Worman's Mill Court, Suite 1
Frederick, Maryland 21701

MRI Project No. 3876-F(01)
PAI Study No. TP-001

March 18, 1996

Project Title:

Characterization of Diisopropyl Methylphosphonate (DIMP)

Data Requirements:

Chemical Characterization

Author:

Linda Siemann

Project Initiated On:

March 28, 1995

Report Date:

March 18, 1996

Performing Laboratory:

Midwest Research Institute
425 Volker Boulevard
Kansas City, Missouri 64110-2299

Laboratory Project ID:

3876-F(01)

Good Laboratory Practice Compliance Statement

All work conducted for this portion of the project [3876-F(01)] was performed in accordance with the applicable EPA Toxic Substances Control Act (TSCA), Good Laboratory Practice standards (40 *CFR* Part 792).

This document is a report of the results of analyses performed by Midwest Research Institute for diisopropyl methylphosphonate (DIMP). This work was performed for Pathology Associates, Inc., to support a reproductive study.

MIDWEST RESEARCH INSTITUTE

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March 18, 1996

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Quality Assurance Statement

Characterization of Diisopropyl Methylphosphonate (DIMP)
Batch No. 10009217
MRI Project No. 3876-F(01); PAI Study No. TP-001

This portion of the project was inspected by the Quality Assurance Unit (QAU) of Midwest Research Institute and reports were submitted to MRI management and the Study Director as follows (see MRI report dated 10/16/95 for previous inspections):

Phase	Audit/ inspection date	Study director/ management submittal date
In-life Audit, Water Analysis (KF Titration)	2/5/96	2/5/96
Procedure Amendment No. 2 Audit	2/5/96	2/5/96
Data and Report Audits	3/12/96	3/12/96

This report reflects the procedures and raw data generated in this portion of the project. The raw data and report are stored in the MRI Archives.

In addition to the study-specific audits/inspections cited above, inspections of applicable facilities and equipment were performed by the QAU and reports were submitted to management as follows (see MRI report dated 10/16/95 for previous inspections):

Facility/Equipment	Inspection date	Management submittal date
PCA Laboratories	12/13/95 2/28/96	12/14/95 2/29/96
GC Facility	11/29/95	11/29/95

MIDWEST RESEARCH INSTITUTE

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March 18, 1996

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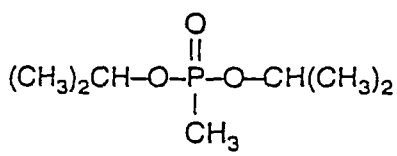
Section 1
Introduction

The purpose of this work was to provide chemical characterization of diisopropyl methylphosphonate (DIMP) in support of a two-generation reproductive study in mink fed diisopropyl methylphosphonate, being performed by Pathology Associates, Inc. (PAI). This characterization consisted of boiling point, density, ultraviolet/visible spectroscopy, Fourier-transform infrared spectroscopy, Fourier-transform nuclear magnetic resonance spectroscopy (proton), gas chromatography/mass spectroscopy, water content, thin layer chromatography, and impurity profiling by gas chromatography.

Analyses were performed on a sample of DIMP submitted by the University of Minnesota at St. Paul, originally obtained from Lancaster Synthesis, Inc. Sample identification in this report corresponds to the designations used by Lancaster Synthesis, Inc., unless otherwise stated. The experimental phase of this portion of the project occurred from January 2 to February 6, 1996. MRI personnel contributing to the analysis of DIMP were Duane Stephens, Jason McClintock, Matt Lightfoot, Michael Molloy, and Michael Kozak. Michael Kozak contributed to the preparation of this report.

Test substance

Chemical Name	Diisopropyl methylphosphonate
Batch No.	10009217
CAS No.	1445-75-6
Date of Receipt	11/16/95
Molecular Formula	$C_7H_{17}O_3P$
Molecular Weight	180.2
Appearance	Clear, colorless liquid
Structure	



Section 2
Chemical Characterization

This section contains the results for chemical characterization of the test substance. This characterization consisted of the following: determination of physical properties, spectroscopy, analysis for water content, and chromatography.

2.1 Physical Properties

2.1.1 Boiling Point

Method: A small amount of the sample was transferred to a boiling point tube, and a sealed capillary tube was placed upside down in the liquid. The tube was then placed in a Büchi 535 melting/boiling point apparatus programmed at a rate of 1°C/min. The boiling point of DIMP was determined visually for triplicate samples.

Results: The sample had a boiling point of 192.6 ± 0.5(s)°C at 744.7 ± 1.5 mm Hg. No literature reference was found.

2.1.2 Density

Method: A clean, empty, 5-mL pycnometer was weighed in triplicate. The pycnometer was filled with ASTM Type I reagent grade water, which had been boiled and cooled to ambient temperature, and the weight was then recorded. A portion of the water was removed, the pycnometer was refilled with water, and the weight was again recorded. This was repeated once more to give triplicate weights for calibrating the pycnometer.

The pycnometer was cleaned, dried, and filled with DIMP, then the weight was recorded. A portion of the DIMP was removed, the pycnometer was refilled with DIMP, and the weight was again recorded. This was repeated once more to give triplicate weights for the density determination.

Results: The density of the test substance was 0.9762 ± 0.0003(s) g/mL at 19.6°C and a barometric pressure of 749.3 mm Hg. No literature reference was found.

2.2 Spectroscopy

2.2.1 Infrared Spectroscopy

Method: A thin film of the test substance was placed between silver chloride plates, then scanned from 4396.90 to 651.82 cm^{-1} to obtain the spectrum.

Instrument: The spectrum was obtained for the sample using an Analect RFX-75 FT-IR with the following parameters.

Detector Type: Mercury cadmium telluride (MCT)
Data Range: 4396.90 to 651.82 cm^{-1}
Signal Gain: 1
Default Scans: 64 (background)/64 (sample)
Resolution: 4 cm^{-1}
Phase Correct: 512-point Mertz
Apodization: Norton-Beer (medium)
Speed: 127 mm/s
Jacquinot: 2 cm^{-1}
Sample Region Configuration: Internal, focused
Sample compartment purged with dry air

Results: The spectrum obtained for the test substance (see Figure 1) was consistent with the structure of DIMP, a literature reference,[1] and the spectrum obtained for Batch No. 10005098 (MRI Report dated 10/16/95).

2.2.2 Ultraviolet/Visible Spectroscopy

Method: Triplicate ~ 1% (w/v) solutions of DIMP in ethanol (95%) were prepared and scanned from 800 to 200 nm. The baseline was set by using ethanol in the sample and reference beams prior to analysis of the DIMP solutions.

Instrument: Spectra were obtained for the samples using a Varian DMS 100S UV/VIS spectrophotometer with the following parameters.

Mode: Absorbance
Bandwidth: 2.0 nm
Time Constant: 0.3 s
Baseline corrected
Ordinate Max: 1.000

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[1] A.E.T. Kuiper et al., "The Role of Heterogeneity in the Kinetics of a Surface Reaction," *Journal of Catalysis* 43, 159 (1976).

Ordinate Min: 0.000
1-cm quartz cells

Results: No absorbance maxima were observed in the visible region (800 to 350 nm) for any of the 1% solutions. An absorbance maximum was observed in the ultraviolet region (350 to 200 nm) at 257.4 nm, with a calculated ε_{max} of $8.1 \pm 0.2(s)$. No literature reference was found; however, as no absorbance is expected for the test substance, this small absorbance is most likely due to an impurity.

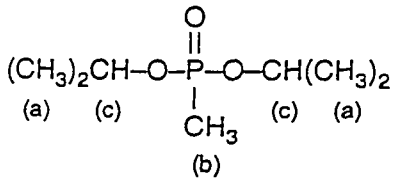
2.2.3 Nuclear Magnetic Resonance Spectroscopy

Method: A portion of DIMP (27.58 mg) was weighed into a tared 2-dram vial, and 1 mL of deuterated chloroform was added. A disposable pipet, which had been dipped into tetramethylsilane (internal reference), was dipped in the DIMP solution. The vial was capped and the contents mixed by inversion. A solvent blank was prepared in the same manner, omitting the DIMP.

Instrument: Proton spectra of the DIMP solution and the solvent blank were obtained from 0 to – 15 ppm with a Varian VXR-300 FT-NMR with VXR-4000 Data System, using the following parameters:

Pulse Sequence: STD1H
Spectral Width: 5998.8
Pulse Width: 11.6
Relaxation Delay: 0
Temperature: 23.0°C
Collected Transients: 256

Results: The spectrum obtained (see Figure 2) was consistent with the structure of DIMP. No literature reference was found. The assignments, multiplicities, and integration for the spectrum are tabulated below. No impurity peaks were observed that were not attributable to the solvent.



Assignment (δ, ppm)	Multiplicity	Integration	
		Observed	Theoretical
(a) 1.32	doublet, J_{a-c} = 6.2 Hz	11.95	12
(b) 1.45	doublet, J_{b-P} = 17.4 Hz	3.17	3
(c) 4.69	multiplet	1.88	2

2.2.4 Gas Chromatography/Mass Spectrometry

Method: An ~ 5 mg/mL solution was prepared by weighing 123.2 mg of DIMP directly into a 25-mL volumetric flask, then diluting to volume with methylene chloride. The solution was mixed thoroughly. A 1-mL aliquot was removed from the solution and delivered to a 10-mL volumetric flask, then the contents of the flask were diluted to volume with methylene chloride, and mixed thoroughly, yielding an ~ 0.5 mg/mL solution. Portions of this solution and a solvent blank were transferred to individual autosampler vials, and sealed for analysis by gas chromatography/mass spectrometry.

Instrument and Parameters:

Instrument: FISONS TRIO-1A mass spectrometer interfaced via the analytical column to a Hewlett Packard 5890 gas chromatograph; data were handled by a Lab-Base data system ver. 2.14

Column: DB-5 capillary, 30 m x 0.32 mm ID, fused silica, 1.0-μm film thickness

Oven Temperature Program:
- Initial: 50°C (4-min hold)
- Program Rate: 10°C/min
- Final Temperature: 250°C

Carrier Gas: Helium, 30 mL/min
- Head Pressure: 8 psig

Injection Volume: 2 μL

Parameters:
- Inlet Temperature: 280°C
- Transfer Line Temperature: 250°C
- Source Temperature: 250°C
- Resolution: 1000
- Electron Energy: 70 eV
- Multiplier: 280 V
- Filament Current: 4.1 A
- Scanning Mass Range: 35 to 550 amu
- Mode: Electron impact
- Scanning Speed: 0.6 s/scan

Results: The mass spectrum for the major component is illustrated in Figure 3. The identity of the major component was confirmed as DIMP by a matching library spectrum.[2]

2.3 Water Analysis

Method: An aliquot of the sample (~ 1 mL) was drawn into a 1-mL syringe equipped with a needle. The syringe containing the sample was weighed, then the DIMP was delivered into the titration vessel which contained ~ 40 mL of methanol, which had been conditioned with Karl Fischer reagent, and the syringe was reweighed. The weight of the test substance delivered was obtained by difference. The sample was titrated with standardized Karl Fischer reagent (~ 3.4 mg/mL titer). The titration was monitored potentiometrically with a double platinum electrode. Triplicate aliquots of DIMP were titrated. Duplicate blanks were titrated by simulating sample delivery.

Instrument: Metrohm 678 EP/KF Processor and Metrohm 665 Dosimat with a 20-mL buret

Calculations:

$$\text{Water content (\%)} = \frac{T \times (S - B) \times 100}{W}$$

where: T = average titer (mg/mL),
S = volume of titrant required for sample (mL),
B = average volume of titrant required for blanks (mL), and
W = weight of sample (mg).

Results: Water content (%) = 0.17 ± 0.01(s)%

2.4 Chromatography

2.4.1 Thin-Layer Chromatography

Method: An ~ 10 µg/µL solution of DIMP in acetone was prepared and spotted on a TLC plate at three levels: ~ 10, 100, and 300 µg (1, 10, and 30 µL of the sample solution). An ~ 10 µg/µL solution of tributyl phosphate (reference

[2] *LabBase NIST Library*, Version 2.14, 62235 entries.

standard) in acetone was prepared and spotted on the same plate at ~ 300 µg (30 µL). Solvent was also spotted on the plate. The plate was placed in the developing chamber and the solvent was allowed to rise. The plate was removed from the developing chamber, and allowed to air-dry. Spots were visualized by examination under 254 nm ultraviolet light, followed by exposure to iodine vapors. Two plates were prepared and developed in two different solvent systems.

Systems:

Plates: Merck Silica gel 60, F-254, 0.25 mm layer, 10 x 20 cm
Solvent Systems:
1. Methanol (100%)
2. Toluene:Methanol (90:10)

Visualization: Ultraviolet light (254 nm) and iodine vapors

Results:

Solvent System 1: Methanol (100%)

Spot Intensity	R_f	R_{st}	Visualization[a]
Major	0.68	0.93	+[b]
Reference	0.73	—	+

[a] By iodine vapors.
[b] Indicates spot was detected.

Solvent System 2: Toluene:Methanol (90:10)

Spot Intensity	R_f	R_{st}	Visualization[a]
Major	0.27	0.50	+[b]
Reference	0.54	—	+

[a] By both 254 nm ultraviolet light and iodine vapors.
[b] Indicates spot was detected.

2.4.2 Gas Chromatography

2.4.2.1 System 1

Samples were dissolved in methylene chloride and impurities were determined by gas chromatography with a DB WAX column. Impurities were quantitated as a percent of the major peak.

Reagent: Methylene chloride, Burdick and Jackson, High Purity
Analytical Balance: Mettler AE163, sensitivity ± 0.00001 g
Glassware: All volumetric glassware were Class A tolerances

Instrument System:
- Instrument: Varian 3700 gas chromatograph with Varian 8000 autosampler
- Detection: Flame ionization
- Electronic Integration: Turbochrome 4 Data System
- Detector Temperature: 250°C
- Inlet Temperature: 200°C
- Injection Mode: Direct
- Carrier Gas: Helium, ~ 10 mL/min
- Makeup Gas: Nitrogen, ~ 20 mL/min
- Column: DB WAX, 30 m x 0.53 mm ID, fused silica, 1.0-µm film thickness
- Oven Temperature Program:
  - Initial Temperature: 60°C (5-min hold)
  - Program Rate: 8°C/min
  - Final Temperature: 220°C (15-min hold)
- Volume Injected: 1 µL

Procedure: Two sample solutions were prepared by weighing 122.46 and 246.18 mg into individual 25-mL volumetric flasks, diluting to volume with methylene chloride, and mixing thoroughly. A portion of each solution, as well as a methylene chloride blank, was transferred to individual autosampler vials for analysis.

Triplicate injections were made from each sample and blank solution, using the instrument and parameters described above. The retention time of DIMP was 13.1 min.

Calculations:

1. For each injection, the individual components were determined as a percent of the major peak area as follows.

$$\text{Percent Area} = \frac{\text{Component peak area} \times 100}{\text{Major peak area}}$$

2. The average percent area for each component was determined for the replicate injections.

Results: A major peak and two impurity peaks, with areas greater than or equal to 0.1% relative to the major peak area, were observed. No additional impurities were observed up to 20 min after the major peak eluted. The results from this analysis are tabulated below and representative chromatograms are illustrated in Figures 4 and 5.

Peak no.	Retention time (min)	Retention time (relative to major peak)	Percent area (relative to major peak area)
1	13.1	1.00	100
2	13.4	1.02	0.1
3	14.3	1.09	0.7

2.4.2.2 System 2

Samples were dissolved in methylene chloride and impurities were determined by gas chromatography with a DB-5 column. Impurities were quantitated as a percent of the major peak.

Reagent: Methylene chloride, Burdick and Jackson, High Purity
Analytical Balance: Mettler AE163, sensitivity ± 0.00001 g
Glassware: All volumetric glassware were Class A tolerances

Instrument System:
- Instrument: Varian 3700 gas chromatograph with Varian 8000 autosampler
- Detection: Flame ionization
- Electronic Integration: Turbochrome 4 Data System
- Detector Temperature: 250°C
- Inlet Temperature: 200°C
- Injection Mode: Direct
- Carrier Gas: Helium, ~ 10 mL/min
- Makeup Gas: Nitrogen, ~ 20 mL/min
- Column: DB-5, 30 m x 0.53 mm ID, fused silica, 1.5-µm film thickness
- Oven Temperature Program:
  - Initial Temperature: 50°C (5-min hold)
  - Program Rate: 8°C/min
  - Final Temperature: 250°C (10-min hold)
- Volume Injected: 1 µL

Procedure: Two sample solutions were prepared by weighing 124.95 and 253.65 mg into individual 25-mL volumetric flasks, diluting to volume with methylene chloride, and mixing thoroughly. A portion of each solution, as well as a methylene chloride blank, was transferred to individual autosampler vials for analysis.

Triplicate injections were made from each sample and blank solution, using the instrument and parameters described above. The retention time of DIMP was 12.8 min.

Calculations:

1. For each injection, the individual components were determined as a percent of the major peak area as follows.

$$\text{Percent Area} = \frac{\text{Component peak area} \times 100}{\text{Major peak area}}$$

2. The average percent area for each component was determined for the replicate injections.

Results: A major peak and one impurity peak, with an area greater than or equal to 0.1% relative to the major peak area, were observed. No additional impurities were observed up to 20 min after the major peak eluted. The results from this analysis are tabulated below, and representative chromatograms are illustrated in Figures 6 and 7.

Peak no.	Retention time (min)	Retention time (relative to major peak)	Percent area (relative to major peak area)
1	12.8	1.00	100
2	15.2	1.18	0.7

2.5 Summary and Discussion

The determined boiling point was 192.6 ± 0.5(s)°C at 744.7 ± 1.5 mm Hg. The density was 0.9762 ± 0.0003(s) g/mL at 19.6°C and 749.3 mm Hg. Results obtained by spectroscopic analyses verified the identity of the sample as DIMP. Water content was determined to be 0.17 ± 0.01(s)%. Chromatographic analyses indicated two impurities of ~ 0.1% and ~ 0.7% relative to the major component. Based on the results of the analyses, the test substance was identified as DIMP, with a purity of approximately 99%.

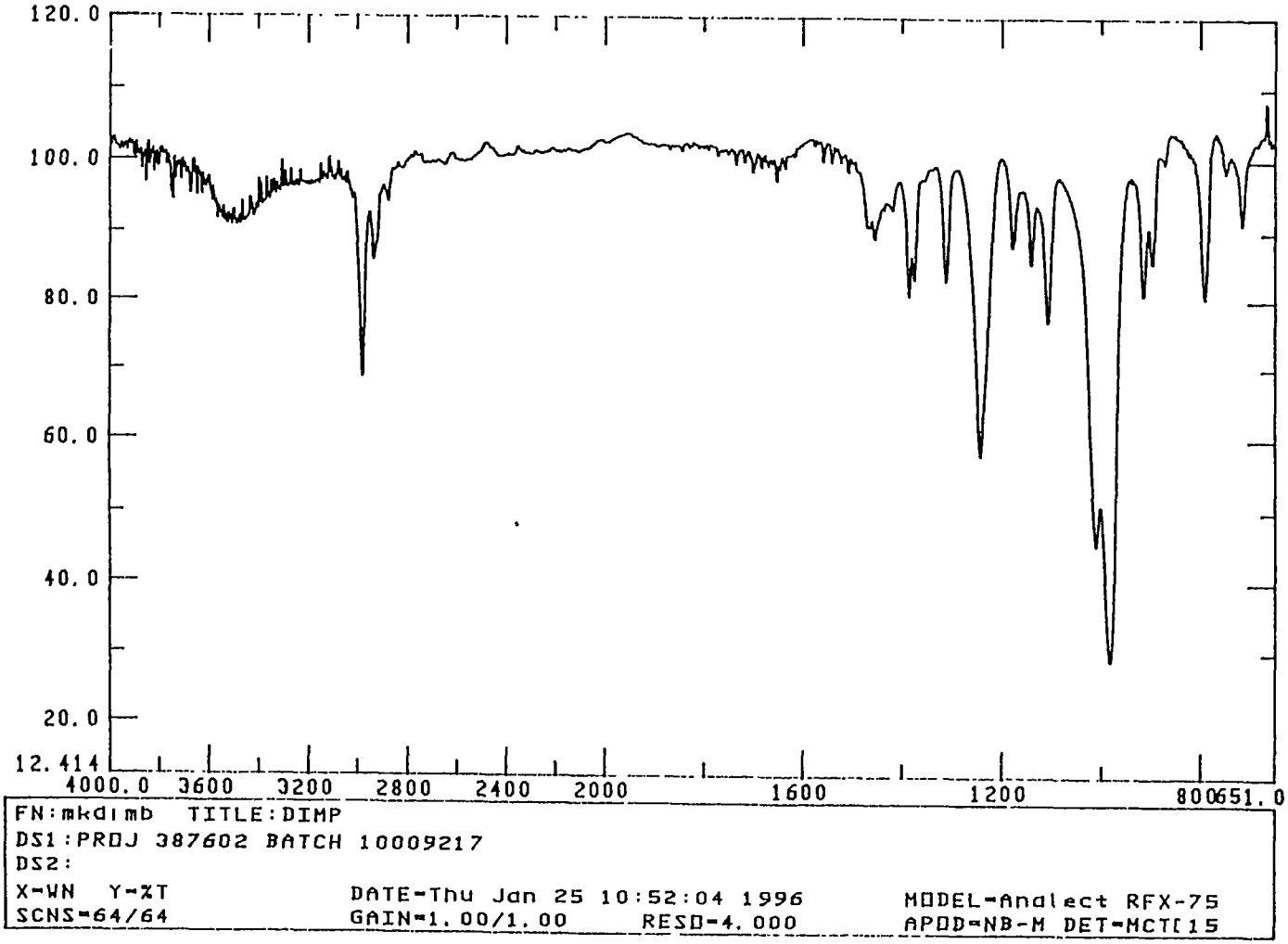


Figure 1. Infrared spectrum of diisopropyl methylphosphonate, Batch No. 10009217

Diisopropyl methylphosphonate (DIMP)
Batch No. 10009217

Instrument: Varian VXR-300 FT-NMR
Solvent: Deuterated chloroform
Internal Reference: Tetramethylsilane

Assignment (δ, ppm)	Multiplicity	Integration	
		Observed	Theoretical
(a) 1.32	doublet, $J_{a\text{-}c}$ = 6.2 Hz	11.95	12
(b) 1.45	doublet, $J_{b\text{-}P}$ = 17.4 Hz	3.17	3
(c) 4.69	multiplet	1.88	2

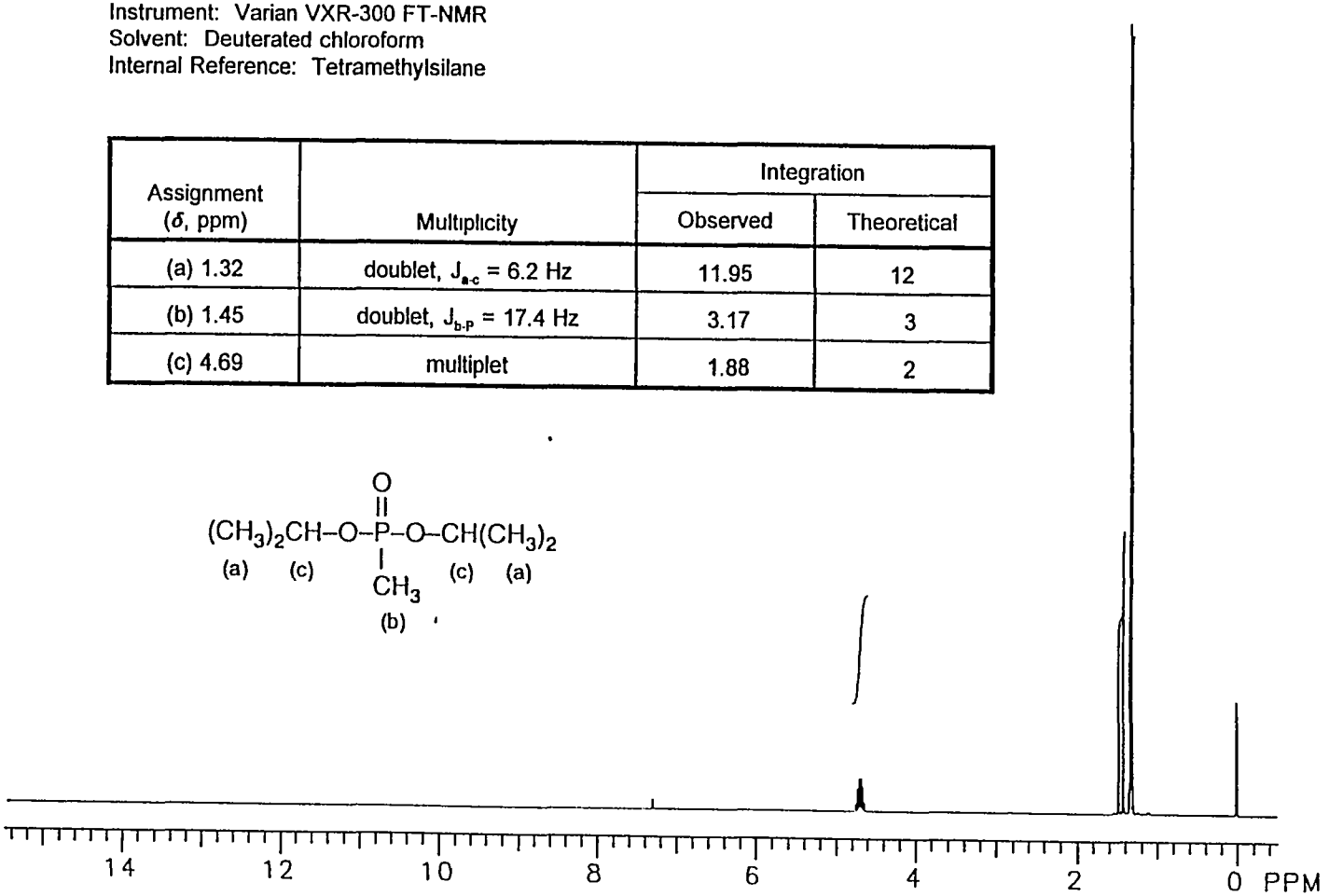


Figure 2. Nuclear magnetic resonance spectrum of diisopropyl methylphosphonate, Batch No. 10009217

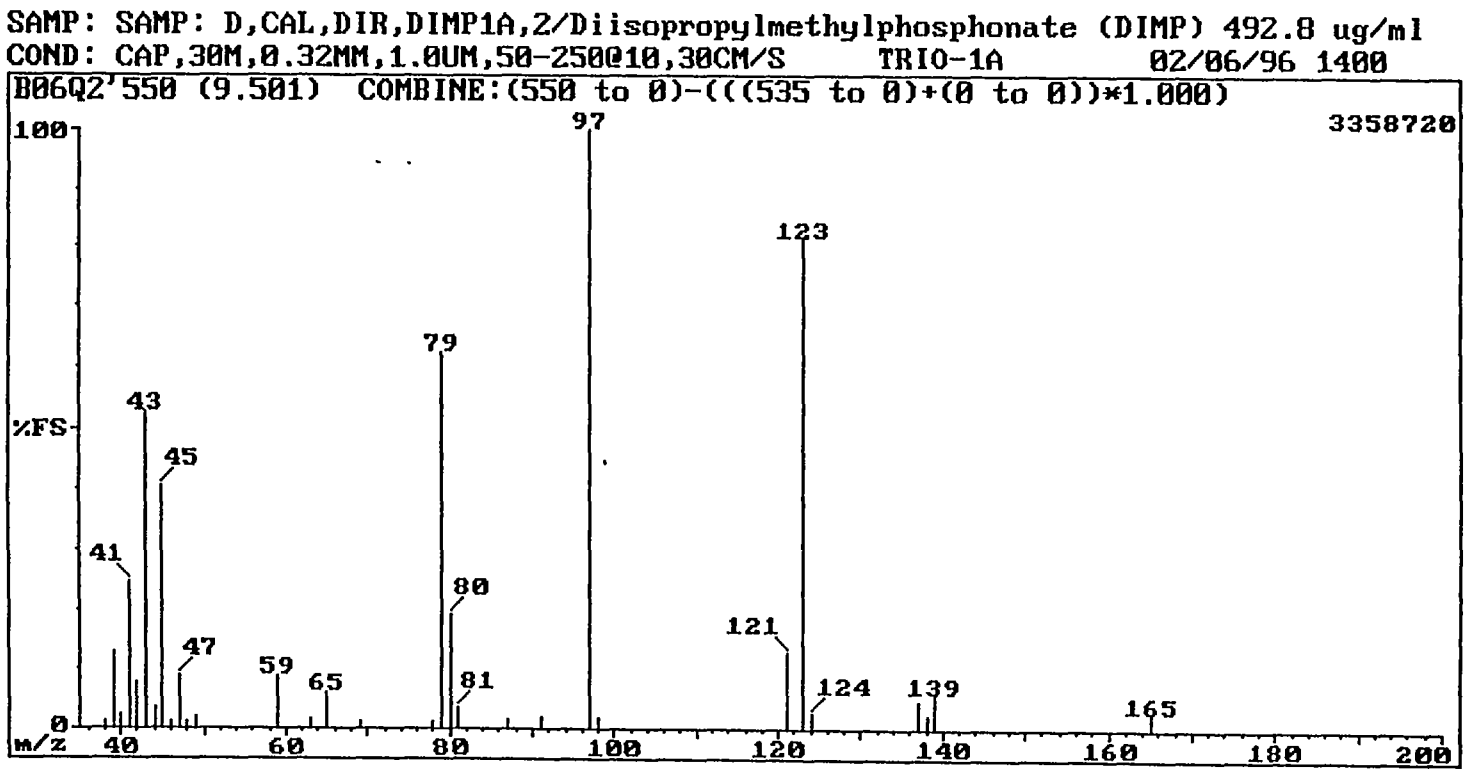
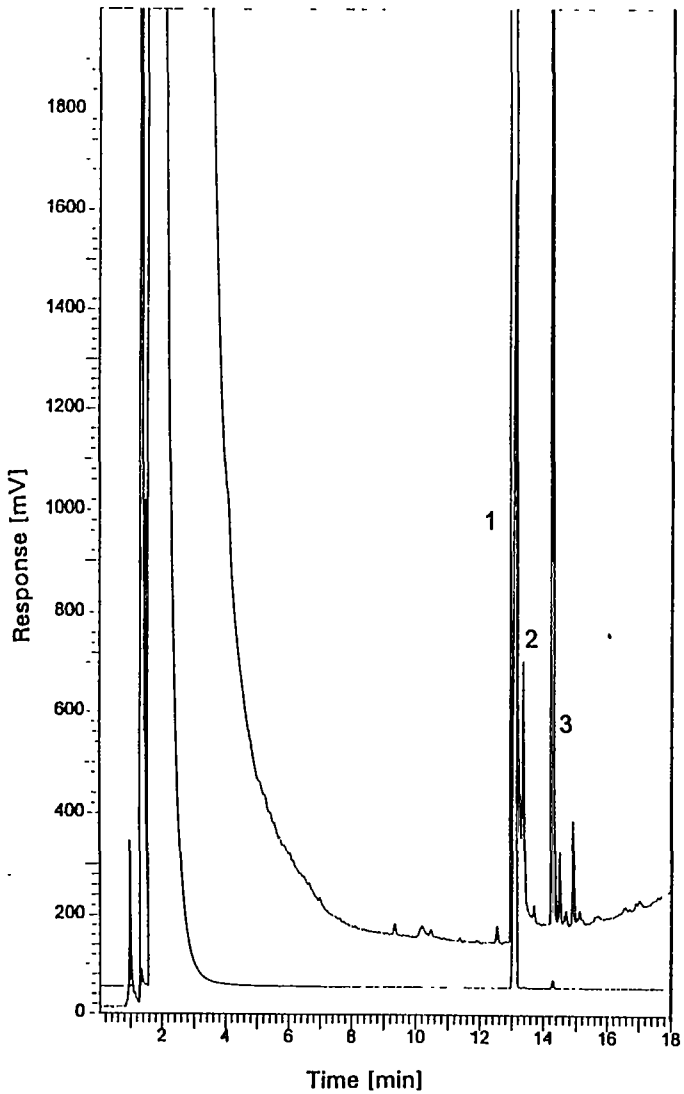


Figure 3. Mass spectrum of diisopropyl methylphosphonate, Batch No. 10009217



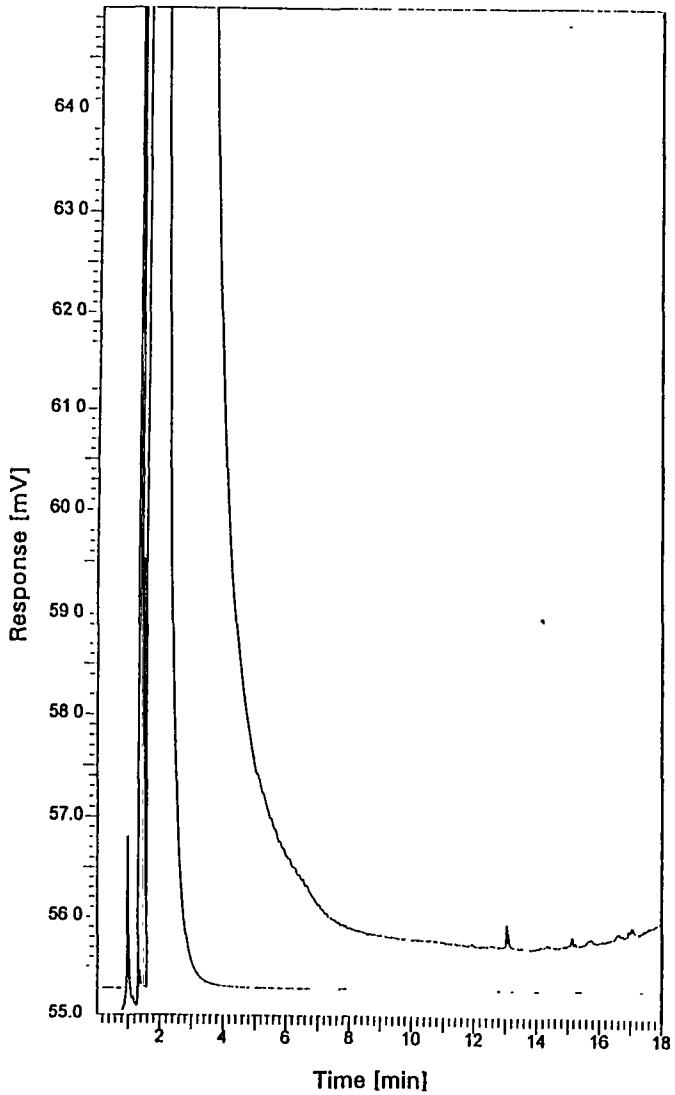
Diisopropyl methylphosphonate (DIMP)
Batch No. 10009217

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB WAX, 30 m x 0.53 mm ID, fused silica, 1.0-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 60°C for 5 min, then to 220°C at 8°C/min, 15-min hold at 220°C
Carrier Gas: Helium, ~ 10 mL/min
Makeup Gas: Nigrogen, ~ 20 mL/min
Volume Injected: 1 μL of an ~ 1% (w/v) solution in methylene chloride

Note: Peaks are numbered to correspond to table of results in report.

Figure 4. Representative chromatogram (profile) of diisopropyl methylphosphonate, Batch No. 10009217, on DB WAX column

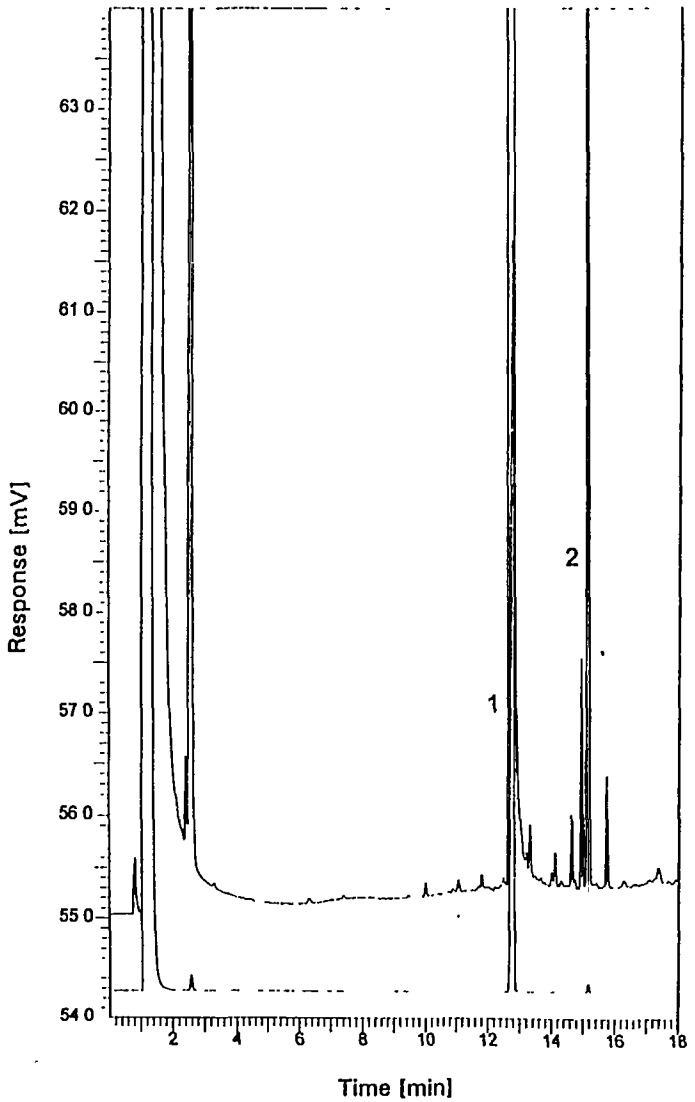


Methylene chloride blank

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB WAX, 30 m x 0.53 mm ID, fused silica, 1.0-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 60°C for 5 min, then to 220°C at 8°C/min, 15-min hold at 220°C
Carrier Gas: Helium, ~ 10 mL/min
Makeup Gas: Nigrogen, ~ 20 mL/min
Volume Injected: 1 μL of methylene chloride

Figure 5. Representative chromatogram (profile) of solvent blank on DB WAX column



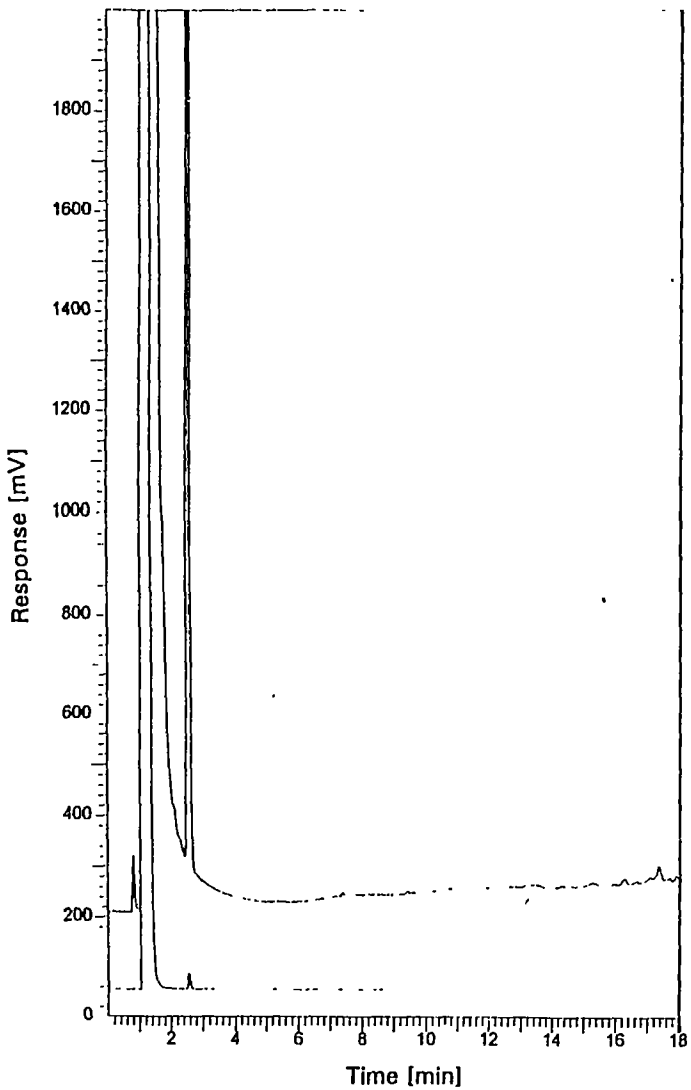
Diisopropyl methylphosphonate (DIMP)
Batch No. 10009217

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB-5, 30 m x 0.53 mm ID, fused silica, 1.5-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 50°C for 5 min, then to 250°C at 8°C/min, 10-min hold at 250°C
Carrier Gas: Helium, ~ 10 mL/min
Makeup Gas: Nigrogen, ~ 20 mL/min
Volume Injected: 1 μL of an ~ 1% (w/v) solution in methylene chloride

Note: Peaks are numbered to correspond to table of results in report.

Figure 6. Representative chromatogram (profile) of diisopropyl methylphosphonate, Batch No. 10009217, on DB-5 column



Methylene chloride blank

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB-5, 30 m x 0.53 mm ID, fused silica, 1.5-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 50°C for 5 min, then to 250°C at 8°C/min, 10-min hold at 250°C
Carrier Gas: Helium, ~ 10 mL/min
Makeup Gas: Nigrogen, ~ 20 mL/min
Volume Injected: 1 μL of methylene chloride

Figure 7. Representative chromatogram (profile) of solvent blank on DB-5 column

MRI REPORT

Characterization of Diisopropyl Methylphosphonate (DIMP)

For Pathology Associates, Inc.
15 Worman's Mill Court, Suite 1
Frederick, MD 21701

MRI Project No. 3876-F(01)
PAI Study No. TP-001

October 16, 1995

MIDWEST RESEARCH INSTITUTE 425 Volker Boulevard, Kansas City, MO 64110-2299 • (816) 753-7600

Project Title:

Characterization of Diisopropyl Methylphosphonate (DIMP)

Data Requirements:

Chemical Characterization

Author:

Linda Siemann

Project Initiated On:

March 28, 1995

Report Date:

October 16, 1995

Performing Laboratory:

Midwest Research Institute
425 Volker Boulevard
Kansas City, Missouri 64110-2299

Laboratory Project ID:

3876-F(01)

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Director
Life Sciences Department

October 16, 1995

Thomas J. Bucci, V.M.D., Ph.D.
Study Director

Date 17 Oct 95

Quality Assurance Statement

Characterization of Diisopropyl Methylphosphonate (DIMP)
MRI Project No. 3876-F(01); PAI Study No. TP-001

This portion of the project was inspected by the Quality Assurance Unit (QAU) of Midwest Research Institute and reports were submitted to MRI management and the Study Director as follows:

Phase	Audit/ inspection date	Study director/ management submittal date
Protocol Review, PAI Study No. TP-001	4/6/95	—
Procedure Review, MRI Project No. 3876-F(01)	4/6/95	—
In-life Audit, Impurity profiling	4/6/95	4/7/95
Protocol Amendment Nos. 1 and 2 Review	10/2/95	—
Procedure Amendment No. 1 Review	10/2/95	—
Data and Report Audit	10/5/95	10/5/95

This report reflects the procedures and raw data generated in this portion of the project. The raw data and report are stored in the MRI Archives.

In addition to the study-specific audits/inspections cited above, inspections of applicable facilities and equipment were performed by the QAU and reports were submitted to management as follows:

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PCA Laboratories	3/9/95	3/9/95
	4/6/95	4/7/95
	9/20/95	9/26/95
GC Facility	3/7/95	3/7/95
	5/31/95	6/2/95
	9/26/95	9/26/95

MIDWEST RESEARCH INSTITUTE

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June O'Connor for
Carlos Castro
Senior Quality Assurance Officer

October 16, 1995

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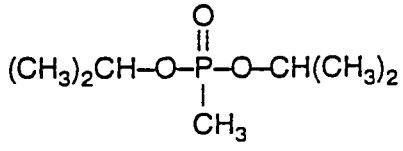
Section 1
Introduction

The purpose of this work was to provide chemical characterization of diisopropyl methylphosphonate (DIMP) in support of a two-generation reproductive study in mink fed diisopropyl methylphosphonate, being performed by Pathology Associates, Inc. (PAI). This characterization consisted of boiling point, density, ultraviolet/visible spectroscopy, Fourier-transform infrared spectroscopy, Fourier-transform nuclear magnetic resonance spectroscopy (proton), gas chromatography/mass spectroscopy, water content, thin layer chromatography, and impurity profiling by gas chromatography.

Analyses were performed on a sample of DIMP submitted by the University of Minnesota at St. Paul, originally obtained from Lancaster Synthesis, Inc. Sample identification in this report corresponds to the designations used by Lancaster Synthesis, Inc., unless otherwise stated. The experimental phase of this portion of the project occurred from March 16, 1995 to June 20, 1995. MRI personnel contributing to the analysis of DIMP were John Cookinham, Duane Stephens, Alva Nichols, Nancy Cameron, Mark Wood, Michael Molloy, and Jon Onstot. Duane Stephens and Michael Kozak contributed to the preparation of this report.

Test substance

Chemical Name	Diisopropyl methylphosphonate
Batch No.	10005098
CAS No.	1445-75-6
Date of Receipt	3/16/95
Molecular Formula	$C_7H_{17}O_3P$
Molecular Weight	180.2
Appearance	Clear, colorless liquid
Structure	



Section 2
Chemical Characterization

This section contains the results for chemical characterization of the test substance. This characterization consisted of the following: determination of physical properties, spectroscopy, analysis for water content, and chromatography.

2.1 Physical Properties

2.1.1 Boiling Point

Method: A small amount of the sample was transferred to a boiling point tube, and a sealed capillary tube was placed upside down in the liquid. The tube was then placed in a Büchi 535 melting/boiling point apparatus programmed at a rate of 1°C/min. The boiling point of DIMP was determined visually for duplicate samples.

Results: The sample had a boiling point of 192.5 ± 0.7(s)°C at 742.44 mm Hg. No literature reference was found.

2.1.2 Density

Method: A clean, empty, 5-mL pycnometer was weighed in triplicate. The pycnometer was filled with ASTM Type I reagent grade water, which had been boiled and cooled to ambient temperature, and the weight was then recorded. A portion of the water was removed, the pycnometer was refilled with water, and the weight was again recorded. This was repeated once more to give triplicate weights for calibrating the pycnometer.

The pycnometer was cleaned, dried, and filled with DIMP, then the weight was recorded. A portion of the DIMP was removed, the pycnometer was refilled with DIMP, and the weight was again recorded. This was repeated once more to give triplicate weights for the density determination.

Results: The density of the test substance was 0.979 ± 0.001(s) g/mL at 21.8°C and a barometric pressure of 742.44 mm Hg. No literature reference was found.

2.2 Spectroscopy

2.2.1 Infrared Spectroscopy

Method: A thin film of the test substance was placed between silver chloride plates, then scanned from 4398.1 to 651 cm^{-1} to obtain the spectrum.

Instrument: The spectrum was obtained for the sample using an Analect RFX-75 FT-IR with the following parameters.

Detector Type: Mercury cadmium telluride (MCT)
Data Range: 4398.1 to 650.0 cm^{-1}
Signal Gain: 1
Default Scans: 64 (background)/64 (sample)
Resolution: 4 cm^{-1}
Phase Correct: 512-point Mertz
Apodization: Norton-Beer (medium)
Speed: 127
Jacquinot: 2 cm^{-1}
Intensity: Normal
Sample Region Configuration: Internal, focused
Sample compartment purged with dry air

Results: The spectrum obtained for the test substance (see Figure 1) was consistent with the structure of DIMP and a literature reference[1].

2.2.2 Ultraviolet/Visible Spectroscopy

Method: Triplicate – 1% (w/v) solutions of DIMP in ethanol (95%) were prepared and scanned from 800 to 200 nm. The baseline was set by using ethanol in the sample and reference beams prior to analysis of the DIMP solutions.

Instrument: Spectra were obtained for the samples using a Beckman DU-64 UV/VIS spectrophotometer with the following parameters.

Mode: Absorbance
Bandwidth: 2.0 nm
Response Time: 0.05 s
Baseline corrected
Ordinate Max: 1.000

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[1]A.E.T. Kuiper et al., "The Role of Heterogeneity in the Kinetics of a Surface Reaction," *Journal of Catalysis* **43**, 159 (1976).

Ordinate Min: 0.000
1-cm quartz cell

Results: No absorbance maxima were observed in the visible region (800 to 350 nm) for any of the 1% solutions. An absorbance maximum was observed in the ultraviolet region (350 to 200 nm) at ~ 274.5 nm, with a calculated ε_{max} of 6.2 ± 0.2(s). No literature reference was found; however, as no absorbance is expected for the test substance, this small absorbance is most likely due to an impurity.

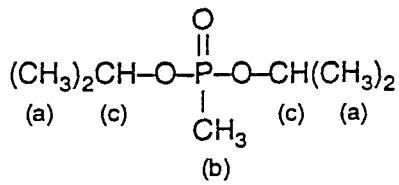
2.2.3 Nuclear Magnetic Resonance Spectroscopy

Method: A portion of DIMP (23.1 mg) was weighed into a tared 2-dram vial and 1 mL of deuterated chloroform was added. A disposable pipet, which had been dipped into tetramethylsilane (internal reference), was dipped in the DIMP solution and the vial was shaken. A solvent blank was prepared in the same manner, omitting the DIMP.

Instrument: Proton spectra of the DIMP solution and the solvent blank were obtained from 0 to 15 ppm with a Varian VXR-300 FT-NMR with VXR-4000 Data System, using the following parameters:

Pulse Sequence: STD1H
Spectral Width: 5998.8
Pulse Width: 11.7
Relaxation Delay: 0
Temperature: 23.0°C
Collected Transients: 128

Results: The spectrum obtained (see Figure 2) was consistent with the structure of DIMP. No literature reference was found. The assignments, multiplicities, and integration for the spectrum are tabulated below. A small singlet peak was observed at ~ 2.1 ppm (trace), apparently due to an impurity.



Assignment (δ, ppm)	Multiplicity	Integration	
		Observed	Theoretical
(a) 1.32	doublet, J_{a-c} = 6.2 Hz	12.05	12
(b) 1.45	doublet, J_{b-P} = 17.4 Hz	2.96	3
(c) 4.70	multiplet	2.00	2

2.2.4 Gas Chromatography/Mass Spectrometry

Method: An ~ 5 mg/mL solution was prepared by weighing 123.6 mg of DIMP directly into a 25-mL volumetric flask, then diluting to volume with methylene chloride. The solution was mixed thoroughly. A 1-mL aliquot was removed from the solution and delivered to a 10-mL volumetric flask, then the contents of the flask were diluted to volume with methylene chloride, and mixed thoroughly, yielding an ~ 0.5 mg/mL solution. Portions of this solution and a solvent blank were transferred to individual autosampler vials, and sealed for analysis by gas chromatography/mass spectrometry.

Instrument and Parameters:

Instrument: FISONS TRIO-1A mass spectrometer interfaced via the analytical column to a Hewlet Packard 5890 gas chromatograph; data were handled by a Lab-Base data system ver. 2.14

Column: DB-5 capillary, 30 m x 0.32 mm ID, fused silica, 1.0-µm film thickness

Oven Temperature Program:
- Initial: 50°C (4-min hold)
- Program Rate: 10°C/min
- Final Temperature: 250°C

Carrier Gas: Helium, 30 mL/min
- Head Pressure: 8 psig

Injection Volume: 2 µL

Parameters:
- Inlet Temperature: 280°C
- Transfer Line Temperature: 250°C
- Source Temperature: 250°C
- Resolution: 1000
- Electron Energy: 70 eV
- Multiplier: 280 V
- Filament Current: 4.1 A
- Scanning Mass Range: 35 to 550 amu
- Mode: Electron impact
- Scanning Speed: 0.6 s/scan

Results: The mass spectrum for the major component is illustrated in Figure 3. The identity of the major component was confirmed as DIMP by a matching library spectrum.[2]

2.3 Water Analysis

Method: An aliquot of the sample (~ 1 mL) was drawn into a 3-mL syringe equipped with an 18-gauge needle. The syringe containing the sample was weighed, then the DIMP was delivered into the titration vessel which contained ~ 30 mL of methanol, which had been conditioned with Karl Fischer reagent, and the syringe was reweighed. The weight of the test substance delivered was obtained by difference. The sample was titrated with standardized Karl Fischer reagent (~ 2 mg/mL titer). The titration was monitored potentiometrically with a double platinum electrode. Triplicate aliquots of DIMP were titrated. Duplicate blanks were titrated by simulating sample delivery.

Instrument: Metrohm 678 EP/KF Processor and Metrohm 665 Dosimat with a 20-mL buret

Calculations:

$$\text{Water content (\%)} = \frac{T \times (S - B) \times 100}{W}$$

where: T = average titer (mg/mL),
S = volume of titrant required for sample (mL),
B = average volume of titrant required for blanks (mL), and
W = weight of sample (mg)

Results: Water content (%) = 0.99 ± 0.01(s)%

2.4 Chromatography

2.4.1 Thin-Layer Chromatography

Method: An ~ 10 µg/µL solution of DIMP in acetone was prepared and spotted on a TLC plate at three levels: ~ 10, 100, and 300 µg (1, 10, and 30 µL of the sample solution). An ~ 10 µg/µL solution of tributyl phosphate (reference

[2] *LabBase NIST Library*, Version 2.14, 62235 entries.

standard) in acetone was prepared and spotted on the same plate at ~ 300 µg (30 µL). Solvent was also spotted on the plate. The plate was placed in the developing chamber and the solvent was allowed to rise. The plate was removed from the developing chamber, and allowed to air-dry. Spots were visualized by examination under 254 nm ultraviolet light, followed by exposure to iodine vapors. Two plates were prepared and developed in two different solvent systems.

Systems:

Plates: Whatman Silica gel 60, F-254, 0.25 mm layer, 20 x 20 cm
Solvent Systems:
1. Methanol (100%)
2. Toluene:Methanol (90:10)

Visualization: Ultraviolet light (254 nm) and iodine vapors

Results:

Solvent System 1: Methanol (100%)

Spot Intensity	R_f	R_{st}	Visualization[a]
Major	0.74	0.97	+[b]
Reference	0.76	—	+

[a]By both 254 nm ultraviolet light and iodine vapors
[b]Indicates spot was detected

Solvent System 2: Toluene:Methanol (90:10)

Spot Intensity	R_f	R_{st}	Visualization[a]
Major	0.24	0.45	+[b]
Reference	0.53	—	+

[a]By both 254 nm ultraviolet light and iodine vapors
[b]Indicates spot was detected

2.4.2 Gas Chromatography

2.4.2.1 System 1

Samples were dissolved in methylene chloride and impurities were determined by gas chromatography with a DB WAX column. Impurities were quantitated as a percent of the major peak.

Reagent: Methylene chloride, Burdick and Jackson, High Purity
Analytical Balance: Mettler AE200, sensitivity ± 0.0001 g
Glassware: All volumetric glassware were Class A tolerances

Instrument System:
- Instrument: Varian 3700 gas chromatograph with Varian 8000 autosampler
- Detection: Flame ionization
- Electronic Integration: ChromPerfect Data System
- Detector Temperature: 250°C
- Inlet Temperature: 200°C
- Injection Mode: Direct
- Carrier Gas: Helium, 10 mL/min
- Makeup Gas: Nitrogen, 30 mL/min
- Column: DB WAX, 30 m x 0.53 mm ID, fused silica, 1.0-µm film thickness
- Oven Temperature Program:
  - Initial Temperature: 60°C (5-min hold)
  - Program Rate: 8°C/min
  - Final Temperature: 220°C (15-min hold)
- Volume Injected: 1 µL

Procedure: Two sample solutions were prepared by weighing 124.3 and 239.8 mg into individual 25-mL volumetric flasks, diluting to volume with methylene chloride, and mixing thoroughly. A portion of each solution, as well as a methylene chloride blank, was transferred to individual autosampler vials for analysis.

Triplicate injections were made from each sample and blank solution, using the instrument and parameters described above. The retention time of DIMP was 10.6 min.

Calculations:

1. For each injection, the individual components were determined as a percent of the major peak area as follows.

$$\text{Percent Area} = \frac{\text{Component peak area} \times 100}{\text{Major peak area}}$$

2. The average percent area for each component was determined for the triplicate injections.

Results: A major peak and two impurity peaks, with areas greater than or equal to 0.1% relative to the major peak area, were observed. No additional impurities were observed up to 20 min after the major peak eluted. The results from this analysis are tabulated below and representative chromatograms are illustrated in Figures 4 and 5.

Peak no.	Retention time (min)	Retention time (relative to major peak)	Percent area (relative to major peak area)
1	10.6	1.00	100
2	10.9	1.03	1.1
3	11.9	1.12	0.6

2.4.2.2 System 2

Samples were dissolved in methylene chloride and impurities were determined by gas chromatography with a DB-5 column. Impurities were quantitated as a percent of the major peak.

Reagent: Methylene chloride, Burdick and Jackson, High Purity
Analytical Balance: Mettler AE200, sensitivity ± 0.0001 g
Glassware: All volumetric glassware were Class A tolerances

Instrument System:
- Instrument: Varian 3700 gas chromatograph with Varian 8000 autosampler
- Detection: Flame ionization
- Electronic Integration: ChromPerfect Data System
- Detector Temperature: 250°C
- Inlet Temperature: 200°C
- Injection Mode: Direct
- Carrier Gas: Helium, 10 mL/min
- Makeup Gas: Nitrogen, 25 mL/min
- Column: DB-5, 30 m x 0.53 mm ID, fused silica, 1.0-µm film thickness
- Oven Temperature Program:
  - Initial Temperature: 50°C (5-min hold)
  - Program Rate: 8°C/min
  - Final Temperature: 250°C (10-min hold)
- Volume Injected: 1 µL

Procedure: Two sample solutions were prepared by weighing 136.6 and 246.7 mg into individual 25-mL volumetric flasks, diluting to volume with methylene chloride, and mixing thoroughly. A portion of each solution, as well as a methylene chloride blank, was transferred to individual autosampler vials for analysis.

Triplicate injections were made from each sample and blank solution, using the instrument and parameters described above. The retention time of DIMP was 11.8 min.

Calculations:

1. For each injection, the individual components were determined as a percent of the major peak area as follows.

$$\text{Percent Area} = \frac{\text{Component peak area} \times 100}{\text{Major peak area}}$$

2. The average percent area for each component was determined for the triplicate injections.

Results: A major peak and two impurity peaks, with areas greater than or equal to 0.1% relative to the major peak area, were observed. No additional impurities were observed up to 20 min after the major peak eluted. The results from this analysis are tabulated below, and representative chromatograms are illustrated in Figures 6 and 7.

Peak no.	Retention time (min)	Retention time (relative to major peak)	Percent area (relative to major peak area)
1	11.8	1.00	100
2	14.0	1.19	1.3
3	14.3	1.21	0.6

2.5 Summary and Discussion

The determined boiling point and density were 192.5 ± 0.7(s)°C and 0.979 ± 0.001(s) g/mL, respectively, at 742.44 mm Hg. Results obtained by spectroscopic analyses verified the identity of the sample as DIMP. Water content was determined to be 0.99 ± 0.01(s)%. Chromatographic analyses indicated two impurities of ~ 1.3% and ~ 0.6% relative to the major component. Based on the results of the analyses, the test substance was identified as DIMP, with a purity of 97.1%.

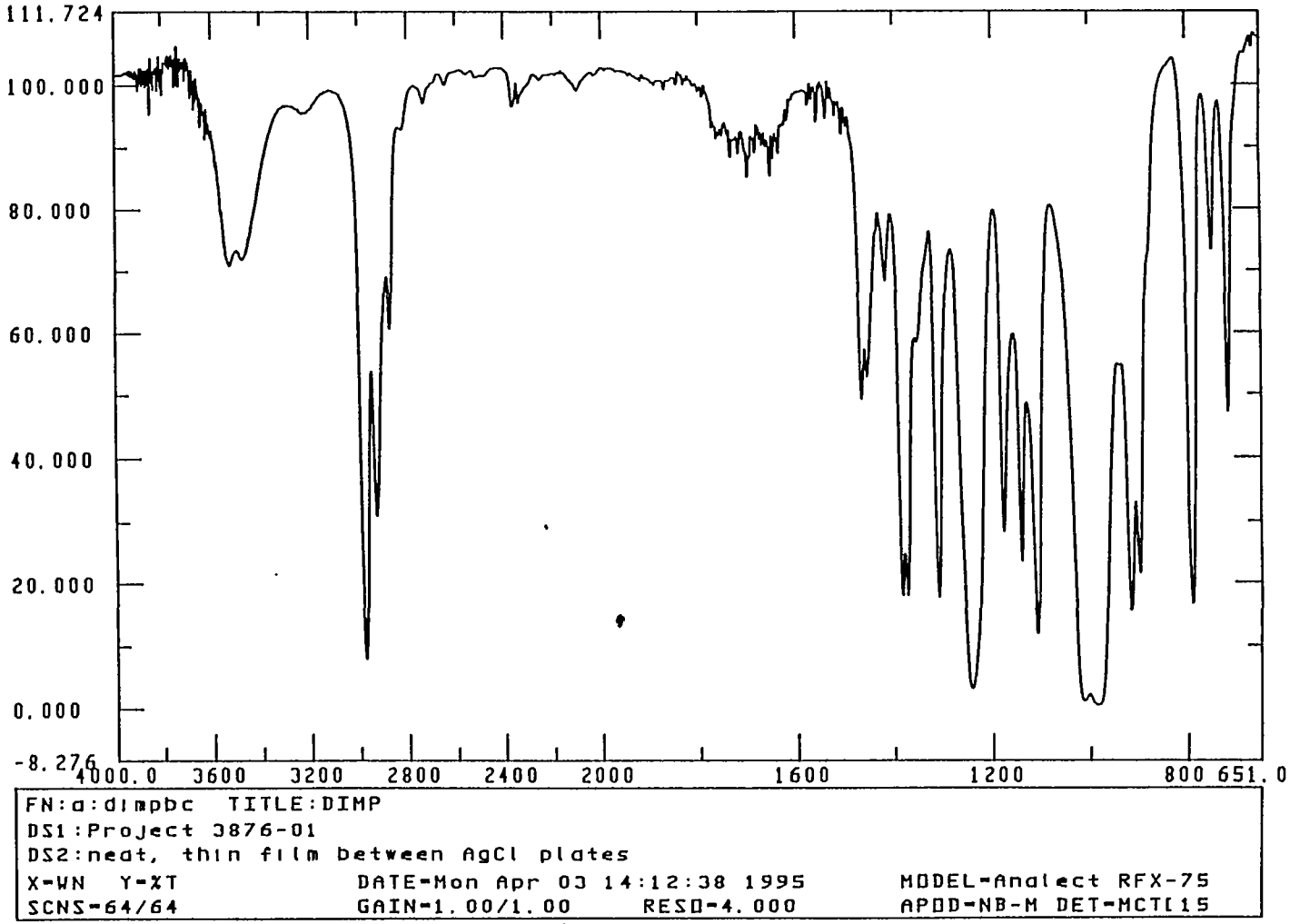


Figure 1. Infrared spectrum of diisopropyl methylphosphonate, Batch No. 10005098

Diisopropyl methylphosphonate (DIMP)
Batch No. 10005098

Instrument: Varian VXR-300 FT-NMR
Solvent. Deuterated chloroform
Internal Reference: Tetramethylsilane

Assignment (δ, ppm)	Multiplicity	Integration	
		Observed	Theoretical
(a) 1.32	doublet, $J_{a\text{-}c}$ = 6.2 Hz	12.05	12
(b) 1.45	doublet, $J_{b\text{-}P}$ = 17.4 Hz	2.96	3
(c) 4.70	multiplet	2.00	2

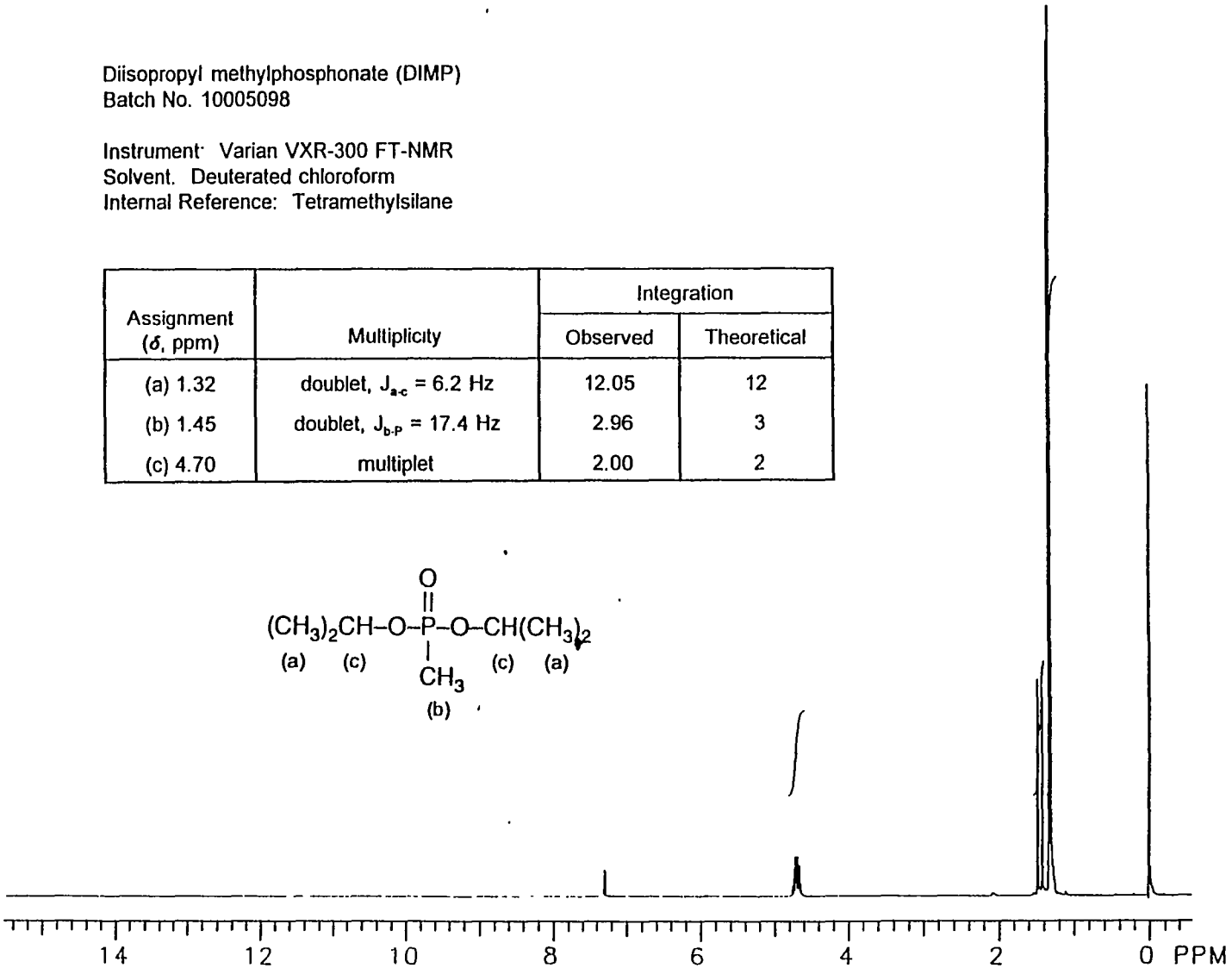


Figure 2. Nuclear magnetic resonance spectrum of diisopropyl methylphosphonate, Batch No. 10005098

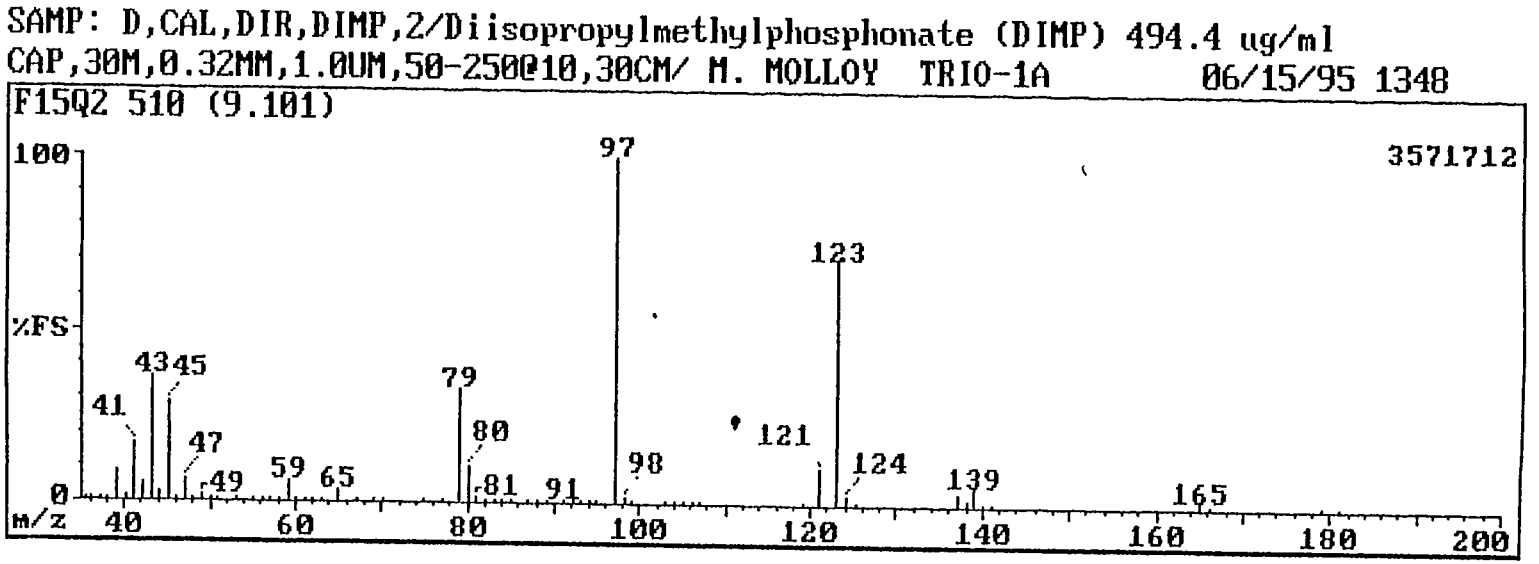
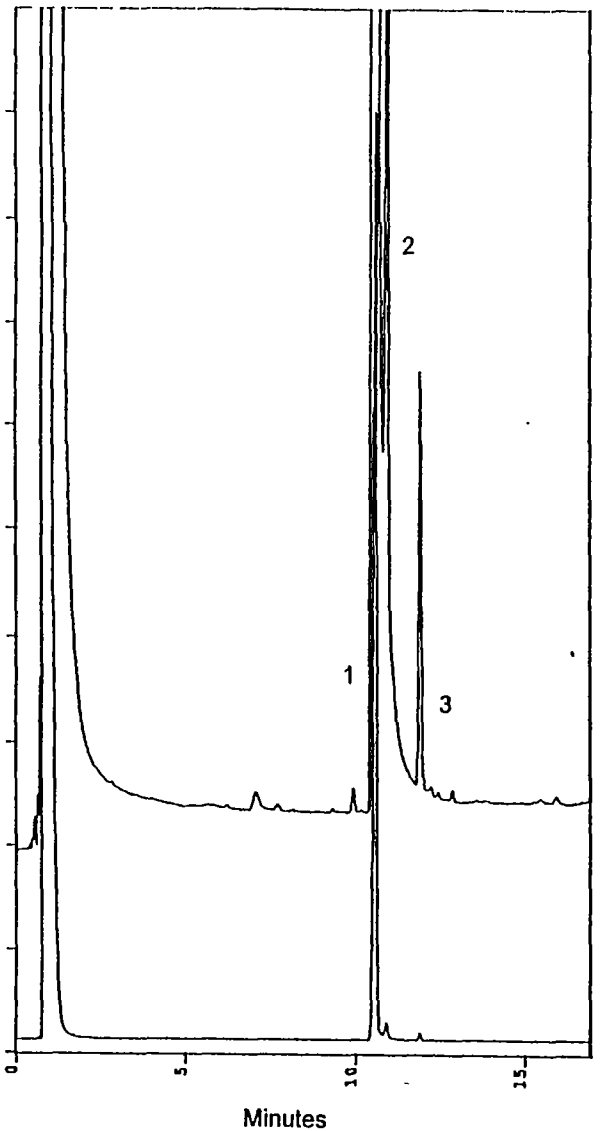


Figure 3. Mass spectrum of diisopropyl methylphosphonate, Batch No. 10005098



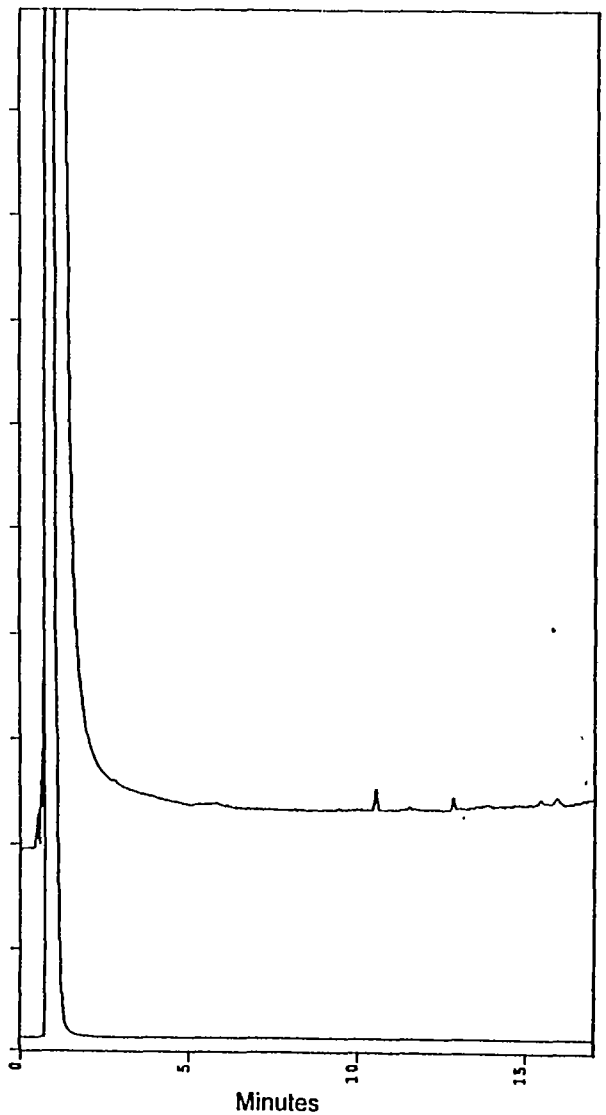
Diisopropyl methylphosphonate (DIMP)
Batch No. 10005098

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB WAX, 30 m x 0 53 mm ID, fused silica, 0.1-μm film thickness
Temperatures:
Inlet: 200°C
Detector. 250°C
Oven: 60°C for 5 min, then to 220°C at 8°C/min, 15-min hold at 220°C
Carrier Gas: Helium, 10 mL/min
Makeup Gas: Nitrogen, 30 mL/min
Volume Injected: 1 μL of an ~ 1% (w/v) solution in methylene chloride

Note: Peaks are numbered to correspond to table of results in report.

Figure 4. Representative chromatogram (profile) of diisopropyl methylphosphonate, Batch No. 10005098, on DB WAX column

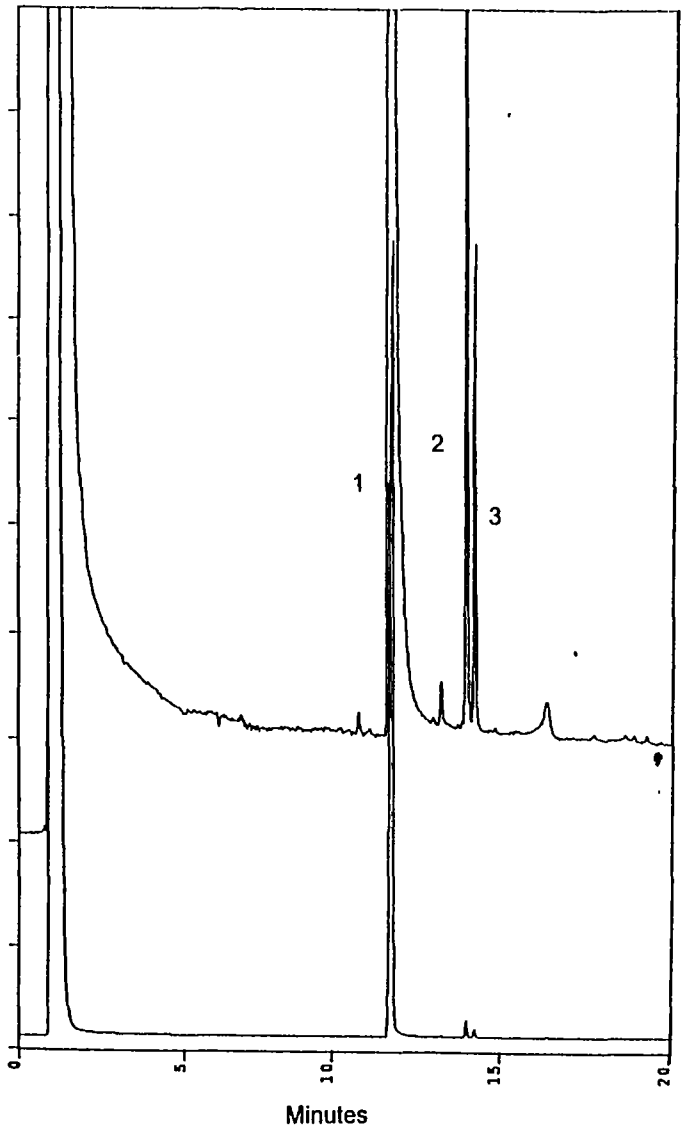


Methylene chloride blank

Instrument and Parameters

Instrument. Varian 3700 Gas Chromatograph
Column: DB WAX, 30 m x 0.53 mm ID, fused silica, 0.1-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 60°C for 5 min, then to 220°C at 8°C/min, 15-min hold at 220°C
Carrier Gas: Helium, 10 mL/min
Makeup Gas: Nitrogen, 30 mL/min
Volume Injected: 1 μL of methylene chloride

Figure 5. Representative chromatogram (profile) of solvent blank on DB WAX column



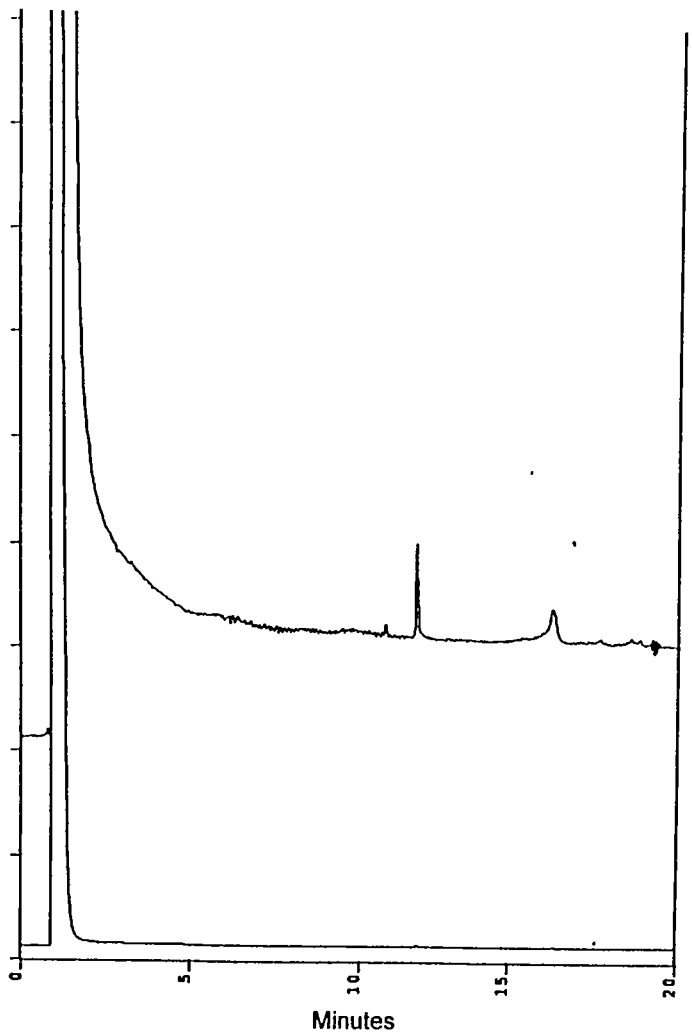
Diisopropyl methylphosphonate (DIMP)
Batch No. 10005098

Instrument and Parameters

Instrument Varian 3700 Gas Chromatograph
Column: DB-5, 30 m x 0.53 mm ID, fused silica, 0.1-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 50°C for 5 min, then to 250°C at 8°C/min, 10-min hold at 250°C
Carrier Gas: Helium, 10 mL/min
Makeup Gas: Nitrogen, 25 mL/min
Volume Injected: 1 μL of an ~ 1% (w/v) solution in methylene chloride

Note: Peaks are numbered to correspond to table of results in report.

Figure 6. Representative chromatogram (profile) of diisopropyl methylphosphonate, Batch No. 10005098, on DB-5 column



Methylene chloride blank

Instrument and Parameters

Instrument: Varian 3700 Gas Chromatograph
Column: DB-5, 30 m x 0.53 mm ID, fused silica, 0.1-μm film thickness
Temperatures:
Inlet: 200°C
Detector: 250°C
Oven: 50°C for 5 min, then to 250°C at 8°C/min, 10-min hold at 250°C
Carrier Gas: Helium, 10 mL/min
Makeup Gas: Nitrogen, 25 mL/min
Volume Injected: 1 μL of methylene chloride

Figure 7. Representative chromatogram (profile) of solvent blank on DB-5 column

APPENDIX 1B Feed Analysis: Nutrients and Contaminants (Corning-Hazleton)

Corning Hazleton Inc.
P.O. Box 7545
Madison, WI 53707-7545
Deliveries: 3301 Kinsman Blvd.
Madison, WI 53704
608.241.4471
608.241.7227 Fax

CORNING Hazleton

Sponsor:

Pathology Associates International
Frederick, MD

Performing Laboratory:

Pathology Associates International
Frederick, MD

FINAL DIET ANALYSIS REPORT

Study Title:

Two-Generation Reproductive Study in Mink Fed
Diisopropyl Methylphosphonate (DIMP)

Author:

Joseph M. Polywacz

Study Completion Date:

December 10, 1996

Analytical Subcontracting Laboratory:

Corning Hazleton Wisconsin
3301 Kinsman Boulevard
Madison, Wisconsin 53704

Laboratory Project Identification:

CHW 6690-100

COMPLIANCE STATEMENT

Corning Hazleton Wisconsin's analytical portion of this study was carried out in accordance with the United States Environmental Protection Agency Good Laboratory Practices Standards, 40 CFR 792, except that the reference substances used for analytical standards were not characterized according to the guidelines.

Joseph M. Polywacz
Project Director
Corning Hazleton Wisconsin

12-10-96
Date

QUALITY ASSURANCE STATEMENT

This report has been reviewed by the Quality Assurance Unit of Corning Hazleton Inc., in accordance with the Environmental Protection Agency (EPA) Good Laboratory Practice Standards, 40 CFR 160. The following inspections were conducted and findings reported to the Study Director and Study Director management. In addition, written status reports of inspections and findings are issued to Corning Hazleton management according to standard operating procedures.

Inspection Dates From	To	Phase	Date Reported to Study Director	Date Reported to Management
01/30/96	01/31/96	Analytical Chemistry	02/07/96	02/07/96
01/30/96	01/31/96	Analytical Chemistry	02/07/96	02/07/96
10/16/96	10/17/96	Data Review	12/04/96	12/04/96
10/16/96	10/17/96	Report Review	12/04/96	12/04/96
12/04/96	12/04/96	Report Rereview	12/04/96	12/04/96

Representative, Quality Assurance Unit

12-10-96
Date

STUDY IDENTIFICATION

Test Material	Control Diet
Sponsor	Pathology Associates International Frederick, MD 21707
Study Director	Thomas J. Bucci, VMD, PhD Pathology Associates International Frederick, MD 21707
CHW Project Director	Joseph M. Polywacz Corning Hazleton Wisconsin P.O. Box 7545 Madison, WI 53707
Study Location	Corning Hazleton Wisconsin 3301 Kinsman Boulevard Madison, WI 53704
Study Timetable	
Study Initiation Date	February 16, 1995
Experimental Start Date	January 12, 1995
Experimental End Date	January 31, 1997
Sample Analysis Timetable	
Analytical Start Date	January 24, 1996
Analytical End Date	July 26, 1996

KEY PERSONNEL

Joseph M. Polywacz
Project Director

David Levin
Supervisor
Vitamin Chemistry

Eric Maly
Supervisor
Proximate Analysis

Mary Kay Krogull
Manager
Evening Shift

James Wehrmann
Associate Director
Food and Drug Analysis

Robert Allen
Supervisor
Inorganic Analysis

James Keller
Supervisor
Food Safety

Sherry Petsel
Manager
Quality Assurance

OBJECTIVE

The purpose of this study was to analyze mink diet for macro and micronutrients, and for pesticides, fungicides, mycotoxins and other contaminants.

TEST MATERIAL

The test material (test samples) were mink feed received from Evelyn Townsend, University of Minnesota, 1971 Commonwealth Ave., St. Paul, MN on January 18, 1996. Four samples were received. The samples were described as follows:

- 1/Aug/95 Control 2 Tray 5, assigned CHW number 60102954
- 26/May/95 Control 2 Tray 10, assigned CHW number 60102955
- 23/May/95 150 ppm Tray 6, assigned CHW number 60102956
- 26/May/95 2500 ppm Tray 11, assigned CHW number 60102957

Samples were received frozen and stored in a freezer set to maintain -20°C ±10°C until homogenization. Each sample was homogenized by adding liquid nitrogen to the sample and then grinding the sample. After homogenization, the samples were stored in a freezer set to maintain -70°C ±10°C until analysis.

Analysis of all four samples was started for most of the tests, but according to directions later received from the study director, only the sample assigned CHW number 60102954 was to be tested. Only test results from that sample are reported.

Reserve samples were not taken by Corning Hazleton Wisconsin.

TEST SYSTEM

Because this is the analytical portion of a study in which control diet was analyzed, a description of a test system is not applicable.

PROCEDURES

The following assays were performed on CHW sample number 60102954:

Protein, CHW method PGEN
Moisture, CHW method M100
Fat, CHW method FAAH
Ash, CHW method ASHM
Crude Fiber, CHW method CFIB
Free Fatty Acids, CHW method FFA2

Peroxide Value, CHW method PVFF
Vitamin E, CHW method LCE2
Arsenic, CHW method ASA
Cadmium, CHW method CDA
Lead, CHW method PBHL
Mercury, CHW method HGAS
Aflatoxins, CHW method AHMF
General Pesticide Screen, CHW method M304
Standard Plate Count, CHW method SPCM

The test methods are on file at Corning Hazleton Wisconsin.

RESULTS

The results of analysis of the sample are in Table 1. Because of chromatographic interference from the sample no results for the organonitrogen portion of the General Pesticide Screen could be reported.

STATISTICAL ANALYSIS

No statistical analysis of the data was performed.

MAINTENANCE OF RAW DATA, RECORDS, AND SPECIMENS

Original paper data, magnetically encoded records, specimens, and a copy of the final report will be retained in the archives of Corning Hazleton Wisconsin.

PROTOCOL DEVIATIONS

The protocol stated that samples would be stored at -20°C, but after homogenization using liquid nitrogen, the samples were stored at -70°C. This had no significant impact on the study.

SIGNATURES

Joseph M. Polywacz
Project Manager

12-10-96
Date

James Wehrmann
Associate Director
Food and Drug Analysis

12-10-96
Date

Table 1

Results of Analysis of CHW Sample Number 60102954

Assay	Result
Protein	Assay 1 14.9% Assay 2 15.2%
Moisture	Assay 1 62.6% Assay 2 62.8%
Fat	8.4%
Ash	3.1%
Crude Fiber	Assay 1 0.8% Assay 2 0.7%
Free Fatty Acids	1.11% calculated as Oleic acid on a sample basis
Peroxide Value	Assay 1 1.38% on a lipid basis Assay 2 1.72% on a lipid basis
Vitamin E	Assay 1 55.8 IU/kg Assay 2 51.6 IU/kg Assay 3 48.2 IU/kg
Arsenic	Assay 1 0.16 parts per million Assay 2 0.15 parts per million
Cadmium	Assay 1 0.04 parts per million Assay 2 <0.04 parts per million
Lead	0.14 parts per million
Mercury	<0.025 parts per million
Aflatoxins	
B1	<1.0 parts per billion
B2	<1.0 parts per billion
G1	<1.0 parts per billion
G2	<1.0 parts per billion

Table 1 (Continued)

General Pesticide Screen	
Organophosphates	<50 parts per billion
Organochlorinateds	<200 parts per billion
n-Methyl Carbamates	<100 parts per billion
Standard Plate Count	86,000,000 cfu/g

APPENDIX 1C.1. Water Analysis (St. Paul Water Utility)

SAINT PAUL WATER UTILITY

PHYSICAL AND CHEMICAL ANALYSIS OF WATER

No.: 2648 Plant Effluent February, 1996

All results are in parts per million

Temperature C	4	Ammonia Nitrogen	0.990	Arsenic-As	<.001
Odor (at 60 C)	0	Nitrate, Nitrite N	0.460	Iron-Fe	<.06
Turbidity	0.06	Total Kjeldahl N	0.990	Aluminum-Al	0.034
Color	5	Total Dissolved Solids	144	Chloride-Cl	22.5
Alkalinity-Total	62	Loss Ignition	76	Calcium-Ca	24.1
Alkalinity-phenolphthalein	1	Non-Volatile Salts	68	Magnesium-Mg	9.0
Hydrogen Ion-pH	8.3	Silicon-Si	7.0	Sulfur-S	6.9
Dissolved Oxygen	10.2	Flouride-F	1.2	Carbonate Hardness (CaCO3)	62
Residual Chlorine	3.1	Manganese-Mn	<.02		
Total Phosphorus-P	0.018	Lead-Pb	<.001	Non-Carbonate Hardness	35
Copper-Cu	<.03	Zinc-Zn	0.01		
Cadmium-Cd	<.001	Sodium-Na	7.4	Total Hardness	97

J. Wicklund Jr.
Analyst

C.E. Westerberg
Water Treatment Supervisor

APPENDIX 1C.2. Water Analysis (SERCO)

LABORATORY ANALYSIS REPORT NO.: 9606001934

SERCO Laboratories

1931 West County Road C2, St. Paul Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

6/28/96

U. of Mn.- Animal Facilities
460 VTH 1365 Gartner Ave.
St Paul, MN 55108

Site ID: Toxicity Trial-Mink
Purchase Order #: 673-31000000

ATTN.: Les Westendorp

SERCO Project ID:

Client Sample ID: #1 Room 345L
Lab Sample ID: 96006958 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials	Date:	Prep Date:
Arsenic	EPA 206.2	ND	0.07	mg/L	TAA	6/24/96	------
Barium	EPA 208.1	ND	0.5	mg/L	CWG	6/25/96	------
Cadmium	EPA 213.2	ND	0.0003	mg/L	TAA	6/25/96	------
Chromium	EPA 218.2	ND	0.004	mg/L	TAA	6/20/96	------
Lead	EPA 239.2	ND	0.002	mg/L	TAA	6/20/96	------
Mercury	EPA 245.1	ND	0.0002	mg/L	CWG	6/18/96	------
Selenium	EPA 270.2	ND	0.005	mg/L	TAA	6/25/96	------
Silver	EPA 272.2	ND	0.0005	mg/L	TAA	6/24/96	------

Client Sample ID: #2 Room 136
Lab Sample ID: 96006959 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials	Date:	Prep Date:
Arsenic	EPA 206.2	ND	0.07	mg/L	TAA	6/24/96	------
Barium	EPA 208.1	ND	0.5	mg/L	CWG	6/25/96	------
Cadmium	EPA 213.2	ND	0.0003	mg/L	TAA	6/25/96	------
Chromium	EPA 218.2	ND	0.004	mg/L	TAA	6/20/96	------
Lead	EPA 239.2	ND	0.002	mg/L	TAA	6/20/96	------
Mercury	EPA 245.1	0.0002	0.0002	mg/L	CWG	6/18/96	------
Selenium	EPA 270.2	ND	0.005	mg/L	TAA	6/25/96	------
Silver	EPA 272.2	ND	0.0005	mg/L	TAA	6/24/96	------

Client Sample ID: #3 345L
Lab Sample ID: 96006960 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials	Date:	Prep Date:
Total Coliform	Colilert	Absent			TAA	6/13/96	------

ND means "not detected at the listed detection level". 1 mg = 1000 ug. 1 mg/L = 1 ppm 1ug/L = 1ppb.

LABORATORY ANALYSIS REPORT NO.: 9606001934

SERCO Laboratories

1441 West County Road C2 St. Paul, Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

6/28/96

U. of Mn.- Animal Facilities
460 VTH 1365 Gartner Ave.
St Paul, MN 55108

Site ID: Toxicity Trial-Mink

Purchase Order #: 673-31000000

ATTN.: Les Westendorp

SERCO Project ID:

Client Sample ID: #4 345L
Lab Sample ID: 96006961 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials Date:	Prep Date:
Fecal Coliforms	SM 9222D	1	1	cfu/100ml	CWG 6/17/96	------

Client Sample ID: #5 136
Lab Sample ID: 96006962 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials Date:	Prep Date:
Total Coliform	Colilert	Absent			TAA 6/13/96	------

Client Sample ID: #6 136
Lab Sample ID: 96006963 Matrix: Water

Parameter:	Method:	Result:	Detection Limit:	Unit:	Analysis Initials Date:	Prep Date:
Fecal Coliforms	SM 9222D	1	1	cfu/100ml	CWG 6/17/96	------

ND means "not detected at the listed detection level". 1 mg = 1000 ug. 1 mg/L = 1 ppm. 1ug/L = 1ppb

LABORATORY ANALYSIS REPORT NO.: 9606001934

SERCO Laboratories

1[illegible] West County Road C2, St. Paul, Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

6/28/96

U. of Mn.- Animal Facilities
460 VTH 1365 Gartner Ave.
St Paul, MN 55108

Site ID: Toxicity Trial-Mink
Purchase Order #: 673-31000000

ATTN.: Les Westendorp

SERCO Project ID:

ORDER INFORMATION

Delivery Method:	Chain of Custody:	Tight Caps:	Containers Intact:	Samples on Ice:	Sufficient Volume:	VOCs - Free of Headspace:	Date Collected:	Date Received:	Collected By:
Walk In	Yes	Yes	Yes	Yes	Yes	Yes	6/12/96	6/13/96	Client

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature may be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,
SERCO Laboratories

Diane J. Anderson

Diane J. Anderson, Project Manager, Ext.: 106

ND means "not detected at the listed detection level". 1 mg = 1000 ug 1 mg/L = 1 ppm. 1ug/L = 1ppb.

SERCO Laboratories

St. Paul, Minnesota

1931 West County Road C2
St. Paul, Minnesota 55113
Phone: (612) 636-7173 FAX (612) 636-7178

July 21, 1997

Mr. Les Westendorp
U of M Animals Facilities
460 VTH
1365 Gartner Ave.
St Paul, MN 55108

Dear Mr. Westendorp,

This letter is to clarify the Fecal Coliform results on SERCO Laboratories report 9606001934. I have reviewed the original data for these analyses and found that the "Less Than" symbol (<) was not recognized by our computer when printing this report.

The results for both #4-345L (96006961) and #6-136 (96006963) should have been <1 Colony Forming Unit per 100 mL of sample.

I apologize for any inconvenience this may have caused. Please consider this an addendum to report 9606001934 as that report cannot be revised to reflect the correction.

Sincerely,
SERCO Laboratories

Diane J. Anderson
Project Manager

When Quality and Service Count

APPENDIX 1D Dose Formulation: Dose Verification, Homogeneity of Mix, Stability (MRI)

MRI REPORT

Dose Analysis of Diisopropyl Methylphosphonate (DIMP) in Mink Feed

Final Report

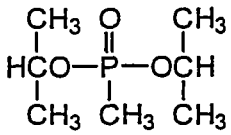
For Pathology Associates International
15 Worman's Mill Court, Suite 1
Frederick, Maryland 21701

MRI Project No. 3876-F(02)

February 28, 1997

TEST SUBSTANCE: DIISOPROPYL METHYLPHOSPHONATE (DIMP)

Structure



Molecular Formula	$C_7H_{17}O_3P$
Molecular Weight	180.21
CAS No.	1445-75-6

Submitter	Pathology Associates International
Supplier	University of Minnesota
Batch No.	10005098
MRI Receipt Date	3/16/95

Project Title:

Dose Analysis of Diisopropyl Methylphosphonate
(DIMP) in Mink Feed

Data Requirements:

Environmental Protection Agency
Toxic Substances Control Act
Good Laboratory Practice Standards
(40 *CFR* 792)

Author:

Roger K. Harris, Ph.D.
Principal Analytical Investigator

Project Initiated On:

March 28, 1995

Project Completed On:

February 28, 1997

Performing Laboratory:

Midwest Research Institute
425 Volker Boulevard
Kansas City, Missouri 64110-2299

Laboratory Project ID:

3876-F(02)

Preface

This report contains the results of analyses for diisopropyl methylphosphonate (DIMP) in dosed mink feed samples submitted by the University of Minnesota (UMinn). The samples were analyzed at Midwest Research Institute (MRI) by gas chromatography (GC) with Flame Photometric Detection (FPD) and the concentration of DIMP is reported as a percentage of the theoretical concentration.

This work was performed in support of a two-generation reproductive study conducted at the University of Minnesota College of Veterinary Medicine for Pathology Associates International (PAI). The PAI Study Number is TP-001. All work at MRI was performed in accordance with applicable Good Laboratory Practice Standards of the Environmental Protection Agency - Toxic Substances Control Act (40 *CFR* 792).

Ms. Kellie Fisher, Ms. Karen Johnson, Mr. Amir Kazerani, Mr. Peter Meeks, Mr. Joe Morton, and Mr. Bob Pryor contributed to the analysis of DIMP in mink feed. Mr. Jim Greaves and Ms. Debbie Alexander contributed to generation of the report and data review.

MIDWEST RESEARCH INSTITUTE

Roger K. Harris

Roger K. Harris, Ph.D.
Senior Program Manager
Principal Analytical Investigator

Approved:

Richard D. Brown

Richard D. Brown, Manager
Product Chemistry and
Analysis Section

Bert W. Maidment, Ph.D.
Director
Life Sciences Department

February 28, 1997

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Quality Assurance Statement

Dose Analysis of Diisopropyl Methylphosphonate (DIMP) in Mink Feed
MRI Project No. 3876-F(02)

This project work was inspected by the Quality Assurance Unit (QAU) of Midwest Research Institute and reports were submitted to the Principal Analytical Investigator, the off-site Study Director (PAI), and MRI management as follows:

Phase	Audit/ inspection date	Study director/ management submittal date
MRI Procedure Audit	1/31/97	1/31/97
MRI Procedure Amendment No. 1 Audit	1/31/97	1/31/97
Data Audit/Report Review	1/31/97	1/31/97

This report reflects the procedures and raw data generated in this project. The raw data and report are stored in the MRI Archives.

MIDWEST RESEARCH INSTITUTE

Carlos Castro
Senior Quality Assurance Officer

Approved:

Eugene G. Podrebarac, Ph.D.
Manager
Quality Assurance

February 28, 1997

Executive Summary

This report contains the results of analyses of diisopropyl methylphosphonate (DIMP) in mink feed by gas chromatography (GC). Nine sets of samples of mink feed were submitted for dose verification by the University of Minnesota (UMinn) College of Veterinary Medicine. The samples were labeled as being prepared during the period from 2/15/95 to 7/14/95. This work was performed in support of a toxicology study (Study No. TP-001) conducted by UMinn for Pathology Associates, International (PAI).

The samples were analyzed using an analytical method previously validated by MRI (see "Method Performance Evaluation of DIMP in Mink Feed," MRI Project No. 9854-F, January 21,1992). The overall performance of the method during these analyses was monitored by the recovery of DIMP from spiked feed samples prepared at the appropriate dose level. Recoveries for these matrix spikes were >66.7%

The nine sets of samples analyzed averaged 108.3, 106.7, and 108.8% of their labeled concentrations at 150, 450, and 2500 ppm, respectively, with relative standard deviations of ≤6.7%. These results are based on the composite data from the accumulated regression analyses for the standard curves and are corrected for spike recovery. DIMP was not detected in any of the control feeds that were analyzed.

Section 1
Introduction

The purpose of this analysis was to support a two-generation reproductive toxicology study for mink, being performed by Pathology Associates International (PAI). Dose mink rations were analyzed for diisopropyl methylphosphonate (DIMP) content at three target dose levels (i.e., ~150, 450, and 2,500 ppm) in feed. MRI utilized an analytical method previously validated and reported for MRI Project No. 9854-F (January 21, 1992).

This report describes the quantitation of DIMP in dosed mink feed samples submitted by the University of Minnesota College of Veterinary Medicine for the second generation mink study conducted by PAI. Concentrations of DIMP in the mink rations were determined using gas chromatography (GC), and are reported as a percentage of the labeled concentrations.

Test Substance

Chemical Name:	Methanephosphonic acid diisopropyl ester
Common Name:	Diisopropyl methyphosphonate (DIMP)
Molecular Formula:	$C_7H_{17}O_3P$
Molecular Weight:	180.21
CAS No.:	1445-75-6
Submitter:	Pathology Associates International
Supplier:	University of Minnesota
Batch No.:	10005098
Receipt Date:	March 16, 1995

The chemical received and utilized as an analytical standard for quantification of the test substance in dosed mink rations for this project was submitted by the University of Minnesota. The chemical (Batch No. 10005098) was provided to the University of Minnesota by Lancaster Synthesis, Inc. Upon receipt, and throughout the project the chemical was stored at room temperature.

Section 2
Sample Information

2.1 Sample Receipt Information

Two hundred seventy one dosed feed samples, in pop-top metal cans, were received in nine sets from March 15 through July 26, 1995. An additional quantity of undosed control feed was received for verification of the absence of DIMP and for use in preparation of spiked feed standards. Each set consisted of 10 to 11 samples from each of the 150, 450, and 2,500 ppm dose levels. The samples were labeled with the mixing date and a tray number ranging from 1 through 15. Twenty control group samples were submitted for analysis in two groups (labeled Control Diet A and B or Control 1 and 2) from trays numbered 1 through 14. The tables below show the mixing date and tray numbers for each set of samples. The samples were frozen upon receipt and were stored at ~ -20°C until analyzed. The frozen dose feed samples were allowed to thaw to ambient conditions prior to analysis.

Sample Label Information

150 ppm level

Date Mixed	Tray Numbers	Number of Samples
2-15-95	1-10	10
3-01-95	1-10	10
4-05-95	1-10	10
4-18-95	1-10	10
5-23-95	1-10	10
6-06-95	1-10	10
6-13-95	1-3,6-9,12-14	10
6-27-95	1-3,6-9,13-15	10
7-11-95	1-10	10
	Total number of samples at this level:	90

450 ppm level

Mixing Date	Tray Numbers	Number of Samples
2-16-95	1-10	10
3-02-95	1-11	11
4-06-95	1-10	10
4-19-95	1-10	10
5-25-95	1-10	10
6-07-95	1-10	10
6-14-95	1-3,6-9,12-14	10
6-28-95	1-3,6-9,12-14	10
7-12-95	1-10	10
	Total number of samples at this level:	91

2500 ppm level

Mixing Date	Tray Numbers	Number of Samples
2-17-95	1-10	10
3-03-95	1-10	10
4-07-95	1-4,6-11	10
4-20-95	1-10	10
5-26-95	1-10	10
6-09-95	1-3,6-12	10
6-16-95	1-3,6-9,12-14	10
6-30-95	1-3,6-9,13-15	10
7-14-95	1-8,11,12	10
	Total number of samples at this level:	90

Control Diet A or 1*

Mixing Date	Tray Numbers	Number of Samples
2-14-95	1A-10A	10
3-01-95	1A-10A	10
4-04-95	1A-10A	10
4-21-95	1A-10A	10
5-24-95	1-10	10
6-08-95	1-4,6-11	10
6-15-95	1-3,6-9,12-14	10
6-29-95	1-3,6-9,12-14	10
7-13-95	1-7,11-13	10
	Total number of samples at this level:	90

* If there is no letter following the tray number, the samples were designated Control Diet 1.

Control Diet B or 2**

Mixing Date	Tray Numbers	Number of Samples
2-14-95	1B-10B	10
3-02-95	1B-10B	10
4-07-95	1B-10B	10
4-21-95	1B-10B	10
5-26-95	1-10	10
6-08-95	1-3,6-12	10
6-15-95	1-3,6-9,12-14	10
6-29-95	1-3,6-12	10
7-13-95	1-8,12,13	10
	Total number of samples at this level:	90

** If there is no letter following the tray number, the samples were designated Control Diet 2.

2.2 Analysis

2.2.1 Sample Preparation

Duplicate analyses of each sample were performed as follows:

1. Approximately 40 g (weighed to ±0.01 g) of mink ration was weighed into a 200-mL centrifuge bottle containing 10 approximately 5/16-in stainless steel ball bearings (added to assist with extraction process). A 100-mL aliquot of methanol was pipetted into the bottle and the bottle was sealed (50 mL of methanol was added to control feed and 150 ppm dosed samples).

2. The bottles were shaken for approximately 15 min on a wrist-action shaker to extract the DIMP.

3. All samples were centrifuged at 2,000 rpm for approximately 5 min to clarify the extracts.

4. The extracts were diluted with methanol according to the following table:

Dose concentration (ppm)	mL of Extract	Volume of diluted extract (mL)
150	7	25
450	15	100
2500	5	100

5. In a 10-mL serum vial, 5 mL of diluted extract was mixed with 5 mL of internal standard solution (trimethyl phosphate, ~80 µg/mL in methanol).

6. A portion of each extract was filtered (0.45-mm pore size) into an autosampler vial.

7. Injections were made on the GC system described on page 11.

2.2.2 Preparation of Solution Standards

2.2.2.1 Preparation of Stock Solutions

1. Stock Solution 1 (~ 6 mg/mL) was prepared by weighing ~ 300 mg (weighed to the nearest 0.1 mg) of DIMP, transferring into a 50-mL volumetric flask and

diluting to volume with methanol. To prepare Working Solution 1, 10 mL of the Stock Solution 1 was pipetted into a 200-mL volumetric flask and diluted to volume with methanol. To prepare Spiking Solution 1, 10 mL of Stock Solution 1 was pipetted into a 50-mL volumetric flask and diluted to volume with methanol. The concentration of Spiking Solution 1 is ~1200 µg/mL and the concentration of Working Solution 1 is ~300 µg/mL.

2. Stock Solution 2 (~12 mg/mL) was prepared by weighing ~300 mg (weighed to the nearest 0.1 mg) of DIMP, transferring into a 25-mL volumetric flask and diluting to volume with methanol. To prepare the Working Solution 2, 10 mL of the Stock Solution 2 was pipetted into a 200-mL volumetric flask and diluted to volume with methanol. The concentration of Working Solution 2 is ~600 µg/mL.

Six solution standards were prepared in methanol using Working Solutions 1 and 2 and the dilution scheme presented in the table below.

Concentration of Working Solution used (µg/mL)	Volume of Working Solution used (mL)	Finall volume of standard solution (mL)	Theoretical concentration (µg/mL)
300	5	100	15
600	5	100	30
300	15	100	45
600	10	100	60
300	15	50	90
600	10	50	120

Aliquots (5-mL) of these solutions were then mixed with 5 mL of internal standard solution (trimethyl phosphate, ~80 µg/mL in methanol) in separate 10-mL glass serum vials. Portions of each solution were transferred to autosampler vials for subsequent analysis using the gas chromatographic system described on page 11.

2.2.3 Preparation of Spiked Feed Samples for Recovery Determination

Triplicate spiked feed preparations were made at the dose level of the samples being analyzed on a given day. Approximately 40 g of undosed mink feed was weighed into separate 200-mL glass centrifuge bottles, each containing 10 approximately 5/16-in stainless steel ball bearings. The table below indicates the appropriate spiking material, and the quantity which was added to prepare spiked feed samples at each dose level.

Dose level (ppm)	Spiking material	Amount of spiking material	Volume of methanol added (mL)	Dilution of extracted feed (mL/mL)[a]	Theoretical final conc. (µg/mL)
150	Working Solution 1[b]	20 mL	30	7/25	33.6
450	Spiking Solution 1[c]	15 mL	85	5/25	36.0
2500	neat DIMP	105 mg	100	5/100	52.5

[a] Dilutions made using methanol and volumetric glassware.
[b] Working Solution 1 = DIMP in methanol, ~ 300 µg/mL.
[c] Spiking Solution 1 = DIMP in methanol, ~ 1200 µg/mL.

The spiked feed samples were shaken for approximately 15 min on a wrist-action shaker to extract the DIMP. All samples were centrifuged for approximately 5 min at 2000 rpm to clarify the solutions. The extracts were diluted as indicated in the table above. Aliquots (5-mL) of each diluted extract were mixed with 5 mL of internal standard solution in a 10-mL glass serum vial. Portions of these mixtures were filtered (0.45-mm pore size) into autosampler vials for analysis using the gas chromatographic system described below. Figure 1 contains representative sample chromatographic results from a spiked mink feed sample and a control mink feed sample.

GAS CHROMATOGRAPHIC SYSTEM

Instrument: Varian 3700 Gas Chromatograph equipped with an autosampler
Data System: Turbochrom version 4.0.3
Column: 10% Carbowax 20M on 80/100 mesh Supelcoport, 3.6 m x 2 mm ID, glass
Detector: Flame Photometric (phosphorus filter)
Attenuation: 8×10^{-8}
Carrier Gas: Helium
Flow Rate: 30 mL/min
Temperatures:
- Injector: 220°C
- Oven Program: 150°C for 15 min, program at 50°C/min to 200°C. Hold at 200°C for 4 min
- Detector: 220°C

Sample Size: 5 µL
Retention Times:
- Diisopropyl methylphosphate: ~3.2 min
- Trimethyl phosphate (Internal Standard): ~4.4 min

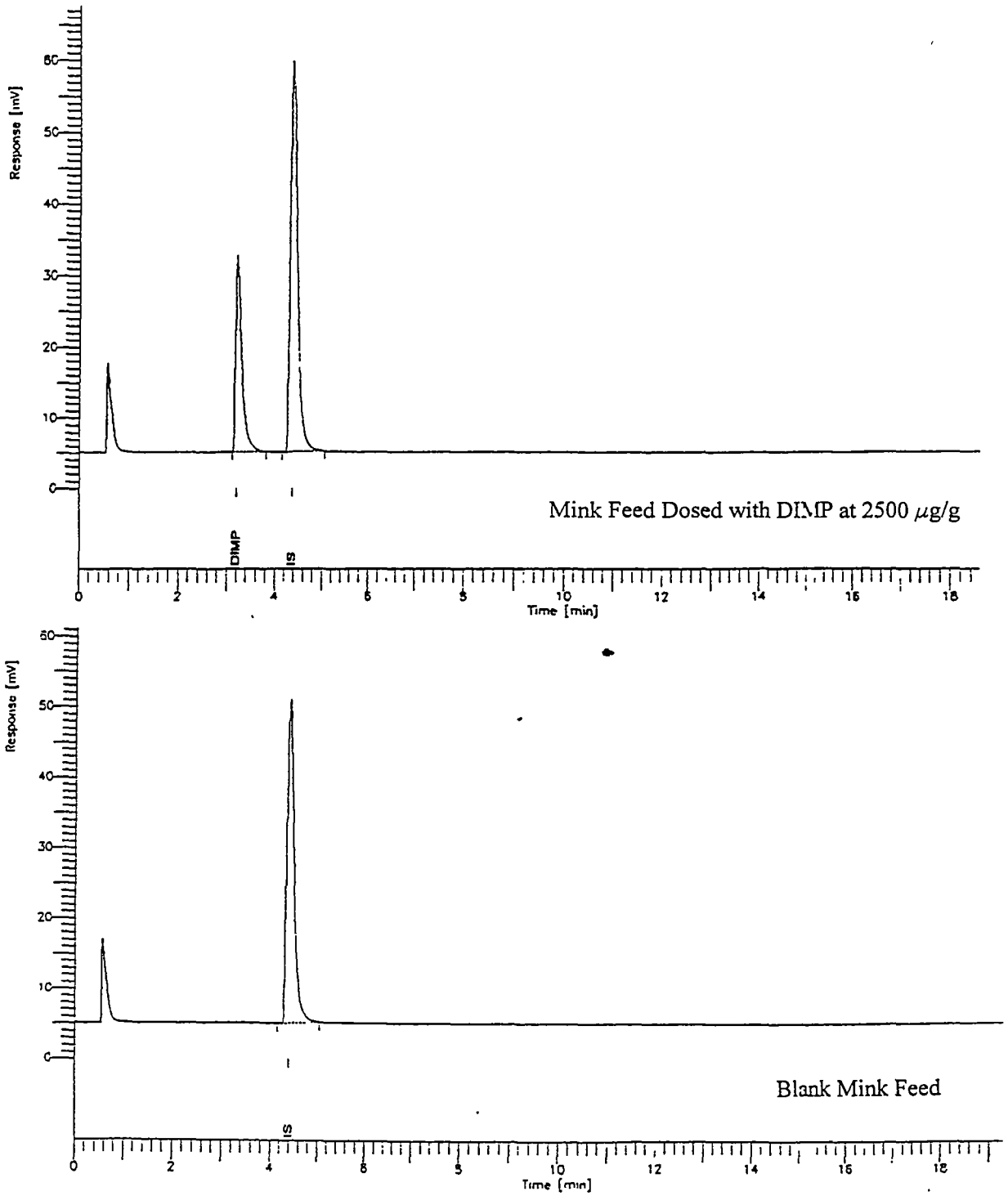

Figure 1. Example Chromatography for DIMP Analysis in Mink Feed

2.2.4 Calculations

A linear regression equation was calculated relating the weight (micrograms) of DIMP in solution standards to the corresponding peak area ratio (DIMP/internal standard). Concentration, ppm of DIMP in each dosed feed sample, was computed as follows:

$$\text{DIMP ppm} = \frac{\text{Found Amount}}{\text{Theoretical Amount}} \times \text{Dilution Factor}$$

The concentration of DIMP found in each sample was then corrected for moisture content and chemical recovery, which was determined as spike recovery at the appropriate level for each day of analysis. The spike recovery correction was calculated as follows:

$$\text{Spike Corrected DIMP ppm} = \frac{\text{DIMP ppm}}{\text{Spike Recovery}}$$

The estimated detection limit (edl) was calculated as follows:

$$\text{edl (ppm)} = \frac{[\text{Conc. of Standard X } (\mu\text{g/mL})]\ [3 \times \text{Noise in the Blank (in mm)}]}{\text{Peak Height (in mm) of Chemical in Standard X}}$$

where Standard X is the lowest concentration standard analyzed.

For each analysis set two independently prepared stock solutions were used to make six DIMP solution standards. All determinations were related to an internal standard incorporated into the solutions. Linear regression analysis of the standard data defined a line with a slope and a y-intercept. For the nine sets of samples analyzed, the correlation coefficients calculated for the standard data ranged from 0.99663 to 0.99996 and the mean recovery for the spiked feed ranged from 66.7% to 92.9%.

2.3 Results

Dosed Feed Analysis at 150 ppm for February 15, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	145.0	96.7
Tray 1B	150	139.8	93.2
Tray 2A	150	137.7	91.8
Tray 2B	150	138.0	92.0
Tray 3A	150	139.7	93.1
Tray 3B	150	139.8	93.2
Tray 4A	150	137.5	91.7
Tray 4B	150	139.1	92.7
Tray 5A	150	139.8	93.2
Tray 5B	150	138.7	92.5
Tray 6A	150	143.1	95.4
Tray 6B	150	142.8	95.2
Tray 7A	150	141.1	94.1
Tray 7B	150	140.2	93.5
Tray 8A	150	144.3	96.2
Tray 8B	150	136.8	91.2
Tray 9A	150	137.8	91.9
Tray 9B	150	134.5	89.7
Tray 10A	150	137.7	91.8
Tray 10B	150	141.7	94.5

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 93.2 ± 1.8%(s), RSD (%) = 1.9.

Dosed Feed Analysis at 450 ppm for February 16, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	512.7	113.9
Tray 1B	450	499.3	111.0
Tray 2A	450	459.6	102.1
Tray 2B	450	500.5	111.2
Tray 3A	450	514.0	114.2
Tray 3B	450	463.9	103.1
Tray 4A	450	484.4	107.6
Tray 4B	450	484.4	107.6
Tray 5A	450	466.8	103.7
Tray 5B	450	458.6	101.9
Tray 6A	450	489.2	108.7
Tray 6B	450	489.4	108.8
Tray 7A	450	500.7	111.3
Tray 7B	450	502.5	111.7
Tray 8A	450	498.7	110.8
Tray 8B	450	511.7	113.7
Tray 9A	450	505.4	112.3
Tray 9B	450	499.8	111.1
Tray 10A	450	519.3	115.4
Tray 10B	450	522.1	116.0

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 109.8 ± 4.3%(s), RSD (%) = 3.9.

Dosed Feed Analysis at 2500 ppm for February 17, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2718	108.7
Tray 1B	2500	2696	107.8
Tray 2A	2500	2710	108.4
Tray 2B	2500	2642	105.7
Tray 3A	2500	2681	107.2
Tray 3B	2500	2612	104.5
Tray 4A	2500	2621	104.8
Tray 4B	2500	2606	104.2
Tray 5A	2500	2596	103.8
Tray 5B	2500	2600	104.0
Tray 6A	2500	2602	104.1
Tray 6B	2500	2597	103.9
Tray 7A	2500	2625	105.0
Tray 7B	2500	2653	106.1
Tray 8A	2500	2642	105.7
Tray 8B	2500	2649	106.0
Tray 9A	2500	2745	109.8
Tray 9B	2500	2744	109.8
Tray 10A	2500	2784	111.4
Tray 10B	2500	2756	110.2

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 106.6 ± 2.4%(s), RSD (%) = 2.3.

Dosed Feed Analysis at 150 ppm for March 1, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	159.0	106.0
Tray 1B	150	166.4	110.9
Tray 2A	150	166.0	110.7
Tray 2B	150	165.5	110.3
Tray 3A	150	166.1	110.7
Tray 3B	150	166.4	110.9
Tray 4A	150	165.5	110.3
Tray 4B	150	148.0	98.7
Tray 5A	150	145.3	96.9
Tray 5B	150	145.2	96.8
Tray 6A	150	143.2	95.5
Tray 6B	150	160.3	106.9
Tray 7A	150	157.7	105.1
Tray 7B	150	159.4	106.3
Tray 8A	150	148.1	98.7
Tray 8B	150	146.6	97.7
Tray 9A	150	145.0	96.7
Tray 9B	150	143.3	95.5
Tray 10A	150	141.0	94.0
Tray 10B	150	144.0	96.0

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 102.7 ± 6.5%(s), RSD (%) = 6.3.

Dosed Feed Analysis at 450 ppm for March 2, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	468.1	104.0
Tray 1B	450	462.0	102.7
Tray 2A	450	464.8	103.3
Tray 2B	450	463.5	103.0
Tray 3A	450	476.3	105.8
Tray 3B	450	475.7	105.7
Tray 4A	450	451.9	100.4
Tray 4B	450	452.6	100.6
Tray 5A	450	473.8	105.3
Tray 5B	450	486.0	108.0
Tray 6A	450	531.8	118.2
Tray 6B	450	479.2	106.5
Tray 7A	450	455.8	101.3
Tray 7B	450	458.4	101.9
Tray 8A	450	465.8	103.5
Tray 8B	450	452.6	100.6
Tray 9A	450	472.9	105.1
Tray 9B	450	473.5	105.2
Tray 10A	450	480.9	106.9
Tray 10B	450	464.6	103.2
Tray 11A	450	471.7	104.8
Tray 11B	450	473.7	105.3

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 22) = 104.6 ± 3.7%(s), RSD (%) = 3.5.

Dosed Feed Analysis at 2500 ppm for March 3, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2727	109.1
Tray 1B	2500	2786	111.4
Tray 2A	2500	2664	106.6
Tray 2B	2500	2637	105.5
Tray 3A	2500	2706	108.2
Tray 3B	2500	2717	108.7
Tray 4A	2500	2728	109.1
Tray 4B	2500	2745	109.8
Tray 5A	2500	2791	111.6
Tray 5B	2500	2779	111.2
Tray 6A	2500	2848	113.9
Tray 6B	2500	2778	111.1
Tray 7A	2500	2805	112.2
Tray 7B	2500	2760	110.4
Tray 8A	2500	2727	109.1
Tray 8B	2500	2642	105.7
Tray 9A	2500	2752	110.1
Tray 9B	2500	2714	108.6
Tray 10A	2500	2551	102.0
Tray 10B	2500	2555	102.2

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 108.8 ± 3.1%(s), RSD (%) = 2.8.

Dosed Feed Analysis at 150 ppm for April 5, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	172.7	115.1
Tray 1B	150	175.0	116.7
Tray 2A	150	176.4	117.6
Tray 2B	150	178.3	118.9
Tray 3A	150	181.3	120.9
Tray 3B	150	177.0	118.0
Tray 4A	150	174.7	116.5
Tray 4B	150	180.1	120.1
Tray 5A	150	174.2	116.1
Tray 5B	150	174.6	116.4
Tray 6A	150	184.4	122.9
Tray 6B	150	183.8	122.5
Tray 7A	150	183.2	122.1
Tray 7B	150	181.2	120.8
Tray 8A	150	172.4	114.9
Tray 8B	150	174.9	116.6
Tray 9A	150	179.3	119.5
Tray 9B	150	178.1	118.7
Tray 10A	150	180.8	120.5
Tray 10B	150	179.5	119.7

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 118.7 ± 2.5%(s), RSD (%) = 2.1.

Dosed Feed Analysis at 450 ppm for April 6, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	467.0	103.8
Tray 1B	450	489.6	108.8
Tray 2A	450	486.2	108.0
Tray 2B	450	481.0	106.9
Tray 3A	450	474.6	105.5
Tray 3B	450	467.1	103.8
Tray 4A	450	476.5	105.9
Tray 4B	450	485.7	107.9
Tray 5A	450	486.8	108.2
Tray 5B	450	474.0	105.3
Tray 6A	450	485.4	107.9
Tray 6B	450	484.9	107.8
Tray 7A	450	483.7	107.5
Tray 7B	450	485.6	107.9
Tray 8A	450	471.0	104.7
Tray 8B	450	472.7	105.0
Tray 9A	450	490.7	109.0
Tray 9B	450	489.3	108.7
Tray 10A	450	489.7	108.8
Tray 10B	450	492.5	109.4

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 107.0 ± 1.8%(s), RSD (%) = 1.7.

Dosed Feed Analysis at 2500 ppm for April 7, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2593	103.7
Tray 1B	2500	2596	103.8
Tray 2A	2500	2610	104.4
Tray 2B	2500	2604	104.2
Tray 3A	2500	2504	100.2
Tray 3B	2500	2495	99.8
Tray 4A	2500	2595	103.8
Tray 4B	2500	2606	104.2
Tray 6A	2500	2520	100.8
Tray 6B	2500	2527	101.1
Tray 7A	2500	2525	101.0
Tray 7B	2500	2576	103.0
Tray 8A	2500	2588	103.5
Tray 8B	2500	2576	103.0
Tray 9A	2500	2545	101.8
Tray 9B	2500	2568	102.7
Tray 10A	2500	2542	101.7
Tray 10B	2500	2505	100.2
Tray 11A	2500	2492	99.7
Tray 11B	2500	2562	102.5

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 102.3 ± 1.6%(s), RSD (%) = 1.6.

Dosed Feed Analysis at 150 ppm for April 18, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	166.3	110.9
Tray 1B	150	164.8	109.9
Tray 2A	150	155.2	103.5
Tray 2B	150	152.0	101.3
Tray 3A	150	156.5	104.3
Tray 3B	150	152.6	101.7
Tray 4A	150	152.2	101.5
Tray 4B	150	151.0	100.7
Tray 5A	150	165.4	110.3
Tray 5B	150	164.3	109.5
Tray 6A	150	162.4	108.3
Tray 6B	150	164.3	109.5
Tray 7A	150	154.6	103.1
Tray 7B	150	155.0	103.3
Tray 8A	150	157.9	105.3
Tray 8B	150	164.1	109.4
Tray 9A	150	160.2	106.8
Tray 9B	150	161.1	107.4
Tray 10A	150	164.9	109.9
Tray 10B	150	163.3	108 9

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 106.3 ± 3.5%(s), RSD (%) = 3.3.

Dosed Feed Analysis at 450 ppm for April 19, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	490.5	109.0
Tray 1B	450	487.8	108.4
Tray 2A	450	490.2	108.9
Tray 2B	450	478.2	106.3
Tray 3A	450	478.6	106.4
Tray 3B	450	480.3	106.7
Tray 4A	450	482.3	107.2
Tray 4B	450	485.1	107.8
Tray 5A	450	483.5	107.4
Tray 5B	450	480.8	106.8
Tray 6A	450	476.2	105.8
Tray 6B	450	476.0	105.8
Tray 7A	450	478.2	106.3
Tray 7B	450	480.1	106.7
Tray 8A	450	488.8	108.6
Tray 8B	450	473.3	105.2
Tray 9A	450	474.4	105.4
Tray 9B	450	482.4	107.2
Tray 10A	450	473.1	105.1
Tray 10B	450	474.4	105.4

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 106.8 ± 1.2%(s), RSD (%) = 1.1.

Dosed Feed Analysis at 2500 ppm for April 20, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2759	110.4
Tray 1B	2500	2785	111.4
Tray 2A	2500	2760	110.4
Tray 2B	2500	2753	110.1
Tray 3A	2500	2769	110.8
Tray 3B	2500	2759	110.4
Tray 4A	2500	2755	110.2
Tray 4B	2500	2750	110.0
Tray 5A	2500	2730	109.2
Tray 5B	2500	2719	108.8
Tray 6A	2500	2686	107.4
Tray 6B	2500	2698	107.9
Tray 7A	2500	2718	108.7
Tray 7B	2500	2738	109.5
Tray 8A	2500	2641	105.6
Tray 8B	2500	2670	106.8
Tray 9A	2500	2737	109.5
Tray 9B	2500	2752	110.1
Tray 10A	2500	2676	107.0
Tray 10B	2500	2724	109.0

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 109.2 ± 1.5%(s), RSD (%) = 1.4.

Dosed Feed Analysis at 150 ppm for May 23, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	170.7	113.8
Tray 1B	150	171.4	114.3
Tray 2A	150	171.6	114.4
Tray 2B	150	171.0	114.0
Tray 3A	150	166.2	110.8
Tray 3B	150	170.2	113.5
Tray 4A	150	167.8	111.9
Tray 4B	150	169.3	112.9
Tray 5A	150	166.5	111.0
Tray 5B	150	166.5	111.0
Tray 6A	150	168.6	112.4
Tray 6B	150	165.6	110.4
Tray 7A	150	162.1	108.1
Tray 7B	150	165.3	110.2
Tray 8A	150	162.3	108.2
Tray 8B	150	165.3	110.2
Tray 9A	150	168.0	112.0
Tray 9B	150	166.8	111.2
Tray 10A	150	161.4	107.6
Tray 10B	150	168.0	112.0

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 111.5 ± 2.0%(s), RSD (%) = 1.8.

Dosed Feed Analysis at 450 ppm for May 25, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	495.2	110.0
Tray 1B	450	489.6	108.8
Tray 2A	450	488.0	108.4
Tray 2B	450	486.0	108.0
Tray 3A	450	479.1	106.5
Tray 3B	450	488.6	108.6
Tray 4A	450	489.1	108.7
Tray 4B	450	477.8	106.2
Tray 5A	450	483.8	107.5
Tray 5B	450	485.5	107 9
Tray 6A	450	476.0	105.8
Tray 6B	450	486.0	108.0
Tray 7A	450	492.1	109.4
Tray 7B	450	490.1	108.9
Tray 8A	450	497.8	110.6
Tray 8B	450	502.7	111.7
Tray 9A	450	495.5	110.1
Tray 9B	450	500.7	111.3
Tray 10A	450	499.9	111.1
Tray 10B	450	499.9	111.1

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 108.9 ± 1.7%(s), RSD (%) = 1.6.

Dosed Feed Analysis at 2500 ppm for May 26, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2825	113.0
Tray 1B	2500	2748	109.9
Tray 2A	2500	2696	107.8
Tray 2B	2500	2814	112.6
Tray 3A	2500	2856	114.2
Tray 3B	2500	3067	122.7
Tray 4A	2500	2989	119.6
Tray 4B	2500	2845	113.8
Tray 5A	2500	2844	113.8
Tray 5B	2500	2684	107.4
Tray 6A	2500	2824	113.0
Tray 6B	2500	2899	116.0
Tray 7A	2500	3100	124.0
Tray 7B	2500	3076	123.0
Tray 8A	2500	3017	120.7
Tray 8B	2500	3089	123.6
Tray 9A	2500	3093	123.7
Tray 9B	2500	3077	123.1
Tray 10A	2500	3055	122.2
Tray 10B	2500	3018	120.7

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 117.2 ± 5.7%(s), RSD (%) = 4.9.

Dosed Feed Analysis at 150 ppm for June 6, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	162.9	108.6
Tray 1B	150	164.3	109.5
Tray 2A	150	162.9	108.6
Tray 2B	150	163.2	108.9
Tray 3A	150	166.9	111.3
Tray 3B	150	165.0	110.0
Tray 4A	150	167.2	111.5
Tray 4B	150	170.4	113.6
Tray 5A	150	167.6	111.7
Tray 5B	150	171.1	114.1
Tray 6A	150	167.2	111.5
Tray 6B	150	167.6	111.7
Tray 7A	150	174.0	116.0
Tray 7B	150	172.0	114.7
Tray 8A	150	175.1	116.7
Tray 8B	150	171.8	114.5
Tray 9A	150	173.4	115.6
Tray 9B	150	172.2	114.8
Tray 10A	150	164.3	109.5
Tray 10B	150	174.8	116.5

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 112.5 ± 2.8%(s), RSD (%) = 2.5.

Dosed Feed Analysis at 450 ppm for June 7, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	489.0	108.7
Tray 1B	450	485.8	108.0
Tray 2A	450	481.9	107.1
Tray 2B	450	510.3	113.4
Tray 3A	450	500.7	111.3
Tray 3B	450	503.6	111.9
Tray 4A	450	489.9	108.9
Tray 4B	450	479.4	106.5
Tray 5A	450	496.7	110.4
Tray 5B	450	500.2	111.2
Tray 6A	450	469.4	104.3
Tray 6B	450	481.8	107.1
Tray 7A	450	496.7	110.4
Tray 7B	450	501.1	111.4
Tray 8A	450	497.6	110.6
Tray 8B	450	502.9	111.8
Tray 9A	450	501.5	111.4
Tray 9B	450	504.2	112.0
Tray 10A	450	505.8	112.4
Tray 10B	450	512.2	113.8

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 110.1 ± 2.5%(s), RSD (%) = 2.3.

Dosed Feed Analysis at 2500 ppm for June 9, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2635	105.4
Tray 1B	2500	2610	104.4
Tray 2A	2500	2668	106.7
Tray 2B	2500	2700	108.0
Tray 3A	2500	2735	109.4
Tray 3B	2500	2699	108.0
Tray 6A	2500	2717	108.7
Tray 6B	2500	2738	109.5
Tray 7A	2500	2816	112.6
Tray 7B	2500	2702	108.1
Tray 8A	2500	2702	108.1
Tray 8B	2500	2735	109.4
Tray 9A	2500	2761	110.4
Tray 9B	2500	2937	117.5
Tray 10A	2500	2972	118.9
Tray 10B	2500	2992	119.7
Tray 11A	2500	2977	119.1
Tray 11B	2500	3084	123.4
Tray 12A	2500	2969	118.8
Tray 12B	2500	2952	118.1

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 112.2 ± 5.7%(s), RSD (%) = 5.1.

Dosed Feed Analysis at 150 ppm for June 13, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	165.0	110.0
Tray 1B	150	162.3	108.2
Tray 2A	150	160.6	107.1
Tray 2B	150	160.2	106.8
Tray 3A	150	159.7	106.5
Tray 3B	150	160.5	107.0
Tray 6A	150	159.9	106.6
Tray 6B	150	160.7	107.1
Tray 7A	150	162.3	108.2
Tray 7B	150	-	-
Tray 8A	150	164.6	109.7
Tray 8B	150	163.6	109.1
Tray 9A	150	163.5	109.0
Tray 9B	150	168.4	112.3
Tray 12A	150	163.3	108.9
Tray 12B	150	165.8	110.5
Tray 13A	150	165.6	110.4
Tray 13B	150	165.0	110.0
Tray 14A	150	166.7	111.1
Tray 14B	150	163.5	109.0

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 108.8 ± 1.7%(s), RSD (%) = 1.6.

Dosed Feed Analysis at 450 ppm for June 14, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	477.2	106.0
Tray 1B	450	475.0	105.6
Tray 2A	450	504.3	112.1
Tray 2B	450	471.6	104.8
Tray 3A	450	468.1	104.0
Tray 3B	450	468.3	104.1
Tray 6A	450	467.7	103.9
Tray 6B	450	468.3	104.1
Tray 7A	450	468.3	104.1
Tray 7B	450	481.2	106.9
Tray 8A	450	470.3	104.5
Tray 8B	450	471.8	104.8
Tray 9A	450	462.7	102.8
Tray 9B	450	471.4	104.8
Tray 12A	450	471.0	104.7
Tray 12B	450	472.5	105.0
Tray 13A	450	470.4	104.5
Tray 13B	450	472.8	105.1
Tray 14A	450	467.3	103.8
Tray 14B	450	461.5	102.6

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 104.9 ± 2.0%(s), RSD (%) = 1.9.

Dosed Feed Analysis at 2500 ppm for June 16, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2682	107.3
Tray 1B	2500	2776	111.0
Tray 2A	2500	2688	107.5
Tray 2B	2500	2724	109.0
Tray 3A	2500	2708	108.3
Tray 3B	2500	2714	108.6
Tray 6A	2500	2710	108.4
Tray 6B	2500	2704	108.2
Tray 7A	2500	2728	109.1
Tray 7B	2500	2647	105.9
Tray 8A	2500	2668	106.7
Tray 8B	2500	2659	106.4
Tray 9A	2500	2577	103.1
Tray 9B	2500	2603	104.1
Tray 12A	2500	2622	104.9
Tray 12B	2500	2694	107.8
Tray 13A	2500	2701	108.0
Tray 13B	2500	2694	107.8
Tray 14A	2500	2640	105.6
Tray 14B	2500	2666	106.6

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 107.2 ± 1.9%(s), RSD (%) = 1.8.

Dosed Feed Analysis at 150 ppm for June 27, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	165.4	110.3
Tray 1B	150	168.7	112.5
Tray 2A	150	164.7	109.8
Tray 2B	150	166.6	111.1
Tray 3A	150	117.2	78.1
Tray 3B	150	164.7	109.8
Tray 6A	150	164.0	109.3
Tray 6B	150	163.4	108.9
Tray 7A	150	164.3	109.5
Tray 7B	150	163.4	108.9
Tray 8A	150	166.5	111.0
Tray 8B	150	161.7	107.8
Tray 9A	150	163.7	109.1
Tray 9B	150	164.2	109.5
Tray 13A	150	164.5	109.7
Tray 13B	150	164.2	109.5
Tray 14A	150	165.8	110.5
Tray 14B	150	165.9	110.6
Tray 15A	150	166.8	111.2
Tray 15B	150	163.9	109.3

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 108.3 ± 7.2%(s), RSD (%) = 6.6.

Dosed Feed Analysis at 450 ppm for June 28, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	476.8	106.0
Tray 1B	450	474.4	105.4
Tray 2A	450	471.1	104.7
Tray 2B	450	479.9	106.6
Tray 3A	450	482.8	107.3
Tray 3B	450	459.5	102.1
Tray 6A	450	467.0	103.8
Tray 6B	450	463.2	102.9
Tray 7A	450	485.2	107.8
Tray 7B	450	464.0	103.1
Tray 8A	450	467.1	103.8
Tray 8B	450	474.6	105.5
Tray 9A	450	468.6	104.1
Tray 9B	450	476.7	105.9
Tray 12A	450	465.8	103.5
Tray 12B	450	456.7	101.5
Tray 13A	450	465.5	103.4
Tray 13B	450	472.1	104.9
Tray 14A	450	450.1	100.0
Tray 14B	450	458.6	101.9

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 104.2 ± 2.0%(s), RSD (%) = 1.9.

Dosed Feed Analysis at 2500 ppm for June 30, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2651	106.0
Tray 1B	2500	2654	106.2
Tray 2A	2500	2774	111.0
Tray 2B	2500	2699	108.0
Tray 3A	2500	2700	108.0
Tray 3B	2500	2723	108.9
Tray 6A	2500	2664	106.6
Tray 6B	2500	2624	105.0
Tray 7A	2500	2764	110.6
Tray 7B	2500	2690	107.6
Tray 8A	2500	2687	107.5
Tray 8B	2500	2725	109.0
Tray 9A	2500	2736	109.4
Tray 9B	2500	2669	106.8
Tray 13A	2500	2668	106.7
Tray 13B	2500	2678	107.1
Tray 14A	2500	2645	105.8
Tray 14B	2500	2710	108.4
Tray 15A	2500	2666	106.6
Tray 15B	2500	2636	105.4

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 107.5 ± 1.6%(s), RSD (%) = 1.5.

Dosed Feed Analysis at 150 ppm for July 11, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	150	162.9	108.6
Tray 1B	150	162.8	108.5
Tray 2A	150	166.0	110.7
Tray 2B	150	166.1	110.7
Tray 3A	150	160.9	107.3
Tray 3B	150	162.1	108.1
Tray 4A	150	112.9	75.3
Tray 4B	150	165.9	110.6
Tray 5A	150	175.7	117.1
Tray 5B	150	165.7	110.5
Tray 6A	150	198.4	132.3
Tray 6B	150	180.9	120.6
Tray 7A	150	181.9	121.3
Tray 7B	150	184.3	122.9
Tray 8A	150	136.4	90.9
Tray 8B	150	146.9	97.9
Tray 9A	150	185.6	123.7
Tray 9B	150	183.5	122.3
Tray 10A	150	187.9	125.3
Tray 10B	150	185.4	123.6

The overall mean for DIMP related to target dose at 150 ppm was calculated as $\bar{x}$ (n = 20) = 112.4 ± 13.2%(s), RSD (%) = 11.7.

Dosed Feed Analysis at 450 ppm for July 12, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	450	464.5	103.2
Tray 1B	450	488.4	108.5
Tray 2A	450	479.2	106.5
Tray 2B	450	473.6	105.2
Tray 3A	450	469.7	104.4
Tray 3B	450	461.5	102.6
Tray 4A	450	472.6	105.0
Tray 4B	450	478.7	106.4
Tray 5A	450	477.7	106.2
Tray 5B	450	472.1	104.9
Tray 6A	450	477.8	106.2
Tray 6B	450	459.4	102.1
Tray 7A	450	459.7	102.2
Tray 7B	450	459.4	102.1
Tray 8A	450	466.0	103.6
Tray 8B	450	460.2	102.3
Tray 9A	450	467.7	103.9
Tray 9B	450	454.8	101.1
Tray 10A	450	436.6	97.0
Tray 10B	450	449.5	99.9

The overall mean for DIMP related to target dose at 450 ppm was calculated as $\bar{x}$ (n = 20) = 103.7 ± 2.7%(s), RSD (%) = 2.6.

Dosed Feed Analysis at 2500 ppm for July 14, 1995

Label	DIMP Theor. Conc. (ppm)	DIMP Found (ppm)	Found/Theor. (%)
Tray 1A	2500	2702	108.1
Tray 1B	2500	2714	108.6
Tray 2A	2500	2698	107.9
Tray 2B	2500	2730	109.2
Tray 3A	2500	2696	107.8
Tray 3B	2500	2718	108.7
Tray 4A	2500	2753	110.1
Tray 4B	2500	2684	107.4
Tray 5A	2500	2748	109.9
Tray 5B	2500	2717	108.7
Tray 6A	2500	2685	107.4
Tray 6B	2500	2693	107.7
Tray 7A	2500	2798	111.9
Tray 7B	2500	2722	108.9
Tray 8A	2500	2723	108.9
Tray 8B	2500	2717	108.7
Tray 11A	2500	2760	110.4
Tray 11B	2500	2737	109.5
Tray 12A	2500	2682	107.3
Tray 12B	2500	2681	107.2

The overall mean for DIMP related to target dose at 2500 ppm was calculated as $\bar{x}$ (n = 20) = 108.7 ± 1.2%(s), RSD (%) = 1.1.

DIMP Found (ppm) Related to Target Dose (%)

Preparation Dates	Theoretical Dosed Feed Level, ppm (%Theor.)		
	150 ppm	450 ppm	2500 ppm
2/15-17/95	139.8 (93.2%)	494.1 (109.8%)	2665 (106.6%)
3/1-3/95	154.1 (102.7%)	470.7 (104.6%)	2720 (108.8%)
4/5-7/95	178.1 (118.7%)	481.5 (107.0%)	2558 (102.3%)
4/18-20/95	159.5 (106.3%)	480.6 (106.8%)	2730 (109.2%)
5/23-26/95	167.3 (111.5%)	490.1 (108.9%)	2930 (117.2%)
6/6-9/95	168.8 (112.5%)	495.5 (110.1%)	2805 (112.2%)
6/13-16/95	163.2 (108.8%)	472.1 (104.9%)	2680 (107.2%)
6/27-30/95	162.5 (108.3%)	468.9 (104.2%)	2688 (107.5%)
7/11-14/95	168.6 (112.4%)	466.7 (103.7%)	2718 (108.7%)
Overall mean for each dose level	$\bar{x}$ = 162.4 ppm (s) = 10.8 ppm %RSD = 6.7%	$\bar{x}$ = 480.0 ppm (s) = 11.1 ppm %RSD = 2.3%	$\bar{x}$ = 2722 ppm (s) = 102 ppm %RSD = 3.7%

The overall mean % of dose level at 150 ppm was $\bar{x}$ = 108.3%.

The overall mean % of dose level at 450 ppm was $\bar{x}$ = 106.7%.

The overall mean % of dose level at 2500 ppm was $\bar{x}$ = 108.9%.

2.4 Summary

The results of the quantitation of DIMP in dosed mink feed samples submitted by University of Minnesota are summarized on page 41. Control samples were analyzed with each set of dosed mink feed samples and the estimated detection limit (edl) calculated for each analysis day. The control samples contained no detectable amounts of DIMP. The average edl was 6.9 ppm for the 150 ppm analyses, 23 ppm for the 450 ppm, and 92 ppm for the 2500 ppm analyses. Data from the dose analyses indicate all of the feed blends analyzed were homogenous based on the relative standard deviation for the overall mean at each dose level to be ≤6.7% of the labeled concentrations.

APPENDIX 2 Tabulation of Transponder Codes and Animal ID Numbers

PATHOLOGY ASSOCIATES INTERNATIONAL
Two-Generation Reproductive Study in Mink Fed
Diisopropyl Methylphosphonate (DIMP)
Study Number TP-001
Animal Number Assignment First Generation (F0)

Transponder Number	Group	Sex	Sequence Number	Histology Number
13A9DC6	1	F	106	95-1938-106
13BCFA2	1	F	111	95-1938-111
13A96E2	1	F	114	95-1938-114
13A7659	1	F	130	95-1938-130
13AE95B	1	F	143	95-1938-143
13C02E3	1	F	147	95-1938-147
13BCE60	1	F	162	95-1938-162
13A8832	1	F	210	95-1938-210
13AE89E	1	F	15	95-1938-15
13AF73F	1	F	36	95-1938-36
13A750C	1	F	21	95-1938-21
13A839D	1	F	71	95-1938-71
13A8629	1	F	76	95-1938-76
13BDE9F	1	F	79	95-1938-79
13A9E30	1	F	124	95-1938-124
13B9914	1	F	127	95-1938-127
13B9750	1	F	132	95-1938-132
13BDDB3	1	F	149	95-1938-149
13BD025	1	F	156	95-1938-156
13AF44B	1	F	166	95-1938-166
13A978D	1	F	170	95-1938-170
13C02DA	1	F	189	95-1938-189
13A9064	1	F	194	95-1938-194
13A980C	1	F	196	95-1938-196
13C0353	1	F	179	95-1938-179
13B9064	1	F	188	95-1938-188
13A805D	1	F	212	95-1938-212
13BE0EE	1	F	219	95-1938-219
13AA5F2	1	F	16	95-1938-16
13B8C34	1	F	29	95-1938-29
13B965A	1	F	32	95-1938-32
13C38B2	1	F	72	95-1938-72
13AF50D	1	F	78	95-1938-78
13BBB2F	1	F	80	95-1938-80
13A8E3E	1	F	171	95-1938-171

Transponder Number	Group	Sex	Sequence Number	Histology Number
13A9DAA	2	F	165	95-1938-165
13A8C80	2	F	18	95-1938-18
13A8535	2	F	23	95-1938-23
13A741E	2	F	45	95-1938-45
13A7334	2	F	30	95-1938-30
13BBFCD	2	F	34	95-1938-34
13AFB6A	2	F	81	95-1938-81
1453534	2	F	113	95-1938-113
13A80AA	2	F	101	95-1938-101
142CD79	2	F	135	95-1938-135
13AF2CF	2	F	154	95-1938-154
13A8696	2	F	155	95-1938-155
13BBF9A	2	F	172	95-1938-172
1453604	2	F	182	95-1938-182
13A9033	2	F	208	95-1938-208
13A834F	2	F	206	95-1938-206
13AF7D0	2	F	220	95-1938-220
13A7B78	2	F	8	95-1938-8
13CO3E2	2	F	12	95-1938-12
13BC87A	2	F	19	95-1938-19
13A75EF	2	F	37	95-1938-37
142CBD4	2	F	40	95-1938-40
13BA6D1	2	F	42	95-1938-42
13BCD1D	2	F	44	95-1938-44
13A92EE	2	F	69	95-1938-69
142ClD5	2	F	112	95-1938-112
13A87D4	2	F	131	95-1938-131
13B97B2	2	F	121	95-1938-121
13A7F96	2	F	125	95-1938-125
13A7339	2	F	137	95-1938-137
13BD98A	2	F	138	95-1938-138
13BCFD4	2	F	139	95-1938-139
13AF9C7	2	F	142	95-1938-142
13BDD85	2	F	150	95-1938-150
13A7F30	2	F	167	95-1938-167
13BDB60	3	F	103	95-1938-103
13AF411	3	F	122	95-1938-122
13BD077	3	F	120	95-1938-120
13BDC7C	3	F	140	95-1938-140
13BC212	3	F	152	95-1938-152
13BC4F6	3	F	153	95-1938-153

Transponder Number	Group	Sex	Sequence Number	Histology Number
13A88DB	3	F	159	95-1938-159
13BD85E	3	F	157	95-1938-157
13C3799	3	F	178	95-1938-178
13A7541	3	F	191	95-1938-191
142D0D5	3	F	195	95-1938-195
142C15D	3	F	216	95-1938-216
13A909E	3	F	6	95-1938-6
13A7D5E	3	F	27	95-1938-27
13B981B	3	F	47	95-1938-47
13A9C67	3	F	100	95-1938-100
13AA6F5	3	F	123	95-1938-123
13C029E	3	F	126	95-1938-126
13A9663	3	F	128	95-1938-128
13AED4C	3	F	129	95-1938-129
13A8497	3	F	148	95-1938-148
13A7799	3	F	176	95-1938-176
13A8267	3	F	175	95-1938-175
13BBFF6	3	F	177	95-1938-177
13C0296	3	F	198	95-1938-198
14536B1	3	F	203	95-1938-203
13B9A6A	3	F	207	95-1938-207
13BC70C	3	F	215	95-1938-215
13B90DE	3	F	217	95-1938-217
13A88CD	3	F	1	95-1938-1
13A71EB	3	F	5	95-1938-5
13BE47F	3	F	10	95-1938-10
13A8FAB	3	F	11	95-1938-11
13BCF8B	3	F	26	95-1938-26
13B95CC	3	F	46	95-1938-46
13C34E0	4	F	110	95-1938-110
13C030C	4	F	109	95-1938-109
13A9B9F	4	F	141	95-1938-141
13A7E26	4	F	151	95-1938-151
13A85C0	4	F	200	95-1938-200
13BCD40	4	F	211	95-1938-211
13A9EDA	4	F	2	95-1938-2
13A744A	4	F	13	95-1938-13
13A756C	4	F	20	95-1938-20
13A9239	4	F	24	95-1938-24
13A9BD3	4	F	38	95-1938-38
13C036B	4	F	28	95-1938-28
13AE9BE	4	F	33	95-1938-33
13BC5C9	4	F	73	95-1938-73

Transponder Number	Group	Sex	Sequence Number	Histology Number
13A9586	4	F	75	95-1938-75
13B9759	4	F	118	95-1938-118
13C029B	4	F	102	95-1938-102
13A845F	4	F	105	95-1938-105
13A9F5A	4	F	133	95-1938-133
13BCA81	4	F	119	95-1938-119
13BCD56	4	F	136	95-1938-136
13BC54E	4	F	145	95-1938-145
13A75FE	4	F	161	95-1938-161
13C3500	4	F	169	95-1938-169
13A7D2A	4	F	190	95-1938-190
13BC4A9	4	F	202	95-1938-202
13BD21C	4	F	205	95-1938-205
13AF2E9	4	F	214	95-1938-214
13A9666	4	F	218	95-1938-218
13AF605	4	F	3	95-1938-3
13BC993	4	F	7	95-1938-7
13C3979	4	F	17	95-1938-17
13A763C	4	F	25	95-1938-25
142D0AE	4	F	31	95-1938-31
13C36B3	4	F	77	95-1938-77
13A7C53	5	F	117	95-1938-117
13A972E	5	F	144	95-1938-144
13BCF69	5	F	146	95-1938-146
142CE73	5	F	160	95-1938-160
13BC509	5	F	164	95-1938-164
13B97E3	5	F	174	95-1938-174
13A9EEC	5	F	181	95-1938-181
13A88AF	5	F	199	95-1938-199
142C1C6	5	F	201	95-1938-201
13AF004	5	F	209	95-1938-209
13BC7C0	5	F	9	95-1938-9
13C0392	5	F	22	95-1938-22
13BD9B5	5	F	43	95-1938-43
13A8707	5	F	48	95-1938-48
13AA659	5	F	35	95-1938-35
13BBF7C	5	F	104	95-1938-104
13A89FA	5	F	107	95-1938-107
13AF28D	5	F	115	95-1938-115
142CC26	5	F	134	95-1938-134
13A7F8A	5	F	116	95-1938-116
13A755B	5	F	158	95-1938-158
13C037E	5	F	168	95-1938-168
13A84CC	5	F	173	95-1938-173
13A9321	5	F	183	95-1938-183
13BF0BA	5	F	185	95-1938-185

Transponder Number	Group	Sex	Sequence Number	Histology Number
13BDD52	5	F	192	95-1938-192
142CD58	5	F	193	95-1938-193
13A9AA0	5	F	197	95-1938-197
13BDDC4	5	F	204	95-1938-204
13AF698	5	F	4	95-1938-4
13BC3A3	5	F	14	95-1938-14
142CB40	5	F	39	95-1938-39
13BD293	5	F	68	95-1938-68
13A9CDD	5	F	74	95-1938-74
13A8169	5	F	82	95-1938-82
13A73A6	1	M	86	95-1938-86
13B9ACD	1	M	95	95-1938-95
13AFA23	1	M	99	95-1938-99
13A7AD1	1	M	97	95-1938-97
13AFB14	1	M	60	95-1938-60
13A83B3	1	M	64	95-1938-64
13C36FA	1	M	57	95-1938-57
13AA040	2	M	92	95-1938-92
13BD99F	2	M	96	95-1938-96
13A9760	2	M	55	95-1938-55
1453668	2	M	94	95-1938-94
13A9531	2	M	56	95-1938-56
13AF572	2	M	59	95-1938-59
13A8951	2	M	63	95-1938-63
13B9830	3	M	91	95-1938-91
13BD6F6	3	M	98	95-1938-98
13A77E4	3	M	51	95-1938-51
13A88BE	3	M	83	95-1938-83
13A9048	3	M	90	95-1938-90
1241EB3	3	M	93	95-1938-93
13B9A20	3	M	65	95-1938-65
13AF7BE	4	M	84	95-1938-84
13BDBA1	4	M	85	95-1938-85
13BDB5D	4	M	53	95-1938-53
142BF51	4	M	87	95-1938-87
1344D46	4	M	50	95-1938-50
142CDC8	4	M	58	95-1938-58
13BDBFA	4	M	67	95-1938-67
13A8BD4	5	M	49	95-1938-49
142CBDC	5	M	52	95-1938-52
13Cl2AF	5	M	61	95-1938-61
13AF52C	5	M	88	95-1938-88
13BD7AF	5	M	54	95-1938-54
13BCDC4	5	M	62	95-1938-62
13BD7B9	5	M	66	95-1938-66

PATHOLOGY ASSOCIATES INTERNATIONAL
Two-Generation Reproductive Study in Mink Fed
Diisopropyl Methylphosphonate (DIMP)
Study Number TP-001
Animal Number Assignment Second Generation (F1)

Transponder Number	Group	Sex	Sequence Number	Histology Number
3C47F3	1	F	400	95-1938-400
3B92Al	1	F	401	95-1938-401
DlEO8E	1	F	402	95-1938-402
D3BC11	1	F	403	95-1938-403
D269BE	1	F	404	95-1938-404
C49F03	1	F	405	95-1938-405
3AB369	1	F	406	95-1938-406
D3BCFB	1	F	407	95-1938-407
3BC869	1	F	408	95-1938-408
3B54Al	1	F	409	95-1938-409
D3451C	1	F	410	95-1938-410
D3A01C	1	F	411	95-1938-411
D2A766	1	F	412	95-1938-412
D3D552	1	F	413	95-1938-413
C49C3E	1	F	414	95-1938-414
3A7332	1	F	415	95-1938-415
3BD377	1	F	416	95-1938-416
3BD376	1	F	417	95-1938-417
D1E00B	1	F	418	95-1938-418
D2B05E	1	F	419	95-1938-419
D2C2l4	1	F	420	95-1938-420
D2A416	1	F	421	95-1938-421
2A65AF	1	F	422	95-1938-422
3A94E8	1	F	423	95-1938-423
D23179	1	F	424	95-1938-424
D3E361	1	F	425	95-1938-425
3AF5A0	1	F	426	95-1938-426
D26D0F	1	F	427	95-1938-427
D3AE78	1	F	428	95-1938-428
D1CE49	1	F	429	95-1938-429
D2C0B2	1	F	430	95-1938-430
D3D2E5	1	F	431	95-1938-431
D39EC1	1	F	432	95-1938-432
D3A02D	1	F	433	95-1938-433

Transponder Number	Group	Sex	Sequence Number	Histology Number
D33AD7	1	F	434	95-1938-434
D2B7B5	1	F	435	95-1938-435
3AA7C7	1	F	436	95-1936-436
D2C9B8	1	F	437	95-1938-437
C49DDC	1	F	438	95-1938-438
3BC24E	2	F	439	95-1938-439
3C0170	2	F	440	95-1938-440
3A8E40	2	F	441	95-1938-441
D3BD0D	2	F	442	95-1938-442
2A61FC	2	F	443	95-1939-443
D298A1	2	F	444	95-1938-444
453573	2	F	445	95-1938-445
D33DAB	2	F	446	95-1938-446
D3D879	2	F	447	95-1938-447
D3EI76	2	F	448	95-1938-448
D26CB8	2	F	449	95-1938-449
D1F0DF	2	F	450	95-1938-450
3C5769	2	F	451	95-1938-451
3BC379	2	F	452	95-1938-452
D34E32	2	F	453	95-1938-453
3BC071	2	F	454	95-1938-454
3C2922	2	F	455	95-1938-455
D342B3	2	F	456	95-1938-456
3B966B	2	F	457	95-1938-457
C49D15	2	F	458	95-1938-458
3BC6F9	2	F	459	95-1938-459
D337D2	2	F	460	95-1938-460
3A9C35	2	F	461	95-1938-461
3BD177	2	F	462	95-1938-462
3C5520	2	F	463	95-1938-463
C4AlCD	2	F	464	95-1938-464
3B8E24	2	F	465	95-1938-465
D33E65	2	F	466	95-1938-466
2A7079	2	F	467	95-1938-467
D1CC60	2	F	468	95-1938-468
D395AE	2	F	469	95-1938-469
3AF2A4	2	F	470	95-1938-470
D2C9B8	2	F	471	95-1938-471
D3D482	2	F	472	95-1938-472
D34AE3	2	F	473	95-1938-473

Transponder Number	Group	Sex	Sequence Number	Histology Number
C49BC3	2	F	474	95-1938-474
D3AE26	2	F	475	95-1938-475
D34A0C	2	F	476	95-1938-476
D3B9D9	2	F	477	95-1938-477
D3CB8D	3	F	478	95-1938-478
D3D40F	3	F	479	95-1938-479
D3ACA1	3	F	480	95-1938-480
3BC220	3	F	481	95-1938-481
3A86DB	3	F	482	95-1938-482
D34B84	3	F	483	95-1938-483
C4A2A9	3	F	484	95-1938-484
D1CE6D	3	F	485	95-1938-485
D27A0E	3	F	486	95-1938-486
D39646	3	F	487	95-1938-487
3C5427	3	F	488	95-1938-488
D27918	3	F	489	95-1938-489
3C0CDC	3	F	490	95-1938-490
D33E89	3	F	491	95-1938-491
D27861	3	F	492	95-1938-492
D3B6DA	3	F	493	95-1938-493
3C490C	3	F	494	95-1938-494
3C078A	3	F	495	95-1938-495
D1D07C	3	F	496	95-1938-496
C49F17	3	F	497	95-1938-497
D2BBA7	3	F	498	95-1938-498
3BB4DD	3	F	499	95-1938-499
2A69BC	3	F	500	95-1938-500
42CCC5 (lost ID #) (D1E04C)	3	F	501	95-1938-501
2A65AB	3	F	502	95-1938-502
D2A8EE	3	F	503	95-1938-503
243D3C	3	F	504	95-1938-504
D2ACFB	3	F	505	95-1938-505
3AB624	3	F	506	95-1938-506
D3ACC7	3	F	507	95-1938-507
D34BDF	3	F	508	95-1938-508
3BC2D4	3	F	509	95-1938-509
3BB096	3	F	510	95-1938-510
D2C11B	3	F	511	95-1938-511
2A6CC1	3	F	512	95-1938-512

Transponder Number	Group	Sex	Sequence Number	Histology Number
D340AD	3	F	513	95-1938-513
D3C7E8	3	F	514	95-1938:514
3BB95A (lost ID #)				
(D3D44C)	3	F	515	95-1938-515
D2AA42	3	F	516	95-1938-516
D3974A	4	F	517	95-1938-517
D33B9E	4	F	518	95-1938-518
D3BE21	4	F	519	95-1938-519
D34C2A	4	F	520	95-1938-520
D3B5F6	4	F	521	95-1938-521
D33C78	4	F	522	95-1938-522
D2B757	4	F	523	95-1938-523
D3AEBC	4	F	524	95-1938-524
D3961D	4	F	525	95-1938-525
D3B41F	4	F	526	95-1938-526
D3BD5E	4	F	527	95-1938-527
D3B472	4	F	528	95-1938-528
D33822	4	F	529	95-1938-529
D3C2D9	4	F	530	95-1938-530
D3B513	4	F	531	95-1938-531
D26C0B	4	F	532	95-1938-532
3C24BF	4	F	533	95-1938-533
D39505	4	F	534	95-1938-534
D3C1EA	4	F	535	95-1938-535
D2AC93	4	F	536	95-1938-536
D340C6	4	F	537	95-1938-537
D29B43	4	F	538	95-1938-538
35CCAD	4	F	539	95-1938-539
3BA348	4	F	540	95-1938-540
D2A5BD	4	F	541	95-1938-541
C4A0CC	4	F	542	95-1938-542
C4A2 F5	4	F	543	95-1938-543
D29903	4	F	544	95-1938-544
D2D785	4	F	545	95-1938-545
42C18E	4	F	546	95-1938-546
D2B789	4	F	547	95-1938-547
D3BE74	4	F	548	95-1938-548
D1C3E1	4	F	549	95-1938-549
D26C58	4	F	550	95-1938-550
D33CC7	4	F	551	95-1938-551
D3BA75	4	F	552	95-1938-552

Transponder Number	Group	Sex	Sequence Number	Histology Number
C49AF5	4	F	553	95-1938-553
D3D5C6	4	F	554	95-1938-554
3C548C	5	F	555	95-1938-555
D29AFA	5	F	556	95-1938-556
3B577F	5	F	557	95-1938-557
3C57DE	5	F	558	95-1938-558
D39DEE	5	F	559	95-1938-559
3BDE4F	5	F	560	95-1938-560
C49F93	5	F	561	95-1938-561
C4A363	5	F	562	95-1938-562
3C5979	5	F	563	95-1938-563
3AED4A (lost ID #) (3C552B)	5	F	564	95-1938-564
3AA54C	5	F	565	95-1938-565
D3C08A	5	F	566	95-1938-566
D3C84D	5	F	567	95-1938-567
D3BA82	5	F	568	95-1938-568
D3BB72	5	F	569	95-1938-569
D39698	5	F	570	95-1938-570
2A6574	5	F	571	95-1938-571
D3D591	5	F	572	95-1938-572
D3D662	5	F	573	95-1938-573
C496EA	5	F	574	95-1938-574
D34685	5	F	575	95-1938-575
3B9802	5	F	576	95-1938-576
3BD4D7	5	F	577	95-1938-577
3C54A7	5	F	578	95-1938-578
D3B9FF	5	F	579	95-1938-579
D3D741	5	F	580	95-1938-580
3AB5BC	5	F	581	95-1938-581
42CF54	5	F	582	95-1938-582
D2349D	5	F	583	95-1938-583
D3C9E0	5	F	584	95-1938-584
3BDE29	5	F	585	95-1938-585
2A7304	5	F	586	95-1938-586
3BB9C3	5	F	587	95-1938-587
3BAEE4	5	F	588	95-1938-588
D29417	5	F	589	95-1938-589
D2A847	5	F	590	95-1938-590
3B9978	5	F	591	95-1938-591

Transponder Number	Group	Sex	Sequence Number	Histology Number
D3B98B	5	F	592	95-1938-592
D2C940	5	F	593	95-1938-593
3C5657	1	M	300	95-1938-300
3B95F2	1	M	301	95-1938-301
D2799C	1	M	302	95-1938-302
C4A412	1	M	303	95-1938-303
D3B5D3	1	M	304	95-1938-304
C49C3A	1	M	305	95-1938-305
2A6F4C	1	M	306	95-1938-306
2A6F55	1	M	307	95-1938-307
D3A0D5	1	M	308	95-1938-308
D2A805	1	M	309	95-1938-309
DID244	1	M	310	95-1938-310
D3B6E1	1	M	311	95-1938-311
D2B253	1	M	312	95-1938-312
D34194	2	M	313	95-1938-313
D2ADI 5	2	M	314	95-1938-314
3BCE46	2	M	315	95-1938-315
3C22B6	2	M	316	95-1938-316
D3B3BD	2	M	317	95-1938-317
3BA59C	2	M	318	95-1938-318
3C205C	2	M	319	95-1938-319
4534Al	2	M	320	95-1938-320
3BC37A	2	M	321	95-1938-321
D3BAE6	2	M	322	95-1938-322
D2B119	2	M	323	95-1938-323
D34989	2	M	324	95-1938-324
3C1B2A	2	M	325	95-1938-325
D3B9C9	3	M	326	95-1938-326
3BCO63	3	M	327	95-1938-327
D3D4A4	3	M	328	95-1938-328
D3BDFD	3	M	329	95-1938-329
D26BlO	3	M	330	95-1938-330
D2A81C	3	M	331	95-1938-331
D34844	3	M	332	95-1938-332
D2B76D	3	M	333	95-1938-333
D3ECCB	3	M	334	95-1938-334
D3B266	3	M	335	95-1938-335
42COl E (lost ID #) (D29BAD)	3	M	336	95-1938-336

Transponder Number	Group	Sex	Sequence Number	Histology Number
D34A55	3	M	337	95-1938-337
D39768	3	M	338	95-1938-338
D34C9B	4	M	339	95-1938-339
D30565	4	M	340	95-1938-340
C4A350	4	M	341	95-1938-341
3AF74B (lost ID #)				
(D3AD07)	4	M	342	95-1938-342
D3BD6B	4	M	343	95-1938-343
3BD549	4	M	344	95-1938-344
D27Al F	4	M	345	95-1938-345
3C56CE	4	M	346	95-1938-346
2A6547	4	M	347	95-1938-347
3BC182	4	M	348	95-1938-348
D34DFF (lost ID #)				
(3BB786)	4	M	349	95-1938-349
3C540E	4	M	350	95-1938-350
D33C3F	4	M	351	95-1938-351
42CEB3	5	M	352	95-1938-352
D33E24	5	M	353	95-1938-353
D34CF3	5	M	354	95-1938-354
C49DC2	5	M	355	95-1938-355
3A9C31	5	M	356	95-1938-356
3BB83B	5	M	357	95-1938-357
3C4773	5	M	358	95-1938-358
C4A454	5	M	359	95-1938-359
D278FF	5	M	360	95-1938-360
3BB782	5	M	361	95-1938-361
3A9369	5	M	362	95-1938-362
D3AEA7	5	M	363	95-1938-363
D3D4E8	5	M	364	95-1938-364

APPENDIX 3A Individual and Group Mean Food Consumption

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 1-F SEX: FEMALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	2-23-95	3-3-95	3-30-95	4-6-95	4-13-95	4-20-95	4-27-95	5-4-95	5-11-95	5-18-95	6-1-95	6-8-95
3A8E3E	212.0	89.5	157.1	74.0	159.5	94.3	154.8	154.9	228.4	270.9	445.6	618.9
3A9DC6	273.9	100.7	233.1	148.5	210.3	151.8	116.6	9.8	177.5	258.9	411.5	576.2
3BCFA2	135.7	137.1	63.6	86.7	104.2	106.8	133.9	52.5	186.1	248.9	357.2	604.8
3A96E2	138.0	131.8	251.9	199.7	203.4	140.0	256.5	70.1	132.5	236.1	363.9	449.5
3A7659	74.2	71.5	141.7	239.6	183.9	226.4	117.3	35.3	140.9	221.6	341.9	428.3
3AE95B	174.1	109.4	269.9	118.8	203.8	296.9	147.4	4.2	139.2	213.3	335.5	472.5
3C02E3	169.5	160.2	139.0	275.8	285.5	263.3	220.4	114.0	97.9	162.6	268.3	288.0
3BCE60	213.7	113.1	158.8	134.9	142.3	119.6	222.8	11.9	152.2	264.8	374.2	454.3
3A8832	172.2	185.9	102.6	120.5	133.2	158.7	105.7	182.5	186.6	306.8	470.7	440.0
3AE89E	165.4	131.5	102.7	76.2	132.8	8.7	162.5	3.8	180.9	4.6	200.1	5.5
3AF73F	200.1	171.0	317.0	198.9	285.5	301.8	170.7	10.0	159.2	268.2	435.3	560.0
3A750C	176.8	149.8	113.0	125.5	279.1	260.8	228.8	194.6	223.1	301.7	413.1	438.3
3A839D	125.1	114.9	182.2	151.1	283.2	149.9	54.2	10.9	113.5	68.6	285.5	401.8
3A8629	232.9	201.2	237.9	127.4	90.0	197.1	268.9	3.1	210.0	319.9	392.0	540.6
3BDE9F	162.0	63.8	302.4	182.3	233.4	169.1	269.9	111.8	202.6	332.0	413.5	722.8
3A9E30	108.6	136.5	201.1	87.5	250.0	151.4	136.0	150.6	280.1	--	463.0	479.0
3B9914	162.8	8.2	166.2	153.7	115.7	198.0	132.7	157.0	219.8	297.6	406.1	695.6
3B9750	142.2	89.9	148.6	191.3	201.6	139.9	7.2	5.5	50.3	103.4	206.8	213.5
3BDDB3	137.1	114.4	188.6	195.6	288.0	301.3	106.5	71.5	109.6	157.1	141.0	109.7
3BD025	201.4	176.5	201.1	148.5	157.1	220.7	187.9	85.7	13.0	250.8	304.4	393.4
3AF44B	247.4	281.1	150.9	102.8	185.2	172.8	123.5	34.3	175.5	255.6	313.1	405.5
3A978D	180.2	159.3	218.7	225.8	216.6	175.4	128.0	102.2	231.5	285.4	450.5	636.0
3C02DA	107.9	67.3	117.5	293.6	127.4	182.0	182.6	126.3	214.5	282.4	386.9	534.0
3A9064	122.4	60.3	182.2	278.6	139.3	306.9	266.5	109.9	123.6	243.4	352.9	669.2
3A980C	181.8	80.6	182.7	300.9	210.7	152.9	199.2	16.6	157.7	316.0	429.9	512.7
3C0353	118.5	166.4	146.1	127.7	54.5	164.3	114.4	6.4	155.6	239.9	424.2	680.9
3B9064	274.1	76.2	131.2	193.4	167.3	114.3	80.1	211.3	222.6	299.6	458.6	673.1
3A805D	158.6	285.4	156.2	162.8	138.4	159.7	47.0	72.7	103.9	192.5	347.4	499.6
3BE0EE	184.2	144.7	104.6	134.9	106.9	228.4	194.2	76.1	172.2	283.6	427.6	653.9
3AA5F2	89.2	141.7	200.1	200.3	162.8	141.3	114.9	118.1	188.1	310.8	521.0	766.3
3B8C34	71.3	128.2	151.4	119.1	116.0	142.7	142.2	179.2	166.7	297.8	356.0	499.6
3B965A	10.0	209.9	99.4	144.0	137.9	150.3	7.8	155.2	205.0	303.2	217.9	611.5
3C38B2	154.7	286.8	166.3	161.8	160.3	118.8	122.6	108.8	109.6	221.5	418.8	556.8
3AF50D	152.3	289.9	161.2	290.3	179.6	261.2	16.3	150.2	202.0	303.5	486.7	751.6
3BBB2F	250.1	174.8	164.2	231.3	95.2	216.4	200.2	97.2	184.1	270.6	401.8	685.6
MEAN	162.3	143.1	171.7	171.5	175.4	181.3	146.9	85.8	166.2	246.9	372.1	515.1
S.D.	57.52	68.07	57.30	64.23	62.35	67.02	71.54	64.56	54.29	73.93	87.35	172.13
N	35	35	35	35	35	35	35	35	35	34	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 1-F SEX: FEMALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	6-22-95
3A8E3E	241.2
3A9DC6	1.6
3BCFA2	322.2
3A96E2	54.8
3A7659	268.5
3AE95B	206.8
3C02E3	161.9
3BCE60	257.7
3A8832	214.5
3AE89E	217.2
3AF73F	311.2
3A750C	273.2
3A839D	178.6
3A8629	229.2
3BDE9F	233.1
3A9E30	135.9
3B9914	223.8
3B9750	259.5
3BDDB3	140.1
3BD025	--
3AF44B	307.4
3A978D	288.2
3C02DA	274.1
3A9064	285.0
3A980C	267.1
3C0353	294.2
3B9064	144.3
3A805D	239.2
3BE0EE	323.0
3AA5F2	303.1
3B8C34	235.0
3B965A	3.9
3C38B2	296.1
3AF50D	206.0
3BBB2F	258.1
MEAN	225.2
S.D.	82.69
N	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 2-F SEX: FEMALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	2-23-95	3-3-95	3-30-95	4-6-95	4-13-95	4-20-95	4-27-95	5-4-95	5-11-95	5-18-95	6-1-95	6-8-95
3A9DAA	161.6	108.9	129.7	135.3	139.6	230.9	231.0	122.6	115.0	234.9	398.3	519.5
3A8C80	255.7	189.5	177.4	16.4	262.1	170.0	51.7	202.1	199.3	292.3	401.8	546.9
3A8535	267.0	120.2	167.6	147.8	93.2	57.0	102.7	96.9	3.9	214.1	336.8	356.8
3A741E	227.4	223.9	228.0	194.4	287.4	261.7	226.1	82.6	103.1	192.2	271.8	366.3
3A7334	267.9	188.4	113.1	152.1	167.1	92.9	205.2	68.8	148.3	258.2	400.5	423.0
3BBFCD	156.7	220.2	268.1	164.2	111.6	152.9	130.8	110.3	186.5	310.4	350.0	673.9
3AFB6A	182.2	160.6	109.8	168.9	204.5	79.1	153.1	4.8	169.3	313.6	365.3	620.9
453534	205.9	127.2	168.2	194.5	83.9	189.4	86.0	104.9	105.9	261.5	175.7	224.1
3A80AA	277.6	127.2	163.1	172.8	126.8	175.2	258.1	125.7	172.7	309.6	360.3	656.4
42CD79	128.7	224.5	172.5	166.7	169.7	44.3	229.4	115.0	147.4	305.5	339.3	568.9
3AF2CF	147.9	58.2	206.9	153.0	215.5	106.3	79.1	174.3	199.5	279.1	478.8	711.4
3A8696	259.8	275.4	144.4	173.3	182.5	134.7	141.2	137.4	182.0	306.0	295.1	732.0
3BBF9A	151.2	122.1	107.3	112.6	169.7	161.1	115.8	147.9	152.6	288.4	427.1	591.7
453604	109.7	126.1	119.4	135.4	144.8	167.1	223.1	141.6	184.0	294.8	423.1	647.4
3A9033	127.6	133.4	91.8	151.1	167.8	118.1	180.0	136.7	131.0	292.7	358.2	616.2
3A834F	138.5	121.2	131.3	143.7	144.4	236.7	5.8	141.0	202.9	--	530.4	737.8
3AF7D0	292.4	114.6	64.7	115.6	56.1	144.7	152.2	14.3	--	--	--	--
3A7B78	243.0	199.3	93.3	309.0	193.9	139.7	109.2	109.5	193.7	302.5	496.8	752.6
3C03E2	143.3	116.8	134.7	153.3	134.8	150.6	113.0	106.5	164.7	236.6	364.2	531.3
3BC87A	162.4	89.8	118.2	153.0	110.6	232.0	9.3	143.6	100.6	212.0	243.6	93.9
3A75EF	183.9	167.7	124.1	148.2	168.6	136.1	137.1	69.9	133.1	207.6	377.2	510.8
42CBD4	136.2	201.4	129.1	112.6	82.8	102.4	132.9	143.8	193.7	209.6	247.3	167.8
3BA6D1	116.7	274.2	159.3	142.6	152.3	193.1	144.5	6.9	172.1	255.3	356.3	726.0
3BCD1D	62.8	278.7	99.4	160.4	154.8	226.2	59.7	130.2	185.6	264.2	384.5	604.8
3A92EE	96.6	115.5	183.0	148.9	123.5	220.0	57.3	137.9	65.1	132.5	119.6	74.5
42C1D5	150.9	115.7	150.6	264.0	133.2	245.3	149.4	203.9	237.0	310.6	456.7	728.6
3A87D4	141.3	82.2	148.6	181.7	115.4	228.0	147.1	21.3	153.4	262.1	407.5	398.2
3B97B2	134.9	95.1	105.0	102.9	43.1	206.8	126.2	124.6	29.5	211.7	325.5	386.2
3A7F96	223.4	282.9	151.8	150.5	187.5	218.7	151.3	73.2	229.1	316.8	396.4	719.4
3A7339	272.1	285.0	148.1	172.2	156.8	105.0	38.5	153.0	261.3	--	345.1	755.2
3BD98A	272.1	228.4	178.8	180.3	191.4	160.8	200.5	133.8	165.8	311.9	402.4	709.6
3BCFD4	181.3	90.6	153.1	155.7	290.1	100.5	11.0	98.2	131.7	--	277.8	347.3
3AF9C7	82.9	76.0	106.6	130.4	191.2	122.0	98.5	207.7	264.8	--	493.8	724.3
3BDD85	190.1	201.7	95.1	137.3	122.2	14.9	124.9	99.1	139.5	189.2	365.6	594.3
3A7F30	243.8	155.0	7.3	302.7	215.0	296.5	202.9	5.5	5.1	123.8	8.8	184.4
MEAN	182.7	162.8	138.6	160.1	157.0	160.6	131.0	111.3	153.8	256.7	352.4	529.5
S.D.	63.27	66.57	47.09	51.90	56.81	65.75	66.74	53.64	62.77	53.88	105.81	203.34
N	35	35	35	35	35	35	35	35	34	30	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 2-F SEX: FEMALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	6-22-95
3A9DAA	211.6
3A8C80	323.1
3A8535	13.2
3A741E	251.9
3A7334	276.4
3BBFCD	244.2
3AFB6A	285.5
453534	189.7
3A80AA	305.8
42CD79	297.6
3AF2CF	202.2
3A8696	185.9
3BBF9A	74.0
453604	209.7
3A9033	173.6
3A834F	127.3
3AF7D0	--
3A7B78	291.5
3C03E2	116.7
3BC87A	205.1
3A75EF	207.7
42CBD4	296.8
3BA6D1	235.2
3BCD1D	138.7
3A92EE	106.9
42C1D5	127.3
3A87D4	253.5
3B97B2	--
3A7F96	114.3
3A7339	332.1
3BD98A	313.0
3BCFD4	208.0
3AF9C7	142.4
3BDD85	132.5
3A7F30	137.3
MEAN	204.0
S.D.	80.32
N	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 3-F SEX: FEMALE PAGE: 1
DOSE: 150(ppm)

ANIMAL #	2-23-95	3-3-95	3-30-95	4-6-95	4-13-95	4-20-95	4-27-95	5-4-95	5-11-95	5-18-95	6-1-95	6-8-95
3BDB60	133.4	146.7	149.7	149.3	180.9	81.5	68.4	50.2	3.5	--	--	--
3AF411	124.0	147.8	143.6	193.9	284.3	245.1	157.8	118.8	161.1	169.6	358.1	703.6
3BD077	236.3	179.5	116.6	181.2	193.3	153.1	144.5	145.6	224.8	264.6	367.7	630.0
3BDC7C	172.9	171.5	178.9	176.2	81.4	167.5	92.0	167.5	39.5	127.3	259.9	637.2
3BC212	120.8	238.6	171.5	140.8	222.7	240.5	260.0	99.5	154.2	231.6	252.6	497.3
3BC4F6	259.9	215.6	286.5	259.2	202.1	49.1	87.4	4.2	152.6	210.9	371.1	653.0
3A88DB	266.7	151.6	58.7	191.1	161.6	243.9	236.7	260.3	140.9	88.9	115.1	143.8
3BD85E	120.3	103.4	173.9	157.0	210.7	104.3	203.5	160.3	134.6	131.0	8.2	121.7
3C3799	147.4	123.8	118.2	166.5	160.3	131.5	149.6	57.2	95.8	136.0	289.5	266.4
3A7541	269.9	194.5	136.7	137.0	124.6	112.3	162.9	155.2	156.7	145.8	216.5	120.8
42D0D5	143.3	122.1	111.1	82.7	141.2	141.4	116.9	122.0	129.4	127.6	53.8	156.1
42C15D	128.1	139.8	163.5	192.1	291.5	153.9	226.3	161.2	398.7	--	586.3	808.4
3A909E	247.7	160.8	251.3	134.8	216.3	218.8	204.2	140.1	140.7	181.7	360.2	401.7
3A7D5E	179.9	149.9	129.1	137.8	41.5	159.3	7.0	4.5	4.2	--	--	--
3B981B	236.0	144.9	75.2	208.1	291.4	259.1	222.8	90.7	213.1	286.5	409.1	589.7
3A9C67	196.9	132.5	187.3	109.5	222.2	150.5	99.6	130.2	97.0	117.6	118.8	167.7
3AA6F5	162.0	183.2	146.2	145.9	203.9	194.2	107.6	128.6	128.7	164.4	382.6	639.9
3C029E	190.3	299.3	146.9	174.6	110.8	190.5	265.7	71.7	117.2	93.9	98.5	107.7
3A9663	117.0	160.2	193.5	113.6	117.1	134.7	129.6	169.1	195.3	274.8	448.9	647.6
3AED4C	285.1	189.5	70.7	189.9	291.3	222.4	151.2	5.1	201.3	235.6	423.8	636.6
3A8497	189.0	167.6	152.2	173.0	190.6	158.2	133.9	49.2	114.2	86.4	111.9	162.7
3A7799	248.0	150.6	114.4	137.5	111.3	89.6	145.9	126.2	151.1	125.4	104.1	145.0
3A8267	96.7	305.0	191.2	289.6	188.1	44.1	123.8	138.2	143.6	106.1	143.9	170.5
3BBFF6	109.6	127.9	114.0	91.4	108.2	75.6	100.4	14.3	65.3	84.9	85.0	126.5
3C0296	124.5	114.7	193.0	128.8	122.5	113.8	154.8	128.8	151.5	158.0	196.5	169.2
4536B1	69.5	125.8	140.9	122.5	124.7	88.3	119.7	139.5	125.2	133.2	150.8	156.7
3B9A6A	89.3	121.5	146.1	160.9	194.6	168.9	208.1	164.4	46.4	115.1	196.9	121.0
3BC70C	129.7	292.1	150.2	293.2	187.8	94.6	74.4	156.9	188.8	208.3	383.3	843.3
3B90DE	181.4	58.8	153.7	193.5	200.1	159.0	207.6	121.3	136.0	145.0	138.9	163.9
3A88CD	135.9	10.8	73.6	144.9	128.1	119.1	94.3	171.4	198.5	255.4	438.6	601.6
3A71EB	118.4	170.2	134.9	139.6	126.9	135.8	158.1	6.9	113.9	240.4	414.5	656.8
3BE47F	130.8	105.1	163.6	160.9	147.1	105.6	65.5	134.8	207.3	--	501.8	896.8
3A8FAB	270.0	230.3	142.8	286.5	249.7	257.8	129.9	108.0	163.8	194.0	506.3	897.0
3BCF8B	281.5	191.0	196.3	94.6	86.8	219.9	166.0	143.6	112.4	120.5	116.5	199.0
3B95CC	284.1	158.8	131.4	111.6	147.6	162.5	148.1	119.8	5.7	67.8	147.1	258.0
MEAN	177.0	162.4	148.8	164.8	173.2	152.8	146.4	113.3	137.5	162.2	265.4	409.0
S.D.	65.50	60.71	46.57	53.15	62.98	59.31	58.84	58.83	73.72	62.23	155.43	276.13
N	35	35	35	35	35	35	35	35	35	31	33	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 3-F SEX: FEMALE PAGE: 2
DOSE: 150 (ppm)

ANIMAL #	6-22-95
3BDB60	--
3AF411	228.5
3BD077	133.3
3BDC7C	--
3BC212	210.6
3BC4F6	274.0
3A88DB	174.6
3BD85E	297.0
3C3799	201.9
3A7541	162.5
42D0D5	179.4
42C15D	194.9
3A909E	164.2
3A7D5E	--
3B981B	272.6
3A9C67	148.0
3AA6F5	287.6
3C029E	139.7
3A9663	240.1
3AED4C	225.4
3A8497	189.7
3A7799	183.3
3A8267	139.5
3BBFF6	195.7
3C0296	208.1
4536B1	118.3
3B9A6A	176.6
3BC70C	85.6
3B90DE	109.6
3A88CD	130.6
3A71EB	233.4
3BE47F	216.0
3A8FAB	281.8
3BCF8B	207.9
3B95CC	--
MEAN	193.9
S.D.	54.77
N	31

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 4-F SEX: FEMALE PAGE: 1
DOSE: 450(ppm)

ANIMAL #	2-23-95	3-3-95	3-30-95	4-6-95	4-13-95	4-20-95	4-27-95	5-4-95	5-11-95	5-18-95	6-1-95	6-8-95
3C34E0	158.5	63.9	133.2	125.7	119.0	61.6	222.6	88.7	160.9	286.9	431.2	547.0
3C030C	276.7	79.8	203.3	107.0	297.0	130.2	130.5	90.4	137.5	153.4	298.4	376.4
3A9B9F	188.5	101.5	148.7	97.4	107.9	94.6	113.5	152.1	254.4	291.6	449.9	839.7
3A7E26	243.1	180.0	147.3	126.1	148.1	68.1	201.3	193.1	109.0	--	574.1	795.3
3A85C0	132.4	32.8	119.0	159.7	178.2	147.8	202.5	138.1	188.5	267.1	310.5	617.8
3BCD40	157.1	58.3	177.8	174.8	137.5	103.7	72.9	52.5	118.9	113.0	141.1	142.1
3A9EDA	206.9	164.7	180.6	111.9	229.3	223.1	263.8	89.5	157.1	180.1	352.5	504.8
3A744A	72.5	115.9	256.2	155.0	227.8	215.0	163.7	81.9	180.4	192.8	325.8	443.3
3A756C	108.6	130.6	226.1	225.2	298.1	143.3	158.5	79.8	121.6	190.1	355.8	567.4
3A9239	123.4	27.8	127.0	168.9	171.5	107.6	131.8	5.5	157.5	222.7	464.3	508.3
3A9BD3	0.0	97.0	295.6	197.2	297.3	143.2	101.9	18.2	123.5	197.3	329.3	521.9
3C036B	259.4	171.5	142.0	92.8	130.3	105.8	188.5	9.5	197.1	205.4	127.6	597.4
3AE9BE	127.8	159.1	258.4	307.1	301.2	95.5	8.6	104.5	232.6	--	454.2	831.1
3BC5C9	199.5	145.4	6.4	144.5	114.7	147.5	176.4	78.2	213.3	247.6	368.1	660.4
3A9586	271.3	142.6	115.7	143.3	135.2	109.2	151.4	174.7	200.0	168.0	135.8	185.8
3B9759	192.6	167.3	148.4	138.8	169.1	99.9	199.1	159.3	173.8	221.8	316.6	742.4
3C029B	191.2	186.1	73.6	80.0	115.5	151.5	152.3	164.6	151.6	247.3	443.6	843.8
3A845F	274.4	269.3	156.1	224.3	204.1	221.7	147.2	76.9	126.9	102.2	188.5	192.2
3A9F5A	138.4	304.6	188.9	152.9	219.7	--	133.4	104.4	111.4	191.1	437.7	581.8
3BCA81	136.7	121.2	196.8	70.3	190.6	78.9	7.3	154.0	213.2	--	454.9	620.9
3BCD56	118.3	104.6	85.8	103.3	148.1	147.4	117.7	9.0	152.8	148.5	--	--
3BC54E	113.3	263.7	203.5	150.5	215.2	147.5	37.3	102.4	161.4	--	193.7	558.1
3A75FE	60.5	81.1	148.4	100.7	112.8	84.1	122.7	109.9	150.3	209.3	402.0	847.3
3C3500	171.0	166.8	136.3	120.4	150.1	137.6	74.3	116.2	152.9	185.7	358.1	637.4
3A7D2A	218.1	184.3	105.3	114.1	173.3	132.8	210.8	112.8	149.0	173.6	416.7	551.0
3BC4A9	184.7	13.8	--	--	--	--	--	--	--	--	--	--
3BD21C	74.4	158.2	222.4	93.3	141.5	83.5	100.8	149.0	182.0	297.1	344.0	903.4
3AF2E9	150.1	99.8	144.9	299.0	155.1	86.8	104.6	100.6	166.8	238.5	418.3	633.2
3A9666	137.9	76.7	110.5	109.8	206.7	127.8	107.4	192.3	207.1	241.6	432.5	632.9
3AF605	83.6	211.1	69.3	98.6	170.4	102.2	60.2	155.0	206.3	208.0	472.9	748.2
3BC993	273.8	136.8	156.0	75.4	94.3	94.1	13.2	176.2	203.0	--	441.7	800.4
3C3979	149.6	192.4	122.2	290.6	86.4	95.2	115.9	35.4	178.9	224.0	411.9	581.2
3A763C	164.3	217.2	144.7	146.2	147.6	167.4	138.6	139.7	199.6	202.4	444.8	571.3
42D0AE	254.9	204.8	52.8	110.7	124.4	137.1	143.6	113.2	29.6	207.8	288.2	388.3
3C36B3	143.3	139.1	124.0	92.6	86.9	89.8	126.2	21.3	111.4	147.2	391.7	596.9
MEAN	164.5	142.0	150.8	144.4	170.7	123.7	129.4	104.4	164.1	205.6	362.9	593.0
S.D.	67.71	68.00	60.61	61.96	61.43	41.18	61.28	54.28	43.75	48.48	107.46	189.61
N	35	35	34	34	34	33	34	34	34	29	33	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 4-F SEX: FEMALE PAGE: 2
DOSE: 450 (ppm)

ANIMAL #	6-22-95
3C34E0	227.8
3C030C	25.4
3A9B9F	96.3
3A7E26	153.6
3A85C0	201.3
3BCD40	88.6
3A9EDA	203.9
3A744A	240.9
3A756C	272.5
3A9239	313.1
3A9BD3	299.5
3C036B	249.9
3AE9BE	153.7
3BC5C9	175.5
3A9586	179.8
3B9759	302.5
3C029B	150.6
3A845F	179.2
3A9F5A	254.9
3BCA81	342.4
3BCD56	--
3BC54E	162.5
3A75FE	219.3
3C3500	267.2
3A7D2A	276.8
3BC4A9	--
3BD21C	271.7
3AF2E9	178.0
3A9666	233.7
3AF605	141.9
3BC993	157.2
3C3979	318.4
3A763C	245.6
42D0AE	--
3C36B3	165.6
MEAN	210.9
S.D.	73.21
N	32

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 5-F SEX: FEMALE PAGE: 1
DOSE: 2500 (ppm)

ANIMAL #	2-23-95	3-3-95	3-30-95	4-6-95	4-13-95	4-20-95	4-27-95	5-4-95	5-11-95	5-18-95	6-1-95	6-8-95
3A7C53	116.6	118.8	50.5	205.1	143.8	12.9	134.7	123.5	224.5	306.5	467.9	694.9
3A972E	159.8	80.1	148.8	206.8	160.7	167.2	272.8	119.2	184.0	291.9	487.3	801.7
3BCF69	109.2	36.3	134.9	101.5	119.5	147.2	113.2	128.2	160.0	235.4	362.9	568.1
42CE73	127.3	85.0	116.3	154.1	70.5	98.7	144.6	117.0	181.2	204.5	338.5	668.9
3BC509	124.4	9.6	133.0	168.1	146.5	141.9	144.1	4.4	145.9	121.8	283.7	305.4
3B97E3	116.6	47.4	113.4	151.6	137.0	169.4	256.5	121.4	150.9	220.2	404.4	572.0
3A9EEC	107.5	112.8	64.2	174.3	109.3	8.4	218.5	154.3	181.5	167.5	135.0	113.0
3A88AF	143.3	155.7	167.8	116.9	200.7	248.2	231.7	71.7	144.3	114.8	134.7	200.4
42C1C6	10.2	7.5	--	--	--	--	--	--	--	--	--	--
3AF004	204.1	291.5	71.5	73.8	66.0	86.1	105.7	98.3	134.1	124.9	121.7	86.8
3BC7C0	268.8	90.5	55.8	119.1	129.6	148.4	212.6	129.2	165.7	208.4	349.6	381.9
3C0392	143.9	167.5	99.9	127.8	119.5	167.2	273.4	96.1	132.9	267.2	383.1	454.3
3BD9B5	181.8	0.0	227.6	130.1	306.4	246.7	166.3	156.3	208.3	259.8	373.0	526.0
3A8707	115.3	115.8	158.7	206.0	140.6	149.6	153.8	13.2	117.6	131.0	123.3	121.3
3AA659	143.7	113.0	132.0	192.2	269.4	231.6	121.0	90.3	130.6	217.7	353.8	565.8
3BBF7C	280.9	172.6	172.0	130.0	135.7	170.9	134.0	154.6	140.6	272.9	472.8	657.8
3A89FA	102.2	256.8	118.2	202.0	314.6	194.9	110.2	103.0	150.6	216.6	397.4	644.1
3AF28D	131.5	106.4	174.6	142.5	168.4	131.4	154.3	141.4	30.0	141.2	295.2	451.1
42CC26	164.5	25.2	156.3	115.3	201.7	198.4	27.7	2.6	121.7	126.2	187.5	272.7
3A7F8A	211.0	184.0	198.2	131.1	308.1	157.4	193.8	128.1	166.5	271.7	381.0	652.6
3A755B	98.7	110.5	78.4	88.4	227.9	101.4	166.6	126.4	103.3	126.6	127.9	141.4
3C037E	185.0	131.2	125.9	120.9	74.3	130.0	22.2	156.5	207.3	266.0	472.6	563.0
3A84CC	143.8	119.7	175.6	163.4	118.5	85.1	54.5	110.4	183.2	254.7	390.3	777.8
3A9321	208.4	145.1	130.3	134.1	140.9	215.2	108.3	37.4	187.1	239.7	399.5	564.7
3BE0BA	149.6	180.0	141.6	153.3	225.4	10.9	221.4	191.6	144.0	174.2	252.4	459.7
3BDD52	161.1	93.6	200.6	118.5	157.4	221.2	7.5	72.8	141.9	120.0	100.9	237.2
42CD58	157.4	118.5	112.2	76.2	156.6	172.5	126.0	83.7	134.2	177.6	286.3	406.9
3A9AA0	158.3	120.1	148.6	95.5	146.8	134.4	131.4	46.2	110.9	195.7	379.5	523.4
3BDDC4	104.5	169.7	165.7	297.8	124.9	160.9	80.0	137.5	203.1	292.5	465.8	824.2
3AF698	263.8	185.0	80.5	141.0	198.6	122.7	145.6	99.6	219.5	276.8	371.7	576.2
3BC3A3	146.7	65.7	150.0	210.1	102.1	98.4	158.5	145.8	181.7	272.7	381.0	659.2
42CB40	0.0	306.8	152.5	307.0	158.6	163.0	134.4	37.2	120.6	227.5	396.6	730.1
3BD293	297.0	134.8	8.2	240.7	13.4	180.4	184.3	194.7	153.1	249.7	426.1	601.7
3A9CDD	254.9	272.4	152.5	187.4	212.4	228.7	88.4	105.5	143.3	159.0	312.0	447.3
3A8169	199.8	305.9	68.3	139.3	161.2	142.7	111.1	193.1	251.2	263.5	465.6	734.8
MEAN	156.9	132.4	129.0	156.5	160.8	148.4	144.4	108.6	157.5	211.7	331.8	499.6
S.D.	66.00	81.40	48.19	55.30	68.99	61.45	66.25	50.70	41.82	60.39	117.69	209.92
N	35	35	34	34	34	34	34	34	34	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 5-F SEX: FEMALE PAGE: 2
DOSE: 2500 (ppm)

ANIMAL #	6-22-95
3A7C53	268.3
3A972E	109.4
3BCF69	193.5
42CE73	280.2
3BC509	224.6
3B97E3	318.4
3A9EEC	127.4
3A88AF	127.3
42C1C6	--
3AF004	97.3
3BC7C0	260.1
3C0392	236.6
3BD9B5	230.6
3A8707	148.3
3AA659	283.9
3BBF7C	232.4
3A89FA	193.0
3AF28D	225.2
42CC26	327.4
3A7F8A	231.8
3A755B	127.0
3C037E	131.1
3A84CC	169.6
3A9321	184.2
3BE0BA	--
3BDD52	116.5
42CD58	163.1
3A9AA0	223.2
3BDDC4	209.0
3AF698	289.4
3BC3A3	226.1
42CB40	203.8
3BD293	216.0
3A9CDD	296.7
3A8169	218.0
MEAN	208.8
S.D.	62.73
N	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE PAGE: 1

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
2-23-95	INTAKE (g)	162.3	182.7	177.0	164.5	156.9
	S.D.	57.52	63.27	65.50	67.71	66.00
	N	35	35	35	35	35
3-3-95	INTAKE (g)	143.1	162.8	162.4	142.0	132.4
	S.D.	68.07	66.57	60.71	68.00	81.40
	N	35	35	35	35	35
3-30-95	INTAKE (g)	171.7	138.6*	148.8	150.8	129.0**
	S.D.	57.30	47.09	46.57	60.61	48.19
	N	35	35	35	34	34
4-6-95	INTAKE (g)	171.5	160.1	164.8	144.4	156.5
	S.D.	64.23	51.90	53.15	61.96	55.30
	N	35	35	35	34	34
4-13-95	INTAKE (g)	175.4	157.0	173.2	170.7	160.8
	S.D.	62.35	56.81	62.98	61.43	68.99
	N	35	35	35	34	34
4-20-95	INTAKE (g)	181.3	160.6	152.8	123.7**	148.4
	S.D.	67.02	65.75	59.31	41.18	61.45
	N	35	35	35	33	34
4-27-95	INTAKE (g)	146.9	131.0	146.4	129.4	144.4
	S.D.	71.54	66.74	58.84	61.28	66.25
	N	35	35	35	34	34
5-4-95	INTAKE (g)	85.8	111.3	113.3	104.4	108.6
	S.D.	64.56	53.64	58.83	54.28	50.70
	N	35	35	35	34	34

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
5-11-95	INTAKE (g)	166.2	153.8	137.5	164.1	157.5
	S.D.	54.29	62.77	73.72	43.75	41.82
	N	35	34	35	34	34
5-18-95	INTAKE (g)	246.9	256.7	162.2**	205.6*	211.7
	S.D.	73.93	53.88	62.23	48.48	60.39
	N	34	30	31	29	34
6-1-95	INTAKE (g)	372.1	352.4	265.4**	362.9	331.8
	S.D.	87.35	105.81	155.43	107.46	117.69
	N	35	34	33	33	34
6-8-95	INTAKE (g)	515.1	529.5	409.0	593.0	499.6
	S.D.	172.13	203.34	276.13	189.61	209.92
	N	35	34	33	33	34
6-22-95	INTAKE (g)	225.2	204.0	193.9	210.9	208.8
	S.D.	82.69	80.32	54.77	73.21	62.73
	N	34	33	31	32	33

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

ANALYSIS OF VARIANCE

2-23-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5680.4	162.3	57.52						TREATMENTS	4	16250.4	4062.6
2-F	35	6395.5	182.7	63.27	1.33					ERROR	170	698408.5	4108.3
3-F	35	6196.3	177.0	65.50	0.96								
4-F	35	5756.8	164.5	67.71	0.14					TOTAL	174	714658.9	
5-F	35	5491.6	156.9	66.00	0.35								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 37.996
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.99

3-3-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5009.5	143.1	68.07						TREATMENTS	4	25461.3	6365.3
2-F	35	5697.6	162.8	66.57	1.19					ERROR	170	815993.0	4800.0
3-F	35	5685.4	162.4	60.71	1.17								
4-F	35	4969.8	142.0	68.00	0.07					TOTAL	174	841454.3	
5-F	35	4635.5	132.4	81.40	0.65								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 46.636
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.33

3-30-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6011.2	171.7	57.30						TREATMENTS	4	35474.1	8868.5
2-F	35	4849.4	138.6*	47.09	2.66	141.3	202.2*	134.3	209.2	ERROR	168	458613.0	2729.8
3-F	35	5207.4	148.8	46.57	1.84	141.3	202.2	134.3	209.2				
4-F	34	5127.2	150.8	60.61	1.67	141.1	202.4	134.0	209.5	TOTAL	172	494087.1	
5-F	34	4384.6	129.0**	48.19	3.40	141.1	202.4*	134.0	209.5**				

'F' table values F.01 = 3.41 F.05 = 2.41* Coeff. Var. % = 35.336
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 3.25

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

ANALYSIS OF VARIANCE

4-6-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6003.8	171.5	64.23						TREATMENTS	4	14182.2	3545.5
2-F	35	5603.5	160.1	51.90	0.83					ERROR	168	555525.0	3306.7
3-F	35	5769.7	164.8	53.15	0.49								
4-F	34	4908.1	144.4	61.96	1.96					TOTAL	172	569707.2	
5-F	34	5321.9	156.5	55.30	1.08								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 36.035
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.07

4-13-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6140.6	175.4	62.35						TREATMENTS	4	9126.5	2281.6
2-F	35	5493.9	157.0	56.81	1.23					ERROR	168	658334.5	3918.7
3-F	35	6063.2	173.2	62.98	0.15								
4-F	34	5804.9	170.7	61.43	0.31					TOTAL	172	667461.0	
5-F	34	5467.0	160.8	68.99	0.97								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 37.383
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.58

4-20-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6343.9	181.3	67.02						TREATMENTS	4	58974.8	14743.7
2-F	35	5620.7	160.6	65.75	1.44	146.3	216.2	138.3	224.2	ERROR	167	598160.8	3581.8
3-F	35	5346.4	152.8	59.31	1.99	146.3	216.2	138.3	224.2				
4-F	33	4081.5	123.7**	41.18	3.96	145.8	216.7*	137.7	224.8**	TOTAL	171	657135.6	
5-F	34	5044.0	148.4	61.45	2.28	146.1	216.4	138.0	224.5				

'F' table values F.01 = 3.41** F.05 = 2.41* Coeff. Var. % = 38.938
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 4.12

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

ANALYSIS OF VARIANCE

4-27-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5140.2	146.9	71.54				TREATMENTS	4	10360.3	2590.1
2-F	35	4584.6	131.0	66.74	1.02			ERROR	168	711938.5	4237.7
3-F	35	5124.2	146.4	58.84	0.03						
4-F	34	4400.5	129.4	61.28	1.11			TOTAL	172	722298.8	
5-F	34	4909.1	144.4	66.25	0.16						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 46.617
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.61

5-4-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3004.2	85.8	64.56				TREATMENTS	4	17077.8	4269.5
2-F	35	3895.5	111.3	53.64	1.88			ERROR	168	539253.0	3209.8
3-F	35	3965.3	113.3	58.83	2.03						
4-F	34	3548.9	104.4	54.28	1.36			TOTAL	172	556330.8	
5-F	34	3691.2	108.6	50.70	1.67						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 54.136
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.33

5-11-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5816.0	166.2	54.29				TREATMENTS	4	18059.9	4515.0
2-F	34	5229.2	153.8	62.77	0.91			ERROR	167	535933.8	3209.2
3-F	35	4813.0	137.5	73.72	2.12						
4-F	34	5580.3	164.1	43.75	0.15			TOTAL	171	553993.7	
5-F	34	5355.3	157.5	41.82	0.64						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 36.366
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.41

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

ANALYSIS OF VARIANCE

5-18-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	8393.6	246.9	73.93						TREATMENTS	4	175345.9	43836.5
2-F	30	7699.7	256.7	53.88	0.64	209.7	284.1	201.1	292.6	ERROR	153	566915.5	3705.3
3-F	31	5028.3	162.2**	62.23	5.60	210.0	283.8*	201.5	292.2**				
4-F	29	5962.1	205.6*	48.48	2.68	209.3	284.4*	200.7	293.0	TOTAL	157	742261.4	
5-F	34	7196.4	211.7	60.39	2.39	210.8	282.9	202.6	291.2				

'F' table values F.01 = 3.41** F.05 = 2.41* Coeff. Var. % = 28.056
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 11.83

6-1-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	13022.9	372.1	87.35						TREATMENTS	4	243588.2	60897.0
2-F	34	11981.6	352.4	105.81	0.70	303.6	440.6	287.9	456.3	ERROR	164	2228540.0	13588.7
3-F	33	8756.8	265.4**	155.43	3.77	303.1	441.1*	287.2	456.9**				
4-F	33	11976.4	362.9	107.46	0.32	303.1	441.1	287.2	456.9	TOTAL	168	2472128.2	
5-F	34	11281.0	331.8	117.69	1.44	303.6	440.6	287.9	456.3				

'F' table values F.01 = 3.41** F.05 = 2.41* Coeff. Var. % = 34.551
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 4.48

6-8-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	18029.0	515.1	172.13						TREATMENTS	4	581427.6	145356.9
2-F	34	18002.4	529.5	203.34	0.28	390.2	640.1	361.5	668.7	ERROR	164	7416396.0	45221.9
3-F	33	13497.2	409.0	276.13	2.06	389.2	641.0	360.3	669.9				
4-F	33	19569.4	593.0	189.61	1.51	389.2	641.0	360.3	669.9	TOTAL	168	7997823.6	
5-F	34	16986.4	499.6	209.92	0.30	390.2	640.1	361.5	668.7				

'F' table values F.01 = 3.41 F.05 = 2.41* Coeff. Var. % = 41.748
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 3.21

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: FEMALE

6-22-95

ANALYSIS OF VARIANCE

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	7655.7	225.2	82.69				TREATMENTS	4	16921.9	4230.5
2-F	33	6730.7	204.0	80.32	1.21			ERROR	158	814147.5	5152.8
3-F	31	6010.4	193.9	54.77	1.75						
4-F	32	6749.3	210.9	73.21	0.81			TOTAL	162	831069.4	
5-F	33	6889.4	208.8	62.73	0.93						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	34.378
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.82

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 1-M SEX: MALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	2-23-95	3-3-95
3A73A6	267.9	288.8
3B9ACD	135.3	99.0
3AFA23	212.6	227.2
3A7AD1	264.1	178.7
3AFB14	275.5	193.4
3A83B3	275.6	131.4
3C36FA	289.1	290.1
MEAN	245.7	201.2
S.D.	54.44	73.19
N	7	7

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 2-M SEX: MALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	2-23-95	3-3-95
3AA040	232.6	152.8
3BD99F	216.2	212.8
3A9760	293.1	275.9
453668	272.0	104.1
3A9531	270.0	282.5
3AF572	277.8	196.7
3A8951	282.7	278.7
MEAN	263.5	214.8
S.D.	28.15	69.32
N	7	7

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 3-M SEX: MALE PAGE: 3
DOSE: 150(ppm)

ANIMAL #	2-23-95	3-3-95
3B9830	195.0	157.4
3BD6F6	272.2	17.9
3A77E4	292.1	302.6
3A88BE	168.8	196.0
3A9048	262.5	132.5
241EB3	266.2	30.3
3B9A20	272.6	272.9
MEAN	247.1	158.5
S.D.	46.10	109.65
N	7	7

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 4-M SEX: MALE PAGE: 4
DOSE: 450 (ppm)

ANIMAL #	2-23-95	3-3-95
3AF7BE	110.6	66.4
3BDBA1	271.1	278.9
3BDB5D	288.0	312.1
42BF51	229.0	116.0
344D46	274.6	128.7
42CDC8	217.9	299.7
3BDBFA	250.9	255.8
MEAN	234.6	208.2
S.D.	60.19	101.13
N	7	7

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 GROUP: 5-M SEX: MALE PAGE: 5
DOSE: 2500 (ppm)

ANIMAL #	2-23-95	3-3-95
3A8BD4	270.5	280.8
42CBDC	317.0	252.0
3C12AF	274.0	134.7
3AF52C	275.1	138.0
3BD7AF	269.4	137.9
3BCDC4	288.2	38.5
3BD7B9	269.1	316.2
MEAN	280.5	185.4
S.D.	17.40	99.41
N	7	7

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: MALE PAGE: 1

PERIOD	DOSE:(ppm) GROUP:	0 1-M	0 2-M	150 3-M	450 4-M	2500 5-M
2-23-95	INTAKE (g)	245.7	263.5	247.1	234.6	280.5
	S.D.	54.44	28.15	46.10	60.19	17.40
	N	7	7	7	7	7
3-3-95	INTAKE (g)	201.2	214.8	158.5	208.2	185.4
	S.D.	73.19	69.32	109.65	101.13	99.41
	N	7	7	7	7	7

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F0 SEX: MALE

ANALYSIS OF VARIANCE

2-23-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	7	1720.1	245.7	54.44				TREATMENTS	4	8987.2	2246.8
2-M	7	1844.4	263.5	28.15	0.75			ERROR	30	58841.3	1961.4
3-M	7	1729.4	247.1	46.10	0.06						
4-M	7	1642.1	234.6	60.19	0.47			TOTAL	34	67828.5	
5-M	7	1963.3	280.5	17.40	1.47						

'F' table values	F.01 = 4.02	F.05 = 2.69	Coeff. Var. % =	17.418
Dunnett's 'T' table values	P.01 = 3.25	P.05 = 2.58	F Ratio =	1.15

3-3-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	7	1408.6	201.2	73.19				TREATMENTS	4	14129.7	3532.4
2-M	7	1503.5	214.8	69.32	0.28			ERROR	30	253764.6	8458.8
3-M	7	1109.6	158.5	109.65	0.87						
4-M	7	1457.6	208.2	101.13	0.14			TOTAL	34	267894.3	
5-M	7	1298.1	185.4	99.41	0.32						

'F' table values	F.01 = 4.02	F.05 = 2.69	Coeff. Var. % =	47.496
Dunnett's 'T' table values	P.01 = 3.25	P.05 = 2.58	F Ratio =	0.42

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-F SEX: FEMALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
400	156.6	199.2	210.3	265.7	237.1	225.7	223.7	175.5	167.6	162.9	185.7	156.9
401	164.4	131.5	207.9	151.3	192.5	195.4	235.4	183.6	159.3	169.3	178.9	141.6
402	169.8	163.8	160.3	258.5	214.7	197.6	198.0	157.9	157.2	146.9	177.1	150.5
403	--	--	--	--	--	--	--	--	--	--	--	--
404	150.3	197.3	175.0	192.6	159.5	159.1	165.6	120.2	141.4	142.8	173.2	154.3
405	133.2	173.4	223.8	205.8	222.1	138.9	202.3	159.5	173.7	149.5	161.0	161.5
406	138.9	139.7	160.4	167.2	144.3	142.0	146.9	126.1	133.1	146.0	104.7	147.0
407	212.0	197.4	235.7	204.8	210.6	204.4	146.2	206.3	157.3	186.0	100.8	166.8
408	187.5	173.3	195.5	191.2	189.7	180.0	113.4	130.4	155.3	147.1	103.4	109.2
409	181.8	224.6	183.5	222.8	209.6	187.2	213.9	126.7	183.8	211.1	237.8	160.6
410	112.1	133.1	128.9	141.4	125.8	167.8	185.9	132.3	131.5	164.0	145.1	113.0
411	184.0	158.7	181.0	173.0	157.4	168.1	145.4	107.4	141.5	145.6	129.3	90.8
412	161.7	130.0	184.3	172.5	180.8	145.0	151.2	107.1	157.1	150.1	111.1	121.3
413	193.1	181.5	171.9	201.0	206.9	185.8	150.7	97.2	259.7	197.6	166.5	107.9
414	142.6	127.1	190.3	230.5	176.1	221.3	225.8	136.4	148.5	159.3	165.0	135.6
415	143.4	116.8	136.9	129.8	138.8	137.8	139.6	99.7	139.3	130.2	119.9	125.6
416	122.6	151.3	157.9	180.7	174.7	174.1	152.8	155.0	149.8	186.6	112.2	179.4
417	159.2	131.2	156.3	171.1	144.5	155.3	132.9	100.2	129.2	131.8	130.7	92.3
418	--	--	--	--	--	--	--	--	--	--	--	--
419	148.9	143.8	153.4	137.5	132.8	110.3	138.0	84.9	120.5	153.9	133.0	120.2
420	--	--	--	--	--	--	--	--	--	--	--	--
421	177.7	201.2	185.7	186.7	112.9	163.1	172.9	122.5	162.7	150.8	102.0	137.8
422	166.4	192.1	164.8	190.5	179.5	143.9	157.9	141.6	144.8	154.9	133.5	116.8
423	174.8	197.7	202.8	150.2	146.6	169.8	160.6	140.3	148.6	137.7	148.0	159.3
424	144.9	161.6	161.2	167.5	150.1	130.9	185.4	116.7	158.6	122.1	105.8	122.6
425	141.9	213.9	189.5	227.6	199.3	156.6	200.0	106.0	155.4	64.1	151.3	145.6
426	155.2	140.2	158.6	210.1	195.3	147.5	154.0	102.4	95.3	127.0	64.3	91.0
427	193.0	185.4	211.3	223.9	159.9	197.0	197.7	168.5	116.2	145.0	153.7	126.8
428	--	--	--	--	--	--	--	--	--	--	--	--
429	151.1	185.8	203.1	218.3	132.7	162.2	185.2	146.4	181.9	157.4	158.4	131.4
430	134.0	128.1	174.1	119.3	158.3	150.0	162.7	154.9	140.4	147.8	180.1	136.2
431	145.0	161.3	196.2	206.9	168.9	120.5	186.9	160.4	129.7	124.6	154.8	124.3
432	157.3	186.3	209.3	197.7	194.0	154.4	211.3	161.2	179.7	198.4	177.5	160.5
433	151.2	184.6	197.1	213.3	210.3	143.3	203.0	119.6	153.4	137.0	160.2	137.5
434	150.7	87.4	172.3	174.0	166.4	118.5	143.4	98.0	121.0	162.2	154.1	113.0
435	118.9	106.9	133.5	190.1	103.5	8.0	12.6	144.3	148.1	155.1	154.3	95.9
436	145.2	116.0	143.9	117.0	146.7	149.6	180.8	120.8	142.0	174.9	157.7	87.5
437	196.3	167.7	151.9	172.8	153.3	103.1	165.9	129.1	171.1	156.3	142.8	131.1
438	197.1	181.3	175.2	256.8	233.6	156.0	243.3	136.6	212.3	265.9	174.6	140.7
MEAN	158.9	162.0	178.4	189.1	172.3	156.3	171.2	133.6	153.3	156.1	146.0	131.2
S.D.	23.85	33.33	26.05	37.42	34.09	38.83	42.10	27.79	28.80	32.26	33.10	24.00
N	35	35	35	35	35	35	35	35	35	35	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-F SEX: FEMALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
400	187.7	181.7	176.5	133.4	151.3	127.7	142.0	153.5	139.8	157.2	130.2	122.1
401	189.1	160.5	110.2	134.7	137.4	89.9	114.4	93.3	155.7	121.2	153.9	132.0
402	173.7	121.5	117.1	113.7	125.8	59.1	120.0	98.6	135.6	102.7	122.9	162.8
403	--	--	--	--	--	--	--	--	--	--	--	--
404	190.2	154.8	120.6	100.4	78.3	111.9	114.7	124.8	76.0	154.7	165.9	174.6
405	168.1	132.5	102.1	103.7	131.8	137.3	108.9	86.1	94.8	66.2	115.9	145.8
406	124.9	120.2	96.4	79.0	85.5	80.0	92.8	110.6	116.4	116.2	126.6	168.9
407	129.9	144.3	126.9	121.2	110.5	121.9	120.3	125.4	155.8	199.6	178.3	175.9
408	139.8	78.7	106.8	89.1	68.0	80.2	84.8	88.5	102.0	90.6	82.0	120.7
409	154.7	168.5	224.4	160.4	133.7	182.6	137.6	127.4	226.0	154.6	148.7	184.4
410	115.6	120.4	80.0	118.7	92.5	88.4	80.6	94.1	109.2	90.8	82.1	161.8
411	114.3	139.8	7.4	112.4	100.7	108.8	57.1	17.4	150.5	138.4	103.0	143.5
412	122.5	144.5	96.8	72.7	73.4	77.7	93.3	96.6	148.4	114.0	113.8	154.9
413	149.7	147.5	156.2	107.1	143.1	156.7	156.7	135.6	205.7	155.0	165.0	159.0
414	109.1	128.8	105.1	115.2	104.6	59.3	58.6	133.0	10.7	--	--	--
415	122.8	185.6	81.5	95.8	75.7	67.0	90.4	109.9	100.0	119.2	111.9	137.7
416	127.8	117.7	115.0	159.2	111.3	100.7	106.0	90.0	188.6	125.0	115.9	128.5
417	104.8	136.6	110.4	51.8	54.5	77.5	56.5	47.7	118.8	122.8	103.5	77.8
418	--	--	--	--	--	--	--	--	--	--	--	--
419	107.9	160.5	137.0	108.2	70.7	77.6	99.3	83.7	139.7	124.6	122.6	128.9
420	--	--	--	--	--	--	--	--	--	--	--	--
421	124.4	146.1	90.1	88.2	117.6	84.3	87.2	108.8	172.2	135.5	111.6	133.5
422	134.1	140.2	116.5	95.2	119.6	81.3	106.3	127.1	164.6	160.6	164.6	168.3
423	107.0	137.5	99.9	107.9	91.3	79.9	119.5	132.0	172.1	161.2	82.0	195.0
424	114.8	94.0	111.5	97.3	74.8	79.3	88.7	91.9	160.7	117.9	138.7	121.1
425	152.9	201.7	108.6	169.6	139.1	93.3	159.9	182.2	229.9	162.8	221.0	187.8
426	125.2	145.6	103.2	91.7	55.9	68.5	82.0	75.2	75.6	88.0	135.1	109.7
427	159.5	165.2	133.6	130.7	129.7	126.3	123.5	102.7	179.1	151.2	151.7	173.2
428	--	--	--	--	--	--	--	--	--	--	--	--
429	129.4	188.8	95.5	97.8	140.6	107.5	108.3	145.4	167.7	116.8	87.2	145.9
430	161.3	188.2	160.2	111.4	97.2	107.1	122.5	132.0	182.5	115.4	109.0	180.7
431	156.9	124.4	142.9	97.6	118.5	113.2	100.0	103.3	106.1	134.3	121.9	141.8
432	183.0	151.8	135.6	164.0	152.7	118.7	135.7	120.1	173.1	126.1	120.3	163.6
433	178.5	137.0	119.4	159.5	136.4	71.9	70.8	143.7	161.2	105.7	114.1	125.9
434	124.6	110.8	123.9	141.9	129.7	101.7	98.4	95.9	138.0	116.8	140.3	143.5
435	147.4	157.9	174.6	134.6	6.1	153.0	127.5	8.6	139.0	130.4	6.8	210.2
436	135.0	123.0	107.6	63.6	104.0	102.7	109.5	69.7	175.2	111.4	172.6	161.1
437	130.3	127.1	118.5	90.2	92.5	125.0	82.2	97.9	83.9	124.5	134.5	151.6
438	151.6	150.7	188.3	138.0	136.2	133.5	135.3	67.2	176.3	118.2	80.9	139.2
MEAN	141.4	143.8	120.0	113.0	105.4	101.5	105.5	103.4	143.7	127.3	124.5	150.9
S.D.	25.69	26.74	36.91	28.88	32.92	29.16	26.14	35.33	45.37	26.39	37.66	27.11
N	35	35	35	35	35	35	35	35	35	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-F SEX: FEMALE PAGE: 3
DOSE: 0 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96	3-21-96	3-28-96	4-4-96	4-11-96	4-18-96
400	145.3	158.7	191.0	204.0	173.9	167.9	132.6	185.2	201.0	170.0	180.8	179.0
401	171.6	109.7	136.6	140.3	134.1	191.5	143.3	147.0	91.8	114.8	143.4	130.2
402	158.2	156.2	135.8	154.1	121.1	145.2	149.8	129.6	77.5	90.2	130.8	121.7
403	--	--	--	--	--	--	--	--	--	--	--	--
404	151.5	99.5	140.6	141.4	153.3	183.0	147.3	176.8	139.6	132.8	118.5	105.0
405	158.0	115.9	153.1	128.3	118.3	106.4	73.3	184.1	196.9	164.6	35.4	100.3
406	149.5	130.8	143.0	118.7	114.6	129.2	100.4	146.2	122.1	88.5	119.3	144.8
407	194.7	181.3	183.5	81.5	213.4	234.9	99.1	52.0	111.0	124.2	124.8	133.9
408	97.2	83.5	126.1	100.5	107.2	73.2	173.9	105.5	114.4	68.3	117.7	105.9
409	120.2	145.4	128.8	207.1	163.7	142.0	149.6	188.1	191.8	122.5	187.9	79.4
410	106.3	114.4	116.5	94.9	74.8	46.7	102.4	134.3	118.0	94.0	67.6	105.5
411	118.4	122.1	122.7	122.5	151.9	155.2	142.4	127.9	96.9	145.8	157.2	149.5
412	160.2	109.3	113.0	146.2	126.8	103.5	68.7	110.8	120.9	127.7	121.2	112.5
413	197.2	92.3	186.7	152.4	173.7	181.2	138.6	174.1	158.8	184.5	168.6	147.5
414	--	--	--	--	--	--	--	--	--	--	--	--
415	144.3	120.8	167.5	79.4	88.0	75.5	175.3	155.9	123.6	133.2	129.7	93.2
416	143.2	136.9	181.9	144.6	176.9	190.0	148.2	174.0	120.7	124.0	100.0	113.6
417	114.0	156.3	155.0	132.5	151.1	110.3	124.9	149.5	130.6	148.3	81.3	63.1
418	--	--	--	--	--	--	--	--	--	--	--	--
419	149.8	128.5	169.7	130.7	157.6	139.6	151.9	62.7	74.4	124.6	115.4	136.4
420	--	--	--	--	--	--	--	--	--	--	--	--
421	115.3	103.6	138.6	71.3	157.9	171.8	39.0	107.2	115.6	76.5	132.6	127.9
422	167.0	179.2	125.9	156.6	139.9	144.2	145.9	134.4	146.1	93.3	154.7	123.6
423	145.2	180.8	134.6	106.1	114.9	134.7	146.9	134.9	97.2	154.4	111.5	114.7
424	121.2	147.1	120.4	115.5	112.2	46.1	113.5	85.6	152.5	139.9	156.5	94.0
425	193.7	160.3	185.0	182.4	212.9	221.7	204.8	191.2	161.9	180.3	223.7	191.3
426	165.0	111.2	111.6	94.8	86.2	95.3	92.3	150.1	161.5	184.5	176.0	135.8
427	184.4	159.5	166.6	125.3	138.7	152.9	94.6	150.8	164.1	156.5	171.7	155.0
428	--	--	--	--	--	--	--	--	--	--	--	--
429	150.4	172.7	147.4	90.5	232.9	198.8	131.5	186.1	161.1	187.1	164.7	61.4
430	181.2	79.4	151.1	128.9	179.4	228.2	86.9	121.3	155.0	184.7	159.6	122.1
431	136.9	134.4	164.3	140.2	137.7	138.3	119.0	112.6	138.5	105.8	129.9	95.1
432	137.5	128.4	215.4	198.7	189.7	239.1	94.6	196.1	129.5	71.5	147.2	89.3
433	111.7	126.2	129.9	119.2	80.8	178.4	205.8	168.3	175.8	177.7	155.4	119.5
434	149.5	109.1	157.0	78.3	104.2	147.7	121.4	127.0	163.9	180.6	78.6	111.9
435	38.1	7.8	175.0	186.3	6.6	6.4	123.0	96.6	115.5	139.3	163.2	6.3
436	73.4	142.2	174.5	189.0	141.6	144.5	153.5	109.4	141.7	115.5	171.9	158.7
437	133.9	206.2	173.6	155.4	99.2	133.6	163.1	153.8	174.5	161.1	151.6	157.8
438	121.3	160.8	170.4	139.5	207.7	108.5	192.8	217.8	156.2	154.8	180.7	203.1
MEAN	141.3	131.5	152.7	134.0	139.5	143.1	130.9	142.6	138.3	135.9	139.1	120.3
S.D.	34.05	37.26	26.03	37.08	46.54	54.89	38.10	38.76	32.34	35.70	38.22	38.21
N	34	34	34	34	34	34	34	34	34	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-F SEX: FEMALE
DOSE: 0 (ppm)

ANIMAL #	4-25-96	5-2-96	5-9-96	5-16-96	5-23-96	5-30-96
400	152.7	148.3	125.3	177.3	168.0	155.5
401	137.1	156.8	124.3	82.8	115.2	115.7
402	146.5	99.3	106.5	163.4	192.1	372.3
403	--	--	--	--	--	--
404	93.7	88.4	132.5	226.1	301.7	533.3
405	7.4	94.6	207.9	268.2	368.9	523.5
406	97.1	172.6	101.4	75.1	118.8	120.4
407	216.0	172.4	248.5	--	275.0	235.5
408	136.3	92.9	82.8	159.6	173.5	250.6
409	200.7	142.3	137.2	197.7	428.0	480.5
410	97.2	117.5	83.6	116.8	153.2	103.5
411	148.9	28.1	160.4	237.6	418.1	534.0
412	109.7	111.2	124.4	207.7	370.0	495.4
413	149.7	143.9	57.2	153.8	264.0	405.0
414	--	--	--	--	--	--
415	130.1	147.8	28.3	149.7	174.3	225.6
416	120.6	149.9	85.5	95.1	226.1	251.0
417	87.9	12.9	91.9	15.8	96.0	116.4
418	--	--	--	--	--	--
419	97.5	136.8	181.2	275.5	322.3	509.0
420	--	--	--	--	--	--
421	77.4	102.6	27.7	173.3	142.0	149.9
422	145.1	101.5	144.9	229.3	296.7	396.1
423	127.6	155.8	209.8	189.1	127.1	196.3
424	118.5	9.2	40.4	78.4	96.2	248.0
425	186.8	160.4	112.0	183.9	160.2	245.7
426	131.2	113.7	111.7	143.8	191.7	275.0
427	159.5	122.5	129.7	200.1	226.1	360.8
428	--	--	--	--	--	--
429	107.5	166.4	134.0	84.3	80.2	110.3
430	156.6	139.7	162.2	192.5	382.3	460.2
431	85.6	81.8	166.6	219.3	353.2	556.0
432	144.6	46.8	192.1	246.0	345.2	482.2
433	141.1	167.4	199.1	301.5	485.0	716.6
434	52.0	211.0	183.3	254.8	373.9	411.4
435	113.0	74.2	47.7	153.6	219.8	401.1
436	143.1	155.7	103.9	140.8	217.1	317.9
437	164.1	146.9	11.2	72.9	71.2	111.9
438	150.9	181.1	115.0	162.9	93.0	167.8
MEAN	127.5	122.1	122.7	170.6	236.1	324.5
S.D.	40.65	48.28	57.26	67.45	115.62	165.65
N	34	34	34	33	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-F SEX: FEMALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
439	157.0	182.0	216.0	191.7	87.0	244.5	256.1	198.3	206.4	209.2	197.8	177.3
440	--	--	--	--	--	--	--	--	--	--	--	--
441	138.4	194.3	218.4	179.6	179.8	214.8	151.1	131.2	167.1	163.5	150.0	147.2
442	--	--	--	--	--	--	--	--	--	--	--	--
443	141.2	179.8	167.3	174.3	226.5	172.5	171.1	146.5	129.4	120.0	166.7	153.5
444	--	--	--	--	--	--	--	--	--	--	--	--
445	180.5	176.6	183.7	162.0	172.7	138.1	151.4	116.3	124.1	121.3	150.7	131.1
446	157.3	179.2	207.0	193.8	216.2	162.1	195.3	124.8	148.1	123.1	147.0	125.9
447	151.2	160.7	181.8	182.9	163.6	170.4	165.1	152.2	159.1	136.9	154.3	103.5
448	156.1	178.7	205.7	187.7	183.4	180.6	194.6	131.6	139.6	174.0	149.9	126.3
449	172.3	221.3	229.1	204.3	177.7	168.5	161.9	131.6	191.0	187.0	163.2	145.0
450	167.8	220.5	251.8	226.5	197.4	229.0	254.1	154.6	189.3	211.0	148.9	165.3
451	178.7	167.8	137.9	171.2	145.6	239.5	184.7	164.6	134.6	189.3	167.1	122.2
452	184.7	203.4	199.8	205.5	144.8	177.4	189.4	126.4	134.3	108.3	149.7	125.9
453	178.0	169.7	178.8	223.0	190.1	190.7	129.5	160.1	171.1	144.5	141.3	130.0
454	--	--	--	--	--	--	--	--	--	--	--	--
455	151.4	148.1	173.6	174.9	120.6	135.7	201.3	119.1	125.2	124.5	110.0	148.9
456	179.0	229.6	171.3	171.5	185.3	192.9	202.9	118.9	155.6	161.9	149.1	166.6
457	162.6	194.4	125.0	157.3	145.3	156.0	98.6	176.0	139.8	144.3	122.8	138.3
458	147.6	171.7	147.3	140.0	230.0	212.0	183.6	120.3	91.3	258.5	188.0	132.4
459	172.3	212.3	247.6	215.4	160.6	217.6	236.4	97.4	76.2	139.8	132.3	163.2
460	188.8	215.9	170.7	151.6	210.9	205.2	217.9	123.8	165.0	152.7	149.3	164.7
461	142.1	181.9	212.9	244.5	233.8	221.1	220.4	203.5	168.8	185.8	149.0	157.7
462	157.0	209.2	222.8	223.0	133.4	180.3	194.9	136.3	162.6	165.0	133.1	195.6
463	173.9	159.7	199.0	166.8	175.5	58.7	179.1	138.0	185.1	204.0	155.7	140.0
464	131.6	154.7	145.5	151.8	132.2	133.4	170.3	111.3	125.0	153.1	90.4	130.4
465	138.3	151.9	186.0	163.8	159.6	156.3	204.7	165.2	182.0	7.5	178.1	191.5
466	158.4	156.9	208.5	157.5	186.7	148.0	181.8	110.2	141.1	144.4	129.3	110.9
467	189.5	151.3	218.5	185.4	186.0	160.9	177.0	146.0	158.8	115.5	165.9	156.4
468	207.7	163.9	227.7	148.1	176.3	160.8	130.0	151.1	145.9	165.7	155.8	107.6
469	121.9	177.4	225.2	183.8	209.7	180.7	162.0	172.4	175.5	177.0	201.2	130.8
470	160.4	146.5	190.6	146.0	171.5	168.0	190.0	88.6	168.3	153.0	146.7	92.7
471	196.3	168.4	249.1	243.1	224.5	180.0	168.7	124.6	190.9	158.6	173.2	151.7
472	88.4	198.9	164.8	137.7	156.8	63.4	168.3	96.6	134.1	182.4	149.1	144.7
473	168.1	203.0	147.3	169.7	122.8	131.5	136.4	123.5	158.0	150.2	153.1	98.1
474	196.2	217.4	217.9	208.2	180.0	135.0	181.9	108.3	164.5	144.8	166.3	162.6
475	182.2	189.5	228.9	170.0	168.9	164.9	205.2	106.5	148.7	188.8	143.4	124.2
476	145.3	151.2	162.7	184.6	158.6	137.9	163.9	71.0	97.2	138.6	129.8	139.7
477	233.0	206.9	225.4	164.8	142.6	140.8	160.4	113.0	92.3	160.0	92.4	124.2
MEAN	164.4	182.7	195.6	181.8	173.0	169.4	181.1	133.1	149.9	156.1	150.0	140.7
S.D.	26.56	24.30	33.40	28.30	33.78	41.37	33.34	29.34	30.51	40.77	24.15	24.40
N	35	35	35	35	35	35	35	35	35	35	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-F SEX: FEMALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
439	195.6	167.4	140.5	102.1	162.1	151.7	115.7	120.1	151.4	127.4	154.0	184.4
440	--	--	--	--	--	--	--	--	--	--	--	--
441	159.1	159.1	129.1	103.6	104.4	81.8	70.3	119.5	120.9	71.5	84.6	216.3
442	--	--	--	--	--	--	--	--	--	--	--	--
443	163.8	142.1	184.3	47.0	183.7	125.1	126.7	106.1	166.4	172.4	208.6	198.2
444	--	--	--	--	--	--	--	--	--	--	--	--
445	141.1	136.7	71.3	136.7	106.3	104.5	75.0	76.8	79.3	130.1	132.7	163.9
446	132.8	158.0	110.6	86.6	56.9	41.6	81.0	53.0	83.8	98.7	131.0	161.3
447	139.7	130.7	160.7	94.1	124.6	102.2	114.1	99.3	155.0	154.8	133.7	166.6
448	144.9	142.3	149.1	123.1	81.5	113.0	95.9	121.7	149.5	86.7	127.6	124.6
449	169.7	169.9	151.9	113.7	83.4	77.5	103.6	57.0	128.3	97.7	157.6	111.7
450	167.2	155.0	123.1	87.1	105.5	59.4	101.3	113.6	160.0	145.1	99.1	183.3
451	152.9	158.6	111.5	116.5	105.4	88.2	84.7	115.9	154.9	89.5	132.1	136.6
452	139.8	174.6	111.4	123.3	106.7	119.5	80.4	108.1	201.1	93.8	71.2	79.0
453	176.6	135.2	109.6	75.0	102.5	87.8	133.0	108.9	140.8	126.8	114.5	132.7
454	--	--	--	--	--	--	--	--	--	--	--	--
455	124.1	129.1	109.7	81.7	22.2	87.2	118.6	70.3	118.1	101.9	140.2	115.3
456	155.1	145.5	112.0	144.5	117.0	121.8	135.7	145.7	183.0	136.2	162.7	158.1
457	129.9	128.6	138.6	140.1	112.9	82.2	103.0	81.5	133.1	173.6	130.6	151.7
458	146.1	231.4	182.0	96.7	124.7	150.2	138.1	121.9	204.9	248.3	157.5	129.0
459	108.9	138.2	151.0	95.1	125.2	124.7	112.1	101.5	10.5	154.2	177.2	119.9
460	96.7	173.4	122.4	150.9	110.8	79.9	89.0	97.5	146.7	148.5	191.0	169.3
461	153.7	152.8	140.1	134.1	116.8	124.9	118.4	115.6	151.5	151.1	127.2	119.0
462	146.5	166.1	147.8	163.5	129.6	130.4	115.7	66.3	207.1	170.0	163.2	132.6
463	188.1	201.2	117.9	151.9	124.1	158.7	100.8	99.1	137.5	112.8	152.2	145.9
464	206.0	236.6	77.2	84.7	66.1	74.7	55.3	79.8	--	104.0	115.1	197.3
465	8.3	236.9	178.3	194.0	123.7	126.5	145.9	116.5	240.3	154.3	178.0	178.8
466	112.2	99.3	101.8	62.2	103.9	142.7	70.0	102.1	138.0	121.9	83.8	144.2
467	158.3	162.0	110.6	129.5	120.2	89.2	114.9	46.7	157.8	101.3	105.1	90.5
468	141.8	169.9	123.6	140.3	114.6	123.6	159.7	96.2	130.6	100.6	151.2	132.8
469	130.2	115.4	127.1	91.2	121.9	142.2	100.9	129.7	139.4	119.6	154.6	196.1
470	144.2	113.0	138.9	95.4	169.2	112.5	97.1	85.6	123.0	170.6	155.3	145.5
471	142.0	134.7	148.0	148.0	132.7	99.2	112.9	95.7	120.1	117.1	94.5	127.6
472	153.7	181.4	52.2	135.4	91.1	149.9	84.4	147.9	139.8	101.6	159.4	107.0
473	137.6	123.1	105.4	114.2	102.7	83.8	134.9	99.4	114.6	146.1	119.9	157.5
474	183.9	106.3	138.8	57.6	114.6	131.6	121.8	112.6	116.9	170.3	185.4	183.3
475	155.3	130.1	126.3	144.9	126.9	144.1	104.8	111.7	191.0	166.4	163.8	112.7
476	77.3	142.4	122.2	98.7	76.4	77.7	66.6	101.1	170.3	121.7	98.2	163.8
477	174.9	132.1	136.1	116.3	103.1	125.1	181.5	125.6	244.4	158.9	124.8	174.2
MEAN	144.5	153.7	127.5	113.7	110.7	109.6	107.5	101.4	147.4	132.7	138.2	148.9
S.D.	35.54	33.62	28.58	32.32	29.71	29.17	27.33	23.93	44.65	35.36	32.46	32.64
N	35	35	35	35	35	35	35	35	34	35	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-F SEX: FEMALE PAGE: 3
DOSE: 0 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96	3-21-96	3-28-96	4-4-96	4-11-96	4-18-96
439	173.9	170.1	193.3	197.1	128.8	171.7	115.3	122.6	162.2	201.5	179.1	154.7
440	--	--	--	--	--	--	--	--	--	--	--	--
441	189.8	153.5	178.5	182.1	218.5	222.0	150.7	196.3	179.2	175.0	73.8	89.8
442	--	--	--	--	--	--	--	--	--	--	--	--
443	228.3	241.9	189.1	249.3	203.2	162.2	96.2	188.9	256.7	111.9	141.2	124.9
444	--	--	--	--	--	--	--	--	--	--	--	--
445	122.4	120.8	108.9	91.1	121.6	91.5	134.5	94.6	67.4	73.2	82.5	100.9
446	59.8	172.2	148.2	167.6	213.9	240.7	139.5	156.2	136.2	182.0	165.6	233.1
447	94.6	112.3	150.7	109.7	152.7	108.2	135.1	188.5	152.9	187.5	108.0	106.3
448	76.6	129.7	153.6	102.0	127.2	115.6	58.8	126.7	128.4	169.5	136.3	160.9
449	115.6	134.5	122.5	103.2	129.2	170.8	91.9	118.1	112.9	66.4	107.3	110.7
450	194.8	161.5	202.8	193.7	76.3	187.1	102.9	117.7	148.3	86.7	137.5	172.8
451	126.3	128.0	143.1	108.3	101.3	101.1	102.1	176.1	112.8	158.4	137.0	154.1
452	164.7	152.6	156.0	140.3	180.6	158.3	127.6	145.5	126.9	165.5	109.2	134.9
453	142.6	104.4	136.4	116.7	173.1	143.9	120.3	173.5	129.0	146.4	139.6	111.1
454	--	--	--	--	--	--	--	--	--	--	--	--
455	98.6	117.0	132.2	75.4	131.5	122.5	98.0	117.3	120.3	84.7	72.3	91.2
456	168.3	172.5	153.2	161.0	172.9	176.9	159.6	151.2	131.8	159.7	193.0	175.2
457	129.8	123.3	155.2	165.8	119.5	119.9	82.2	105.5	159.8	163.4	168.9	132.4
458	173.5	182.1	135.8	163.9	194.0	150.6	88.9	145.6	156.8	131.9	129.3	113.1
459	144.0	87.7	96.4	145.7	119.8	114.7	122.1	155.7	105.7	148.1	135.8	27.4
460	193.9	125.2	151.0	132.7	149.9	138.5	126.8	124.6	148.3	147.5	109.7	97.9
461	128.7	129.9	140.7	104.9	146.8	154.0	109.1	88.2	102.9	106.9	161.2	123.2
462	145.3	123.5	153.0	158.3	136.4	148.5	136.1	157.2	159.0	196.8	212.5	107.5
463	140.8	177.9	127.1	122.0	128.7	141.1	158.7	141.8	149.0	170.4	151.9	186.2
464	178.3	119.0	125.9	256.0	98.8	98.3	46.6	119.2	129.2	83.4	112.0	118.4
465	136.8	147.2	172.5	163.4	195.4	176.0	127.8	167.9	209.4	189.8	87.0	201.3
466	123.0	133.6	142.6	114.0	141.6	96.6	137.8	186.6	161.4	159.4	97.9	122.2
467	146.4	125.5	152.9	57.2	115.3	104.4	157.4	130.5	129.8	162.2	103.0	148.4
468	212.3	152.1	173.5	92.3	157.7	148.9	145.1	141.9	188.3	148.3	156.6	159.2
469	182.1	199.4	133.6	138.9	160.3	158.3	155.6	173.5	164.0	172.1	79.8	87.5
470	146.2	125.0	177.2	160.6	119.2	126.9	106.5	137.9	195.5	131.7	159.8	18.8
471	146.4	184.2	152.2	140.8	152.9	195.0	121.1	175.4	160.0	173.6	158.7	162.5
472	42.3	104.4	196.2	126.7	73.0	191.9	78.3	195.3	168.0	141.0	100.4	52.8
473	137.0	146.7	172.9	125.1	117.4	173.4	167.7	190.6	150.1	29.1	94.7	72.0
474	116.2	178.8	158.3	177.8	184.1	116.2	100.4	149.9	198.4	175.8	136.0	112.7
475	188.4	190.0	202.0	170.4	0.0	--	--	--	--	--	--	--
476	96.7	131.5	122.5	130.0	128.6	101.3	112.2	210.1	148.3	182.4	145.4	173.5
477	180.1	163.3	151.3	104.7	176.2	147.9	121.1	124.2	187.9	146.6	149.9	155.5
MEAN	144.1	146.3	153.2	141.4	141.3	146.3	118.6	149.8	151.1	145.0	130.4	126.3
S.D.	41.91	32.24	25.63	43.51	43.60	36.85	28.91	31.58	35.52	41.67	34.84	46.35
N	35	35	35	35	35	34	34	34	34	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-F SEX: FEMALE

DOSE: 0 (ppm)

ANIMAL #	4-25-96	5-2-96	5-9-96	5-16-96	5-23-96	5-30-96
439	142.4	127.5	--	134.9	138.6	120.7
440	--	--	--	--	--	--
441	117.3	131.4	107.7	46.7	63.4	88.6
442	--	--	--	--	--	--
443	113.3	112.6	102.5	79.8	130.4	195.7
444	--	--	--	--	--	--
445	90.6	106.4	131.6	167.0	165.4	100.6
446	194.7	156.0	128.5	238.9	291.9	475.5
447	93.0	120.0	145.0	268.1	347.9	381.9
448	94.9	123.1	186.6	280.8	395.3	622.7
449	102.0	131.2	142.6	303.0	369.8	421.7
450	142.1	168.2	128.0	98.2	87.3	88.0
451	115.3	140.7	131.1	264.1	349.4	474.0
452	133.7	177.9	151.9	125.9	177.3	231.1
453	134.8	118.8	77.9	65.6	114.6	142.0
454	--	--	--	--	--	--
455	113.9	133.9	129.0	101.0	129.7	117.3
456	197.2	185.3	101.4	169.7	181.0	233.6
457	118.6	140.2	141.2	135.4	136.2	79.3
458	139.1	160.5	181.1	248.1	300.7	373.8
459	115.5	166.4	109.4	104.2	125.4	129.5
460	134.8	157.2	162.7	102.1	86.6	92.8
461	130.0	63.4	146.8	250.2	378.5	505.2
462	149.3	137.9	177.8	230.7	273.6	433.6
463	125.8	90.9	177.1	232.6	287.7	531.6
464	124.0	122.6	98.3	101.7	128.9	78.8
465	169.3	66.1	87.3	127.7	171.4	105.2
466	92.8	99.9	202.5	259.1	386.2	502.5
467	159.8	189.5	111.5	101.4	73.5	114.5
468	139.1	150.9	148.2	167.5	158.3	119.1
469	95.0	127.2	131.3	87.3	333.7	257.2
470	135.4	98.0	100.0	201.5	215.2	333.9
471	141.3	149.4	181.4	122.2	90.4	57.0
472	128.5	148.5	110.1	82.0	73.6	242.0
473	74.8	94.2	117.0	76.5	144.4	144.1
474	128.2	58.6	108.0	119.3	160.2	122.2
475	--	--	--	--	--	--
476	138.1	118.1	52.3	98.1	162.4	254.7
477	132.2	82.1	175.9	238.6	390.5	484.8
MEAN	128.1	128.1	132.8	159.7	206.5	254.6
S.D.	27.00	33.64	34.96	74.94	109.66	169.56
N	34	34	33	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-F SEX: FEMALE PAGE: 1
DOSE: 150 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
478	187.5	182.4	175.8	212.6	205.1	199.8	225.8	175.7	178.6	173.2	148.0	170.0
479	142.5	133.3	160.6	152.2	126.5	169.1	138.5	157.9	153.6	164.7	136.6	132.3
480	210.6	207.4	173.0	207.1	182.0	204.0	215.4	127.3	173.5	183.1	164.3	120.8
481	155.2	153.2	168.9	176.0	181.1	185.1	190.2	182.4	192.4	141.7	159.2	139.6
482	--	--	--	--	--	--	--	--	--	--	--	--
483	147.6	163.0	155.1	185.4	160.1	195.5	145.9	133.4	174.5	186.0	146.1	125.2
484	161.1	166.7	150.8	203.0	158.3	162.6	170.4	195.8	143.5	153.7	185.3	123.7
485	197.0	212.5	335.0	224.1	232.8	190.2	239.5	183.0	207.0	148.5	116.8	215.1
486	167.4	206.5	214.7	162.7	129.0	164.6	162.3	147.6	173.3	158.2	142.9	143.4
487	--	--	--	--	--	--	--	--	--	--	--	--
488	142.5	166.9	183.8	164.8	102.3	124.7	148.7	108.2	164.3	132.9	191.1	137.6
489	169.2	188.5	222.0	197.7	161.8	124.6	176.9	147.5	206.5	179.3	161.9	87.2
490	137.3	187.6	173.3	149.6	156.7	207.9	195.1	143.2	157.0	178.9	146.6	148.6
491	149.9	154.9	173.6	187.2	118.5	175.7	90.9	68.3	131.0	127.9	114.1	127.4
492	140.5	149.1	169.3	165.8	174.6	184.2	123.3	123.2	173.1	173.1	130.5	170.1
493	--	--	--	--	--	--	--	--	--	--	--	--
494	136.7	176.9	163.8	196.5	167.3	165.5	179.3	151.0	183.7	136.9	179.9	148.3
495	181.5	236.0	173.3	209.3	166.5	176.4	205.7	131.5	217.5	195.5	156.7	143.0
496	150.7	159.5	140.2	155.3	143.7	166.3	158.3	114.3	144.9	128.6	97.5	119.8
497	168.5	149.5	176.1	172.3	154.7	172.3	189.2	123.3	190.1	174.4	144.9	159.2
498	174.1	205.0	223.3	212.2	176.5	142.5	220.4	161.6	194.2	282.5	118.3	226.8
499	183.0	133.7	180.9	211.2	161.0	153.4	189.6	148.6	177.8	155.5	134.0	168.2
500	222.3	170.8	190.8	180.9	198.4	184.3	160.8	159.2	158.0	157.8	161.4	97.6
501	233.8	196.8	252.7	199.9	196.6	131.4	185.2	107.2	125.1	159.4	170.8	163.5
502	101.3	211.5	149.2	146.5	--	--	--	--	--	--	--	--
503	147.6	120.9	151.7	177.0	161.3	172.6	156.8	139.5	173.6	179.5	129.5	124.5
504	163.2	204.5	194.2	171.2	176.6	162.3	97.0	54.5	194.0	191.1	107.7	159.4
505	186.0	113.6	151.4	186.5	169.4	177.4	176.9	7.0	167.2	171.0	178.5	124.8
506	--	--	--	--	--	--	--	--	--	--	--	--
507	152.9	135.9	138.9	158.9	160.8	101.1	220.2	111.5	203.4	137.2	153.3	131.7
508	173.2	125.7	172.3	175.4	167.1	143.7	156.7	142.5	137.7	118.2	135.8	130.9
509	145.7	144.6	169.0	189.8	153.9	75.3	158.1	135.7	134.1	151.4	156.5	109.8
510	172.8	150.0	155.8	189.0	175.6	146.3	161.5	153.3	161.5	165.6	172.2	176.5
511	151.4	172.2	170.7	200.1	204.0	144.2	171.8	146.7	192.3	195.2	169.6	151.7
512	169.7	198.9	263.3	268.6	238.8	183.0	207.0	140.7	182.5	225.0	216.9	163.0
513	161.9	136.0	194.0	218.6	188.0	191.9	204.4	172.3	200.9	204.1	183.6	130.1
514	168.4	121.8	187.6	229.1	171.6	165.9	195.8	102.5	155.6	137.1	116.7	117.9
515	200.1	164.5	220.1	180.5	227.1	203.3	216.6	199.8	167.9	200.6	184.8	151.4
516	152.6	183.4	182.7	204.9	203.1	153.8	187.1	135.1	159.8	166.9	125.2	98.9
MEAN	165.9	168.1	184.5	189.2	172.1	164.7	177.1	136.2	172.1	168.7	151.1	142.3
S.D.	26.24	31.15	39.05	26.02	30.28	29.57	34.45	38.87	23.49	31.87	27.30	29.68
N	35	35	35	35	34	34	34	34	34	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-F SEX: FEMALE PAGE: 2
DOSE: 150 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
478	146.0	140.1	126.9	117.0	107.3	96.8	86.2	121.2	132.8	141.9	167.8	177.6
479	135.6	107.0	151.7	90.2	85.7	108.7	89.3	105.6	157.1	156.1	134.9	154.7
480	116.0	136.7	125.9	106.0	125.8	115.5	97.2	137.0	123.3	78.0	143.3	136.3
481	165.7	147.9	130.7	138.9	118.2	97.7	68.5	117.2	145.1	137.8	146.2	172.9
482	--	--	--	--	--	--	--	--	--	--	--	--
483	170.2	139.8	118.5	144.4	108.5	90.7	113.7	73.4	171.9	149.3	162.2	--
484	154.5	141.8	123.7	162.8	167.0	208.0	163.5	117.9	210.2	35.7	123.0	201.1
485	203.4	174.3	134.9	127.0	123.9	75.8	58.1	124.8	173.4	103.0	128.8	167.4
486	157.2	119.0	125.5	114.4	132.4	89.1	87.3	33.7	91.6	81.6	56.8	130.2
487	--	--	--	--	--	--	--	--	--	--	--	--
488	195.2	150.3	158.2	102.2	87.8	140.9	88.4	85.5	159.5	80.4	81.4	143.6
489	196.6	117.3	122.4	143.0	129.4	83.0	65.2	95.6	112.9	49.5	63.3	91.2
490	132.7	109.4	119.2	76.5	119.1	96.6	105.1	44.5	64.7	112.5	106.3	173.0
491	128.7	130.0	103.4	147.5	40.3	119.0	31.3	59.9	166.8	142.5	140.3	108.0
492	144.9	133.5	87.3	108.8	92.4	132.8	100.1	142.9	135.3	152.7	147.3	139.7
493	--	--	--	--	--	--	--	--	--	--	--	--
494	131.4	166.9	187.3	151.7	112.7	166.3	93.3	108.0	197.0	137.7	152.1	124.3
495	155.9	120.5	147.7	136.7	162.6	284.3	101.3	120.8	12.7	0.0	--	--
496	154.9	96.4	132.0	136.1	119.4	94.2	88.7	110.5	163.8	145.6	141.7	131.4
497	137.5	131.2	111.1	126.6	93.0	90.0	88.6	74.2	189.1	145.5	128.9	168.2
498	287.2	218.7	204.4	141.1	129.3	143.8	269.1	198.9	245.9	272.9	197.9	215.7
499	109.2	167.9	121.5	126.2	126.0	116.1	89.5	44.4	167.6	165.7	137.3	179.7
500	130.3	127.1	118.2	108.2	103.8	68.9	87.7	87.6	106.0	104.9	101.1	128.5
501	112.1	129.6	129.7	119.1	91.6	118.8	136.6	121.3	139.6	146.1	137.7	152.2
502	--	--	--	--	--	--	--	--	--	--	--	--
503	164.6	178.6	153.8	140.3	79.5	128.6	127.1	139.9	163.7	117.9	133.1	159.1
504	88.7	138.0	167.3	84.4	176.0	122.3	109.1	88.9	118.5	98.8	120.7	135.7
505	154.7	132.9	140.7	133.8	153.4	129.5	65.1	96.5	155.6	104.2	84.5	87.5
506	--	--	--	--	--	--	--	--	--	--	--	--
507	120.2	114.7	117.5	95.4	85.6	115.9	92.1	109.6	150.6	124.7	121.9	91.2
508	126.8	115.7	120.1	96.9	120.1	115.0	163.3	51.1	110.2	174.9	132.3	147.8
509	130.9	149.7	156.5	112.0	114.5	124.7	78.1	116.0	122.1	43.2	151.3	175.2
510	102.8	149.2	121.3	66.9	126.5	91.8	85.3	96.5	89.9	120.7	123.5	135.3
511	155.3	126.5	79.9	89.7	170.0	90.5	151.0	146.2	162.2	173.0	121.3	160.1
512	200.2	123.5	156.5	117.8	98.0	216.4	104.8	78.4	145.2	163.8	160.9	149.4
513	190.1	139.8	72.7	169.1	155.2	125.3	82.8	157.8	185.4	163.3	148.3	163.0
514	139.3	104.0	67.8	106.7	93.1	78.9	103.2	90.6	142.1	117.8	112.5	112.4
515	101.4	162.0	172.0	165.9	138.4	141.1	126.4	111.1	192.8	169.0	144.1	124.2
516	121.4	91.1	90.8	123.5	110.7	57.7	57.1	59.3	157.0	119.8	83.9	157.3
MEAN	148.9	136.2	129.3	121.4	117.6	119.8	101.6	102.0	145.9	124.4	128.4	146.7
S.D.	38.24	25.76	30.49	25.37	29.25	44.84	41.27	35.61	43.59	49.89	30.07	30.19
N	34	34	34	34	34	34	34	34	34	34	33	32

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-F SEX: FEMALE PAGE: 3
DOSE: 150 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96	3-21-96	3-28-96	4-4-96	4-11-96	4-18-96
478	159.7	142.3	109.0	146.4	158.4	141.3	128.6	186.9	224.5	153.0	70.7	166.5
479	122.5	155.5	154.2	114.5	117.7	113.1	88.6	117.0	141.1	138.4	99.9	117.6
480	141.5	140.3	154.0	142.3	127.3	144.7	126.6	158.1	106.8	81.4	85.9	94.0
481	139.2	85.1	208.8	125.1	160.8	167.3	124.4	163.0	147.3	176.6	179.0	158.7
482	--	--	--	--	--	--	--	--	--	--	--	--
483	170.7	172.2	161.6	141.9	128.5	117.3	87.1	148.9	117.5	126.2	--	63.2
484	154.7	190.4	157.2	162.7	160.3	152.9	175.7	135.7	101.5	107.4	121.0	124.7
485	130.8	168.0	141.5	193.1	181.4	139.3	140.6	124.5	146.4	173.9	175.5	135.6
486	79.4	57.8	117.9	120.3	109.4	132.6	125.4	125.4	108.8	128.5	135.0	135.1
487	--	--	--	--	--	--	--	--	--	--	--	--
488	129.6	128.8	144.6	132.9	91.5	128.2	154.8	177.1	127.6	69.0	40.6	100.7
489	75.4	69.1	64.9	69.6	78.0	50.6	133.7	121.1	91.4	112.6	88.7	75.1
490	117.3	157.6	126.2	146.7	97.8	79.7	158.1	152.2	101.8	143.6	89.2	75.2
491	128.6	128.9	150.0	206.9	193.0	189.5	139.9	114.0	143.3	86.9	171.5	177.3
492	154.7	195.6	167.0	106.1	170.1	152.1	102.6	134.4	104.1	145.3	169.5	132.2
493	--	--	--	--	--	--	--	--	--	--	--	--
494	172.1	182.0	171.7	169.3	197.8	151.4	124.0	142.3	144.6	166.6	77.1	99.3
495	--	--	--	--	--	--	--	--	--	--	--	--
496	133.3	131.2	163.9	113.0	113.8	146.6	39.1	76.4	124.4	127.7	126.8	120.8
497	129.2	184.1	119.5	131.4	154.0	146.7	123.5	144.7	127.3	162.2	164.1	114.5
498	182.4	253.9	206.8	276.1	255.7	198.6	225.0	127.4	175.9	115.1	131.0	143.5
499	102.6	30.5	154.2	79.7	141.8	161.7	216.4	170.5	214.4	34.5	136.4	131.7
500	121.3	62.0	123.3	124.4	84.5	131.5	155.4	94.9	109.4	142.6	164.8	119.0
501	153.1	106.7	160.4	134.7	113.6	178.6	163.1	165.5	180.7	156.1	161.3	71.1
502	--	--	--	--	--	--	--	--	--	--	--	--
503	126.1	114.5	197.9	165.9	179.7	147.4	156.8	168.1	125.9	192.9	194.3	176.5
504	120.3	132.8	143.5	112.4	105.9	141.0	145.9	158.8	132.0	163.2	130.7	48.9
505	106.2	199.2	141.8	157.9	128.8	156.0	119.1	183.3	178.8	142.1	91.7	102.9
506	--	--	--	--	--	--	--	--	--	--	--	--
507	120.4	113.9	131.3	111.1	129.0	69.8	68.8	135.4	134.4	179.6	165.8	120.0
508	83.5	217.3	130.3	80.0	146.9	116.2	114.9	186.2	41.1	151.1	151.7	108.6
509	147.8	194.2	135.4	114.3	156.4	110.5	143.6	125.2	142.7	168.4	197.1	144.9
510	90.5	156.6	167.9	158.9	153.5	124.6	114.9	124.1	144.2	167.1	176.3	144.8
511	75.8	121.0	147.0	164.0	116.8	119.0	140.2	128.9	157.3	197.3	178.0	133.6
512	62.8	178.4	160.4	167.1	141.2	192.4	151.7	187.0	234.7	207.2	219.9	198.0
513	83.3	197.1	184.3	174.9	175.6	186.6	144.0	147.5	100.6	154.2	159.4	95.3
514	125.4	165.7	125.8	141.6	103.6	103.5	117.1	124.1	126.6	164.9	19.7	124.1
515	126.5	176.9	144.3	165.9	140.0	156.4	153.0	90.4	110.5	116.2	147.2	156.5
516	142.5	169.1	168.9	123.7	100.9	140.6	144.4	134.2	144.3	167.4	152.6	139.2
MEAN	124.5	147.8	149.6	141.7	139.8	139.0	134.8	141.6	136.7	143.0	136.6	122.7
S.D.	30.24	49.69	28.61	39.53	37.85	33.60	35.82	28.10	39.35	37.80	47.04	34.32
N	33	33	33	33	33	33	33	33	33	33	32	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-F SEX: FEMALE
DOSE: 150 (ppm)

ANIMAL #	4-25-96	5-2-96	5-9-96	5-16-96	5-23-96	5-30-96
478	133.8	158.1	181.8	125.7	182.3	163.8
479	89.7	121.9	54.7	148.8	133.4	151.3
480	111.3	147.7	127.0	148.0	218.3	363.0
481	203.7	157.5	121.7	68.5	166.8	236.3
482	--	--	--	--	--	--
483	118.1	124.4	118.4	167.3	169.2	362.8
484	111.8	125.1	54.4	163.9	225.6	381.4
485	155.8	155.7	193.8	131.6	135.9	187.6
486	130.8	71.9	115.0	177.2	312.8	389.5
487	--	--	--	--	--	--
488	123.8	107.3	157.6	114.8	135.6	138.1
489	113.5	125.3	153.4	124.6	125.9	96.1
490	114.7	97.1	125.7	123.1	123.0	77.1
491	208.6	128.2	114.9	126.7	133.4	191.4
492	126.1	155.2	114.8	87.1	114.2	224.1
493	--	--	--	--	--	--
494	94.9	102.2	141.1	199.6	278.6	528.2
495	--	--	--	--	--	--
496	85.9	125.4	119.1	107.4	90.7	111.6
497	72.0	95.4	83.4	146.6	139.2	175.6
498	142.4	146.6	146.7	134.1	163.6	74.3
499	162.3	161.1	74.5	89.4	130.0	90.1
500	133.8	104.0	129.2	147.4	248.0	473.2
501	139.5	89.4	117.6	196.8	279.2	465.5
502	--	--	--	--	--	--
503	177.2	128.2	78.8	52.2	112.5	106.7
504	85.4	146.5	168.9	135.9	157.4	164.1
505	87.1	155.7	125.0	31.7	138.2	170.6
506	--	--	--	--	--	--
507	75.8	92.1	106.4	76.0	92.0	128.5
508	150.0	111.7	90.9	105.4	121.8	100.6
509	125.2	115.2	55.0	61.6	142.4	104.7
510	128.9	132.2	71.4	124.5	152.8	439.7
511	131.7	63.3	154.0	195.6	206.8	449.6
512	188.0	135.7	78.7	110.7	133.1	157.5
513	107.2	131.4	143.8	78.2	105.9	115.8
514	145.8	99.1	192.5	293.6	338.9	371.8
515	133.0	176.1	138.9	18.9	112.2	130.9
516	137.8	80.5	117.7	210.6	327.7	500.1
MEAN	128.7	123.2	120.2	128.0	171.1	237.0
S.D.	33.87	28.10	37.90	55.98	69.47	146.76
N	33	33	33	33	33	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-F SEX: FEMALE PAGE: 1
DOSE: 450 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
517	199.3	202.0	249.4	208.1	191.3	206.3	199.3	160.9	168.7	157.8	185.1	184.2
518	206.0	164.8	179.9	145.3	171.7	169.0	164.3	127.5	179.7	147.3	163.1	151.3
519	--	--	--	--	--	--	--	--	--	--	--	--
520	--	--	--	--	--	--	--	--	--	--	--	--
521	129.9	149.1	202.8	169.5	153.7	147.4	124.7	124.7	126.3	125.7	131.6	128.7
522	125.2	175.6	153.1	116.3	140.3	130.9	156.3	123.0	140.4	128.5	161.4	122.0
523	164.5	138.5	162.4	156.6	135.2	178.4	206.1	114.7	153.2	154.8	124.3	96.8
524	170.7	164.2	227.1	289.2	185.9	185.4	188.8	182.2	239.9	182.1	148.1	170.2
525	133.0	149.4	204.9	173.4	206.7	210.5	223.1	109.5	157.0	138.0	147.3	119.3
526	182.4	189.5	151.9	193.2	191.5	214.4	188.0	85.2	184.6	219.3	184.6	180.6
527	112.1	188.1	216.7	171.9	144.2	179.5	177.0	127.9	164.6	140.7	156.8	140.5
528	168.7	206.6	246.5	207.4	233.8	240.9	225.9	174.1	155.9	138.2	159.2	137.3
529	169.6	190.2	220.8	212.3	169.6	140.6	167.1	134.8	155.5	149.3	147.5	157.9
530	118.5	152.8	162.0	165.3	128.3	135.3	162.7	156.9	164.1	125.9	106.9	127.2
531	142.1	137.7	191.5	158.6	159.9	130.8	213.2	91.9	125.0	128.8	137.2	145.2
532	136.2	133.0	122.6	162.8	143.1	136.2	131.2	116.2	137.2	231.5	313.1	145.7
533	188.6	222.6	171.7	155.2	190.3	134.0	153.2	151.2	169.8	114.6	129.4	99.4
534	168.1	194.8	196.7	197.6	224.3	173.7	196.9	134.9	208.4	191.4	209.5	177.5
535	176.2	197.9	212.2	203.3	137.7	152.4	94.9	78.4	178.1	124.8	162.5	118.8
536	193.4	196.6	177.9	215.7	212.1	132.1	237.0	17.1	189.6	188.6	304.0	198.0
537	215.7	234.6	274.5	247.5	249.0	149.0	139.7	112.2	158.2	186.7	121.8	121.0
538	--	--	--	--	--	--	--	--	--	--	--	--
539	146.8	160.3	133.4	170.1	131.1	110.6	155.1	123.6	97.8	119.8	141.5	101.2
540	178.1	154.0	135.3	168.0	141.0	149.2	151.8	86.3	144.8	166.7	164.5	131.5
541	147.6	161.9	174.5	164.8	167.6	102.1	169.3	83.0	129.7	116.8	110.8	64.0
542	133.1	176.2	155.9	159.1	147.1	114.3	160.8	146.1	119.4	147.0	163.3	95.8
543	142.8	127.9	160.9	176.3	97.0	116.9	77.2	91.6	101.1	90.3	108.7	112.4
544	173.4	160.3	138.2	130.6	168.0	148.2	166.6	104.8	148.7	147.6	159.9	127.4
545	254.7	151.1	208.6	200.1	201.2	192.8	178.3	125.1	204.2	229.8	155.9	128.1
546	200.2	140.3	155.4	170.6	178.0	152.7	197.0	122.9	161.5	124.8	106.0	133.3
547	128.4	173.0	181.0	206.0	154.3	135.6	201.6	153.8	126.1	149.3	155.3	154.9
548	203.5	171.3	170.0	230.8	156.7	138.6	195.8	181.0	170.9	203.7	191.8	167.2
549	171.7	173.9	160.8	81.2	154.7	128.7	157.1	78.9	156.4	181.1	138.4	97.7
550	193.7	197.0	159.7	164.3	120.6	126.4	102.9	122.4	129.9	134.4	120.6	103.1
551	150.2	144.7	153.8	165.2	139.2	117.8	206.9	156.4	163.2	158.2	188.4	117.2
552	170.8	155.1	175.9	204.5	186.2	110.3	177.6	158.7	206.0	159.2	186.5	141.3
553	129.8	121.6	153.5	104.0	156.1	95.2	114.5	107.8	149.1	130.0	152.7	88.0
554	220.1	219.8	226.5	171.8	235.6	150.0	167.4	6.5	250.9	138.2	240.5	152.8
MEAN	167.0	170.8	181.9	177.6	168.7	149.6	169.4	119.2	160.5	153.5	162.2	132.5
S.D.	33.08	28.26	36.03	39.32	35.39	34.27	37.37	39.33	34.04	33.74	47.11	30.25
N	35	35	35	35	35	35	35	35	35	35	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-F SEX: FEMALE PAGE: 2
DOSE: 450 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
517	151.7	155.0	135.6	147.3	129.2	136.4	103.0	158.6	155.4	140.0	166.3	164.6
518	135.1	131.1	136.2	126.6	158.8	112.4	95.5	75.3	128.8	119.9	137.5	143.4
519	--	--	--	--	--	--	--	--	--	--	--	--
520	--	--	--	--	--	--	--	--	--	--	--	--
521	134.5	95.8	153.3	86.1	92.1	112.9	121.7	125.0	162.1	102.6	148.6	134.8
522	132.3	123.4	108.6	81.3	117.9	78.9	99.4	113.2	150.1	120.1	156.8	119.3
523	186.8	101.9	122.5	82.1	126.8	86.5	95.9	102.3	149.8	108.7	90.4	130.4
524	198.1	103.3	87.0	73.0	154.2	108.0	124.3	96.8	150.5	108.7	107.1	222.7
525	227.1	111.4	125.3	143.6	129.4	134.2	103.6	133.5	135.7	143.1	133.4	161.6
526	202.2	179.4	218.9	168.9	144.5	173.7	114.4	135.7	162.0	154.8	131.4	194.4
527	130.3	95.6	148.4	92.0	98.0	95.0	86.8	86.9	122.8	129.6	115.4	188.6
528	146.9	145.7	104.1	92.2	89.8	127.3	128.0	88.1	132.6	75.9	155.0	166.3
529	146.0	122.0	183.3	124.8	117.7	97.9	105.3	116.2	164.0	133.8	67.4	156.7
530	100.8	144.5	134.2	87.3	123.4	108.2	140.9	106.8	233.9	191.7	176.8	185.2
531	141.0	118.9	100.4	86.3	128.9	113.2	77.6	99.9	122.7	120.2	133.1	131.1
532	72.1	212.7	94.7	83.3	40.6	79.0	66.1	71.2	96.0	111.5	88.4	155.4
533	148.3	105.3	127.7	158.3	22.5	144.4	168.0	146.4	9.2	113.0	111.8	117.4
534	125.2	191.9	130.7	152.1	137.5	127.9	119.4	138.7	11.5	47.7	143.4	158.2
535	147.1	132.9	166.4	159.5	121.9	138.4	109.6	130.9	11.0	0.0	--	--
536	224.4	271.7	169.2	197.1	127.4	114.3	106.4	95.4	132.2	151.8	146.4	156.8
537	159.4	147.9	127.9	111.3	123.2	136.7	135.6	124.5	175.2	174.6	182.5	188.0
538	--	--	--	--	--	--	--	--	--	--	--	--
539	141.5	139.8	95.2	80.3	66.8	83.4	119.6	59.0	128.3	90.6	109.7	121.6
540	129.6	179.2	57.6	85.2	108.6	64.6	120.4	110.6	199.2	106.1	172.5	95.3
541	171.6	132.4	143.4	122.6	130.4	118.3	111.0	81.0	125.2	137.2	135.7	137.7
542	92.0	111.1	53.7	78.3	71.8	84.2	78.6	52.6	110.1	57.0	105.8	55.4
543	104.3	108.6	85.5	91.0	84.2	72.7	63.5	69.6	121.8	111.9	125.9	88.3
544	138.5	137.7	117.0	124.5	144.6	96.5	115.4	120.4	155.9	130.2	137.5	132.0
545	148.7	112.9	131.1	123.6	146.1	133.7	116.2	109.8	180.2	139.2	167.0	178.8
546	188.1	121.3	124.2	117.0	120.4	94.6	118.4	93.8	168.4	131.4	141.5	184.0
547	151.2	133.0	92.7	117.0	115.0	117.3	111.0	87.1	100.8	108.5	149.1	116.3
548	151.5	149.1	132.9	83.9	135.7	133.2	138.0	160.4	195.4	152.5	139.4	137.6
549	131.1	130.0	112.8	123.5	81.0	100.7	93.4	73.5	140.4	105.3	105.2	98.2
550	143.7	127.3	50.8	87.5	68.8	107.9	110.1	67.8	149.9	137.5	86.5	147.9
551	154.6	170.3	170.7	125.4	157.3	113.3	98.4	120.8	144.2	140.4	129.1	124.2
552	204.6	178.3	161.5	150.8	76.0	83.9	106.7	103.3	135.1	159.8	121.7	211.8
553	69.3	139.0	98.4	102.7	107.5	100.7	54.3	66.9	131.6	108.3	80.7	95.8
554	201.5	186.5	174.7	124.4	105.5	102.8	99.9	108.0	184.5	195.3	165.5	169.8
MEAN	149.5	141.3	125.0	114.0	111.5	109.5	107.3	103.7	136.5	121.7	131.3	146.2
S.D.	37.92	36.99	37.24	31.19	32.32	23.61	22.72	27.91	48.30	38.05	29.05	37.16
N	35	35	35	35	35	35	35	35	35	35	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-F SEX: FEMALE PAGE: 3
DOSE: 450(ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96	3-21-96	3-28-96	4-4-96	4-11-96	4-18-96
517	176.4	148.3	142.4	139.9	170.9	169.2	137.8	119.9	132.6	84.8	170.4	123.8
518	163.9	129.2	170.5	103.2	170.3	164.2	103.0	146.8	159.2	113.0	108.4	102.0
519	--	--	--	--	--	--	--	--	--	--	--	--
520	--	--	--	--	--	--	--	--	--	--	--	--
521	164.7	97.8	143.6	109.7	63.7	116.1	99.6	105.6	129.6	142.4	148.0	167.5
522	120.9	133.7	96.8	114.2	144.1	95.5	105.1	112.4	86.5	74.2	95.3	111.1
523	100.5	105.7	128.5	105.7	116.7	129.3	107.4	95.0	120.2	138.3	121.7	110.4
524	99.1	152.9	102.3	156.4	134.8	118.6	159.7	151.7	196.5	180.0	138.2	204.7
525	152.1	154.6	159.6	136.9	146.0	93.0	96.2	108.5	142.7	122.1	183.3	180.0
526	200.1	161.6	152.2	206.0	123.7	201.1	162.6	198.0	157.7	187.1	189.3	153.8
527	170.8	163.6	137.4	199.8	169.4	158.6	157.1	136.2	170.4	171.1	161.2	202.4
528	155.0	136.1	174.5	148.1	173.6	169.0	43.6	206.1	184.8	129.2	24.3	62.4
529	163.3	140.6	113.0	144.0	187.3	93.2	215.4	123.4	191.8	109.8	88.0	153.5
530	140.1	188.2	174.8	175.0	179.3	179.8	184.8	118.0	109.9	145.0	132.0	127.8
531	143.6	145.8	164.1	103.5	164.0	142.6	84.8	159.0	77.2	75.1	54.9	77.7
532	93.6	123.5	41.5	86.6	120.9	185.3	120.9	223.2	150.8	90.6	110.3	95.7
533	93.5	119.6	104.8	151.2	155.3	94.9	137.9	80.8	169.2	176.7	208.6	178.3
534	122.6	193.9	171.7	130.9	144.9	207.1	164.1	138.9	187.3	199.9	140.7	114.9
535	--	--	--	--	--	--	--	--	--	--	--	--
536	100.4	184.8	118.5	156.3	158.4	188.3	191.8	166.8	--	179.4	217.6	151.4
537	139.3	175.4	202.2	157.2	154.6	105.2	162.5	176.8	148.5	140.8	154.9	80.2
538	--	--	--	--	--	--	--	--	--	--	--	--
539	84.2	117.2	93.8	102.9	174.4	108.9	175.2	112.8	179.2	129.1	155.0	106.9
540	172.3	73.0	126.1	96.6	161.4	189.8	129.1	127.8	172.4	171.4	162.3	149.8
541	136.4	152.8	166.9	105.2	119.2	130.1	120.1	143.6	147.3	164.2	153.8	135.9
542	82.4	131.1	123.6	107.7	118.4	118.2	21.8	117.7	107.7	118.5	91.7	81.9
543	110.9	98.7	122.0	137.7	35.3	129.7	149.6	142.1	155.9	156.8	190.7	171.2
544	142.9	137.5	174.7	116.0	133.5	124.7	69.0	114.1	142.7	165.8	154.7	140.8
545	163.7	142.1	209.4	183.3	181.6	175.5	141.3	74.1	223.9	173.9	202.7	93.4
546	108.9	179.9	138.3	161.2	135.2	125.5	65.1	86.3	121.4	108.2	172.1	83.2
547	134.0	151.0	140.2	146.5	79.2	129.4	120.8	105.9	116.7	146.9	113.6	111.7
548	166.6	188.1	183.0	165.4	165.2	146.1	167.4	178.9	175.2	188.2	204.2	112.9
549	59.8	162.8	108.4	115.7	150.2	129.6	128.4	199.7	249.6	197.0	192.0	129.5
550	67.2	147.8	112.3	125.2	139.9	123.1	98.6	109.1	140.6	98.6	137.0	100.7
551	--	112.6	142.4	176.3	135.8	92.0	98.9	148.8	140.1	163.2	176.3	130.5
552	183.3	98.8	144.7	131.1	104.5	139.7	172.9	118.4	115.4	94.9	73.3	118.1
553	105.9	99.4	134.3	78.9	87.0	78.5	54.0	66.2	82.6	108.7	137.2	160.0
554	126.4	158.4	176.6	189.1	169.8	149.0	132.6	115.7	155.4	115.1	141.3	163.3
MEAN	131.7	141.4	141.0	137.2	140.3	138.3	125.9	133.2	149.7	140.0	144.3	129.0
S.D.	35.82	30.03	34.62	32.92	35.17	34.83	44.53	38.30	38.40	36.59	45.39	36.36
N	33	34	34	34	34	34	34	34	33	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-F SEX: FEMALE
DOSE: 450 (ppm)

ANIMAL #	4-25-96	5-2-96	5-9-96	5-16-96	5-23-96	5-30-96
517	148.0	128.5	79.7	137.9	131.6	177.2
518	91.3	123.5	100.8	100.6	114.6	127.5
519	--	--	--	--	--	--
520	--	--	--	--	--	--
521	120.4	182.5	155.6	86.1	155.0	159.3
522	102.7	88.6	108.5	144.1	117.1	107.1
523	99.1	132.2	95.4	19.6	78.6	121.3
524	170.3	145.6	98.3	117.9	262.6	338.3
525	108.8	140.7	157.4	105.3	182.3	225.1
526	126.2	200.8	76.4	49.4	227.8	393.7
527	123.5	89.4	103.9	158.7	132.3	77.3
528	84.1	114.9	129.6	86.7	119.0	109.3
529	134.3	191.2	126.7	93.8	97.7	94.8
530	93.7	96.2	149.1	237.5	386.0	420.2
531	97.3	156.0	119.2	55.6	89.0	66.2
532	127.6	102.3	84.1	128.4	217.2	216.9
533	97.0	57.0	132.4	221.2	410.0	479.9
534	94.8	87.1	90.1	139.0	248.1	206.3
535	--	--	--	--	--	--
536	126.2	153.3	128.1	161.6	160.0	244.9
537	126.2	125.7	194.3	154.6	167.8	164.6
538	--	--	--	--	--	--
539	95.5	176.6	164.1	261.9	401.9	518.1
540	121.5	153.2	170.9	280.8	401.0	511.2
541	20.8	175.8	191.6	315.5	508.8	579.0
542	136.3	30.9	95.5	145.2	209.6	353.0
543	201.7	129.7	174.0	208.8	281.0	319.1
544	138.6	20.7	141.1	144.1	209.4	326.0
545	82.2	23.3	155.3	221.9	350.4	583.4
546	82.4	133.9	143.1	87.7	175.4	254.8
547	135.5	102.9	86.8	149.8	207.6	373.1
548	140.6	147.1	152.0	160.7	156.2	147.3
549	157.4	155.1	114.5	99.9	74.3	69.1
550	104.6	117.2	132.9	97.3	111.7	95.4
551	133.2	132.5	144.7	186.9	242.8	405.8
552	108.0	149.6	150.8	135.5	34.9	110.4
553	158.6	70.9	114.8	50.3	144.6	98.8
554	140.4	161.9	186.9	169.8	182.8	152.5
MEAN	118.5	123.4	130.8	144.5	205.6	253.7
S.D.	32.13	45.75	33.36	67.95	113.08	158.87
N	34	34	34	34	34	34

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-F SEX: FEMALE PAGE: 1
DOSE: 2500 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
555	--	--	--	--	--	--	--	--	--	--	--	--
556	141.7	145.2	155.3	115.5	115.6	148.0	158.9	137.7	130.4	144.8	144.4	106.6
557	159.0	201.2	225.3	204.9	228.6	223.1	274.4	168.3	193.2	143.1	178.0	146.9
558	148.2	170.2	175.1	139.1	176.2	142.0	206.0	155.7	163.6	104.2	146.8	124.2
559	205.4	250.7	236.7	272.6	229.6	255.2	264.8	168.7	192.7	232.0	156.5	202.4
560	185.8	191.6	202.9	172.8	178.3	156.0	143.7	123.8	223.1	203.1	122.7	170.5
561	149.7	187.3	213.7	146.4	204.9	171.5	168.0	199.5	177.3	158.1	155.0	130.3
562	142.7	166.7	177.5	176.5	213.9	205.9	165.8	134.6	167.3	150.0	164.2	124.1
563	230.5	197.8	205.7	191.2	185.0	142.1	221.0	198.2	175.0	195.9	143.0	136.9
564	182.4	171.2	205.2	161.3	154.5	125.6	182.6	144.8	145.8	144.3	158.9	120.7
565	210.3	262.4	268.1	234.5	179.3	210.0	170.8	136.8	151.2	189.9	146.5	193.6
566	143.2	156.4	162.6	140.2	171.0	143.0	157.6	153.8	131.6	143.9	137.9	107.2
567	123.5	179.0	184.2	227.1	243.3	260.2	271.8	6.7	271.4	221.5	242.2	181.1
568	95.6	106.0	124.2	129.7	124.7	126.8	84.7	112.5	134.9	129.3	98.0	136.4
569	134.5	154.7	115.1	153.2	108.9	143.5	95.7	108.7	106.6	168.6	125.7	106.8
570	--	--	--	--	--	--	--	--	--	--	--	--
571	165.2	259.5	196.7	134.4	171.1	163.8	276.6	159.5	210.2	80.8	179.5	153.8
572	203.2	229.2	246.9	209.4	165.3	175.0	219.3	140.2	176.9	201.6	188.4	199.4
573	173.4	157.4	213.7	220.2	195.5	200.0	217.2	145.1	139.0	143.2	149.2	119.1
574	186.4	225.8	190.2	207.4	177.9	187.9	225.3	149.2	157.3	193.5	160.0	161.7
575	132.2	174.6	144.9	195.2	108.1	148.0	116.3	110.2	139.4	174.5	133.8	159.0
576	135.0	155.7	143.4	194.1	171.5	160.0	156.8	127.7	125.6	136.7	102.9	91.5
577	141.3	194.7	231.5	163.3	88.3	101.9	127.5	92.6	110.2	142.8	150.3	159.5
578	149.8	170.2	130.1	162.5	199.1	166.2	208.5	181.3	259.9	209.3	215.1	230.9
579	187.7	163.2	166.0	173.5	171.4	139.8	166.3	121.9	139.9	177.8	165.9	91.0
580	167.4	159.0	150.2	165.5	153.0	139.4	156.8	123.5	125.2	152.2	139.7	101.9
581	135.0	139.3	156.0	188.9	141.6	122.8	184.7	132.4	142.3	119.8	120.0	90.2
582	144.1	141.2	146.8	159.5	188.2	190.7	164.4	125.7	138.6	101.3	114.9	93.7
583	--	--	--	--	--	--	--	--	--	--	--	--
584	199.8	167.4	232.4	168.9	161.5	132.4	205.2	105.8	131.8	164.5	166.2	130.8
585	237.8	148.9	151.7	176.9	149.1	133.1	138.1	149.8	137.9	133.9	135.7	104.6
586	168.2	177.7	195.7	185.0	176.4	162.7	202.7	147.4	194.8	143.9	143.4	127.4
587	137.3	128.0	141.6	186.5	203.7	151.7	185.0	174.1	192.3	153.9	173.5	169.6
588	160.6	123.1	126.2	129.1	157.8	143.2	149.8	138.2	134.2	146.7	139.2	147.2
589	193.8	176.5	167.1	164.0	155.2	182.6	158.3	120.2	101.6	90.0	154.9	94.4
590	157.5	174.7	137.1	135.0	148.3	110.4	180.6	85.0	136.3	120.2	141.4	149.5
591	123.5	131.9	156.7	157.3	166.6	93.8	238.5	105.3	133.5	159.1	136.9	145.3
592	212.8	174.8	290.7	197.0	164.8	151.1	234.7	154.8	196.1	108.9	152.0	104.9
MEAN	164.7	174.7	181.9	175.4	169.4	160.3	185.1	135.4	159.6	153.8	150.9	137.5
S.D.	33.01	36.62	43.24	33.84	34.72	38.38	48.22	35.05	40.03	36.59	28.18	35.90
N	35	35	35	35	35	35	35	35	35	35	35	35

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-F SEX: FEMALE
DOSE: 2500(ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
555	--	--	--	--	--	--	--	--	--	--	--	--
556	142.3	88.0	64.9	80.2	62.1	73.9	51.8	91.4	102.1	96.8	93.5	91.7
557	175.9	103.2	102.9	123.9	121.6	84.5	95.8	129.6	172.2	143.8	147.0	135.4
558	221.7	140.7	90.8	112.2	108.4	141.9	109.5	123.3	224.4	222.8	242.2	186.9
559	192.5	181.7	235.6	193.8	114.5	152.4	197.3	188.8	193.0	223.8	234.5	225.9
560	142.1	99.4	136.7	136.7	135.8	100.6	95.1	103.5	172.6	105.8	139.7	155.6
561	141.0	117.9	162.8	154.1	114.1	96.4	71.9	111.8	179.9	161.0	117.7	146.4
562	167.2	140.3	157.5	97.5	131.7	118.8	114.1	130.9	105.9	116.0	153.1	127.8
563	99.9	195.5	137.5	103.8	41.0	149.5	93.9	91.2	146.1	96.2	132.4	153.9
564	125.4	84.9	57.8	85.6	132.7	95.5	97.9	115.5	101.5	123.6	114.8	140.6
565	179.3	135.1	152.7	152.2	127.8	108.6	77.9	120.7	145.6	135.8	125.2	192.4
566	115.3	72.4	88.4	136.0	116.3	116.8	97.4	106.3	113.1	115.6	110.6	122.0
567	264.6	143.8	229.3	138.8	212.4	178.6	150.1	150.6	199.6	130.2	139.1	180.5
568	113.4	109.7	99.4	87.3	82.7	106.0	102.9	82.6	123.0	49.8	124.3	97.9
569	120.9	124.7	107.4	77.3	97.1	86.2	90.0	121.3	138.8	130.2	133.5	99.0
570	--	--	--	--	--	--	--	--	--	--	--	--
571	194.2	139.5	216.7	167.5	58.4	106.6	200.7	194.7	251.6	191.4	213.8	179.9
572	148.6	147.4	176.6	166.2	118.9	126.0	129.0	130.9	77.8	105.7	138.8	148.1
573	132.8	107.0	91.4	155.5	193.1	150.1	143.0	148.0	8.2	--	--	--
574	163.8	129.7	52.2	194.2	176.3	147.1	113.1	105.9	9.9	0.0	--	--
575	159.1	118.4	234.6	131.8	89.9	75.6	131.6	120.5	155.4	144.1	120.2	141.1
576	94.3	92.1	92.2	122.9	59.8	105.5	101.5	64.1	147.5	125.2	96.9	103.6
577	168.4	127.7	163.3	126.4	62.4	110.6	107.4	127.8	212.8	134.0	128.1	141.8
578	220.0	226.2	105.3	129.8	58.2	107.8	289.4	274.5	223.7	177.4	189.4	240.6
579	103.5	110.6	132.2	63.1	101.4	106.4	100.7	101.7	101.8	94.1	117.5	93.2
580	120.6	145.2	153.5	120.1	78.3	126.7	113.5	108.8	140.0	138.4	102.3	109.7
581	71.6	91.2	105.1	120.6	96.1	49.1	131.8	58.3	131.9	88.7	113.7	140.4
582	--	111.3	130.6	94.9	114.7	103.2	75.0	72.7	162.2	166.6	140.1	164.2
583	--	--	--	--	--	--	--	--	--	--	--	--
584	128.1	144.8	105.3	153.3	118.6	115.0	95.8	117.7	140.8	165.6	195.7	135.3
585	109.3	146.2	116.8	93.8	97.7	91.2	65.8	70.0	125.6	98.3	92.4	144.1
586	123.5	117.8	115.6	108.1	149.1	99.6	99.7	103.6	83.7	80.2	101.0	168.2
587	128.8	134.6	158.9	94.7	113.2	115.7	124.1	118.2	165.6	132.5	151.6	125.1
588	120.3	83.8	171.8	91.9	114.8	124.8	117.6	102.4	171.0	105.9	142.2	128.6
589	112.4	112.9	137.2	87.6	112.0	49.0	130.2	58.9	156.2	116.7	127.7	115.8
590	207.9	137.2	78.6	76.3	50.7	77.6	40.0	63.8	158.1	78.6	85.3	93.8
591	158.5	114.5	106.5	104.3	139.6	120.1	102.3	83.6	129.7	94.0	156.0	150.8
592	105.2	120.9	140.4	90.7	111.1	86.4	98.3	100.0	228.8	197.3	168.3	176.2
MEAN	146.2	125.6	131.7	119.2	108.9	108.7	113.0	114.1	145.7	126.1	139.0	144.1
S.D.	42.35	31.51	47.80	33.32	38.34	28.10	44.88	42.08	54.24	46.03	38.90	36.35
N	34	35	35	35	35	35	35	35	35	34	33	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-F SEX: FEMALE
DOSE: 2500(ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96	3-21-96	3-28-96	4-4-96	4-11-96	4-18-96
555	--	--	--	--	--	--	--	--	--	--	--	--
556	86.5	83.9	113.9	122.7	105.0	126.8	116.9	123.5	126.2	124.6	142.2	130.4
557	157.1	151.4	133.6	184.0	172.0	168.7	93.1	92.9	94.7	145.7	192.0	92.6
558	210.9	218.8	186.1	224.7	178.4	185.2	119.2	158.4	198.7	140.4	91.2	134.7
559	203.9	185.6	200.3	190.8	224.5	211.1	227.6	172.8	181.5	201.6	221.0	206.5
560	144.8	137.6	145.2	151.0	124.8	138.3	150.6	130.8	95.3	130.0	131.2	129.6
561	103.3	144.0	141.8	152.9	10.2	180.4	138.5	131.7	137.2	174.1	102.2	65.6
562	131.8	145.1	139.0	134.1	124.6	162.7	143.2	139.5	172.5	155.5	118.7	115.4
563	167.6	145.1	173.5	148.6	144.3	172.4	82.5	86.7	86.2	123.1	135.3	139.8
564	119.1	137.8	103.7	124.9	117.7	94.8	94.4	164.6	109.9	154.4	110.5	115.6
565	168.6	166.3	208.0	182.0	222.1	211.5	161.4	178.4	115.9	107.7	108.0	146.2
566	146.5	134.4	131.3	129.5	103.1	106.8	81.0	125.2	79.6	42.5	71.6	161.3
567	150.9	196.1	80.5	150.3	148.9	134.9	117.0	160.5	51.3	114.4	63.5	124.2
568	101.5	110.4	133.7	131.8	117.0	120.7	101.7	54.0	129.0	165.8	140.4	80.1
569	104.9	117.1	104.7	91.2	128.7	157.6	126.3	107.6	134.4	114.2	165.5	113.4
570	--	--	--	--	--	--	--	--	--	--	--	--
571	182.8	190.7	188.1	190.0	161.4	223.4	177.3	178.2	79.2	127.6	177.2	126.7
572	149.0	171.1	170.5	139.3	168.2	118.4	158.4	186.8	174.3	144.3	205.6	69.1
573	--	--	--	--	--	--	--	--	--	--	--	--
574	--	--	--	--	--	--	--	--	--	--	--	--
575	22.1	129.3	144.0	117.8	122.9	127.2	149.9	152.5	132.1	97.9	58.8	142.8
576	107.2	103.9	105.8	78.2	98.7	121.2	91.2	111.1	75.4	118.3	121.7	77.9
577	154.0	149.1	144.2	34.3	83.5	129.7	113.2	141.0	130.6	134.6	155.6	129.7
578	197.0	160.7	150.7	250.3	165.1	183.2	148.3	117.2	159.6	152.1	175.6	136.1
579	92.8	148.7	166.4	128.0	72.0	118.8	140.2	147.8	145.1	151.1	94.6	81.0
580	122.5	129.8	127.9	116.9	132.2	103.7	121.3	152.5	151.1	138.7	165.6	114.7
581	87.5	146.8	140.4	110.8	104.8	72.6	77.8	138.2	118.1	103.8	112.0	60.6
582	151.4	161.6	149.4	106.1	--	131.3	136.5	177.8	--	151.3	131.1	60.0
583	--	--	--	--	--	--	--	--	--	--	--	--
584	183.6	213.8	214.3	150.7	174.1	204.6	123.7	172.8	172.7	183.3	203.9	168.6
585	132.2	133.4	117.7	105.9	149.5	138.7	92.8	166.7	142.5	122.6	178.0	124.7
586	149.0	146.3	148.5	129.0	128.0	111.9	123.3	182.2	147.6	129.8	172.4	133.4
587	147.9	161.9	134.2	113.9	85.7	133.1	159.8	167.2	142.6	172.4	153.8	137.8
588	145.2	166.4	170.1	148.6	142.2	144.6	136.8	167.9	116.5	100.7	123.7	111.9
589	161.6	151.3	172.3	99.0	50.9	70.4	119.6	90.6	115.0	112.1	76.6	88.3
590	69.8	138.6	155.7	169.7	172.0	168.0	135.1	115.0	111.9	122.8	108.0	115.0
591	104.3	113.7	133.2	158.2	127.4	113.3	141.9	147.7	147.0	147.1	99.8	115.2
592	146.2	169.2	191.8	132.1	185.6	130.4	121.8	131.2	154.9	139.4	105.0	126.6
MEAN	136.5	150.3	149.1	139.3	132.7	142.9	127.9	141.5	129.0	134.7	133.7	117.4
S.D.	40.61	29.56	31.76	41.45	45.57	38.63	31.05	32.16	34.20	29.48	42.58	32.53
N	33	33	33	33	32	33	33	33	32	33	33	33

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-F SEX: FEMALE
DOSE: 2500(ppm)

ANIMAL #	4-25-96	5-2-96	5-9-96	5-16-96	5-23-96	5-30-96
555	--	--	--	--	--	--
556	142.0	109.5	69.1	52.1	106.5	51.8
557	97.9	106.3	177.8	192.6	251.7	459.1
558	72.0	126.4	156.5	173.9	393.7	424.2
559	230.5	186.9	157.9	255.7	350.1	391.2
560	106.0	91.6	150.2	225.8	402.6	441.1
561	96.9	88.8	112.9	186.3	240.3	403.9
562	133.6	160.2	155.7	105.8	106.4	134.3
563	137.1	141.0	130.1	165.5	232.7	381.4
564	82.2	140.3	96.7	114.2	124.7	191.1
565	145.2	89.6	157.0	258.1	381.8	578.6
566	103.2	228.5	135.0	173.4	180.0	127.3
567	135.8	125.5	61.2	86.6	135.9	149.3
568	100.5	78.8	102.3	97.5	138.1	277.8
569	155.2	49.4	162.9	193.5	271.2	329.0
570	--	--	--	--	--	--
571	163.8	182.8	119.7	182.4	304.3	379.9
572	123.8	151.7	49.8	199.8	236.2	131.0
573	--	--	--	--	--	--
574	--	--	--	--	--	--
575	135.7	143.2	127.1	108.4	112.0	132.5
576	115.5	129.5	160.1	87.4	109.6	86.4
577	160.6	146.4	175.5	193.9	259.7	390.6
578	95.2	121.5	89.3	155.6	168.5	236.1
579	120.2	114.8	100.8	101.0	124.0	135.2
580	125.2	125.0	78.6	112.6	149.0	225.2
581	82.8	102.2	104.3	106.3	89.1	126.6
582	167.0	110.3	93.1	1.1	5.6	--
583	--	--	--	--	--	--
584	168.0	171.2	157.4	72.4	123.7	126.0
585	135.2	127.3	98.9	154.1	209.8	348.4
586	102.5	168.8	114.2	112.8	168.8	226.7
587	36.7	106.8	138.6	108.2	88.5	124.7
588	92.0	136.6	74.8	179.0	204.9	256.9
589	147.7	149.2	81.6	99.2	103.1	77.1
590	113.0	107.9	148.1	194.1	279.4	384.1
591	160.3	148.2	142.2	108.8	131.8	125.0
592	150.7	141.0	126.2	145.6	170.3	135.6
MEAN	125.3	130.5	121.4	142.5	192.5	249.6
S.D.	36.24	35.04	35.11	58.10	97.78	139.85
N	33	33	33	33	33	32

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
7-20-95	INTAKE (g)	158.9	164.4	165.9	167.0	164.7
	S.D.	23.85	26.56	26.24	33.08	33.01
	N	35	35	35	35	35
7-27-95	INTAKE (g)	162.0	182.7	168.1	170.8	174.7
	S.D.	33.33	24.30	31.15	28.26	36.62
	N	35	35	35	35	35
8-3-95	INTAKE (g)	178.4	195.6	184.5	181.9	181.9
	S.D.	26.05	33.40	39.05	36.03	43.24
	N	35	35	35	35	35
8-10-95	INTAKE (g)	189.1	181.8	189.2	177.6	175.4
	S.D.	37.42	28.30	26.02	39.32	33.84
	N	35	35	35	35	35
8-17-95	INTAKE (g)	172.3	173.0	172.1	168.7	169.4
	S.D.	34.09	33.78	30.28	35.39	34.72
	N	35	35	34	35	35
8-24-95	INTAKE (g)	156.3	169.4	164.7	149.6	160.3
	S.D.	38.83	41.37	29.57	34.27	38.38
	N	35	35	34	35	35
8-31-95	INTAKE (g)	171.2	181.1	177.1	169.4	185.1
	S.D.	42.10	33.34	34.45	37.37	48.22
	N	35	35	34	35	35
9-7-95	INTAKE (g)	133.6	133.1	136.2	119.2	135.4
	S.D.	27.79	29.34	38.87	39.33	35.05
	N	35	35	34	35	35

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
9-21-95	INTAKE (g)	153.3	149.9	172.1	160.5	159.6
	S.D.	28.80	30.51	23.49	34.04	40.03
	N	35	35	34	35	35
9-28-95	INTAKE (g)	156.1	156.1	168.7	153.5	153.8
	S.D.	32.26	40.77	31.87	33.74	36.59
	N	35	35	34	35	35
10-5-95	INTAKE (g)	146.0	150.0	151.1	162.2	150.9
	S.D.	33.10	24.15	27.30	47.11	28.18
	N	35	35	34	35	35
10-12-95	INTAKE (g)	131.2	140.7	142.3	132.5	137.5
	S.D.	24.00	24.40	29.68	30.25	35.90
	N	35	35	34	35	35
10-19-95	INTAKE (g)	141.4	144.5	148.9	149.5	146.2
	S.D.	25.69	35.54	38.24	37.92	42.35
	N	35	35	34	35	34
10-26-95	INTAKE (g)	143.8	153.7	136.2	141.3	125.6*
	S.D.	26.74	33.62	25.76	36.99	31.51
	N	35	35	34	35	35
11-2-95	INTAKE (g)	120.0	127.5	129.3	125.0	131.7
	S.D.	36.91	28.58	30.49	37.24	47.80
	N	35	35	34	35	35
11-9-95	INTAKE (g)	113.0	113.7	121.4	114.0	119.2
	S.D.	28.88	32.32	25.37	31.19	33.32
	N	35	35	34	35	35

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
11-16-95	INTAKE (g)	105.4	110.7	117.6	111.5	108.9
	S.D.	32.92	29.71	29.25	32.32	38.34
	N	35	35	34	35	35
11-22-95	INTAKE (g)	101.5	109.6	119.8	109.5	108.7
	S.D.	29.16	29.17	44.84	23.61	28.10
	N	35	35	34	35	35
11-30-95	INTAKE (g)	105.5	107.5	101.6	107.3	113.0
	S.D.	26.14	27.33	41.27	22.72	44.88
	N	35	35	34	35	35
12-7-95	INTAKE (g)	103.4	101.4	102.0	103.7	114.1
	S.D.	35.33	23.93	35.61	27.91	42.08
	N	35	35	34	35	35
12-21-95	INTAKE (g)	143.7	147.4	145.9	136.5	145.7
	S.D.	45.37	44.65	43.59	48.30	54.24
	N	35	34	34	35	35
12-28-95	INTAKE (g)	127.3	132.7	124.4	121.7	126.1
	S.D.	26.39	35.36	49.89	38.05	46.03
	N	34	35	34	35	34
1-4-96	INTAKE (g)	124.5	138.2	128.4	131.3	139.0
	S.D.	37.66	32.46	30.07	29.05	38.90
	N	34	35	33	34	33
1-11-96	INTAKE (g)	150.9	148.9	146.7	146.2	144.1
	S.D.	27.11	32.64	30.19	37.16	36.35
	N	34	35	32	34	33

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
1-18-96	INTAKE (g)	141.3	144.1	124.5	131.7	136.5
	S.D.	34.05	41.91	30.24	35.82	40.61
	N	34	35	33	33	33
1-25-96	INTAKE (g)	131.5	146.3	147.8	141.4	150.3
	S.D.	37.26	32.24	49.69	30.03	29.56
	N	34	35	33	34	33
2-1-96	INTAKE (g)	152.7	153.2	149.6	141.0	149.1
	S.D.	26.03	25.63	28.61	34.62	31.76
	N	34	35	33	34	33
2-8-96	INTAKE (g)	134.0	141.4	141.7	137.2	139.3
	S.D.	37.08	43.51	39.53	32.92	41.45
	N	34	35	33	34	33
2-22-96	INTAKE (g)	139.5	141.3	139.8	140.3	132.7
	S.D.	46.54	43.60	37.85	35.17	45.57
	N	34	35	33	34	32
2-29-96	INTAKE (g)	143.1	146.3	139.0	138.3	142.9
	S.D.	54.89	36.85	33.60	34.83	38.63
	N	34	34	33	34	33
3-5/7-96	INTAKE (g)	130.9	118.6	134.8	125.9	127.9
	S.D.	38.10	28.91	35.82	44.53	31.05
	N	34	34	33	34	33
3-21-96	INTAKE (g)	142.6	149.8	141.6	133.2	141.5
	S.D.	38.76	31.58	28.10	38.30	32.16
	N	34	34	33	34	33

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
3-28-96	INTAKE (g)	138.3	151.1	136.7	149.7	129.0
	S.D.	32.34	35.52	39.35	38.40	34.20
	N	34	34	33	33	32
4-4-96	INTAKE (g)	135.9	145.0	143.0	140.0	134.7
	S.D.	35.70	41.67	37.80	36.59	29.48
	N	34	34	33	34	33
4-11-96	INTAKE (g)	139.1	130.4	136.6	144.3	133.7
	S.D.	38.22	34.84	47.04	45.39	42.58
	N	34	34	32	34	33
4-18-96	INTAKE (g)	120.3	126.3	122.7	129.0	117.4
	S.D.	38.21	46.35	34.32	36.36	32.53
	N	34	34	33	34	33
4-25-96	INTAKE (g)	127.5	128.1	128.7	118.5	125.3
	S.D.	40.65	27.00	33.87	32.13	36.24
	N	34	34	33	34	33
5-2-96	INTAKE (g)	122.1	128.1	123.2	123.4	130.5
	S.D.	48.28	33.64	28.10	45.75	35.04
	N	34	34	33	34	33
5-9-96	INTAKE (g)	122.7	132.8	120.2	130.8	121.4
	S.D.	57.26	34.96	37.90	33.36	35.11
	N	34	33	33	34	33
5-16-96	INTAKE (g)	170.6	159.7	128.0	144.5	142.5
	S.D.	67.45	74.94	55.98	67.95	58.10
	N	33	34	33	34	33

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

PERIOD	DOSE:(ppm) GROUP:	0 1-F	0 2-F	150 3-F	450 4-F	2500 5-F
5-23-96	INTAKE (g)	236.1	206.5	171.1	205.6	192.5
	S.D.	115.62	109.66	69.47	113.08	97.78
	N	34	34	33	34	33
5-30-96	INTAKE (g)	324.5	254.6	237.0	253.7	249.6
	S.D.	165.65	169.56	146.76	158.87	139.85
	N	34	34	33	34	32

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

7-20-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5562.8	158.9	23.85				TREATMENTS	4	1353.6	338.4
2-F	35	5755.2	164.4	26.56	0.80			ERROR	170	141003.0	829.4
3-F	35	5805.7	165.9	26.24	1.01						
4-F	35	5845.1	167.0	33.08	1.17			TOTAL	174	142356.6	
5-F	35	5764.5	164.7	33.01	0.84						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 17.541
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.41

7-27-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5671.2	162.0	33.33				TREATMENTS	4	8300.3	2075.1
2-F	35	6394.7	182.7	24.30	2.79			ERROR	170	163583.5	962.3
3-F	35	5883.7	168.1	31.15	0.82						
4-F	35	5976.4	170.8	28.26	1.18			TOTAL	174	171883.8	
5-F	35	6113.2	174.7	36.62	1.70						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 18.072
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 2.16

8-3-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6243.8	178.4	26.05				TREATMENTS	4	6070.8	1517.7
2-F	35	6845.6	195.6	33.40	2.00			ERROR	170	220551.5	1297.4
3-F	35	6457.9	184.5	39.05	0.71						
4-F	35	6368.0	181.9	36.03	0.41			TOTAL	174	226622.3	
5-F	35	6367.2	181.9	43.24	0.41						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 19.525
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.17

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

8-10-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6620.1	189.1	37.42				TREATMENTS	4	5736.3	1434.1
2-F	35	6362.0	181.8	28.30	0.92			ERROR	170	189359.0	1113.9
3-F	35	6621.9	189.2	26.02	0.01						
4-F	35	6216.6	177.6	39.32	1.45			TOTAL	174	195095.3	
5-F	35	6138.6	175.4	33.84	1.72						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 18.275
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.29

8-17-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	6029.2	172.3	34.09				TREATMENTS	4	524.9	131.2
2-F	35	6056.4	173.0	33.78	0.10			ERROR	169	192125.5	1136.8
3-F	34	5850.8	172.1	30.28	0.02						
4-F	35	5903.0	168.7	35.39	0.45			TOTAL	173	192650.4	
5-F	35	5928.2	169.4	34.72	0.36						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 19.709
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.12

8-24-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5470.2	156.3	38.83				TREATMENTS	4	8122.7	2030.7
2-F	35	5929.2	169.4	41.37	1.49			ERROR	169	228308.5	1350.9
3-F	34	5600.9	164.7	29.57	0.95						
4-F	35	5236.2	149.6	34.27	0.76			TOTAL	173	236431.2	
5-F	35	5609.4	160.3	38.38	0.45						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 22.967
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.50

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

8-31-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5991.3	171.2	42.10						TREATMENTS	4	6089.9	1522.5
2-F	35	6340.0	181.1	33.34	1.05					ERROR	169	263765.5	1560.7
3-F	34	6021.3	177.1	34.45	0.62								
4-F	35	5929.3	169.4	37.37	0.19					TOTAL	173	269855.4	
5-F	35	6478.4	185.1	48.22	1.47								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 22.347
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.98

9-7-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	4675.7	133.6	27.79						TREATMENTS	4	6831.1	1707.8
2-F	35	4659.8	133.1	29.34	0.06					ERROR	169	199721.3	1181.8
3-F	34	4631.3	136.2	38.87	0.32								
4-F	35	4172.2	119.2	39.33	1.75					TOTAL	173	206552.4	
5-F	35	4739.7	135.4	35.05	0.22								

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 26.145
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.45

9-21-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5367.0	153.3	28.80						TREATMENTS	4	9916.3	2479.1
2-F	35	5246.0	149.9	30.51	0.45	134.7	171.9	130.5	176.2	ERROR	169	171941.0	1017.4
3-F	34	5850.1	172.1	23.49	2.44	134.6	172.1	130.3	176.4				
4-F	35	5615.9	160.5	34.04	0.93	134.7	171.9	130.5	176.2	TOTAL	173	181857.3	
5-F	35	5587.1	159.6	40.03	0.82	134.7	171.9	130.5	176.2				

'F' table values F.01 = 3.41 F.05 = 2.41* Coeff. Var. % = 20.061
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 2.44

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

9-28-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5461.9	156.1	32.26				TREATMENTS	4	5428.9	1357.2
2-F	35	5464.2	156.1	40.77	0.01			ERROR	169	209638.5	1240.5
3-F	34	5734.7	168.7	31.87	1.49						
4-F	35	5370.9	153.5	33.74	0.31			TOTAL	173	215067.4	
5-F	35	5383.3	153.8	36.59	0.27						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 22.354
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.09

10-5-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5108.5	146.0	33.10				TREATMENTS	4	5149.0	1287.2
2-F	35	5250.6	150.0	24.15	0.51			ERROR	169	184113.0	1089.4
3-F	34	5137.2	151.1	27.30	0.65						
4-F	35	5678.2	162.2	47.11	2.06			TOTAL	173	189262.0	
5-F	35	5282.7	150.9	28.18	0.63						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 21.707
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.18

10-12-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	4592.5	131.2	24.00				TREATMENTS	4	3328.5	832.1
2-F	35	4926.1	140.7	24.40	1.37			ERROR	169	143817.5	851.0
3-F	34	4838.0	142.3	29.68	1.58						
4-F	35	4637.5	132.5	30.25	0.18			TOTAL	173	147146.0	
5-F	35	4813.1	137.5	35.90	0.90						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 21.321
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.98

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

10-19-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	4948.5	141.4	25.69						TREATMENTS	4	1522.8	380.7
2-F	35	5058.0	144.5	35.54	0.36					ERROR	168	221718.8	1319.8
3-F	34	5061.6	148.9	38.24	0.86								
4-F	35	5231.1	149.5	37.92	0.93					TOTAL	172	223241.6	
5-F	34	4972.4	146.2	42.35	0.56								

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 24.869
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.29

10-26-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5034.1	143.8	26.74						TREATMENTS	4	14868.2	3717.0
2-F	35	5379.1	153.7	33.62	1.32	125.6	162.1	121.4	166.2	ERROR	169	164918.5	975.8
3-F	34	4631.1	136.2	25.76	1.01	125.5	162.2	121.3	166.4				
4-F	35	4946.9	141.3	36.99	0.33	125.6	162.1	121.4	166.2	TOTAL	173	179786.7	
5-F	35	4396.3	125.6*	31.51	2.44	125.6	162.1*	121.4	166.2				

'F' table values	F.01 =	3.41**	F.05 =	2.41*	Coeff. Var. % = 22.288
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 3.81

11-2-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	4200.3	120.0	36.91						TREATMENTS	4	2782.7	695.7
2-F	35	4461.1	127.5	28.58	0.85					ERROR	169	229597.0	1358.6
3-F	34	4397.1	129.3	30.49	1.05								
4-F	35	4376.6	125.0	37.24	0.57					TOTAL	173	232379.7	
5-F	35	4608.5	131.7	47.80	1.32								

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 29.094
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.51

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

11-9-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3955.9	113.0	28.88				TREATMENTS	4	1968.4	492.1
2-F	35	3979.7	113.7	32.32	0.09			ERROR	169	155961.0	922.8
3-F	34	4126.8	121.4	25.37	1.14						
4-F	35	3990.8	114.0	31.19	0.14			TOTAL	173	157929.4	
5-F	35	4173.1	119.2	33.32	0.85						

'F' table values	F.01 = 3.41	F.05 = 2.41	Coeff. Var. % =	26.133
Dunnett's 'T' table values	P.01 = 3.00	P.05 = 2.44	F Ratio =	0.53

11-16-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3690.7	105.4	32.92				TREATMENTS	4	2699.7	674.9
2-F	35	3873.4	110.7	29.71	0.67			ERROR	169	180597.8	1068.6
3-F	34	3997.2	117.6	29.25	1.54						
4-F	35	3903.5	111.5	32.32	0.78			TOTAL	173	183297.5	
5-F	35	3812.5	108.9	38.34	0.45						

'F' table values	F.01 = 3.41	F.05 = 2.41	Coeff. Var. % =	29.506
Dunnett's 'T' table values	P.01 = 3.00	P.05 = 2.44	F Ratio =	0.63

11-22-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3551.5	101.5	29.16				TREATMENTS	4	5906.1	1476.5
2-F	35	3835.1	109.6	29.17	1.07			ERROR	169	169981.3	1005.8
3-F	34	4074.7	119.8	44.84	2.41						
4-F	35	3833.1	109.5	23.61	1.06			TOTAL	173	175887.4	
5-F	35	3803.8	108.7	28.10	0.95						

'F' table values	F.01 = 3.41	F.05 = 2.41	Coeff. Var. % =	28.894
Dunnett's 'T' table values	P.01 = 3.00	P.05 = 2.44	F Ratio =	1.47

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

11-30-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3691.3	105.5	26.14				TREATMENTS	4	2363.7	590.9
2-F	35	3763.8	107.5	27.33	0.26			ERROR	169	190867.6	1129.4
3-F	34	3454.1	101.6	41.27	0.48						
4-F	35	3756.4	107.3	22.72	0.23			TOTAL	173	193231.3	
5-F	35	3956.1	113.0	44.88	0.94						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 31.402
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.52

12-7-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	3619.9	103.4	35.33				TREATMENTS	4	3803.8	950.9
2-F	35	3550.0	101.4	23.93	0.25			ERROR	169	190460.0	1127.0
3-F	34	3466.8	102.0	35.61	0.18						
4-F	35	3630.0	103.7	27.91	0.04			TOTAL	173	194263.8	
5-F	35	3993.6	114.1	42.08	1.33						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 31.989
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.84

12-21-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	35	5030.9	143.7	45.37				TREATMENTS	4	2591.8	648.0
2-F	34	5010.0	147.4	44.65	0.32			ERROR	168	377815.5	2248.9
3-F	34	4961.6	145.9	43.59	0.19						
4-F	35	4776.5	136.5	48.30	0.64			TOTAL	172	380407.3	
5-F	35	5100.1	145.7	54.24	0.17						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 32.976
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.29

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

12-28-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4329.6	127.3	26.39				TREATMENTS	4	2346.7	586.7
2-F	35	4645.5	132.7	35.36	0.56			ERROR	167	266773.0	1597.4
3-F	34	4230.5	124.4	49.89	0.30						
4-F	35	4258.9	121.7	38.05	0.59			TOTAL	171	269119.7	
5-F	34	4286.1	126.1	46.03	0.13						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 31.606
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.37

1-4-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4234.5	124.5	37.66				TREATMENTS	4	5314.0	1328.5
2-F	35	4837.6	138.2	32.46	1.68			ERROR	164	187832.5	1145.3
3-F	33	4236.6	128.4	30.07	0.46						
4-F	34	4464.5	131.3	29.05	0.82			TOTAL	168	193146.5	
5-F	33	4588.6	139.0	38.90	1.75						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 25.577
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 1.16

1-11-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	5131.4	150.9	27.11				TREATMENTS	4	918.2	229.6
2-F	35	5210.7	148.9	32.64	0.26			ERROR	163	176594.8	1083.4
3-F	32	4693.9	146.7	30.19	0.52						
4-F	34	4969.6	146.2	37.16	0.60			TOTAL	167	177513.0	
5-F	33	4756.5	144.1	36.35	0.84						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 22.331
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.21

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

1-18-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4805.3	141.3	34.05				TREATMENTS	4	8246.1	2061.5
2-F	35	5044.5	144.1	41.91	0.32			ERROR	163	221065.5	1356.2
3-F	33	4109.2	124.5	30.24	1.87						
4-F	33	4344.8	131.7	35.82	1.07			TOTAL	167	229311.6	
5-F	33	4503.5	136.5	40.61	0.54						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 27.127
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.52

1-25-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4470.5	131.5	37.26				TREATMENTS	4	7487.6	1871.9
2-F	35	5121.3	146.3	32.24	1.69			ERROR	164	217884.5	1328.6
3-F	33	4878.7	147.8	49.69	1.84						
4-F	34	4806.5	141.4	30.03	1.12			TOTAL	168	225372.1	
5-F	33	4959.9	150.3	29.56	2.11						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 25.416
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.41

2-1-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	5192.8	152.7	26.03				TREATMENTS	4	3250.2	812.5
2-F	35	5361.3	153.2	25.63	0.06			ERROR	164	142710.0	870.2
3-F	33	4935.5	149.6	28.61	0.44						
4-F	34	4795.1	141.0	34.62	1.63			TOTAL	168	145960.2	
5-F	33	4920.5	149.1	31.76	0.50						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 19.779
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.93

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

2-8-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4557.1	134.0	37.08				TREATMENTS	4	1376.3	344.1
2-F	35	4948.7	141.4	43.51	0.78			ERROR	164	250480.8	1527.3
3-F	33	4674.8	141.7	39.53	0.80						
4-F	34	4663.4	137.2	32.92	0.33			TOTAL	168	251857.1	
5-F	33	4597.3	139.3	41.45	0.55						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 28.175
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.23

2-22-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4742.9	139.5	46.54				TREATMENTS	4	1546.7	386.7
2-F	35	4946.4	141.3	43.60	0.18			ERROR	163	287140.0	1761.6
3-F	33	4613.7	139.8	37.85	0.03						
4-F	34	4768.5	140.3	35.17	0.07			TOTAL	167	288686.7	
5-F	32	4245.5	132.7	45.57	0.66						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 30.241
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.22

2-29-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4865.5	143.1	54.89				TREATMENTS	4	1471.9	368.0
2-F	34	4974.9	146.3	36.85	0.33			ERROR	163	268146.0	1645.1
3-F	33	4587.7	139.0	33.60	0.41						
4-F	34	4700.8	138.3	34.83	0.49			TOTAL	167	269617.9	
5-F	33	4716.4	142.9	38.63	0.02						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % = 28.576
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio = 0.22

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

3-5/7-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4450.3	130.9	38.10				TREATMENTS	4	4891.2	1222.8
2-F	34	4034.0	118.6	28.91	1.40			ERROR	163	212816.0	1305.6
3-F	33	4447.0	134.8	35.82	0.44						
4-F	34	4279.1	125.9	44.53	0.57			TOTAL	167	217707.2	
5-F	33	4222.3	127.9	31.05	0.33						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 28.323
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 0.94

3-21-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4846.9	142.6	38.76				TREATMENTS	4	4747.0	1186.7
2-F	34	5094.8	149.8	31.58	0.88			ERROR	163	189256.3	1161.1
3-F	33	4673.2	141.6	28.10	0.11						
4-F	34	4528.3	133.2	38.30	1.13			TOTAL	167	194003.3	
5-F	33	4671.0	141.5	32.16	0.12						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 24.038
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.02

3-28-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4700.6	138.3	32.34				TREATMENTS	4	11421.8	2855.5
2-F	34	5136.8	151.1	35.52	1.47			ERROR	161	209131.8	1299.0
3-F	33	4511.9	136.7	39.35	0.17						
4-F	33	4941.0	149.7	38.40	1.30			TOTAL	165	220553.6	
5-F	32	4128.6	129.0	34.20	1.04						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 25.547
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 2.20

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

4-4-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4621.5	135.9	35.70				TREATMENTS	4	2627.2	656.8
2-F	34	4928.8	145.0	41.67	1.02			ERROR	163	217061.8	1331.7
3-F	33	4719.2	143.0	37.80	0.79						
4-F	34	4760.0	140.0	36.59	0.46			TOTAL	167	219689.0	
5-F	33	4443.9	134.7	29.48	0.14						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	26.117
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.49

4-11-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4729.1	139.1	38.22				TREATMENTS	4	3790.7	947.7
2-F	34	4432.9	130.4	34.84	0.86			ERROR	162	282903.0	1746.3
3-F	32	4372.4	136.6	47.04	0.24						
4-F	34	4905.0	144.3	45.39	0.51			TOTAL	166	286693.7	
5-F	33	4412.3	133.7	42.58	0.53						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	30.539
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.54

4-18-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4089.0	120.3	38.21				TREATMENTS	4	2876.1	719.0
2-F	34	4293.1	126.3	46.35	0.65			ERROR	163	234268.8	1437.2
3-F	33	4049.1	122.7	34.32	0.26						
4-F	34	4387.4	129.0	36.36	0.95			TOTAL	167	237144.9	
5-F	33	3875.5	117.4	32.53	0.30						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	30.777
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.50

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

4-25-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4333.7	127.5	40.65				TREATMENTS	4	2365.4	591.4
2-F	34	4356.8	128.1	27.00	0.08			ERROR	163	191377.0	1174.1
3-F	33	4245.6	128.7	33.87	0.14						
4-F	34	4028.8	118.5	32.13	1.08			TOTAL	167	193742.4	
5-F	33	4134.0	125.3	36.24	0.26						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	27.284
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.50

5-2-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4152.4	122.1	48.28				TREATMENTS	4	1756.3	439.1
2-F	34	4354.6	128.1	33.64	0.63			ERROR	163	247913.5	1520.9
3-F	33	4067.2	123.2	28.10	0.12						
4-F	34	4196.8	123.4	45.75	0.14			TOTAL	167	249669.8	
5-F	33	4307.2	130.5	35.04	0.88						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	31.084
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.29

5-9-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	4170.2	122.7	57.26				TREATMENTS	4	4505.9	1126.5
2-F	33	4383.7	132.8	34.96	1.02			ERROR	162	269437.8	1663.2
3-F	33	3966.8	120.2	37.90	0.25						
4-F	34	4448.6	130.8	33.36	0.83			TOTAL	166	273943.7	
5-F	33	4005.6	121.4	35.11	0.13						

'F' table values	F.01 =	3.41	F.05 =	2.41	Coeff. Var. % =	32.470
Dunnett's 'T' table values	P.01 =	3.00	P.05 =	2.44	F Ratio =	0.68

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: FEMALE

ANALYSIS OF VARIANCE

5-16-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	33	5628.7	170.6	67.45				TREATMENTS	4	35873.2	8968.3
2-F	34	5429.9	159.7	74.94	0.68			ERROR	162	691588.3	4269.1
3-F	33	4223.5	128.0	55.98	2.65						
4-F	34	4914.1	144.5	67.95	1.63			TOTAL	166	727461.5	
5-F	33	4703.7	142.5	58.10	1.74						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 43.821
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 2.10

5-23-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	8026.1	236.1	115.62				TREATMENTS	4	74883.5	18720.9
2-F	34	7019.4	206.5	109.66	1.19			ERROR	163	1720349.0	10554.3
3-F	33	5647.4	171.1	69.47	2.59						
4-F	34	6989.1	205.6	113.08	1.22			TOTAL	167	1795232.5	
5-F	33	6354.0	192.5	97.78	1.73						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 50.709
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.77

5-30-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-F	34	11034.4	324.5	165.65				TREATMENTS	4	161855.1	40463.8
2-F	34	8655.2	254.6	169.56	1.84			ERROR	162	3982791.0	24585.1
3-F	33	7821.6	237.0	146.76	2.28						
4-F	34	8626.9	253.7	158.87	1.86			TOTAL	166	4144646.1	
5-F	32	7988.1	249.6	139.85	1.94						

'F' table values F.01 = 3.41 F.05 = 2.41 Coeff. Var. % = 59.341
Dunnett's 'T' table values P.01 = 3.00 P.05 = 2.44 F Ratio = 1.65

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-M SEX: MALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
300	186.6	266.5	274.2	245.8	259.7	265.0	293.7	264.9	256.8	271.3	223.2	206.5
301	193.4	271.5	336.7	223.8	295.6	273.7	298.0	302.6	301.0	290.0	299.6	262.7
302	199.1	246.5	242.2	250.2	245.1	230.7	256.2	240.6	265.0	198.8	251.4	194.9
303	210.8	203.9	246.6	208.4	189.8	178.0	240.2	82.0	167.5	196.8	189.2	180.6
304	267.2	280.9	387.0	281.1	180.6	269.1	294.2	--	285.3	214.8	238.8	191.8
305	233.6	249.9	291.9	233.8	261.8	274.4	305.8	250.3	262.6	244.6	256.4	264.3
306	243.9	260.3	289.6	266.4	262.7	231.4	280.3	--	253.9	215.3	303.5	197.7
307	265.5	243.5	358.4	276.4	215.1	262.2	267.7	308.2	318.0	234.1	299.8	290.9
308	220.2	261.6	220.1	242.2	271.1	267.2	214.2	276.8	280.1	228.7	229.9	254.7
309	164.0	254.4	305.8	262.0	300.4	262.2	282.3	291.7	273.4	198.9	287.2	274.9
310	239.1	260.7	226.5	239.5	259.1	193.8	216.7	246.2	258.9	246.6	271.9	129.6
311	180.2	187.9	216.4	261.2	281.4	280.1	287.9	225.7	264.7	234.9	230.9	199.1
312	213.2	238.1	286.4	269.3	305.4	236.7	267.3	92.6	217.3	280.1	233.8	212.4
MEAN	216.7	248.1	283.2	250.8	256.0	248.0	269.6	234.7	261.9	235.0	255.0	220.0
S.D.	32.13	26.13	53.77	21.28	39.60	32.19	30.05	77.43	37.31	30.97	35.30	45.97
N	13	13	13	13	13	13	13	11	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-M SEX: MALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
300	202.0	189.3	217.2	168.3	176.7	149.3	145.1	178.5	223.5	270.2	219.9	187.3
301	294.5	225.8	252.2	156.1	158.4	170.0	211.2	248.5	238.3	245.3	256.6	182.0
302	241.8	194.9	169.3	152.3	155.3	136.7	156.2	161.6	204.1	289.6	252.8	255.0
303	123.0	149.0	181.9	150.3	163.2	152.9	110.3	150.3	191.0	202.3	218.2	216.7
304	202.5	198.6	157.8	155.3	207.5	113.4	126.7	168.7	277.7	244.2	233.1	243.0
305	294.5	296.4	271.6	239.0	257.8	242.3	203.0	221.1	234.0	230.9	255.7	208.7
306	168.2	304.6	264.5	256.5	138.9	286.7	227.3	208.8	235.4	260.8	223.3	227.3
307	339.2	226.9	206.2	183.0	154.3	169.8	124.0	178.6	255.8	221.5	235.2	201.9
308	278.3	209.6	200.3	202.0	224.7	196.4	192.9	183.6	256.9	261.3	257.0	198.8
309	209.2	239.8	269.9	194.2	134.1	179.1	197.6	182.0	248.4	231.5	240.7	207.8
310	236.7	276.5	250.6	252.5	176.4	256.0	232.7	228.0	275.8	239.0	180.7	192.8
311	230.0	216.2	195.9	186.7	176.3	168.9	174.9	191.9	213.9	225.2	212.9	187.7
312	160.3	203.9	146.7	139.6	133.7	90.3	124.2	142.8	219.4	241.0	247.9	200.7
MEAN	229.2	225.5	214.2	187.4	173.6	177.8	171.2	188.0	236.5	243.3	233.4	208.4
S.D.	61.14	44.46	43.87	40.02	36.83	55.98	42.58	31.05	26.26	22.92	22.26	21.99
N	13	13	13	13	13	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 1-M SEX: MALE PAGE: 3
DOSE: 0 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96
300	211.9	201.0	191.9	215.8	202.2	239.1	160.0
301	246.4	213.8	218.9	229.5	225.9	235.6	194.2
302	208.2	177.1	207.0	227.8	231.5	223.5	145.6
303	193.3	218.7	196.6	227.0	197.9	212.1	193.2
304	226.4	241.2	222.0	238.9	232.7	216.4	225.4
305	234.7	201.6	220.4	263.2	220.3	239.1	258.5
306	167.0	218.4	212.3	216.6	225.1	257.6	245.9
307	228.2	237.1	219.9	229.8	236.0	227.4	231.0
308	212.0	256.6	212.0	214.2	231.3	249.5	239.8
309	222.9	199.2	207.5	208.3	290.4	160.0	189.2
310	234.1	224.8	212.8	209.0	266.6	227.9	271.8
311	218.4	194.1	196.9	224.1	197.6	244.1	210.3
312	194.7	180.8	198.8	167.3	234.6	243.5	158.0
MEAN	215.2	212.6	209.0	220.9	230.2	228.9	209.5
S.D.	21.15	23.49	10.22	21.65	25.89	24.43	40.14
N	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-M SEX: MALE PAGE: 1
DOSE: 0 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
313	197.6	236.9	275.0	250.8	266.4	216.0	283.3	271.8	273.8	248.8	258.1	228.0
314	259.8	263.8	288.0	251.5	252.0	222.8	290.0	311.1	217.3	143.1	172.3	127.5
315	205.5	242.7	275.0	254.9	273.4	260.0	289.0	270.9	254.8	118.2	167.2	277.8
316	226.4	286.7	335.8	290.2	292.2	265.3	282.0	269.9	295.6	274.9	265.5	283.4
317	220.5	460.6	313.9	264.2	266.7	265.4	294.4	309.4	287.6	245.1	309.5	239.7
318	283.0	275.6	383.0	272.7	306.6	271.1	322.1	304.6	295.1	295.3	343.8	239.0
319	354.7	284.9	342.4	282.4	327.4	266.4	278.0	287.2	288.1	291.2	316.8	265.7
320	214.9	241.4	231.5	231.7	197.3	133.3	118.1	185.1	168.7	150.9	179.4	117.0
321	197.0	215.1	268.4	249.8	263.3	238.0	275.2	239.7	282.7	273.8	226.6	246.9
322	209.6	248.0	260.3	244.5	249.8	266.2	283.9	240.9	257.4	224.6	225.7	213.6
323	194.8	251.3	381.8	289.7	276.0	262.3	255.5	291.5	131.7	237.8	308.4	179.5
324	242.1	245.8	266.7	283.5	342.0	261.7	289.9	259.0	289.6	248.7	281.1	290.0
325	195.3	273.4	365.7	279.5	205.3	274.6	258.2	291.5	304.8	272.7	236.7	220.5
MEAN	230.9	271.2	306.7	265.0	270.6	246.4	270.7	271.7	257.5	232.7	253.2	225.3
S.D.	45.93	60.54	50.29	19.16	41.46	38.66	48.72	35.02	53.39	58.45	58.13	55.05
N	13	13	13	13	13	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-M SEX: MALE PAGE: 2
DOSE: 0 (ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
313	239.1	227.4	262.6	211.3	143.6	136.6	185.2	198.2	237.1	262.4	230.3	230.8
314	139.7	239.9	262.0	212.6	159.5	200.3	160.7	195.2	204.7	224.3	235.0	184.3
315	137.0	228.0	273.2	59.5	265.6	204.4	187.4	182.6	218.5	242.6	248.4	219.1
316	295.3	327.3	148.1	226.7	76.0	187.9	141.2	160.9	210.2	239.4	262.0	209.0
317	224.1	313.3	275.1	183.3	135.1	259.6	271.4	211.4	210.6	245.6	287.3	204.0
318	146.4	318.8	300.7	251.9	228.4	259.0	211.6	249.8	295.5	222.2	246.5	190.2
319	314.6	311.5	286.5	260.2	194.0	277.9	289.1	158.3	261.8	227.6	236.6	211.3
320	291.7	268.7	174.6	155.6	105.3	181.7	162.0	--	188.9	169.3	218.5	205.5
321	244.1	216.7	225.2	136.0	181.1	204.7	216.2	194.7	286.9	218.8	213.5	212.8
322	214.1	210.9	222.4	186.8	204.1	154.1	118.3	152.8	199.2	257.8	237.9	212.9
323	150.4	227.5	282.2	251.2	251.6	260.4	197.2	203.1	242.9	265.5	241.9	200.0
324	319.2	273.8	285.1	265.2	245.6	255.8	119.8	124.2	272.4	243.9	250.6	209.8
325	321.3	239.3	256.3	174.3	225.6	230.6	258.8	200.4	199.8	210.2	201.6	220.1
MEAN	233.6	261.8	250.3	198.0	185.8	216.4	193.8	186.0	233.0	233.0	239.2	208.4
S.D.	71.91	42.78	45.76	58.50	58.93	44.68	55.02	32.83	35.97	25.73	21.83	12.29
N	13	13	13	13	13	13	13	12	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 2-M SEX: MALE PAGE: 3
DOSE: 0 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96
313	219.1	254.5	221.9	227.1	256.1	243.3	266.8
314	211.6	216.1	218.1	208.3	233.4	250.3	203.0
315	225.4	228.8	216.8	253.9	238.1	220.8	222.1
316	221.9	228.8	218.9	210.1	272.9	247.2	216.8
317	219.3	228.3	236.8	246.1	218.5	174.1	272.7
318	105.3	204.7	166.2	233.5	213.3	288.5	238.1
319	253.9	240.7	207.5	241.0	235.0	222.6	225.2
320	225.3	252.5	226.7	194.7	211.6	230.7	220.1
321	217.3	179.6	128.9	229.2	180.5	237.5	140.5
322	196.5	216.2	142.6	214.6	203.3	273.6	230.1
323	198.9	221.3	219.2	218.8	234.3	227.6	243.7
324	235.5	224.5	146.8	219.5	245.6	268.9	220.9
325	173.3	227.7	227.9	186.9	216.0	219.3	219.2
MEAN	207.9	224.9	198.3	221.8	227.6	238.8	224.6
S.D.	36.49	19.50	37.64	19.47	24.01	29.09	32.07
N	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-M SEX: MALE PAGE: 1
DOSE: 150(ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
326	198.6	209.8	198.0	189.9	183.4	216.0	201.8	307.1	295.4	311.9	223.9	171.0
327	288.1	247.3	343.9	245.3	297.4	270.5	281.5	--	279.1	270.7	317.6	239.4
328	145.4	266.5	345.4	239.5	275.0	212.7	203.8	306.9	300.5	256.8	232.8	154.0
329	183.8	221.0	288.6	260.9	197.0	291.9	257.3	287.6	281.2	271.7	257.9	235.2
330	207.4	165.4	230.8	258.5	226.7	241.1	271.8	233.6	238.7	217.7	218.2	231.4
331	228.3	227.8	279.2	265.3	229.6	267.6	281.4	235.2	248.0	215.3	258.8	253.8
332	228.3	261.7	340.6	271.9	281.0	253.8	254.8	224.7	288.6	159.9	219.7	239.9
333	236.7	192.9	290.9	263.0	280.0	270.2	276.7	308.1	253.4	312.7	323.7	252.4
334	217.3	236.2	286.3	269.0	259.1	261.0	259.7	241.7	238.6	243.7	275.8	198.5
335	223.1	234.1	265.4	243.5	199.1	235.5	253.7	164.9	226.7	226.2	227.3	190.9
336	253.9	258.0	285.6	203.7	210.4	263.4	215.7	234.0	212.2	319.9	221.6	199.5
337	175.4	175.6	189.0	193.4	228.8	174.6	249.6	143.0	149.1	173.4	146.8	146.7
338	216.9	214.8	229.6	272.4	247.2	222.5	286.1	264.5	265.9	151.1	123.4	159.0
MEAN	215.6	223.9	274.9	244.3	239.6	244.7	253.4	245.9	252.1	240.8	234.4	205.5
S.D.	35.90	31.93	51.75	29.79	36.77	31.78	29.07	53.47	41.37	57.10	56.69	38.92
N	13	13	13	13	13	13	13	12	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-M SEX: MALE PAGE: 2
DOSE: 150(ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
326	139.2	156.4	240.5	198.4	193.3	196.0	203.6	146.3	200.2	220.3	191.6	193.5
327	223.4	220.4	288.2	180.6	263.6	202.9	179.5	130.0	251.2	226.9	255.7	257.3
328	189.6	182.2	273.1	246.0	206.6	155.7	197.3	255.3	209.7	276.5	240.9	208.1
329	239.2	225.7	237.1	167.7	6.5	35.3	176.3	224.8	232.6	246.2	155.1	219.1
330	181.9	203.7	155.6	158.8	157.4	181.3	106.5	149.0	252.0	207.4	160.4	199.1
331	221.1	202.8	230.4	210.0	203.6	175.1	159.0	134.3	242.6	254.4	245.4	141.9
332	202.1	215.1	280.7	226.1	176.2	213.6	220.7	246.5	252.2	254.9	260.7	254.4
333	183.5	280.5	232.6	219.0	191.2	312.3	179.5	229.0	262.7	256.1	316.7	211.4
334	260.7	246.6	184.0	255.0	121.7	134.6	121.8	150.4	245.4	237.3	258.4	269.7
335	174.1	292.3	213.0	180.8	137.8	154.2	97.7	138.1	219.2	234.9	181.1	238.6
336	288.6	264.1	267.9	175.5	140.1	123.9	222.7	138.3	255.3	225.1	183.9	231.3
337	174.9	214.5	244.0	223.7	200.3	199.5	163.7	164.8	233.8	216.1	187.0	216.2
338	153.4	187.5	85.8	117.7	118.3	89.4	136.8	175.0	225.4	225.7	205.3	231.6
MEAN	202.4	222.4	225.6	196.9	162.8	167.2	166.5	175.5	237.1	237.1	218.6	220.9
S.D.	42.69	39.41	56.35	38.27	62.14	66.65	40.96	46.14	19.01	19.58	47.88	33.05
N	13	13	13	13	13	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 3-M SEX: MALE PAGE: 3
DOSE: 150 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96
326	200.1	88.9	256.1	106.2	195.2	181.3	176.6
327	272.3	196.6	229.8	227.9	232.1	233.1	248.2
328	236.3	196.2	231.5	240.9	246.3	215.4	232.1
329	267.5	181.4	214.2	253.8	227.1	231.8	107.9
330	214.4	197.4	222.9	198.6	222.4	223.6	144.4
331	207.5	239.0	134.3	171.3	186.3	155.2	135.9
332	210.9	256.3	141.1	226.8	216.4	158.5	142.4
333	242.3	209.2	236.5	221.1	254.5	246.4	253.7
334	251.3	249.9	261.2	231.6	240.5	218.1	212.0
335	189.4	206.3	221.2	199.6	200.2	213.7	209.1
336	212.9	212.1	172.9	232.3	236.3	217.3	132.8
337	230.0	196.5	248.1	195.9	236.3	213.7	197.5
338	238.1	229.9	228.9	195.0	224.1	199.8	169.9
MEAN	228.7	204.6	215.3	207.8	224.4	208.3	181.7
S.D.	25.55	41.64	40.74	38.11	20.32	27.75	47.52
N	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-M SEX: MALE PAGE: 1
DOSE: 450 (ppm)

ANIMAL #	7-20-95	7-27-95	8-3-95	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
339	249.5	276.5	351.7	261.3	268.6	256.9	250.5	287.1	255.6	249.3	279.0	226.1
340	252.4	276.6	329.3	266.5	265.4	268.9	254.6	285.1	219.1	275.9	174.7	302.1
341	226.9	241.9	329.5	227.2	254.6	241.7	256.0	248.6	209.8	267.9	204.2	180.2
342	290.6	279.4	375.5	264.7	309.4	252.6	265.5	293.8	291.6	221.6	290.0	226.2
343	230.1	292.1	325.2	273.2	293.2	273.8	235.1	218.2	227.2	145.3	302.3	313.1
344	224.6	215.7	190.9	173.1	187.6	203.7	253.8	145.9	198.5	184.2	190.6	170.4
345	301.8	292.6	337.6	272.7	306.1	251.7	269.9	263.8	286.8	110.3	238.9	214.1
346	242.1	221.6	259.4	243.2	257.7	221.6	232.0	240.8	250.9	265.0	235.8	218.7
347	241.2	278.7	353.5	279.9	229.7	283.0	274.9	281.3	303.8	251.0	270.8	199.6
348	196.3	213.1	215.1	261.4	231.7	224.1	247.9	237.8	179.7	220.5	211.0	197.1
349	214.4	247.5	259.5	259.2	240.6	262.4	249.1	274.1	260.4	255.2	218.3	250.1
350	220.6	257.7	278.2	267.5	168.9	262.1	265.5	191.9	264.8	215.3	211.8	234.0
351	282.4	240.4	331.6	276.9	149.2	278.3	267.4	243.5	176.4	272.2	215.8	250.5
MEAN	244.1	256.4	302.8	255.9	243.3	252.4	255.6	247.1	240.4	225.7	234.1	229.4
S.D.	31.17	28.45	56.85	28.63	50.07	23.78	12.98	42.49	42.06	51.42	39.89	42.22
N	13	13	13	13	13	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-M SEX: MALE PAGE: 2
DOSE: 450(ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-9-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
339	270.2	264.6	237.1	222.5	207.2	181.5	223.6	189.6	234.8	233.5	249.8	247.7
340	255.2	206.0	254.9	257.7	222.0	171.1	163.5	153.3	259.7	224.2	252.6	219.3
341	215.9	176.2	174.3	174.2	238.2	175.0	188.0	200.8	202.8	222.8	195.4	221.8
342	220.3	195.6	283.0	183.2	256.0	257.4	232.6	257.8	248.9	269.5	252.8	200.9
343	282.8	219.6	262.9	124.6	164.1	148.5	104.6	172.2	106.9	209.6	258.3	240.2
344	163.0	158.8	169.8	150.0	167.1	142.9	159.5	149.9	242.5	140.1	142.7	157.7
345	242.3	225.0	275.5	259.0	254.0	256.5	133.0	269.4	7.4	0.0	--	--
346	223.5	159.6	106.7	140.1	184.2	81.9	118.4	175.3	237.2	227.3	169.0	202.5
347	116.1	252.8	261.5	118.5	169.3	141.7	112.1	121.8	240.4	208.1	229.1	207.3
348	263.8	234.8	182.4	174.8	164.4	112.4	119.8	147.0	195.8	147.6	144.3	194.0
349	257.8	208.7	173.8	205.9	152.2	137.5	127.6	219.1	249.9	269.2	261.5	223.2
350	178.6	168.4	248.5	121.7	110.7	127.3	81.5	158.7	177.2	154.9	194.2	178.9
351	84.8	266.6	293.3	263.9	204.3	201.3	172.2	167.8	242.0	251.8	239.0	218.1
MEAN	213.4	210.5	224.9	184.3	191.8	164.2	149.0	183.3	203.5	196.8	215.7	209.3
S.D.	61.27	37.86	57.00	53.51	43.10	51.46	45.94	43.53	72.11	72.84	44.74	25.04
N	13	13	13	13	13	13	13	13	13	13	12	12

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 4-M SEX: MALE
DOSE: 450 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96
339	245.9	209.0	226.7	226.4	202.3	262.0	175.8
340	221.0	228.3	255.2	228.3	257.2	223.4	203.1
341	214.9	219.2	202.0	213.1	216.7	195.0	175.5
342	186.2	207.9	231.8	203.4	187.4	211.8	223.0
343	221.9	228.5	224.0	249.6	232.4	382.6	249.7
344	181.6	202.2	182.1	219.7	252.3	256.0	183.2
345	--	--	--	--	--	--	--
346	213.0	242.4	213.7	229.7	230.2	208.6	202.3
347	252.3	206.7	215.1	193.8	198.6	225.8	238.7
348	165.3	195.0	221.2	189.4	226.2	227.7	192.3
349	214.0	295.4	249.0	214.7	240.5	247.3	221.8
350	178.5	220.4	229.4	220.4	186.2	100.0	96.8
351	270.1	279.8	244.8	202.1	224.6	221.5	225.8
MEAN	213.7	227.9	224.6	215.9	221.2	230.1	199.0
S.D.	31.91	30.96	20.35	16.98	23.62	63.49	40.25
N	12	12	12	12	12	12	12

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-M SEX: MALE PAGE: 1
DOSE: 2500(ppm)

ANIMAL #	7-20-95	7-27-95	8-3-9 5	8-10-95	8-17-95	8-24-95	8-31-95	9-7-95	9-21-95	9-28-95	10-5-95	10-12-95
352	212.6	226.2	260.2	242.4	253.3	263.3	275.5	243.4	244.5	226.4	180.0	124.1
353	200.1	217.2	226.8	214.4	234.9	205.9	170.5	180.5	214.2	174.8	210.6	173.2
354	185.4	209.5	224.7	201.7	222.3	222.4	235.8	156.9	198.2	171.3	226.5	205.6
355	220.5	226.4	259.9	244.1	238.0	223.6	236.6	225.1	235.5	219.9	231.0	133.2
356	245.0	287.5	381.2	265.7	226.9	278.2	297.8	258.1	260.9	186.0	196.4	220.2
357	191.3	174.0	228.9	203.2	246.3	192.1	211.2	--	245.8	204.0	286.7	264.3
358	191.7	222.3	197.9	276.9	289.8	206.3	268.4	255.3	261.2	282.6	270.0	255.8
359	172.6	234.1	248.2	291.2	221.4	263.0	253.7	291.1	283.2	156.8	224.2	221.4
360	230.1	213.1	224.1	247.4	261.2	280.4	266.7	172.1	251.1	265.7	222.1	215.9
361	311.2	270.4	317.8	297.0	258.0	275.5	289.7	278.5	288.8	292.6	279.2	239.5
362	115.7	239.9	254.4	284.0	240.4	269.7	294.9	204.9	273.0	210.3	266.0	294.1
363	238.9	218.9	264.7	199.8	265.3	255.0	284.8	251.4	254.1	157.1	256.2	261.0
364	233.4	266.4	297.0	293.7	309.0	285.7	294.9	301.8	219.0	303.6	301.3	291.2
MEAN	211.4	231.2	260.4	250.9	251.3	247.8	260.0	234.9	248.4	219.3	242.3	223.0
S.D.	45.66	29.68	48.35	36.90	25.94	32.92	37.95	47.50	26.69	51.78	37.02	53.92
N	13	13	13	13	13	13	13	12	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-M SEX: MALE PAGE: 2
DOSE: 2500(ppm)

ANIMAL #	10-19-95	10-26-95	11-2-95	11-09-95	11-16-95	11-22-95	11-30-95	12-7-95	12-21-95	12-28-95	1-4-96	1-11-96
352	214.0	249.8	218.4	47.7	110.6	141.4	113.4	117.3	203.5	201.3	149.6	173.4
353	267.3	214.8	219.3	139.6	141.9	140.7	190.7	142.0	174.4	133.3	163.3	198.1
354	195.7	168.9	216.6	200.6	124.7	157.4	161.3	152.6	208.1	240.5	191.7	242.9
355	238.7	--	217.6	199.0	182.1	145.8	152.4	181.9	206.2	162.9	191.5	147.3
356	209.7	213.8	207.5	134.5	163.4	151.0	192.7	164.2	242.4	237.5	222.3	194.0
357	168.9	191.4	291.7	206.1	157.9	205.3	187.8	89.2	247.4	256.8	230.0	206.7
358	198.2	210.0	290.4	249.0	204.2	195.6	190.9	220.6	239.9	247.1	219.1	183.8
359	224.5	221.7	263.9	211.1	193.0	252.6	221.3	203.8	218.0	224.6	208.1	191.7
360	196.1	204.4	220.0	213.8	122.6	204.6	209.3	184.1	252.9	239.8	213.7	200.3
361	241.6	180.2	170.4	179.0	191.8	171.5	185.2	159.4	238.6	258.3	244.8	178.5
362	148.5	257.4	292.3	202.5	179.6	161.5	133.4	152.0	217.7	249.9	232.5	189.1
363	288.1	195.9	273.9	138.2	117.8	195.8	252.9	243.0	231.1	198.5	215.1	256.8
364	308.4	295.8	237.9	169.0	132.9	252.5	217.2	262.4	213.6	186.0	227.2	206.0
MEAN	223.1	217.0	240.0	176.2	155.6	182.7	185.3	174.8	222.6	218.2	208.4	197.6
S.D.	45.56	35.59	38.64	51.42	32.42	38.88	37.75	48.71	22.07	39.04	27.63	28.15
N	13	12	13	13	13	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

INDIVIDUAL DAILY FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 GROUP: 5-M SEX: MALE PAGE: 3
DOSE: 2500 (ppm)

ANIMAL #	1-18-96	1-25-96	2-1-96	2-8-96	2-22-96	2-29-96	3-5/7-96
352	202.7	199.8	219.9	224.7	209.9	211.9	243.3
353	137.2	177.4	176.2	190.2	258.3	206.7	108.5
354	234.0	218.6	213.5	198.8	241.6	229.7	226.5
355	185.6	212.9	136.7	157.4	237.8	183.2	222.4
356	233.9	234.2	210.8	261.5	274.7	256.6	233.2
357	215.4	231.0	180.7	204.5	231.2	219.8	222.9
358	219.7	200.7	237.9	214.0	224.8	212.6	231.7
359	206.5	163.7	219.9	208.9	164.4	231.3	251.2
360	217.9	217.1	172.3	262.5	282.7	197.4	135.9
361	160.7	224.9	201.2	209.2	140.9	196.1	242.3
362	228.0	187.2	195.4	220.7	218.5	239.9	77.3
363	207.9	223.6	241.5	227.1	231.5	222.0	153.3
364	59.5	220.7	224.7	164.4	176.0	219.5	231.0
MEAN	193.0	208.6	202.4	211.1	222.5	217.4	198.4
S.D.	49.11	21.55	29.61	30.86	41.60	19.60	58.29
N	13	13	13	13	13	13	13

--: Data Unavailable

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

PERIOD	DOSE:(ppm) GROUP:	0 1-M	0 2-M	150 3-M	450 4-M	2500 5-M
7-20-95	INTAKE (g)	216.7	230.9	215.6	244.1	211.4
	S.D.	32.13	45.93	35.90	31.17	45.66
	N	13	13	13	13	13
7-27-95	INTAKE (g)	248.1	271.2	223.9	256.4	231.2
	S.D.	26.13	60.54	31.93	28.45	29.68
	N	13	13	13	13	13
8-3-95	INTAKE (g)	283.2	306.7	274.9	302.8	260.4
	S.D.	53.77	50.29	51.75	56.85	48.35
	N	13	13	13	13	13
8-10-95	INTAKE (g)	250.8	265.0	244.3	255.9	250.9
	S.D.	21.28	19.16	29.79	28.63	36.90
	N	13	13	13	13	13
8-17-95	INTAKE (g)	256.0	270.6	239.6	243.3	251.3
	S.D.	39.60	41.46	36.77	50.07	25.94
	N	13	13	13	13	13
8-24-95	INTAKE (g)	248.0	246.4	244.7	252.4	247.8
	S.D.	32.19	38.66	31.78	23.78	32.92
	N	13	13	13	13	13
8-31-95	INTAKE (g)	269.6	270.7	253.4	255.6	260.0
	S.D.	30.05	48.72	29.07	12.98	37.95
	N	13	13	13	13	13
9-7-95	INTAKE (g)	234.7	271.7	245.9	247.1	234.9
	S.D.	77.43	35.02	53.47	42.49	47.50
	N	11	13	12	13	12

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

PERIOD	DOSE:(ppm) GROUP:	0 1-M	0 2-M	150 3-M	450 4-M	2500 5-M
9-21-95	INTAKE (g)	261.9	257.5	252.1	240.4	248.4
	S.D.	37.31	53.39	41.37	42.06	26.69
	N	13	13	13	13	13
9-28-95	INTAKE (g)	235.0	232.7	240.8	225.7	219.3
	S.D.	30.97	58.45	57.10	51.42	51.78
	N	13	13	13	13	13
10-5-95	INTAKE (g)	255.0	253.2	234.4	234.1	242.3
	S.D.	35.30	58.13	56.69	39.89	37.02
	N	13	13	13	13	13
10-12-95	INTAKE (g)	220.0	225.3	205.5	229.4	223.0
	S.D.	45.97	55.05	38.92	42.22	53.92
	N	13	13	13	13	13
10-19-95	INTAKE (g)	229.2	233.6	202.4	213.4	223.1
	S.D.	61.14	71.91	42.69	61.27	45.56
	N	13	13	13	13	13
10-26-95	INTAKE (g)	225.5	261.8	222.4	210.5	217.0
	S.D.	44.46	42.78	39.41	37.86	35.59
	N	13	13	13	13	12
11-2-95	INTAKE (g)	214.2	250.3	225.6	224.9	240.0
	S.D.	43.87	45.76	56.35	57.00	38.64
	N	13	13	13	13	13
11-9-95	INTAKE (g)	187.4	198.0	196.9	184.3	176.2
	S.D.	40.02	58.50	38.27	53.51	51.42
	N	13	13	13	13	13

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

PERIOD	DOSE:(ppm) GROUP:	0 1-M	0 2-M	150 3-M	450 4-M	2500 5-M
11-16-95	INTAKE (g)	173.6	185.8	162.8	191.8	155.6
	S.D.	36.83	58.93	62.14	43.10	32.42
	N	13	13	13	13	13
11-22-95	INTAKE (g)	177.8	216.4	167.2	164.2	182.7
	S.D.	55.98	44.68	66.65	51.46	38.88
	N	13	13	13	13	13
11-30-95	INTAKE (g)	171.2	193.8	166.5	149.0	185.3
	S.D.	42.58	55.02	40.96	45.94	37.75
	N	13	13	13	13	13
12-7-95	INTAKE (g)	188.0	186.0	175.5	183.3	174.8
	S.D.	31.05	32.83	46.14	43.53	48.71
	N	13	12	13	13	13
12-21-95	INTAKE (g)	236.5	233.0	237.1	203.5	222.6
	S.D.	26.26	35.97	19.01	72.11	22.07
	N	13	13	13	13	13
12-28-95	INTAKE (g)	243.3	233.0	237.1	196.8*	218.2
	S.D.	22.92	25.73	19.58	72.84	39.04
	N	13	13	13	13	13
1-4-96	INTAKE (g)	233.4	239.2	218.6	215.7	208.4
	S.D.	22.26	21.83	47.88	44.74	27.63
	N	13	13	13	12	13
1-11-96	INTAKE (g)	208.4	208.4	220.9	209.3	197.6
	S.D.	21.99	12.29	33.05	25.04	28.15
	N	13	13	13	12	13

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

PERIOD	DOSE:(ppm) GROUP:	0 1-M	0 2-M	150 3-M	450 4-M	2500 5-M
1-18-96	INTAKE (g)	215.2	207.9	228.7	213.7	193.0
	S.D.	21.15	36.49	25.55	31.91	49.11
	N	13	13	13	12	13
1-25-96	INTAKE (g)	212.6	224.9	204.6	227.9	208.6
	S.D.	23.49	19.50	41.64	30.96	21.55
	N	13	13	13	12	13
2-1-96	INTAKE (g)	209.0	198.3	215.3	224.6	202.4
	S.D.	10.22	37.64	40.74	20.35	29.61
	N	13	13	13	12	13
2-8-96	INTAKE (g)	220.9	221.8	207.8	215.9	211.1
	S.D.	21.65	19.47	38.11	16.98	30.86
	N	13	13	13	12	13
2-22-96	INTAKE (g)	230.2	227.6	224.4	221.2	222.5
	S.D.	25.89	24.01	20.32	23.62	41.60
	N	13	13	13	12	13
2-29-96	INTAKE (g)	228.9	238.8	208.3	230.1	217.4
	S.D.	24.43	29.09	27.75	63.49	19.60
	N	13	13	13	12	13
3-5/7-96	INTAKE (g)	209.5	224.6	181.7	199.0	198.4
	S.D.	40.14	32.07	47.52	40.25	58.29
	N	13	13	13	12	13

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

7-20-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2816.8	216.7	32.13						TREATMENTS	4	9507.3	2376.8
2-M	13	3001.2	230.9	45.93	0.93					ERROR	60	89846.3	1497.4
3-M	13	2803.2	215.6	35.90	0.07								
4-M	13	3172.9	244.1	31.17	1.80					TOTAL	64	99353.6	
5-M	13	2748.5	211.4	45.66	0.35								

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 17.296
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.59

7-27-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3225.7	248.1	26.13						TREATMENTS	4	18931.3	4732.8
2-M	13	3526.2	271.2	60.54	1.57	211.1	285.1	202.2	294.1	ERROR	60	84696.5	1411.6
3-M	13	2911.1	223.9	31.93	1.64	211.1	285.1	202.2	294.1				
4-M	13	3333.8	256.4	28.45	0.56	211.1	285.1	202.2	294.1	TOTAL	64	103627.8	
5-M	13	3005.9	231.2	29.68	1.15	211.1	285.1	202.2	294.1				

'F' table values F.01 = 3.65 F.05 = 2.52* Coeff. Var. % = 15.261
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 3.35

8-3-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3681.8	283.2	53.77						TREATMENTS	4	19467.2	4866.8
2-M	13	3987.5	306.7	50.29	1.15					ERROR	60	164005.0	2733.4
3-M	13	3573.3	274.9	51.75	0.41								
4-M	13	3937.0	302.8	56.85	0.96					TOTAL	64	183472.2	
5-M	13	3385.8	260.4	48.35	1.11								

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 18.305
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.78

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

8-10-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3260.1	250.8	21.28				TREATMENTS	4	3081.7	770.4
2-M	13	3445.4	265.0	19.16	1.30			ERROR	60	46670.3	777.8
3-M	13	3176.3	244.3	29.79	0.59						
4-M	13	3326.8	255.9	28.63	0.47			TOTAL	64	49752.0	
5-M	13	3261.5	250.9	36.90	0.01						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 11.007
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.99

8-17-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3327.8	256.0	39.60				TREATMENTS	4	7719.8	1929.9
2-M	13	3518.4	270.6	41.46	0.95			ERROR	60	93827.3	1563.8
3-M	13	3114.7	239.6	36.77	1.06						
4-M	13	3162.7	243.3	50.07	0.82			TOTAL	64	101547.1	
5-M	13	3266.8	251.3	25.94	0.30						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 15.682
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.23

8-24-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3224.5	248.0	32.19				TREATMENTS	4	424.6	106.1
2-M	13	3203.1	246.4	38.66	0.13			ERROR	60	62276.0	1037.9
3-M	13	3180.8	244.7	31.78	0.27						
4-M	13	3280.8	252.4	23.78	0.34			TOTAL	64	62700.6	
5-M	13	3221.1	247.8	32.92	0.02						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 12.999
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.10

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

8-31-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3504.5	269.6	30.05				TREATMENTS	4	3294.8	823.7
2-M	13	3519.6	270.7	48.72	0.09			ERROR	60	68765.5	1146.1
3-M	13	3293.9	253.4	29.07	1.22						
4-M	13	3322.2	255.6	12.98	1.06			TOTAL	64	72060.3	
5-M	13	3380.5	260.0	37.95	0.72						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 12.928
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 0.72

9-7-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	11	2581.6	234.7	77.43				TREATMENTS	4	11371.2	2842.8
2-M	13	3532.6	271.7	35.02	1.73			ERROR	56	152594.0	2724.9
3-M	12	2951.3	245.9	53.47	0.52						
4-M	13	3211.9	247.1	42.49	0.58			TOTAL	60	163965.2	
5-M	12	2819.1	234.9	47.50	0.01						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 21.093
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.04

9-21-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3404.5	261.9	37.31				TREATMENTS	4	3589.7	897.4
2-M	13	3347.2	257.5	53.39	0.27			ERROR	60	101238.8	1687.3
3-M	13	3277.4	252.1	41.37	0.61						
4-M	13	3124.6	240.4	42.06	1.34			TOTAL	64	104828.5	
5-M	13	3229.5	248.4	26.69	0.84						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 16.297
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 0.53

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

9-28-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3054.9	235.0	30.97				TREATMENTS	4	3643.8	911.0
2-M	13	3025.1	232.7	58.45	0.11			ERROR	60	155543.5	2592.4
3-M	13	3131.0	240.8	57.10	0.29						
4-M	13	2933.7	225.7	51.42	0.47			TOTAL	64	159187.3	
5-M	13	2851.1	219.3	51.78	0.79						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 22.070
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.35

10-5-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3315.6	255.0	35.30				TREATMENTS	4	5179.8	1294.9
2-M	13	3291.1	253.2	58.13	0.10			ERROR	60	129592.0	2159.9
3-M	13	3047.5	234.4	56.69	1.13						
4-M	13	3043.2	234.1	39.89	1.15			TOTAL	64	134771.8	
5-M	13	3150.2	242.3	37.02	0.70						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 19.062
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.60

10-12-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2860.1	220.0	45.97				TREATMENTS	4	4330.7	1082.7
2-M	13	2928.6	225.3	55.05	0.28			ERROR	60	136184.5	2269.7
3-M	13	2671.7	205.5	38.92	0.78						
4-M	13	2982.2	229.4	42.22	0.50			TOTAL	64	140515.2	
5-M	13	2899.5	223.0	53.92	0.16						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 21.592
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.48

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

10-19-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI		LO -99%- HI		Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2980.2	229.2	61.14						TREATMENTS	4	8208.5	2052.1
2-M	13	3037.0	233.6	71.91	0.19					ERROR	60	198726.3	3312.1
3-M	13	2631.7	202.4	42.69	1.19								
4-M	13	2774.3	213.4	61.27	0.70					TOTAL	64	206934.8	
5-M	13	2899.7	223.1	45.56	0.27								

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 26.118
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.62

10-26-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2931.5	225.5	44.46						TREATMENTS	4	20728.1	5182.0
2-M	13	3403.1	261.8	42.78	2.30	185.9	265.1	176.3	274.7	ERROR	59	95462.3	1618.0
3-M	13	2891.8	222.4	39.41	0.19	185.9	265.1	176.3	274.7				
4-M	13	2736.7	210.5	37.86	0.95	185.9	265.1	176.3	274.7	TOTAL	63	116190.4	
5-M	12	2604.1	217.0	35.59	0.53	185.1	265.9	175.3	275.7				

'F' table values F.01 = 3.65 F.05 = 2.52* Coeff. Var. % = 17.672
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 3.20

11-2-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2784.1	214.2	43.87		TREATMENTS	4	10445.0	2611.3
2-M	13	3254.0	250.3	45.76	1.89	ERROR	60	143225.8	2387.1
3-M	13	2932.9	225.6	56.35	0.60				
4-M	13	2923.7	224.9	57.00	0.56	TOTAL	64	153670.8	
5-M	13	3119.9	240.0	38.64	1.35				

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 21.151
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.09

* P less than .05 Analysis of Variance using DUNNETT'S Procedure
** P less than .01

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

11-9-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2435.8	187.4	40.02				TREATMENTS	4	4318.7	1079.7
2-M	13	2574.6	198.0	58.50	0.56			ERROR	60	143955.5	2399.3
3-M	13	2559.3	196.9	38.27	0.49						
4-M	13	2396.1	184.3	53.51	0.16			TOTAL	64	148274.2	
5-M	13	2290.1	176.2	51.42	0.58						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 25.978
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 0.45

11-16-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2257.3	173.6	36.83				TREATMENTS	4	11981.9	2995.5
2-M	13	2415.5	185.8	58.93	0.64			ERROR	60	139191.3	2319.9
3-M	13	2116.6	162.8	62.14	0.57						
4-M	13	2493.7	191.8	43.10	0.96			TOTAL	64	151173.2	
5-M	13	2022.5	155.6	32.42	0.96						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 27.692
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.29

11-22-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2311.8	177.8	55.98				TREATMENTS	4	22543.0	5635.8
2-M	13	2813.0	216.4	44.68	1.88			ERROR	60	164795.5	2746.6
3-M	13	2173.8	167.2	66.65	0.52						
4-M	13	2135.0	164.2	51.46	0.66			TOTAL	64	187338.5	
5-M	13	2375.7	182.7	38.88	0.24						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 28.846
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 2.05

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

11-30-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2226.1	171.2	42.58				TREATMENTS	4	15657.7	3914.4
2-M	13	2518.9	193.8	55.02	1.28			ERROR	60	120639.4	2010.7
3-M	13	2165.1	166.5	40.96	0.27						
4-M	13	1936.4	149.0	45.94	1.27			TOTAL	64	136297.1	
5-M	13	2408.5	185.3	37.75	0.80						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 25.896
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.95

12-7-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2444.4	188.0	31.05				TREATMENTS	4	1881.9	470.5
2-M	12	2231.6	186.0	32.83	0.13			ERROR	59	100189.3	1698.1
3-M	13	2281.8	175.5	46.14	0.77						
4-M	13	2382.7	183.3	43.53	0.29			TOTAL	63	102071.2	
5-M	13	2272.5	174.8	48.71	0.82						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 22.710
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 0.28

12-21-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3074.2	236.5	26.26				TREATMENTS	4	10372.4	2593.1
2-M	13	3028.5	233.0	35.97	0.22			ERROR	60	96377.8	1606.3
3-M	13	3082.3	237.1	19.01	0.04						
4-M	13	2645.5	203.5	72.11	2.10			TOTAL	64	106750.2	
5-M	13	2893.8	222.6	22.07	0.88						

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 17.693
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.61

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

12-28-95

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%-	HI	LO -99%-	HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3162.8	243.3	22.92						TREATMENTS	4	17981.9	4495.5
2-M	13	3029.6	233.0	25.73	0.64	202.9	283.6	193.1	293.5	ERROR	60	100811.5	1680.2
3-M	13	3081.8	237.1	19.58	0.39	202.9	283.6	193.1	293.5				
4-M	13	2558.6	196.8*	72.84	2.89	202.9	283.6*	193.1	293.5	TOTAL	64	118793.4	
5-M	13	2836.5	218.2	39.04	1.56	202.9	283.6	193.1	293.5				

'F' table values F.01 = 3.65 F.05 = 2.52* Coeff. Var. % = 18.163
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 2.68

1-4-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	3034.0	233.4	22.26		TREATMENTS	4	8490.7	2122.7
2-M	13	3110.1	239.2	21.83	0.43	ERROR	59	70351.8	1192.4
3-M	13	2842.2	218.6	47.88	1.09				
4-M	12	2588.7	215.7	44.74	1.28	TOTAL	63	78842.5	
5-M	13	2708.9	208.4	27.63	1.85				

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 15.472
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.78

1-11-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2709.7	208.4	21.99		TREATMENTS	4	3556.0	889.0
2-M	13	2709.8	208.4	12.29	0.00	ERROR	59	37134.5	629.4
3-M	13	2872.2	220.9	33.05	1.27				
4-M	12	2511.6	209.3	25.04	0.09	TOTAL	63	40690.5	
5-M	13	2568.6	197.6	28.15	1.10				

'F' table values F.01 = 3.65 F.05 = 2.52 Coeff. Var. % = 12.007
Dunnett's 'T' table values P.01 = 3.12 P.05 = 2.51 F Ratio = 1.41

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

1-18-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2798.2	215.2	21.15				TREATMENTS	4	8695.2	2173.8
2-M	13	2703.3	207.9	36.49	0.54			ERROR	59	69320.3	1174.9
3-M	13	2973.0	228.7	25.55	1.00						
4-M	12	2564.7	213.7	31.91	0.11			TOTAL	63	78015.5	
5-M	13	2509.0	193.0	49.11	1.65						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 16.192
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.85

1-25-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2764.4	212.6	23.49				TREATMENTS	4	5265.5	1316.4
2-M	13	2923.7	224.9	19.50	1.09			ERROR	59	48107.8	815.4
3-M	13	2659.7	204.6	41.64	0.72						
4-M	12	2734.8	227.9	30.96	1.33			TOTAL	63	53373.3	
5-M	13	2711.8	208.6	21.55	0.36						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 13.248
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.61

2-1-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2717.0	209.0	10.22				TREATMENTS	4	5450.2	1362.6
2-M	13	2578.3	198.3	37.64	0.91			ERROR	59	53249.0	902.5
3-M	13	2798.7	215.3	40.74	0.53						
4-M	12	2695.0	224.6	20.35	1.30			TOTAL	63	58699.2	
5-M	13	2630.7	202.4	29.61	0.56						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 14.327
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.51

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

ANALYSIS OF VARIANCE

2-8-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2871.5	220.9	21.65				TREATMENTS	4	1930.7	482.7
2-M	13	2883.7	221.8	19.47	0.09			ERROR	59	42203.3	715.3
3-M	13	2701.0	207.8	38.11	1.25						
4-M	12	2590.6	215.9	16.98	0.47			TOTAL	63	44134.0	
5-M	13	2743.9	211.1	30.86	0.94						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 12.412
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 0.67

2-22-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2992.1	230.2	25.89				TREATMENTS	4	687.7	171.9
2-M	13	2958.6	227.6	24.01	0.23			ERROR	59	46811.8	793.4
3-M	13	2917.7	224.4	20.32	0.52						
4-M	12	2654.6	221.2	23.62	0.79			TOTAL	63	47499.5	
5-M	13	2892.3	222.5	41.60	0.69						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 12.506
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 0.22

2-29-96

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2975.8	228.9	24.43				TREATMENTS	4	7351.2	1837.8
2-M	13	3104.4	238.8	29.09	0.71			ERROR	59	75507.3	1279.8
3-M	13	2707.9	208.3	27.75	1.47						
4-M	12	2761.7	230.1	63.49	0.09			TOTAL	63	82858.5	
5-M	13	2826.7	217.4	19.60	0.82						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % = 15.926
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio = 1.44

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure

PATHOLOGY ASSOCIATES INTERNATIONAL
TWO-GENERATION REPRODUCTIVE STUDY IN
MINK FED DIISOPROPYL METHYLPHOSPHONATE (DIMP)
STUDY NUMBER TP-001

SUMMARY OF DAILY MEAN FOOD CONSUMPTION (Grams)

STUDY: TP001 F1 SEX: MALE

3-5/7-96

ANALYSIS OF VARIANCE

Group	N	Total	Mean	Std. Dev.	DUNNETT'S 't'	DUNNETT'S RANGES LO -95%- HI	LO -99%- HI	Source	Degree Fdm	Sum of Squares	Mean Square
1-M	13	2722.9	209.5	40.14				TREATMENTS	4	12919.7	3229.9
2-M	13	2919.2	224.6	32.07	0.86			ERROR	59	117366.8	1989.3
3-M	13	2362.5	181.7	47.52	1.58						
4-M	12	2388.0	199.0	40.25	0.59			TOTAL	63	130286.5	
5-M	13	2579.5	198.4	58.29	0.63						

'F' table values	F.01 =	3.65	F.05 =	2.52	Coeff. Var. % =	22.005
Dunnett's 'T' table values	P.01 =	3.12	P.05 =	2.51	F Ratio =	1.62

* P less than .05
** P less than .01

Analysis of Variance using DUNNETT'S Procedure