

アセト酢酸メチルのマウスを用いた
経口投与によるがん原性試験（混水試験）報告書

試験番号：0449

APPENDICES

APPENDICES

APPENDIX A 1	IDENTITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY
APPENDIX A 2	STABILITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY
APPENDIX A 3	CONCENTRATION OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY
APPENDIX A 4	STABILITY OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY
APPENDIX B 1	CLINICAL OBSERVATION: MALE
APPENDIX B 2	CLINICAL OBSERVATION: FEMALE
APPENDIX C 1	BODY WEIGHT CHANGES: MALE
APPENDIX C 2	BODY WEIGHT CHANGES: FEMALE
APPENDIX D 1	FOOD CONSUMPTION CHANGES: MALE
APPENDIX D 2	FOOD CONSUMPTION CHANGES: FEMALE
APPENDIX E 1	WATER CONSUMPTION CHANGES: MALE
APPENDIX E 2	WATER CONSUMPTION CHANGES: FEMALE
APPENDIX F 1	CHEMICAL INTAKE CHANGES: MALE
APPENDIX F 2	CHEMICAL INTAKE CHANGES: FEMALE
APPENDIX G 1	HEMATOLOGY: MALE
APPENDIX G 2	HEMATOLOGY: FEMALE
APPENDIX H 1	BIOCHEMISTRY: MALE
APPENDIX H 2	BIOCHEMISTRY: FEMALE

APPENDICES (CONTINUED)

APPENDIX N 1	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: MALE
APPENDIX N 2	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: FEMALE
APPENDIX O 1	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: MALE
APPENDIX O 2	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: FEMALE
APPENDIX P 1	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: MALE
APPENDIX P 2	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: FEMALE
APPENDIX Q 1	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: MALE: ALL ANIMALS
APPENDIX Q 2	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: MALE: DEAD AND MORIBUND ANIMALS
APPENDIX Q 3	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: MALE: SACRIFICED ANIMALS
APPENDIX Q 4	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: FEMALE: ALL ANIMALS
APPENDIX Q 5	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: FEMALE: DEAD AND MORIBUND ANIMALS
APPENDIX Q 6	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: FEMALE: SACRIFICED ANIMALS
APPENDIX R	METHODS, UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF METHYL ACETOACETATE

APPENDICES (CONTINUED)

APPENDIX I 1	URINALYSIS: MALE
APPENDIX I 2	URINALYSIS: FEMALE
APPENDIX J 1	GROSS FINDINGS: MALE: ALL ANIMALS
APPENDIX J 2	GROSS FINDINGS: MALE : DEAD AND MORIBUND ANIMALS
APPENDIX J 3	GROSS FINDINGS: MALE: SACRIFICED ANIMALS
APPENDIX J 4	GROSS FINDINGS: FEMALE: ALL ANIMALS
APPENDIX J 5	GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS
APPENDIX J 6	GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS
APPENDIX K 1	ORGAN WEIGHT, ABSOLUTE: MALE
APPENDIX K 2	ORGAN WEIGHT, ABSOLUTE: FEMALE
APPENDIX L 1	ORGAN WEIGHT, RELATIVE: MALE
APPENDIX L 2	ORGAN WEIGHT, RELATIVE: FEMALE
APPENDIX M 1	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: MALE: ALL ANIMALS
APPENDIX M 2	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: MALE: DEAD AND MORIBUND ANIMALS
APPENDIX M 3	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: MALE: SACRIFICED ANIMALS
APPENDIX M 4	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: FEMALE: ALL ANIMALS
APPENDIX M 5	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: FEMALE: DEAD AND MORIBUND ANIMALS
APPENDIX M 6	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: FEMALE: SACRIFICED ANIMALS

APPENDIX A 1

IDENTITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY

IDENTITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : Methyl Acetoacetate (Tokyo Kasei Kogyo Co., Ltd.)

A. Lot No. : GL01

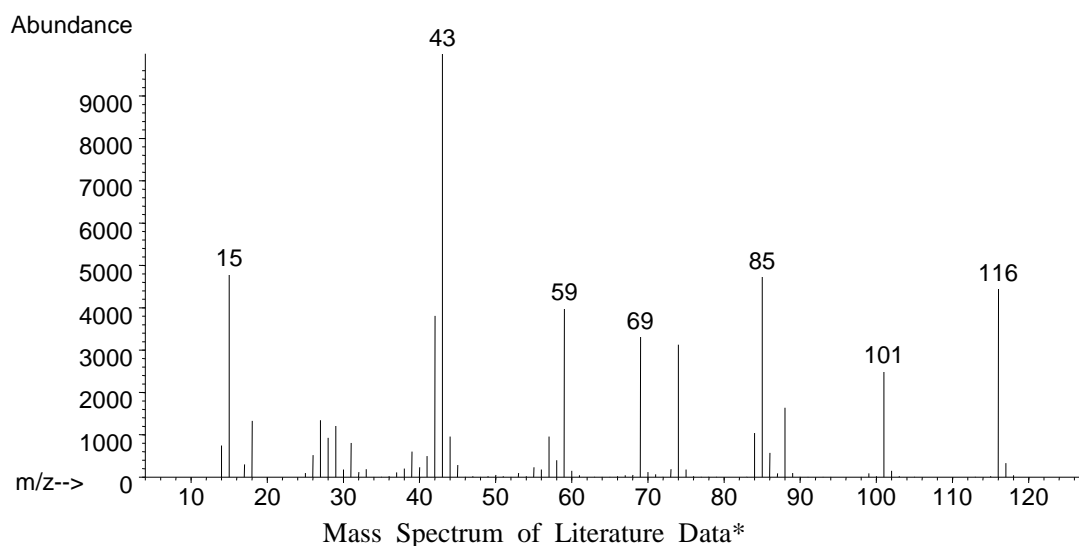
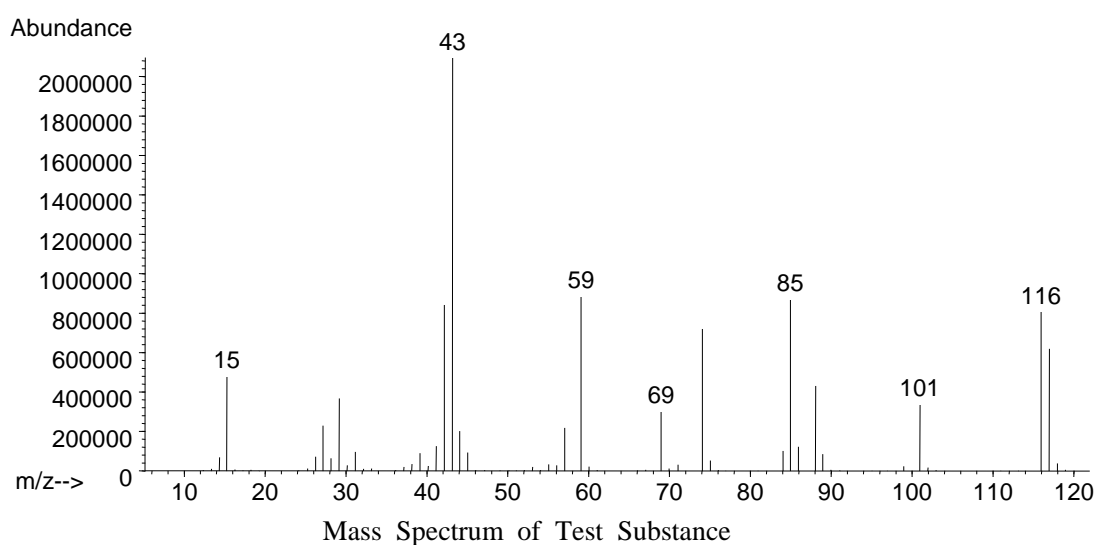
1. Spectral Data

Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

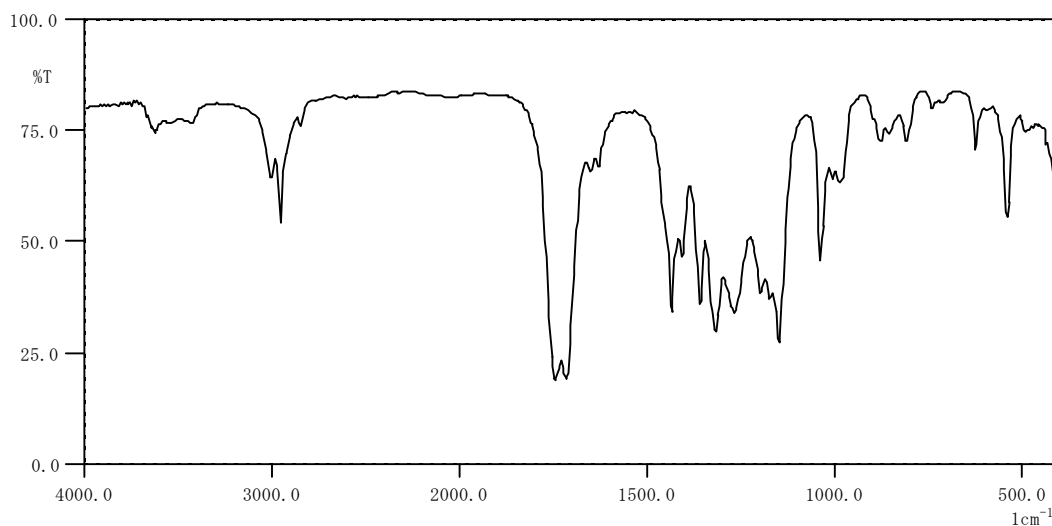
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY : John Wiley and Sons.)

Infrared Spectrometry

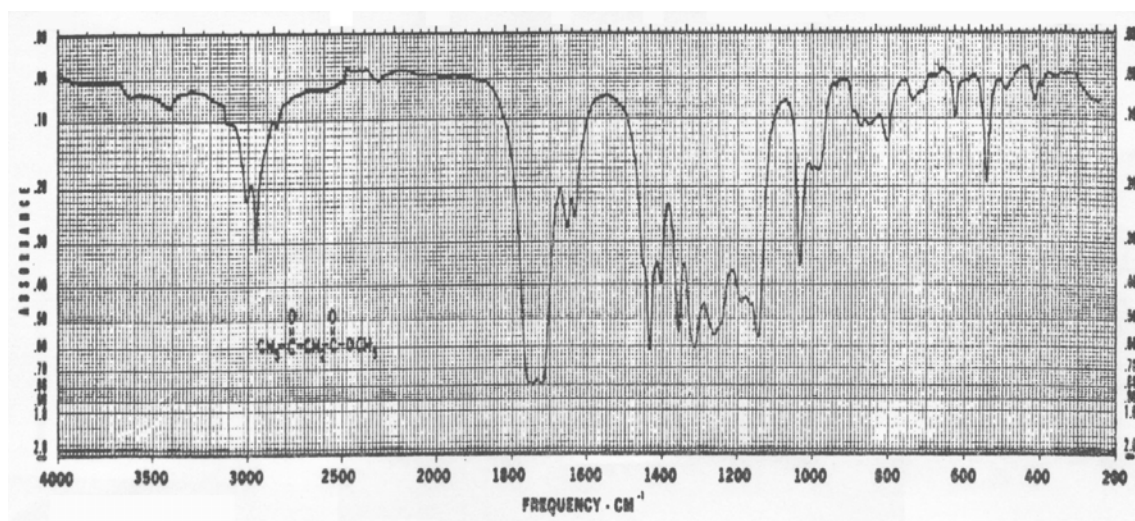
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

Result: The infrared spectrum was consistent with literature spectrum.

(*Simons WW. 1978. The Sadtler Handbook of Infrared Spectra.
Philadelphia, PV : Sadtler Research Laboratories, 766)

2. Conclusion: The test substance was identified as methyl acetoacetate by mass spectrum and infrared spectrum.

B. Lot No. : FGL01

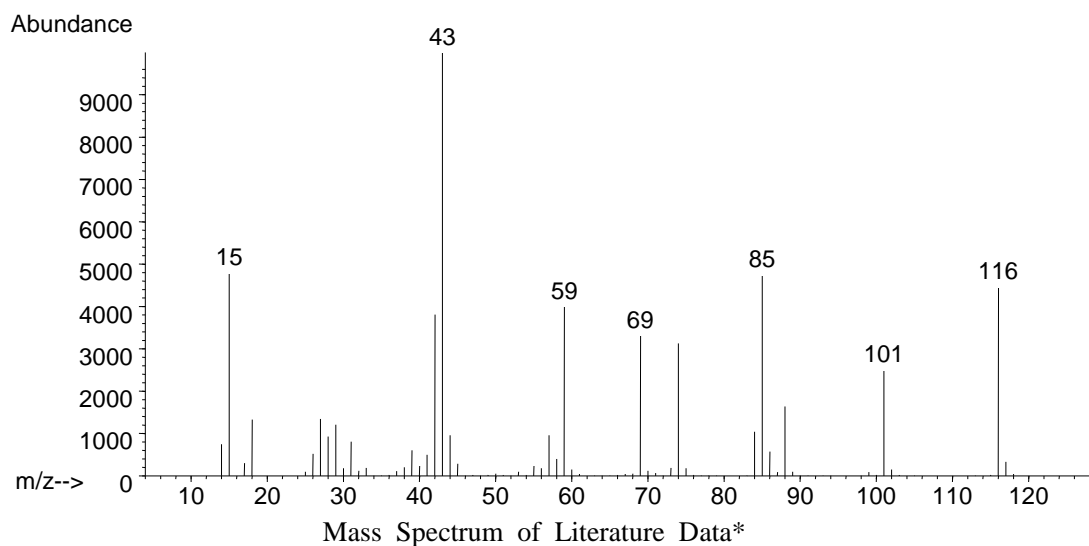
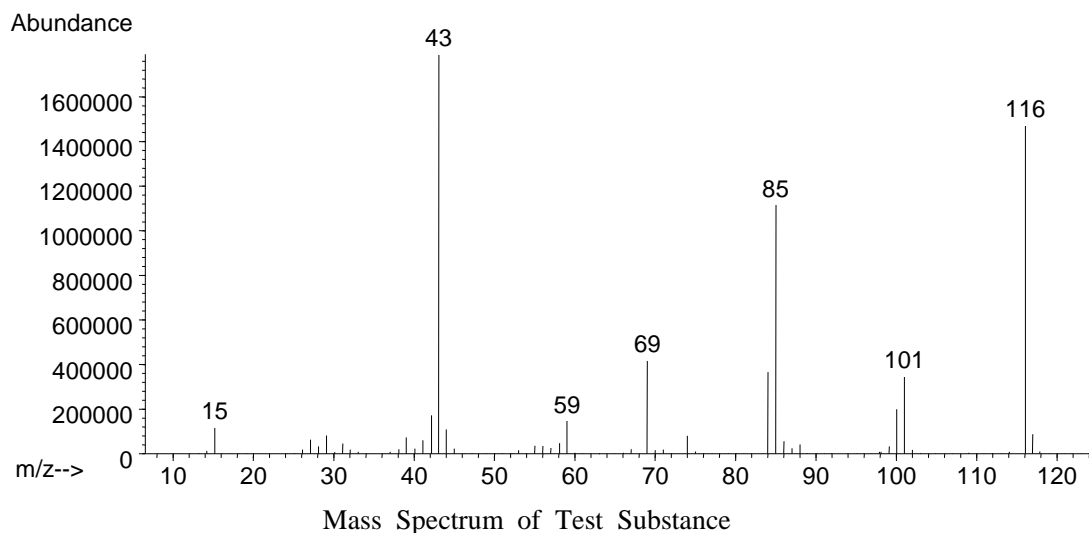
1. Spectral Data

Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

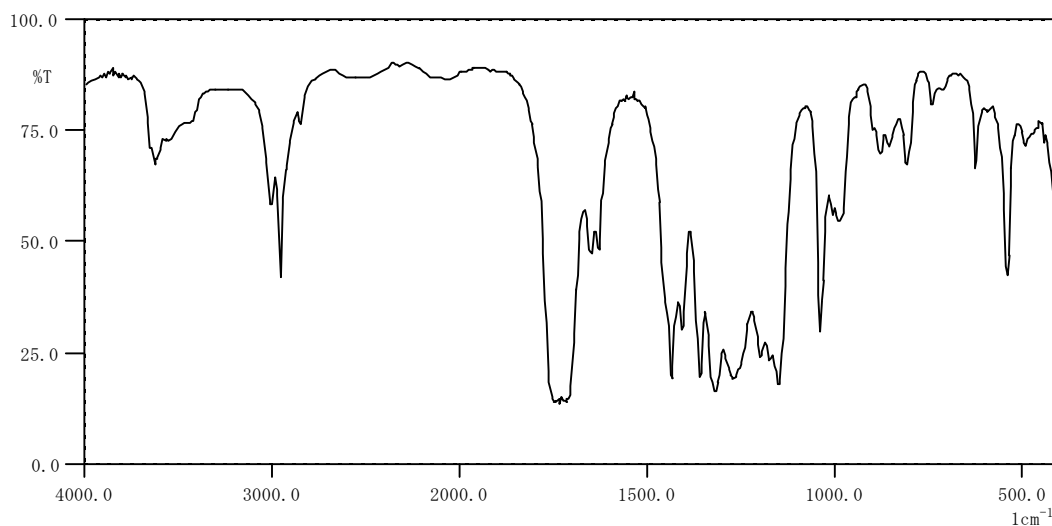
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY : John Wiley and Sons.)

Infrared Spectrometry

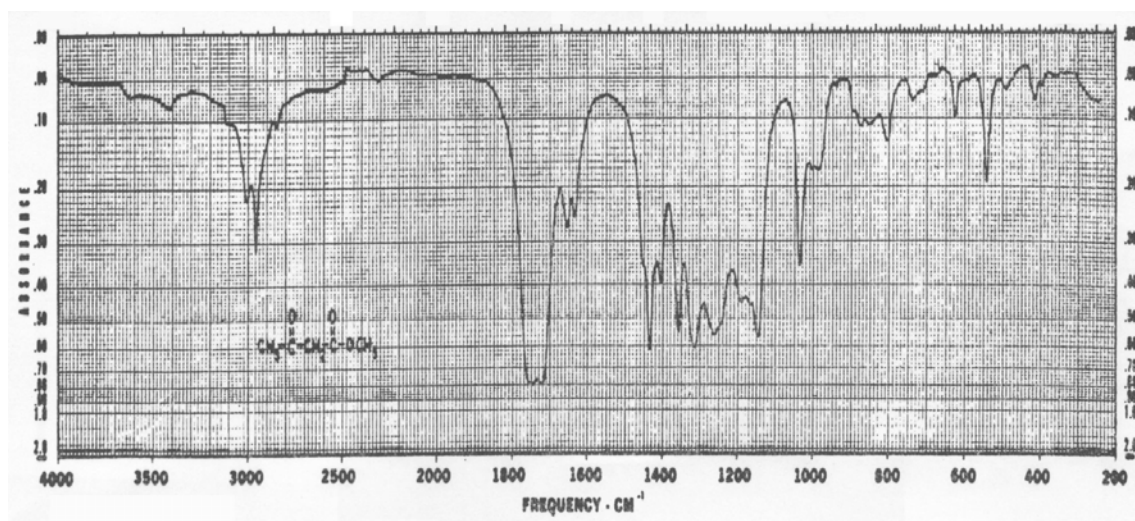
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

Result: The infrared spectrum was consistent with literature spectrum.

(*Simons WW. 1978. The Sadtler Handbook of Infrared Spectra.
Philadelphia, PV : Sadtler Research Laboratories, 766)

2. Conclusion: The test substance was identified as methyl acetoacetate by mass spectrum and infrared spectrum.

APPENDIX A 2

STABILITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF METHYL ACETOACETATE IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : Methyl Acetoacetate (Tokyo Kasei Kogyo Co., Ltd.)

A. Lot No. : GL01

1. Sample : This lot was used from 2002.3.21 to 2003.6.30. The test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mm ϕ \times 50 m)

Column Temperature : 100 °C (1 min) \rightarrow (10 °C/min) \rightarrow 190 °C

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2002.03.13	1	6.578	100
2003.07.03	1	6.581	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed at 2002.3.13 and one major peak (peak No.1) analyzed at 2003.7.3. No new trace impurity peak in the test substance analyzed at 2003.7.3 was detected.

3. Conclusion: The test substance was stable for about 16 months in a dark place at room temperature.

B. Lot No. : FGL01

1. Sample : This lot was used from 2003.6.30 to 2004.3.25. The test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mm ϕ \times 50 m)

Column Temperature : 100 °C (1 min) \rightarrow (10 °C/min) \rightarrow 190 °C

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2003.06.19	1	6.585	100
2004.04.20	1	6.584	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed at 2003.6.19 and one major peak (peak No.1) analyzed at 2004.4.20. No new trace impurity peak in the test substance analyzed at 2004.4.20 was detected.

3. Conclusion: The test substance was stable for about 10 months in a dark place at room temperature.

APPENDIX A 3

CONCENTRATION OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

CONCENTRATION OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

Date Analyzed	Target Concentration		
	2000 ^a	6325	20000
2002.03.21	2020 (101) ^b	6430 (102)	20300 (102)
2002.06.13	2000 (100)	6320 (99.9)	20100 (101)
2002.09.05	2100 (105)	6630 (105)	21100 (106)
2002.11.28	2040 (102)	6540 (103)	20900 (105)
2003.02.20	2030 (102)	6560 (104)	21200 (106)
2003.05.15	1970 (98.5)	6360 (101)	20300 (102)
2003.08.07	1980 (99.0)	6350 (100)	20300 (102)
2003.10.30	2010 (101)	6480 (102)	20800 (104)
2004.01.22	2020 (101)	6260 (99.0)	19900 (99.5)

^a ppm

^b %

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mm ϕ \times 50 m)

Column Temperature : 100 °C (1 min) \rightarrow (10 °C/min) \rightarrow 190 °C

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX A 4

STABILITY OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF METHYL ACETOACETATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

Date Prepared	Date Analyzed	Target Concentration	
		2000 ^a	20000
2002.03.07	2002.03.07	1990 (100) ^b	20200 (100)
	2002.03.11 ^c	2000 (101)	19900 (98.5)
	2002.03.15 ^c	2000 (101)	19300 (95.5)
	2002.03.19 ^c	2030 (102)	19500 (96.5)

^a ppm

^b % (Percentage was based on the concentration on date of preparation.)

^c Animal room samples

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mm ϕ \times 50 m)

Column Temperature : 100 °C (1 min) \rightarrow (10 °C/min) \rightarrow 190 °C

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX B 1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOTLED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day														
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7	
DEATH	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LOCOMOTOR MOVEMENT INCR	Control	0	1	1	1	1	1	1	1	1	1	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	2	3	3	3	3	4	4	5	7	7	7	7	7	7
	2000 ppm	1	2	3	3	3	3	3	3	3	3	3	3	3	3
	6325 ppm	0	0	0	1	1	1	1	2	2	2	2	4	4	4
	20000 ppm	0	1	1	1	2	2	2	2	2	2	2	2	3	4
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
DEATH	Control	8	8	10		11	12	14	14	14	14	14	16	17	19	20
	2000 ppm	3	4	4		4	5	5	7	7	7	7	7	8	9	9
	6325 ppm	5	5	6		6	7	7	7	8	8	8	8	8	8	8
	20000 ppm	4	4	5		5	6	6	6	6	7	7	10	10	10	11
MORIBUND SACRIFICE	Control	0	0	0		0	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	1	0		0	0	0	0	0	0	1	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	1	1	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	1		1	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	1	1	0	0	0	1	1	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	20	20	21	21	22	22
	2000 ppm	10	10	10	10	13	13
	6325 ppm	9	9	10	10	11	11
	20000 ppm	12	12	12	12	12	13
MORIBUND SACRIFICE	Control	1	1	1	1	2	3
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	1	2	2
	20000 ppm	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	20000 ppm	0	0	0		0	0	1	1	1	1	1	1	1	1	1
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 10

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 11

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
PILOERECTON	Control	1	1	1		1	1	1	1	1	0	0	0	0	0	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	1	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1		1	1	1	1	1	1	2	1	1	1	1
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
PILOBRECTION	Control	1	1	1		1	1	1	1	1	1	1	0	0	0	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	1	1	1	1	1	1	1
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	1	1	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1		1	1	1	1	1	1	2	2	2	2	2
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 13

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	2000 ppm	0	1	1	1	1	1	2	2	2	2	2	3	3	3
	6325 ppm	1	1	1	1	1	3	3	2	2	2	2	3	3	3
	20000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 14

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
PILOERECTOR	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	2000 ppm	1	1	2	3	3	2	2	3	3	3	3	3	3	4
	6325 ppm	2	2	1	0	0	0	0	0	0	0	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
INTERNAL MASS	Control	1	0	0	0	1	0	1	0	0	0	0	0	0	1
	2000 ppm	3	2	1	0	0	0	0	0	0	0	0	1	1	1
	6325 ppm	3	3	3	3	3	3	3	4	4	3	3	1	1	2
	20000 ppm	2	2	2	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 15

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
PILOERECTIO	Control	0	1	0	1	0	0	1	1	1	1	1	2	3	2
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	6325 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	0	0	0	2	2	2	2	2	2	2	2	2
	2000 ppm	4	3	3	3	2	2	2	2	2	2	2	2	2	2
	6325 ppm	2	2	2	2	1	1	1	1	1	1	1	1	1	1
	20000 ppm	2	2	2	2	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	1	1	1	1	3	4	5	4	4	4	3	3	3	2
	2000 ppm	1	1	1	1	1	4	3	2	2	2	2	4	5	5
	6325 ppm	2	2	1	1	1	2	2	2	2	2	2	3	6	6
	20000 ppm	1	1	0	1	1	2	2	2	1	1	1	4	4	4
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
PILOERECTOR	Control	2	2	1	1	1	1
	2000 ppm	1	1	0	1	1	3
	6325 ppm	1	2	1	0	0	0
	20000 ppm	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1
	2000 ppm	2	2	2	2	2	2
	6325 ppm	0	0	0	0	1	1
	20000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	2
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	1	2	2	2
	2000 ppm	2	2	2	2	3	4
	6325 ppm	1	1	1	1	1	1
	20000 ppm	1	1	2	2	2	2
INTERNAL MASS	Control	6	6	5	5	5	9
	2000 ppm	8	8	8	9	8	17
	6325 ppm	7	8	10	10	8	8
	20000 ppm	6	6	8	8	7	8
M. EYE	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	2	2
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	1	1	1	1

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 17

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 18

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
M. BREAST	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
M. BREAST	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 20

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIME	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 22

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	2	2	1	0	0	0	0	0	0	0	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	2	2	2	2	2	2	2	2	2
	2000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 24

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. BREAST	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. ABDOMEN	Control	2	2	1	1	1	1
	2000 ppm	0	0	0	0	0	1
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	1	1	1
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0
	2000 ppm	2	2	2	2	1	1
	6325 ppm	0	0	0	0	0	0
	20000 ppm	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	1	0	0
	20000 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 25

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crj[Crl:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 26

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 27

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 28

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
EROSION	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	1	1	2	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	1	1	1	1	1	1	2	1	1	0	0	0
	2000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	1	1	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	1	1	0	0	0	0	1	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
RED URINE	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 32

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
EROSION	Control	0	0	0	0	0	0
	2000 ppm	1	1	1	2	1	1
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	2
	20000 ppm	0	0	0	0	0	1
HEMORRHAGE	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	2000 ppm	0	1	1	1	0	0
	6325 ppm	0	0	0	0	0	1
	20000 ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	50	50	50	49	50	50	50	50	50	50	50	50	50	50
	6325 ppm	50	50	50	49	50	50	50	50	50	50	49	49	49	49
	20000 ppm	50	50	50	50	50	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50		50	50	50	49	49	49	49	49	49	49	49
	2000 ppm	50	50	50		50	50	50	50	50	50	50	50	50	50	50
	6325 ppm	49	49	49		49	49	49	49	49	49	49	49	49	49	49
	20000 ppm	49	49	49		49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	2000 ppm	50	50	50	50	50	49	50	50	50	50	50	50	50	50
	6325 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	48
	20000 ppm	49	49	49	49	49	49	49	49	49	48	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	1	1	1
	2000 ppm	0	0	0		0	0	0	0	0	1	1	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	1	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49		49	49	49	49	49	49	49	49	48	48	48
	2000 ppm	50	50	50		50	50	50	50	50	49	49	49	49	49	49
	6325 ppm	49	49	49		49	49	49	49	48	48	48	48	47	48	48
	20000 ppm	49	49	49		49	49	49	49	49	49	48	48	48	48	48

(HAN190)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	1	0	0	0	0
	2000 ppm	0	0	0		0	1	0	1	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	48		48	48	47	47	47	47	46	47	47	47	47
	2000 ppm	49	48	47		47	47	47	47	46	46	46	46	45	45	45
	6325 ppm	48	48	48		48	48	46	46	47	47	46	46	45	45	45
	20000 ppm	48	48	48		48	48	48	48	48	48	48	48	48	48	48

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	1	0	0	2
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	1	1	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	1	1	1		1	0	0	0	0	0	0	1	1	0	0
OLIGO-STOOL	Control	0	0	0		1	1	0	1	1	0	0	1	1	0	2
	2000 ppm	2	1	0		0	0	0	1	1	1	1	1	2	1	1
	6325 ppm	0	0	1		0	1	1	0	0	0	0	0	0	0	0
	20000 ppm	1	0	0		1	0	0	0	1	1	1	2	2	1	1
NON REMARKABLE	Control	47	47	47		46	45	45	44	44	43	43	42	42	43	41
	2000 ppm	44	44	44		44	44	44	43	42	42	42	42	41	41	40
	6325 ppm	45	45	45		45	45	45	45	43	43	44	43	43	43	42
	20000 ppm	48	47	47		48	48	48	48	47	47	47	46	46	45	44

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
SMALL STOOL	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
OLIGO-STOOL	Control	1	1	0	0	0	0	0	0	0	0	2	0	0	1	2
	2000 ppm	1	1	1	2	1	0	0	0	0	0	1	0	0	2	3
	6325 ppm	0	0	0	0	0	0	0	1	0	0	1	1	1	0	2
	20000 ppm	1	2	1	1	1	1	1	2	2	1	2	0	0	1	1
NON REMARKABLE	Control	41	41	38	37	33	28	27	28	28	28	27	27	27	24	24
	2000 ppm	40	40	40	40	40	38	36	37	36	36	34	34	34	31	31
	6325 ppm	40	40	40	40	40	39	38	39	39	39	38	38	36	34	33
	20000 ppm	43	42	42	41	41	40	39	39	39	40	39	38	35	34	33

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SMALL STOOL	Control	0	0	0	1	0	0
	2000 ppm	1	1	1	1	0	0
	6325 ppm	2	3	3	1	0	1
	20000 ppm	0	0	0	0	0	0
OLIGO-STOOL	Control	2	1	2	3	0	0
	2000 ppm	1	2	1	1	0	1
	6325 ppm	1	3	2	2	1	2
	20000 ppm	0	0	0	0	0	0
NON REMARKABLE	Control	20	20	20	19	19	14
	2000 ppm	29	29	29	28	27	16
	6325 ppm	32	30	28	27	26	26
	20000 ppm	31	31	28	28	29	27

(HAN190)

BAIS 4

APPENDIX B 2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 41

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 43

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 44

Clinical sign	Group Name	Administration Week day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	1	1	1	1	1	1	1	1	1	1
	6325 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	1	1	1
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	1	1	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1		1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0		0	1	1	1	1	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 45

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	0	2	2	2	2	2	2	3	4	4	4	5	6
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1	2	3	3	3	3	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 46

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
DEATH	Control	6	6	6	7	7	7	7	7	7	8	9	10	10	11
	2000 ppm	2	3	3	3	3	3	3	3	5	6	6	7	8	9
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	20000 ppm	3	4	4	6	6	7	8	8	8	9	9	10	11	11
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 47

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	11	11	12	12	12	12	12	12	12	12	12	13	13	13
	2000 ppm	10	10	11	13	13	13	13	14	14	14	15	16	18	21
	6325 ppm	2	2	3	3	3	3	3	3	4	5	5	7	7	8
	20000 ppm	12	12	12	12	13	14	15	15	16	16	16	16	16	17
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	2	2	2	2	2	2	2	2	2	2
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	0	0	0	1	1	2	2	2	2	2	2	2	2	2
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 48

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	13	14	14	14	14	14
	2000 ppm	21	22	23	23	24	25
	6325 ppm	8	8	10	11	15	17
	20000 ppm	18	19	19	20	20	21
MORIBUND SACRIFICE	Control	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2
	6325 ppm	1	1	1	1	2	2
	20000 ppm	2	2	2	2	3	3
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	1	0	0
	20000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
ROLLING	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 49

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 50

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 51

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
ABNORMAL GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0		0	1	1	1	1	0	0	0	0	0	0
	2000 ppm	0	0	0		1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	1	1	1	1	1	1
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	1	1	1	1	2	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
ABNORMAL GAIT	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	1	1	1	0	0	0	0	0	0	0	1	0	0	0
	2000 ppm	0	0	0	1	1	1	1	1	1	0	1	0	0	0
	6325 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 55

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	1	0	2	3	2	0	0	0	0	1	0
	6325 ppm	0	0	0	0	0	0	0	1	2	1	1	1	2	2
	20000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	1	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 56

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ABNORMAL GAIT	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
PILOERECTOR	Control	1	0	0	0	0	0
	2000 ppm	0	1	0	0	1	1
	6325 ppm	2	2	2	2	0	0
	20000 ppm	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	0	0	0	0
	20000 ppm	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1
	6325 ppm	0	0	1	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 57

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 58

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
CATARACT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	1	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	1	0	0	0	0	0	0
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 60

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	3	2	2	2	2	2	2	2	2	2	2	2
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	1	1	1	1	1	0	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 61

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
INTERNAL MASS	Control	2	3	1	2	2	2	2	2	1	1	1	2	1	0
	2000 ppm	0	0	0	1	1	1	1	1	2	4	4	4	4	4
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	20000 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6325 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	1	2	3	2
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	2	1	1	1	1
	2000 ppm	3	4	4	4	5	5	5	6	4	4	4	3	3	4
	6325 ppm	1	1	1	1	0	1	1	1	1	1	1	1	1	0
	20000 ppm	3	5	5	3	3	3	3	3	4	3	3	2	2	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	2	2	2	3	2	2	2	2	2	3	3	3	2	1
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	1	1	0	0	0	2	1	1	2	3	3	2	2	3
	2000 ppm	3	4	3	3	3	5	5	5	5	5	4	3	4	2
	6325 ppm	0	0	0	4	4	7	6	7	7	6	6	5	8	7
	20000 ppm	1	3	4	4	5	3	2	2	2	3	3	3	5	5
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6325 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	20000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CATARACT	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1
	6325 ppm	0	1	2	1	0	0
	20000 ppm	1	1	1	1	1	1
EXTERNAL MASS	Control	1	1	1	1	2	2
	2000 ppm	1	1	1	1	2	2
	6325 ppm	0	0	0	0	0	0
	20000 ppm	1	2	2	1	3	2
INTERNAL MASS	Control	3	2	2	2	2	2
	2000 ppm	2	3	2	2	2	1
	6325 ppm	7	10	9	9	6	4
	20000 ppm	5	4	4	6	5	4
M. EYE	Control	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0
	20000 ppm	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	1	1	0	1	0
M. ANTERIOR. DORSUM	Control	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 65

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 66

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 67

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	1	0	1	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
OLIGO-STOOL	Control	0	0	1	0	1	0	0	0	0	1	2	1	0	2
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	6325 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	1	0	0	1	1	1	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	0	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	2
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	1	0	0	1	2	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	20000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	1
OLIGO-STOOL	Control	2	2	0	0	0	0	0	0	0	1	1	1	0	0
	2000 ppm	1	0	0	1	1	1	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	2	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2	2	2	2	1	1	1	1	1
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	1	0	0	0	0	0	0	0	0	2	1	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	6325 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	1	0	0	0	0	0	0	0	1	0	1	1	0
	2000 ppm	1	1	1	2	1	2	0	1	0	0	0	1	0	0
	6325 ppm	0	0	0	1	0	1	0	1	0	0	0	0	0	0
	20000 ppm	0	0	1	1	1	1	0	1	0	0	0	1	1	1

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	1	1	0	0	0	0	0	0	1	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	1	1	0	0	0	1	0	0	0	0	0	1	0
	6325 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	20000 ppm	0	2	0	0	0	0	0	0	0	0	0	1	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	1	0	2	2	1	0	1
	2000 ppm	0	0	0	1	0	1	1	0	0	0	0	0	0	0
	6325 ppm	0	1	0	0	0	0	0	1	0	0	0	0	0	1
	20000 ppm	0	0	0	1	0	0	0	1	1	0	0	0	1	1

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	1	1
	2000 ppm	0	0	0	0	1	1
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	1	1
CRUSTA	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	1	1	0	0
	20000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	1	1	0	1	0	0
	20000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
	6325 ppm	0	0	0	0	0	0
	20000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	1	0	0	0	0	0
	2000 ppm	0	0	0	0	1	0
	6325 ppm	0	0	0	0	1	0
	20000 ppm	0	0	1	0	1	1
OLIGO-STOOL	Control	0	2	1	2	2	1
	2000 ppm	0	0	0	0	1	1
	6325 ppm	1	1	0	0	1	0
	20000 ppm	1	1	2	1	1	1

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 73

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	6325 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	20000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 74

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	50	50	50	50	50	50	50	49	50	50	49	49	50	50
	6325 ppm	50	50	50	50	50	50	50	48	50	50	50	50	50	50
	20000 ppm	50	50	50	50	50	50	50	48	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 75

Clinical sign	Group Name	Administration Week-day		31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7												
NON REMARKABLE	Control	50	50	49	49	50	50	50	50	50	50	50	50	50	50
	2000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	6325 ppm	50	50	50	50	49	50	49	49	49	49	49	49	49	49
	20000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 76

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
NON REMARKABLE	Control	48	48	47	48	47	47	47	47	47	47	47	47	47	47
	2000 ppm	50	50	49	49	49	49	49	49	49	49	49	49	49	48
	6325 ppm	49	49	49	48	49	49	49	49	49	49	49	49	49	49
	20000 ppm	50	50	50	50	50	50	48	49	49	49	48	48	48	48

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 77

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
NON REMARKABLE	Control	47	46	46	45	46	45	45	45	45	43	43	43	43	43
	2000 ppm	48	49	49	47	47	47	47	47	46	44	44	43	43	42
	6325 ppm	49	49	49	49	49	49	49	49	49	48	48	48	47	47
	20000 ppm	48	48	48	45	45	45	45	45	45	45	45	44	44	43

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 78

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
NON REMARKABLE	Control	43	43	43	43	43	43	43	43	43	39	39	38	38	38
	2000 ppm	42	40	40	39	39	38	39	38	38	37	37	36	35	34
	6325 ppm	47	47	47	47	47	45	46	45	46	46	46	46	46	46
	20000 ppm	43	40	40	40	40	38	38	37	37	37	37	36	35	35

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 79

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
NON REMARKABLE	Control	38	38	38	38	38	36	37	36	36	34	34	34	35	33
	2000 ppm	34	32	31	28	29	26	26	26	27	27	27	27	24	24
	6325 ppm	46	45	45	41	41	38	39	37	36	36	36	34	32	30
	20000 ppm	36	33	33	32	30	30	30	30	29	28	28	27	25	24

(HAN190)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 80

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
NON REMARKABLE	Control	33	31	32	31	30	30
	2000 ppm	24	22	22	22	20	20
	6325 ppm	30	28	28	27	27	27
	20000 ppm	23	22	22	20	19	19

(HAN190)

BAIS 4

APPENDIX C 1

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	23.5± 0.8	24.8± 0.9	25.5± 0.9	26.0± 1.0	27.0± 1.1	27.7± 1.3	28.2± 1.5
2000 ppm	23.5± 0.8	24.7± 0.8	25.5± 0.8	26.1± 0.9	27.0± 1.4	27.8± 1.2	28.6± 1.4
6325 ppm	23.5± 0.8	24.5± 0.9	25.4± 0.9	25.9± 1.1	26.7± 1.2	27.5± 1.3	28.2± 1.3
20000 ppm	23.5± 0.8	24.6± 0.9	25.4± 1.1	26.1± 1.2	27.1± 1.2	27.7± 1.5	28.5± 1.7

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	7	8	9	10	11	12	13
Control	28.9± 1.6	29.4± 1.8	30.4± 2.0	31.0± 2.1	31.8± 2.2	32.8± 2.5	33.2± 2.5
2000 ppm	29.1± 1.6	29.8± 1.7	30.8± 1.9	31.5± 1.8	32.2± 2.0	33.1± 2.1	33.5± 2.1
6325 ppm	28.5± 1.5	29.2± 1.7	29.9± 2.0	30.7± 1.9	31.6± 2.1	32.3± 2.2	32.9± 2.3
20000 ppm	28.9± 1.9	29.5± 2.1	30.3± 2.4	31.1± 2.4	31.8± 2.5	32.7± 2.6	32.8± 2.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	33.9± 2.5	35.9± 2.8	38.3± 3.6	39.8± 4.0	41.4± 4.3	42.2± 4.4	43.6± 4.7
2000 ppm	34.6± 2.2	36.7± 2.4	39.3± 2.9	40.8± 3.4	42.8± 3.7	43.7± 3.9	45.2± 3.9
6325 ppm	33.6± 2.2	35.7± 2.7	38.2± 3.1	39.9± 3.6	41.5± 3.9	42.5± 4.1	43.9± 4.4
20000 ppm	33.7± 2.8	35.7± 3.2	38.5± 3.5	39.8± 3.8	41.3± 4.1	42.2± 4.2	43.6± 4.2

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week									
	42		46		50		54		58	
Control	44.9± 5.1		45.7± 5.0		46.5± 4.9		47.9± 4.5		49.3± 3.8	
2000 ppm	46.6± 4.0		47.5± 4.0		48.5± 4.0		49.3± 4.2		50.5± 3.7	
6325 ppm	45.1± 4.6		46.3± 4.5		47.4± 4.2		48.0± 4.2		49.0± 4.0	
20000 ppm	44.9± 4.1		45.8± 4.1		46.7± 3.8		47.9± 3.7		48.8± 3.5	

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	50.2± 4.0	50.9± 3.9	52.0± 3.3	52.1± 4.4	50.7± 6.5	50.7± 5.5	48.9± 8.3
2000 ppm	50.8± 5.3	52.3± 4.5	53.1± 4.6	53.1± 5.3	52.9± 5.5	52.3± 7.1	51.7± 7.3
6325 ppm	49.7± 4.6	50.5± 4.7	51.0± 5.0	51.7± 4.5	51.3± 5.7	51.4± 5.8	50.3± 5.9
20000 ppm	49.8± 3.5	49.9± 5.8	51.3± 4.2	51.2± 5.9	51.0± 5.7	51.4± 5.7	50.3± 6.0

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week		
	98	102	104
Control	49.9± 8.3	50.1± 6.5	51.4± 4.9
2000 ppm	51.7± 7.4	50.3± 8.8	50.0± 8.2
6325 ppm	49.5± 6.6	48.6± 7.0	47.2± 7.7
20000 ppm	50.8± 6.6	50.1± 6.5	49.7± 6.5

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX C 2

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	19.8± 0.8	20.3± 0.8	20.4± 0.9	20.8± 1.0	21.3± 1.0	21.9± 1.1	22.4± 1.1
2000 ppm	19.8± 0.8	20.4± 0.9	20.7± 1.0	21.0± 1.0	21.4± 1.2	21.9± 1.1	22.9± 1.2
6325 ppm	19.8± 0.8	20.3± 1.0	20.7± 1.0	20.9± 0.9	21.7± 1.1	22.0± 1.2	22.7± 1.1
20000 ppm	19.8± 0.8	20.1± 0.8	20.7± 0.9	20.9± 0.9	21.6± 1.0	21.8± 1.0	22.2± 1.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week						
	7	8	9	10	11	12	13
Control	22.6± 1.2	23.0± 1.2	23.5± 1.2	24.0± 1.3	24.1± 1.3	24.3± 1.3	24.4± 1.6
2000 ppm	22.7± 1.3	23.2± 1.2	23.7± 1.3	24.1± 1.6	24.1± 1.4	24.7± 1.6	24.8± 1.4
6325 ppm	22.6± 1.1	23.0± 1.1	23.6± 1.2	24.0± 1.3	24.3± 1.3	24.5± 1.4	24.7± 1.4
20000 ppm	22.5± 1.0	23.2± 1.1	23.6± 1.1	23.8± 1.3	24.1± 1.2	24.0± 1.4	24.3± 1.4

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	24.8± 1.7	25.6± 1.9	27.0± 2.2	27.3± 2.4	27.9± 2.7	28.5± 2.8	29.2± 2.9
2000 ppm	24.9± 1.5	25.7± 1.8	27.2± 2.0	27.8± 2.4	28.7± 2.6	29.2± 2.8	30.1± 3.0
6325 ppm	24.9± 1.5	25.8± 1.7	27.0± 2.3	28.1± 2.2	28.8± 2.9	29.3± 2.9	30.2± 3.3
20000 ppm	24.6± 1.6	25.7± 1.8	26.5± 2.0	27.4± 2.3	28.3± 2.5	28.6± 2.6	29.3± 3.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration week						
	42	46	50	54	58	62	66
Control	29.8± 3.1	30.6± 3.1	31.2± 4.0	31.9± 3.8	32.3± 3.7	32.8± 3.7	33.6± 4.1
2000 ppm	30.8± 3.5	31.4± 3.7	32.3± 3.8	32.9± 3.8	33.9± 4.0	33.8± 3.8	34.4± 3.6
6325 ppm	30.8± 3.4	32.0± 3.8	32.5± 3.8	33.0± 4.1	33.7± 4.5	34.7± 4.6	34.9± 4.3
20000 ppm	30.0± 3.2	30.5± 3.6	31.3± 3.7	31.4± 3.9	32.1± 3.9	32.6± 3.9	33.3± 4.0

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week											
	70		74		78		82		86		90		94	
Control	33.0±	4.3	33.6±	3.6	34.2±	4.0	34.8±	3.8	34.7±	4.3	34.7±	4.2	34.6±	4.2
2000 ppm	34.1±	3.7	34.3±	3.8	35.4±	3.9	35.4±	3.8	35.2±	4.3	34.5±	4.4	35.0±	4.2
6325 ppm	34.9±	4.4	35.1±	4.7	35.8±	4.5	35.9±	4.5	36.1±	4.7	35.9±	4.9	36.0±	4.8
20000 ppm	33.4±	4.1	33.2±	4.2	33.8±	4.4	33.7±	4.4	33.7±	4.5	33.6±	4.4	34.1±	4.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week		
	98	102	104
Control	34.4± 4.5	33.9± 4.6	33.9± 4.2
2000 ppm	34.6± 3.6	34.5± 3.2	33.5± 3.3
6325 ppm	35.9± 4.6	35.6± 4.8	35.7± 4.0
20000 ppm	33.6± 4.6	32.8± 3.7	32.3± 4.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HAN260)

BAIS 4

APPENDIX D 1

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	3.8± 0.2	3.7± 0.2	3.7± 0.2	3.7± 0.3	3.8± 0.2	3.8± 0.3	3.9± 0.2
2000 ppm	3.7± 0.2	3.7± 0.2	3.7± 0.2	3.7± 0.2	3.9± 0.3	3.9± 0.2	3.9± 0.2
6325 ppm	3.8± 0.2	4.2± 0.2**	3.7± 0.2	3.8± 0.3	3.9± 0.2	3.9± 0.2	3.9± 0.2
20000 ppm	3.8± 0.2	4.2± 0.3**	3.7± 0.3	3.8± 0.2	3.8± 0.3	3.9± 0.3	3.9± 0.3

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	3.9± 0.3	3.9± 0.3	3.9± 0.2	3.9± 0.3	4.0± 0.3	4.0± 0.3	4.1± 0.3
2000 ppm	4.0± 0.2	3.9± 0.3	4.0± 0.2	4.0± 0.2	4.0± 0.3	3.9± 0.3	4.1± 0.3
6325 ppm	4.0± 0.2	3.9± 0.3	4.0± 0.2	4.0± 0.2	4.0± 0.3	4.0± 0.3	4.1± 0.2
20000 ppm	4.0± 0.3	3.8± 0.2	4.0± 0.3	4.0± 0.3	4.0± 0.3	3.9± 0.3	4.1± 0.2

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	4.1± 0.3	4.2± 0.3	4.1± 0.4	4.2± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3
2000 ppm	4.2± 0.2	4.2± 0.3	4.4± 0.3**	4.3± 0.3	4.3± 0.3	4.4± 0.3	4.5± 0.3
6325 ppm	4.1± 0.3	4.1± 0.3	4.4± 0.3**	4.3± 0.3	4.3± 0.3	4.3± 0.3	4.4± 0.3
20000 ppm	4.0± 0.3	4.0± 0.3*	4.3± 0.3	4.2± 0.3	4.2± 0.3	4.2± 0.3*	4.3± 0.3*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 4

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	4.5± 0.3	4.4± 0.3	4.4± 0.3	4.5± 0.3	4.5± 0.4	4.5± 0.4	4.7± 0.3
2000 ppm	4.5± 0.4	4.4± 0.3	4.5± 0.3	4.5± 0.2	4.6± 0.3	4.6± 0.3	4.7± 0.6
6325 ppm	4.5± 0.4	4.4± 0.3	4.4± 0.3	4.5± 0.3	4.6± 0.3	4.6± 0.3	4.6± 0.4
20000 ppm	4.4± 0.3	4.2± 0.3**	4.3± 0.3*	4.3± 0.7	4.4± 0.3	4.4± 0.3	4.5± 0.4

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	4.5± 0.7	4.6± 0.5	4.7± 0.5	4.5± 0.5	4.6± 0.6	4.6± 0.7	4.6± 0.5
2000 ppm	4.7± 0.3	4.8± 0.4	4.7± 0.7	4.8± 0.4**	4.8± 0.6	4.8± 0.6	4.6± 0.6
6325 ppm	4.6± 0.4	4.7± 0.4	4.7± 0.4	4.7± 0.6	4.7± 0.4	4.7± 0.6	4.5± 0.6
20000 ppm	4.4± 0.7	4.5± 0.4	4.6± 0.7	4.5± 0.5	4.5± 0.5	4.3± 0.8	4.4± 0.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week	
	102	104
Control	4.5± 1.0	4.9± 0.4
2000 ppm	4.6± 0.6	4.7± 0.4
6325 ppm	4.5± 0.9	4.5± 0.7*
20000 ppm	4.4± 0.7	4.6± 0.6**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX D 2

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	3.3± 0.2	3.3± 0.2	3.3± 0.2	3.4± 0.2	3.4± 0.2	3.7± 0.2	3.7± 0.2
2000 ppm	3.3± 0.3	3.4± 0.2	3.3± 0.2	3.5± 0.3	3.5± 0.2	3.7± 0.3	3.7± 0.3
6325 ppm	3.3± 0.2	3.4± 0.2	3.3± 0.2	3.5± 0.3	3.5± 0.4	3.7± 0.3	3.7± 0.3
20000 ppm	3.2± 0.2	3.2± 0.2	3.2± 0.2	3.4± 0.2	3.3± 0.3*	3.6± 0.2	3.5± 0.2*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	3.8± 0.2	3.7± 0.3	3.8± 0.3	3.7± 0.3	3.7± 0.3	3.5± 0.3	3.7± 0.3
2000 ppm	3.8± 0.2	3.8± 0.3	3.9± 0.3	3.8± 0.3	3.8± 0.3	3.5± 0.3	3.6± 0.2
6325 ppm	3.8± 0.3	3.8± 0.3	3.8± 0.3	3.8± 0.3	3.8± 0.3	3.6± 0.3	3.6± 0.3
20000 ppm	3.7± 0.3	3.7± 0.2	3.7± 0.2	3.7± 0.3	3.6± 0.2	3.4± 0.2	3.6± 0.3

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	3.5± 0.3	3.8± 0.3	3.7± 0.4	3.6± 0.4	3.7± 0.5	3.8± 0.4	3.8± 0.5
2000 ppm	3.6± 0.3	3.9± 0.3	3.8± 0.4	3.7± 0.4	3.6± 0.4	3.7± 0.3	3.8± 0.4
6325 ppm	3.6± 0.3	3.9± 0.4	3.8± 0.3	3.7± 0.4	3.6± 0.4	3.7± 0.4	3.8± 0.4
20000 ppm	3.5± 0.3	3.6± 0.4	3.7± 0.4	3.6± 0.3	3.6± 0.4	3.6± 0.4	3.8± 0.4

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	3.9± 0.4	3.8± 0.5	3.8± 0.6	3.9± 0.5	3.9± 0.5	4.0± 0.6	4.1± 0.5
2000 ppm	3.7± 0.4	3.7± 0.4	3.8± 0.5	4.0± 0.5	4.0± 0.6	3.9± 0.5	4.0± 0.4
6325 ppm	3.9± 0.5	3.7± 0.5	3.8± 0.4	3.8± 0.5	4.0± 0.5	3.9± 0.3	4.0± 0.4
20000 ppm	3.6± 0.4**	3.6± 0.4	3.7± 0.4	3.7± 0.5	3.8± 0.4	3.8± 0.4	3.9± 0.4

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	3.8± 0.5	4.0± 0.5	4.2± 0.6	4.0± 0.5	4.1± 0.5	3.9± 0.6	4.0± 0.5
2000 ppm	3.9± 0.4	4.0± 0.7	4.1± 0.6	4.0± 0.8	4.1± 0.7	4.2± 0.7	4.1± 0.5
6325 ppm	4.0± 0.4	4.1± 0.4	4.2± 0.5	4.1± 0.6	4.2± 0.6	4.1± 0.7	4.1± 0.7
20000 ppm	3.7± 0.4	3.8± 0.6	4.0± 0.6	3.8± 0.6	3.8± 0.4**	3.8± 0.6	3.8± 0.6

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : AI 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week	
	102	104
Control	4.0± 0.7	4.0± 0.5
2000 ppm	4.1± 0.6	4.0± 0.5
6325 ppm	4.1± 0.7	4.2± 0.6
20000 ppm	3.7± 0.7	3.9± 0.6

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX E 1

WATER CONSUMPTION CHANGES : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	4.6± 0.8	4.5± 0.8	4.3± 0.8	4.3± 0.7	4.2± 0.8	4.2± 0.6	4.1± 0.8
2000 ppm	4.6± 0.8	4.5± 0.7	4.4± 0.7	4.2± 0.8	4.2± 0.8	4.4± 0.7	4.2± 0.8
6325 ppm	4.8± 1.1	4.6± 0.9	4.6± 1.0	4.5± 1.1	4.5± 1.0	4.5± 0.7	4.4± 1.0
20000 ppm	4.6± 0.8	4.3± 0.8	4.2± 0.7	4.3± 0.6	4.3± 0.8	4.3± 0.8	4.1± 0.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	4.1± 0.7	4.1± 0.7	4.1± 0.6	3.9± 0.6	3.9± 0.6	3.9± 0.5	3.9± 0.5
2000 ppm	4.4± 0.8	4.2± 0.8	4.2± 0.7	4.1± 0.7	4.0± 0.7	3.9± 0.6	3.9± 0.5
6325 ppm	4.5± 0.9	4.5± 0.9	4.4± 0.7	4.2± 0.6	4.1± 0.6	4.2± 0.6**	4.2± 0.9**
20000 ppm	4.3± 0.7	4.2± 1.0	4.1± 0.7	4.1± 0.6	3.9± 0.5	3.9± 0.7	3.8± 0.5

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	3.6± 0.5	3.3± 0.4	3.6± 0.3	3.6± 0.3	3.7± 0.3	3.7± 0.4	3.8± 0.3
2000 ppm	3.7± 0.4	3.4± 0.3	3.6± 0.3	3.6± 0.3	3.6± 0.3	3.6± 0.3	3.7± 0.3
6325 ppm	3.8± 0.4	3.5± 0.4**	3.7± 0.4	3.6± 0.3	3.7± 0.3	3.7± 0.4	3.7± 0.6
20000 ppm	3.6± 0.4	3.3± 0.3	3.4± 0.3*	3.4± 0.4**	3.4± 0.4**	3.5± 0.4*	3.4± 0.3**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	4.0± 0.5	3.7± 0.4	3.9± 0.4	3.7± 0.3	3.9± 0.4	3.9± 0.4	4.1± 0.4
2000 ppm	3.9± 0.4	3.7± 0.3	3.9± 0.4	3.8± 0.5	4.0± 0.6	4.1± 0.6	4.1± 0.7
6325 ppm	4.0± 0.6	3.7± 0.4	3.9± 0.4	3.8± 0.5	4.0± 0.7	4.1± 0.4	4.1± 0.6
20000 ppm	3.6± 0.4**	3.4± 0.4**	3.6± 0.3**	3.3± 0.3**	3.5± 0.4**	3.5± 0.5**	3.6± 0.4**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	4.1± 0.9	4.3± 0.5	4.4± 0.4	4.4± 0.7	4.4± 0.8	4.4± 0.8	4.6± 0.5
2000 ppm	4.3± 0.5	4.4± 0.6	4.3± 0.8	4.6± 0.9	4.5± 1.1	4.8± 1.2	4.5± 0.6
6325 ppm	4.3± 0.6	4.3± 0.6	4.4± 0.5	4.5± 0.6	4.4± 0.7	4.6± 0.8	4.4± 1.1
20000 ppm	3.8± 0.5**	3.9± 0.5**	3.7± 0.7**	3.9± 0.6**	3.9± 0.6**	3.9± 0.8**	3.9± 0.7**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week	
	102	104
Control	4.4± 1.1	4.9± 1.2
2000 ppm	4.8± 1.1	4.4± 0.7
6325 ppm	4.4± 1.0	4.3± 0.8
20000 ppm	4.1± 1.0	4.2± 1.0**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX E 2

WATER CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	4.2± 0.4	4.1± 0.5	4.2± 0.6	4.3± 0.9	4.4± 0.9	4.5± 1.0	4.4± 0.5
2000 ppm	4.3± 0.5	4.3± 0.7	4.2± 0.6	4.8± 1.3*	4.5± 0.7	4.5± 1.0	4.7± 1.1
6325 ppm	4.3± 0.5	4.4± 0.5**	4.3± 0.6	4.6± 0.9*	4.6± 0.6*	4.7± 0.8	4.6± 1.0
20000 ppm	4.0± 0.5	4.1± 0.5	4.1± 0.4	4.2± 0.6	4.3± 0.6	4.3± 0.8	4.1± 0.6**

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration week 8	9	10	11	12	13	14
Control	4.5± 0.9	4.7± 1.0	4.6± 0.9	4.4± 0.8	4.6± 1.2	4.5± 0.6	4.3± 0.8
2000 ppm	4.8± 1.1	4.7± 1.0	5.0± 1.6	4.8± 1.3	4.7± 0.9	4.7± 1.0	4.3± 0.9
6325 ppm	4.9± 0.8*	4.8± 1.0	4.7± 0.9	4.6± 0.9	4.8± 0.9*	4.5± 0.7	4.3± 0.6
20000 ppm	4.3± 0.6	4.2± 0.4**	4.3± 0.8	4.1± 0.4	4.3± 0.7	4.2± 0.4*	4.0± 1.0**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	4.1± 0.6	4.2± 0.8	4.4± 0.8	4.1± 0.7	4.2± 0.8	4.0± 0.8	4.0± 1.0
2000 ppm	4.4± 1.1	4.3± 1.0	4.4± 0.7	4.1± 0.7	4.2± 0.7	4.2± 1.0	4.1± 0.7
6325 ppm	4.6± 1.1*	4.3± 1.1	4.5± 0.6	4.3± 0.8	4.0± 0.7	4.1± 0.5	4.0± 0.5
20000 ppm	4.0± 1.0	3.9± 0.8	4.0± 0.9**	3.8± 0.7	3.7± 0.7**	3.8± 1.0*	3.7± 0.7

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration week													
	46		50		54		58		62		66		70	
Control	4.2±	0.7	4.0±	0.7	3.9±	0.7	4.0±	0.7	3.9±	0.8	4.0±	1.0	3.9±	0.5
2000 ppm	4.2±	0.9	3.7±	0.6	4.0±	0.6	3.9±	0.6	4.0±	0.9	3.8±	0.7	4.0±	0.6
6325 ppm	4.2±	0.7	3.9±	0.6	4.0±	0.5	4.0±	0.5	4.0±	0.5	3.9±	0.4	4.0±	0.4
20000 ppm	3.9±	0.6	3.7±	0.7	3.8±	1.0	3.6±	0.6*	3.8±	1.0	3.8±	1.1	3.7±	0.9*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	4.1± 0.7	4.1± 1.1	4.3± 1.1	4.2± 0.7	4.1± 0.7	4.2± 1.2	4.2± 0.7
2000 ppm	4.2± 0.8	4.2± 0.9	4.1± 0.7	4.3± 0.9	4.2± 1.3	4.5± 1.2	4.2± 0.6
6325 ppm	4.1± 0.8	4.2± 0.6	4.3± 0.6	4.1± 0.8	4.2± 0.8	4.3± 1.0	4.1± 0.8
20000 ppm	3.7± 0.8	3.7± 0.8	3.8± 0.9**	3.8± 1.0	3.7± 1.0**	3.9± 1.1	4.1± 1.5*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week	
	102	104
Control	4.1± 0.7	4.3± 0.9
2000 ppm	4.4± 0.4	4.5± 1.0
6325 ppm	4.3± 1.1	4.3± 1.0
20000 ppm	3.9± 1.5	4.0± 1.2

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX F 1

CHEMICAL INTAKE CHANGES : MALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g/kg/d a y
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)									
	1	2	3	4	5	6	7			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
2000 ppm	0.375± 0.063	0.353± 0.055	0.333± 0.060	0.310± 0.064	0.304± 0.058	0.311± 0.056	0.288± 0.056			
6325 ppm	1.244± 0.275	1.151± 0.223	1.121± 0.246	1.061± 0.274	1.047± 0.233	1.006± 0.165	0.987± 0.242			
20000 ppm	3.704± 0.641	3.420± 0.589	3.202± 0.546	3.189± 0.482	3.111± 0.566	3.034± 0.577	2.856± 0.612			

(HAN300)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g/kg/d a y
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
2000 ppm	0.294± 0.064	0.272± 0.061	0.268± 0.050	0.254± 0.054	0.242± 0.049	0.237± 0.039	0.228± 0.039			
6325 ppm	0.985± 0.209	0.952± 0.208	0.909± 0.165	0.850± 0.150	0.814± 0.127	0.818± 0.136	0.799± 0.173			
20000 ppm	2.903± 0.547	2.815± 0.704	2.688± 0.548	2.609± 0.464	2.384± 0.391	2.397± 0.500	2.281± 0.400			

(HAN300)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)									
	18		22		26		30		34	
Control	0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000	
2000 ppm	0.203± 0.027		0.172± 0.022		0.179± 0.020		0.168± 0.022		0.161± 0.021	
6325 ppm	0.676± 0.097		0.586± 0.084		0.583± 0.082		0.558± 0.076		0.543± 0.078	
20000 ppm	2.060± 0.353		1.734± 0.252		1.721± 0.244		1.644± 0.235		1.607± 0.210	

(HAN300)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)									
	46		50		54		58		62	
Control	0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000	
2000 ppm	0.166± 0.020		0.155± 0.018		0.160± 0.019		0.151± 0.023		0.157± 0.026	
6325 ppm	0.555± 0.089		0.503± 0.071		0.515± 0.070		0.492± 0.082		0.522± 0.112	
20000 ppm	1.595± 0.206		1.478± 0.214		1.503± 0.158		1.372± 0.168		1.429± 0.163	

(HAN300)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration (weeks)									
	74		78		82		86		90	
Control	0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000	
2000 ppm	0.167± 0.029		0.166± 0.029		0.165± 0.036		0.179± 0.052		0.171± 0.052	
6325 ppm	0.537± 0.095		0.535± 0.093		0.537± 0.090		0.555± 0.100		0.553± 0.124	
20000 ppm	1.515± 0.191		1.506± 0.172		1.439± 0.267		1.520± 0.249		1.528± 0.243	

(HAN300)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g/kg/d a y
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)			
	102		104	
Control	0.000±	0.000	0.000±	0.000
2000 ppm	0.201±	0.121	0.176±	0.032
6325 ppm	0.574±	0.158	0.584±	0.139
20000 ppm	1.685±	0.573	1.741±	0.591

(HAN300)

BAIS 4

APPENDIX F 2

CHEMICAL INTAKE CHANGES : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g/kg/d a y
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)		2	3	4	5	6	7
	1							
Control	0.000± 0.000		0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
2000 ppm	0.426± 0.052		0.415± 0.076	0.398± 0.054	0.445± 0.127	0.411± 0.068	0.398± 0.091	0.415± 0.102
6325 ppm	1.346± 0.164		1.346± 0.161	1.306± 0.201	1.343± 0.268	1.312± 0.184	1.329± 0.263	1.296± 0.300
20000 ppm	3.997± 0.449		3.931± 0.456	3.886± 0.386	3.901± 0.600	3.959± 0.619	3.894± 0.806	3.689± 0.541

(HAN300)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g/kg/d a y
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)													
	8		9		10		11		12		13		14	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
2000 ppm	0.416±	0.095	0.394±	0.089	0.417±	0.145	0.396±	0.122	0.382±	0.077	0.382±	0.084	0.350±	0.074
6325 ppm	1.341±	0.252	1.281±	0.269	1.244±	0.245	1.201±	0.228	1.235±	0.225	1.155±	0.186	1.103±	0.152
20000 ppm	3.735±	0.480	3.544±	0.330	3.663±	0.756	3.450±	0.402	3.602±	0.588	3.441±	0.373	3.284±	0.891

(HAN300)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g/kg/d a y
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)													
	18		22		26		30		34		38		42	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
2000 ppm	0.349±	0.090	0.317±	0.077	0.316±	0.054	0.290±	0.061	0.294±	0.055	0.282±	0.069	0.267±	0.049
6325 ppm	1.135±	0.304	1.008±	0.279	1.015±	0.148	0.961±	0.175	0.862±	0.159	0.868±	0.119	0.821±	0.126
20000 ppm	3.143±	0.768	2.932±	0.580	2.918±	0.716	2.726±	0.573	2.590±	0.562	2.629±	0.698	2.508±	0.547

(HAN300)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g/kg/d a y
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)									
	46		50		54		58		62	
Control	0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000		0.000± 0.000	
2000 ppm	0.274± 0.074		0.235± 0.046		0.247± 0.048		0.234± 0.043		0.237± 0.055	
6325 ppm	0.830± 0.159		0.765± 0.151		0.777± 0.123		0.757± 0.119		0.732± 0.127	
20000 ppm	2.597± 0.474		2.399± 0.555		2.458± 0.669		2.296± 0.446		2.351± 0.627	

(HAN300)

BAIS 4

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks)												
	74		78		82		86		90		94		98
Control	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
2000 ppm	0.248 ± 0.061	0.241 ± 0.059	0.233 ± 0.047	0.248 ± 0.069	0.251 ± 0.097	0.261 ± 0.085	0.248 ± 0.040						
6325 ppm	0.756 ± 0.165	0.758 ± 0.156	0.769 ± 0.129	0.716 ± 0.152	0.753 ± 0.149	0.766 ± 0.205	0.742 ± 0.168						
20000 ppm	2.295 ± 0.614	2.259 ± 0.624	2.291 ± 0.698	2.311 ± 0.752	2.280 ± 0.795	2.348 ± 0.854	2.476 ± 1.088						

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g/kg/d a y
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)			
	102		104	
Control	0.000±	0.000	0.000±	0.000
2000 ppm	0.255±	0.031	0.274±	0.066
6325 ppm	0.781±	0.282	0.775±	0.229
20000 ppm	2.413±	1.031	2.513±	0.835

(HAN300)

BAIS 4

APPENDIX G 1

HEMATOLOGY : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	24	9.69±	0.74	14.2±	1.2	45.2±	3.2	46.7±	1.1	14.6±	0.5	31.3±	1.0	1728±	215
2000 ppm	34	9.51±	1.35	13.7±	1.9	44.0±	5.9	46.4±	1.7	14.4±	0.6	31.1±	0.8	1679±	339
6325 ppm	35	9.76±	1.11	13.9±	1.5	44.8±	4.5	46.0±	1.9	14.3±	0.5	31.1±	0.9	1659±	408
20000 ppm	35	9.47±	1.08	13.6±	1.7	43.9±	4.8	46.5±	1.9	14.4±	0.6	30.9±	1.0	1693±	287

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	24	3.30±	1.26	1±	1	27±	12	1±	1	0±	0	3±	1	67±	14	1±	2
2000 ppm	34	4.03±	2.82	0±	0	25±	10	2±	1	0±	0	4±	2	69±	11	0±	0
6325 ppm	35	3.49±	1.46	0±	1	28±	17	1±	1	0±	0	4±	2	66±	17	0±	2
20000 ppm	35	3.22±	1.20	1±	1	26±	13	2±	1	0±	0	3±	2	66±	16	2±	10

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HCL070)

BAIS 4

APPENDIX G 2

HEMATOLOGY : FEMALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	RED BLOOD CELL 1 O ⁶ /μℓ		HEMOGLOBIN g/dℓ		HEMATOCRIT %		MCV f ℓ		MCH p g		MCHC g/dℓ		PLATELET 1 O ³ /μℓ	
Control	35	9.62±	1.48	14.0±	1.9	45.1±	5.0	47.4±	4.1	14.6±	0.8	31.0±	1.2	1021±	324
2000 ppm	21	9.76±	0.49	14.4±	0.7	45.7±	2.1	46.9±	1.4	14.8±	0.3	31.6±	0.5	1148±	217
6325 ppm	28	9.46±	1.26	13.9±	1.8	44.5±	4.7	47.4±	3.0	14.8±	0.5	31.2±	1.1	1076±	318
20000 ppm	26	9.61±	1.28	13.7±	1.9	44.5±	4.9	46.6±	3.0	14.3±	0.5	30.8±	1.3	1076±	384

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	35	2.35±	1.65	1±	1	22±	11	1±	1	0±	0	4±	2	69±	13	3±	6
2000 ppm	21	4.92±	6.65	0±	0	21±	9	2±	2	0±	0	4±	2	73±	11	1±	2
6325 ppm	28	2.57±	1.82	1±	1	23±	13	2±	1	0±	0	4±	2	68±	14	2±	7
20000 ppm	26	3.00±	2.35	1±	1	23±	13	2±	2	0±	0	3±	2	68±	14	3±	6

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HCL070)

BAIS 4

APPENDIX H 1

BIOCHEMISTRY : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	25	5.1±	0.3	2.7±	0.2	1.1±	0.2	0.13±	0.02	204±	33	107±	14	49±	19
2000 ppm	36	5.1±	0.7	2.7±	0.4	1.1±	0.2	0.14±	0.03	192±	41	111±	42	48±	40
6325 ppm	35	5.3±	0.7	2.8±	0.4	1.2±	0.2	0.13±	0.02	198±	34	113±	34	39±	19
20000 ppm	36	5.2±	0.7	2.8±	0.4	1.2±	0.2	0.13±	0.02	190±	45	118±	47	41±	20

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

† Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST I U/l		ALT I U/l		LDH I U/l		ALP I U/l		G-GTP I U/l		CK I U/l	
Control	25	199±	25	70±	77	36±	50	290±	217	125±	24	1±	1	56±	31
2000 ppm	36	202±	65	74±	52	37±	33	314±	146	124±	23	1±	1	54±	25
6325 ppm	35	202±	48	211±	733	258±	1146	461±	871	135±	60	1±	1	75±	91
20000 ppm	36	215±	80	92±	120	47±	57	376±	399	147±	98	1±	1	69±	63

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	25	23.0±	5.1	153±	2	4.2±	0.2	122±	2	8.8±	0.3	6.5±	1.0
2000 ppm	36	24.5±	10.0	153±	2	4.3±	0.7	122±	3	8.8±	0.5	6.3±	1.2
6325 ppm	35	25.5±	12.0	153±	2	4.2±	0.5	121±	3	8.8±	0.5	6.3±	3.1
20000 ppm	36	26.5±	15.2	154±	2	4.2±	0.5	122±	3	8.9±	0.5	6.3±	1.3

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX H 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	36	4.9±	0.5	2.7±	0.3	1.3±	0.2	0.16±	0.08	142±	31	71±	12	30±	18
2000 ppm	23	5.1±	0.5	2.6±	0.6	1.1±	0.3	0.13±	0.02	138±	26	73±	16	29±	9
6325 ppm	30	5.0±	0.6	2.7±	0.3	1.2±	0.3	0.16±	0.07	138±	35	77±	26	31±	20
20000 ppm	26	5.1±	0.6	2.8±	0.3	1.2±	0.3	0.14±	0.04	132±	35	75±	16	34±	20

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST I U / l		ALT I U / l		LDH I U / l		ALP I U / l		G-GTP I U / l		CK I U / l	
Control	36	140±	23	139±	240	53±	92	555±	1023	210±	74	1±	1	118±	124
2000 ppm	23	141±	22	101±	67	44±	32	310±	162	192±	62	1±	1	76±	52*
6325 ppm	30	147±	39	145±	242	39±	29	2029±	6773	179±	66	1±	1	287±	1030
20000 ppm	26	146±	28	138±	189	67±	147	535±	958	257±	99*	1±	1	131±	221

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	36	16.8±	2.3	152±	1	4.3±	0.6	122±	3	8.9±	0.3	6.0±	0.9
2000 ppm	23	16.6±	3.1	152±	2	4.0±	0.3	122±	3	8.9±	0.4	5.6±	1.5
6325 ppm	30	19.6±	11.9	151±	3	4.3±	0.7	121±	4	9.0±	0.7	6.3±	1.5
20000 ppm	26	21.7±	9.8	152±	1	4.2±	0.5	122±	2	9.0±	0.5	6.3±	1.5

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX I 1

URINALYSIS : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Occult blood				CHI			
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+		4+	—	±	+	2+		3+	4+	—	±	+		2+	3+	4+	—		±	+	2+
Control	28	0	3	6	8	7	3	1		0	6	21	1	0	0		28	0	0	0	0	0		9	14	4	1	0	0		26	0	1	0	1
2000 ppm	40	0	1	12	17	8	2	0		0	11	24	4	1	0		40	0	0	0	0	0		17	18	5	0	0	0		32	4	1	2	1
6325 ppm	39	0	2	13	10	8	6	0		0	4	27	7	1	0		39	0	0	0	0	0		16	16	7	0	0	0		31	1	2	3	2
20000 ppm	38	0	4	17	10	6	1	0		0	2	30	5	1	0		38	0	0	0	0	0		6	17	10	5	0	0		36	1	0	0	1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BATS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	28	28	0	0	0	0	0
2000 ppm	40	40	0	0	0	0	0
6325 ppm	39	39	0	0	0	0	0
20000 ppm	38	38	0	0	0	0	0

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BATS 4

APPENDIX I 2

URINALYSIS : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Occult blood					CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+		4+	—	±	+	2+		3+	4+	—	±	+		2+	3+	4+	—	±		+	2+
Control	36	0	0	1	4	5	17	9		0	7	21	6	2	0		36	0	0	0	0	0		5	24	6	1	0	0		30	0	1	1	4
2000 ppm	25	0	1	0	4	2	15	3		0	3	13	9	0	0		25	0	0	0	0	0		2	20	1	2	0	0		19	1	1	1	3
6325 ppm	37	0	1	4	10	5	14	3		0	4	21	9	3	0		37	0	0	0	0	0		5	28	3	1	0	0		29	1	1	0	6
20000 ppm	28	0	2	6	6	5	8	1	*	0	3	15	8	1	1		28	0	0	0	0	0		0	12	9	5	2	0	**	24	0	1	2	1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BATS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
Control	36	36 0 0 0 0
2000 ppm	25	25 0 0 0 0
6325 ppm	37	37 0 0 0 0
20000 ppm	28	28 0 0 0 0

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 4

APPENDIX J 1

GROSS FINDINGS : MALE

ALL ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	2000 ppm	6325 ppm	20000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
skin/app	ulcer		1 (2)	0 (0)	0 (0)	0 (0)
	erosion		1 (2)	2 (4)	0 (0)	0 (0)
	scab		1 (2)	2 (4)	3 (6)	0 (0)
subcutis	edema		1 (2)	0 (0)	2 (4)	0 (0)
	jaundice		0 (0)	0 (0)	1 (2)	0 (0)
	mass		3 (6)	1 (2)	3 (6)	1 (2)
lung	red zone		1 (2)	0 (0)	0 (0)	1 (2)
	nodule		7 (14)	14 (28)	9 (18)	10 (20)
lymph node	enlarged		7 (14)	9 (18)	9 (18)	5 (10)
thymus	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
spleen	enlarged		6 (12)	4 (8)	2 (4)	3 (6)
	white zone		2 (4)	0 (0)	1 (2)	0 (0)
	black zone		1 (2)	2 (4)	0 (0)	0 (0)
	nodule		4 (8)	3 (6)	1 (2)	2 (4)
	deformed		0 (0)	1 (2)	0 (0)	1 (2)
	accentuation of white pulp		0 (0)	0 (0)	4 (8)	1 (2)
heart	white		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (2)
	hypertrophy		0 (0)	0 (0)	0 (0)	1 (2)
	fluid:red		0 (0)	0 (0)	0 (0)	1 (2)
salivary gl	nodule		0 (0)	0 (0)	0 (0)	2 (4)
forestomach	ulcer		0 (0)	1 (2)	0 (0)	0 (0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
gl stomach	thick		1	(2)	1	(2)	1	(2)	4	(8)
small intes	nodule		0	(0)	1	(2)	0	(0)	2	(4)
cecum	nodule		1	(2)	0	(0)	0	(0)	0	(0)
large intes	nodule		2	(4)	0	(0)	0	(0)	0	(0)
liver	enlarged		2	(4)	4	(8)	1	(2)	1	(2)
	pale		0	(0)	1	(2)	0	(0)	0	(0)
	white zone		6	(12)	3	(6)	3	(6)	2	(4)
	red zone		2	(4)	3	(6)	1	(2)	2	(4)
	brown zone		1	(2)	0	(0)	0	(0)	0	(0)
	black zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		13	(26)	13	(26)	22	(44)	11	(22)
	cyst		0	(0)	1	(2)	1	(2)	0	(0)
	adhesion		0	(0)	0	(0)	1	(2)	0	(0)
	enlarged		1	(2)	0	(0)	1	(2)	0	(0)
pancreas	nodule		2	(4)	1	(2)	2	(4)	0	(0)
	cyst		1	(2)	0	(0)	0	(0)	0	(0)
kidney	enlarged		2	(4)	1	(2)	0	(0)	0	(0)
	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	1	(2)	2	(4)	0	(0)
	hydronephrosis		0	(0)	2	(4)	2	(4)	3	(6)
urin bladd	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	thick		0	(0)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
urin bladd	urine:marked retention		3	(6)	4	(8)	0	(0)	0	(0)
thyroid	nodule		0	(0)	1	(2)	0	(0)	0	(0)
testis	enlarged		2	(4)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
epididymis	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		3	(6)	1	(2)	2	(4)	1	(2)
semin ves	brown		0	(0)	1	(2)	0	(0)	0	(0)
	black		0	(0)	3	(6)	2	(4)	1	(2)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	induration		1	(2)	0	(0)	0	(0)	0	(0)
prep/cli gl	enlarged		0	(0)	1	(2)	1	(2)	0	(0)
	nodule		2	(4)	2	(4)	1	(2)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	1	(2)	1	(2)
eye	turbid		0	(0)	2	(4)	0	(0)	0	(0)
Harder gl	enlarged		1	(2)	2	(4)	2	(4)	0	(0)
	white		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	1	(2)	1	(2)	2	(4)
mediastinum	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	mass		1	(2)	0	(0)	0	(0)	1	(2)
peritoneum	mass		0	(0)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
retroperit	nodule		1	(2)	0	(0)	0	(0)	1	(2)
abdominal c	hemorrhage		0	(0)	0	(0)	1	(2)	3	(6)
	ascites		3	(6)	0	(0)	6	(12)	3	(6)
thoracic ca	hemorrhage		1	(2)	0	(0)	0	(0)	2	(4)
	pleural fluid		2	(4)	3	(6)	6	(12)	2	(4)
other	tail:nodule		0	(0)	2	(4)	0	(0)	1	(2)
whole body	anemic		1	(2)	0	(0)	0	(0)	1	(2)

(HPT080)

BAIS 4

APPENDIX J 2

GROSS FINDINGS : MALE DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	2000 ppm	6325 ppm	20000 ppm
			25 (%)	13 (%)	13 (%)	13 (%)
skin/app	ulcer		1 (4)	0 (0)	0 (0)	0 (0)
	erosion		1 (4)	1 (8)	0 (0)	0 (0)
	scab		1 (4)	2 (15)	1 (8)	0 (0)
subcutis	edema		1 (4)	0 (0)	2 (15)	0 (0)
	jaundice		0 (0)	0 (0)	1 (8)	0 (0)
	mass		2 (8)	1 (8)	2 (15)	0 (0)
lung	red zone		1 (4)	0 (0)	0 (0)	1 (8)
	nodule		2 (8)	2 (15)	1 (8)	4 (31)
lymph node	enlarged		4 (16)	3 (23)	5 (38)	1 (8)
spleen	enlarged		6 (24)	1 (8)	2 (15)	1 (8)
	white zone		1 (4)	0 (0)	0 (0)	0 (0)
	black zone		1 (4)	1 (8)	0 (0)	0 (0)
	nodule		3 (12)	2 (15)	0 (0)	1 (8)
heart	white		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (8)
	hypertrophy		0 (0)	0 (0)	0 (0)	1 (8)
	fluid:red		0 (0)	0 (0)	0 (0)	1 (8)
small intes	nodule		0 (0)	1 (8)	0 (0)	1 (8)
large intes	nodule		2 (8)	0 (0)	0 (0)	0 (0)
liver	enlarged		2 (8)	4 (31)	1 (8)	1 (8)
	pale		0 (0)	1 (8)	0 (0)	0 (0)
	white zone		5 (20)	2 (15)	2 (15)	0 (0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	2000 ppm	6325 ppm	20000 ppm
			25 (%)	13 (%)	13 (%)	13 (%)
liver	red zone		2 (8)	1 (8)	0 (0)	1 (8)
	brown zone		1 (4)	0 (0)	0 (0)	0 (0)
	black zone		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		7 (28)	4 (31)	7 (54)	3 (23)
	adhesion		0 (0)	0 (0)	1 (8)	0 (0)
gall bladd	enlarged		1 (4)	0 (0)	1 (8)	0 (0)
pancreas	nodule		2 (8)	0 (0)	1 (8)	0 (0)
kidney	enlarged		2 (8)	1 (8)	0 (0)	0 (0)
	hydronephrosis		0 (0)	1 (8)	0 (0)	1 (8)
urin bladd	thick		0 (0)	1 (8)	0 (0)	0 (0)
	urine:marked retention		3 (12)	4 (31)	0 (0)	0 (0)
testis	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
epididymis	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		2 (8)	0 (0)	1 (8)	0 (0)
semin ves	brown		0 (0)	1 (8)	0 (0)	0 (0)
	nodule		1 (4)	0 (0)	0 (0)	0 (0)
	induration		1 (4)	0 (0)	0 (0)	0 (0)
prep/cli gl	enlarged		0 (0)	1 (8)	0 (0)	0 (0)
	nodule		1 (4)	1 (8)	1 (8)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	0 (0)	1 (8)
Harder gl	enlarged		0 (0)	0 (0)	1 (8)	0 (0)
	white		1 (4)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			25	(%)	13	(%)	13	(%)	13	(%)
Harder gl	nodule		0	(0)	0	(0)	1	(8)	2	(15)
mediastinum	mass		1	(4)	0	(0)	0	(0)	0	(0)
retroperit	nodule		0	(0)	0	(0)	0	(0)	1	(8)
abdominal c	hemorrhage		0	(0)	0	(0)	1	(8)	3	(23)
	ascites		3	(12)	0	(0)	5	(38)	0	(0)
thoracic ca	hemorrhage		1	(4)	0	(0)	0	(0)	2	(15)
	pleural fluid		2	(8)	2	(15)	5	(38)	1	(8)
other	tail:nodule		0	(0)	1	(8)	0	(0)	0	(0)
whole body	anemic		1	(4)	0	(0)	0	(0)	1	(8)

(HPT080)

BAIS 4

APPENDIX J 3

GROSS FINDINGS : MALE SACRIFICED ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			25	(%)	37	(%)	37	(%)	37	(%)
skin/app	erosion		0	(0)	1	(3)	0	(0)	0	(0)
	scab		0	(0)	0	(0)	2	(5)	0	(0)
subcutis	mass		1	(4)	0	(0)	1	(3)	1	(3)
lung	nodule		5	(20)	12	(32)	8	(22)	6	(16)
lymph node	enlarged		3	(12)	6	(16)	4	(11)	4	(11)
thymus	enlarged		0	(0)	0	(0)	0	(0)	1	(3)
spleen	enlarged		0	(0)	3	(8)	0	(0)	2	(5)
	white zone		1	(4)	0	(0)	1	(3)	0	(0)
	black zone		0	(0)	1	(3)	0	(0)	0	(0)
	nodule		1	(4)	1	(3)	1	(3)	1	(3)
	deformed		0	(0)	1	(3)	0	(0)	1	(3)
	accentuation of white pulp		0	(0)	0	(0)	4	(11)	1	(3)
salivary gl	nodule		0	(0)	0	(0)	0	(0)	2	(5)
forestomach	ulcer		0	(0)	1	(3)	0	(0)	0	(0)
gl stomach	thick		1	(4)	1	(3)	1	(3)	4	(11)
small intes	nodule		0	(0)	0	(0)	0	(0)	1	(3)
cecum	nodule		1	(4)	0	(0)	0	(0)	0	(0)
liver	white zone		1	(4)	1	(3)	1	(3)	2	(5)
	red zone		0	(0)	2	(5)	1	(3)	1	(3)
	nodule		6	(24)	9	(24)	15	(41)	8	(22)
	cyst		0	(0)	1	(3)	1	(3)	0	(0)
pancreas	nodule		0	(0)	1	(3)	1	(3)	0	(0)

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ_____	Findings_____	Group Name	Control	2000 ppm	6325 ppm	20000 ppm
		NO. of Animals	25 (%)	37 (%)	37 (%)	37 (%)
pancreas	cyst		1 (4)	0 (0)	0 (0)	0 (0)
kidney	white zone		0 (0)	0 (0)	1 (3)	0 (0)
	nodule		0 (0)	1 (3)	2 (5)	0 (0)
	hydronephrosis		0 (0)	1 (3)	2 (5)	2 (5)
urin bladd	nodule		0 (0)	0 (0)	0 (0)	1 (3)
thyroid	nodule		0 (0)	1 (3)	0 (0)	0 (0)
testis	enlarged		1 (4)	0 (0)	0 (0)	1 (3)
	white zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		0 (0)	1 (3)	0 (0)	0 (0)
epididymis	nodule		1 (4)	1 (3)	1 (3)	1 (3)
semin ves	black		0 (0)	3 (8)	2 (5)	1 (3)
	red zone		0 (0)	0 (0)	0 (0)	1 (3)
prep/cli gl	enlarged		0 (0)	0 (0)	1 (3)	0 (0)
	nodule		1 (4)	1 (3)	0 (0)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	1 (3)	0 (0)
eye	turbid		0 (0)	2 (5)	0 (0)	0 (0)
Harder gl	enlarged		1 (4)	2 (5)	1 (3)	0 (0)
	nodule		0 (0)	1 (3)	0 (0)	0 (0)
mediastinum	nodule		0 (0)	1 (3)	0 (0)	0 (0)
	mass		0 (0)	0 (0)	0 (0)	1 (3)
peritoneum	mass		0 (0)	1 (3)	0 (0)	0 (0)
retroperit	nodule		1 (4)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name		Control		2000 ppm		6325 ppm		20000 ppm	
		NO. of Animals		25	(%)	37	(%)	37	(%)	37	(%)
abdominal c	ascites			0	(0)	0	(0)	1	(3)	3	(8)
thoracic ca	pleural fluid			0	(0)	1	(3)	1	(3)	1	(3)
other	tail:nodule			0	(0)	1	(3)	0	(0)	1	(3)

(HPT080)

BAIS 4

APPENDIX J 4

GROSS FINDINGS : FEMALE

ALL ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	scab		1	(2)	0	(0)	0	(0)	0	(0)
subcutis	edema		5	(10)	5	(10)	3	(6)	8	(16)
	mass		2	(4)	3	(6)	1	(2)	0	(0)
lung	red zone		1	(2)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	1	(2)	3	(6)	7	(14)
lymph node	enlarged		6	(12)	9	(18)	10	(20)	9	(18)
spleen	enlarged		5	(10)	11	(22)	6	(12)	6	(12)
	white zone		1	(2)	1	(2)	0	(0)	1	(2)
	black zone		0	(0)	1	(2)	0	(0)	1	(2)
	nodule		1	(2)	2	(4)	2	(4)	3	(6)
	deformed		0	(0)	1	(2)	0	(0)	0	(0)
	accentuation of white pulp		1	(2)	0	(0)	1	(2)	0	(0)
salivary gl	nodule		0	(0)	0	(0)	1	(2)	1	(2)
forestomach	nodule		0	(0)	0	(0)	1	(2)	0	(0)
gl stomach	nodule		0	(0)	1	(2)	0	(0)	1	(2)
	ulcer		0	(0)	1	(2)	0	(0)	1	(2)
stomach	nodule		1	(2)	0	(0)	0	(0)	0	(0)
small intes	nodule		0	(0)	0	(0)	1	(2)	0	(0)
cecum	nodule		0	(0)	1	(2)	0	(0)	1	(2)
liver	enlarged		4	(8)	4	(8)	2	(4)	6	(12)
	white		1	(2)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control	2000 ppm	6325 ppm	20000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
liver	white zone		11 (22)	5 (10)	4 (8)	9 (18)
	red zone		4 (8)	8 (16)	4 (8)	2 (4)
	nodule		7 (14)	11 (22)	5 (10)	11 (22)
	deformed		1 (2)	0 (0)	0 (0)	0 (0)
pancreas	nodule		1 (2)	1 (2)	2 (4)	0 (0)
kidney	enlarged		1 (2)	2 (4)	1 (2)	0 (0)
	white zone		1 (2)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	3 (6)	0 (0)
	hydronephrosis		0 (0)	1 (2)	0 (0)	3 (6)
urin bladd	urine:marked retention		0 (0)	1 (2)	1 (2)	0 (0)
pituitary	enlarged		1 (2)	2 (4)	5 (10)	1 (2)
	red zone		1 (2)	1 (2)	2 (4)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	1 (2)
thyroid	enlarged		0 (0)	0 (0)	1 (2)	0 (0)
	brown		0 (0)	0 (0)	1 (2)	0 (0)
ovary	enlarged		4 (8)	4 (8)	4 (8)	5 (10)
	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	cyst		13 (26)	10 (20)	13 (26)	12 (24)
uterus	enlarged		1 (2)	0 (0)	0 (0)	1 (2)
	nodule		11 (22)	13 (26)	18 (36)	17 (34)
	dilated lumen		0 (0)	0 (0)	0 (0)	1 (2)
brain	nodule		1 (2)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0449
ANIMAL : MOUSE BSD2F1/Crlj[Crlj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
brain	deformed		0	(0)	1	(2)	0	(0)	0	(0)
periph nerv	nodule		1	(2)	1	(2)	0	(0)	0	(0)
eye	turbid		0	(0)	1	(2)	0	(0)	1	(2)
Harder gl	enlarged		1	(2)	2	(4)	1	(2)	1	(2)
	nodule		0	(0)	1	(2)	1	(2)	1	(2)
muscle	nodule		0	(0)	1	(2)	1	(2)	0	(0)
bone	nodule		0	(0)	0	(0)	1	(2)	0	(0)
mediastinum	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	mass		1	(2)	0	(0)	2	(4)	2	(4)
peritoneum	nodule		1	(2)	1	(2)	1	(2)	0	(0)
	mass		0	(0)	0	(0)	1	(2)	0	(0)
	thick		0	(0)	0	(0)	2	(4)	1	(2)
abdominal c	hemorrhage		3	(6)	2	(4)	0	(0)	3	(6)
	ascites		8	(16)	9	(18)	12	(24)	12	(24)
thoracic ca	hemorrhage		0	(0)	0	(0)	0	(0)	1	(2)
	pleural fluid		5	(10)	10	(20)	5	(10)	9	(18)

APPENDIX J 5

GROSS FINDINGS : FEMALE DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	2000 ppm	6325 ppm	20000 ppm
			14 (%)	27 (%)	19 (%)	24 (%)
subcutis	edema		5 (36)	5 (19)	3 (16)	8 (33)
	mass		0 (0)	2 (7)	1 (5)	0 (0)
lung	red zone		1 (7)	0 (0)	0 (0)	1 (4)
	nodule		0 (0)	1 (4)	1 (5)	2 (8)
lymph node	enlarged		2 (14)	7 (26)	5 (26)	6 (25)
spleen	enlarged		4 (29)	10 (37)	3 (16)	4 (17)
	white zone		0 (0)	1 (4)	0 (0)	0 (0)
	black zone		0 (0)	0 (0)	0 (0)	1 (4)
	nodule		0 (0)	2 (7)	1 (5)	2 (8)
salivary gl	nodule		0 (0)	0 (0)	1 (5)	0 (0)
gl stomach	nodule		0 (0)	1 (4)	0 (0)	0 (0)
small intes	nodule		0 (0)	0 (0)	1 (5)	0 (0)
cecum	nodule		0 (0)	1 (4)	0 (0)	0 (0)
liver	enlarged		4 (29)	4 (15)	2 (11)	6 (25)
	white zone		9 (64)	5 (19)	4 (21)	8 (33)
	red zone		0 (0)	1 (4)	1 (5)	0 (0)
	nodule		1 (7)	5 (19)	2 (11)	6 (25)
pancreas	nodule		1 (7)	1 (4)	0 (0)	0 (0)
kidney	enlarged		1 (7)	2 (7)	0 (0)	0 (0)
	white zone		1 (7)	0 (0)	1 (5)	0 (0)
	nodule		0 (0)	0 (0)	2 (11)	0 (0)
	hydronephrosis		0 (0)	1 (4)	0 (0)	0 (0)

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			14	(%)	27	(%)	19	(%)	24	(%)
urin bladd	urine:marked retention		0	(0)	1	(4)	1	(5)	0	(0)
pituitary	enlarged		0	(0)	2	(7)	2	(11)	1	(4)
thyroid	enlarged		0	(0)	0	(0)	1	(5)	0	(0)
ovary	enlarged		3	(21)	4	(15)	3	(16)	3	(13)
	cyst		0	(0)	5	(19)	0	(0)	4	(17)
uterus	enlarged		1	(7)	0	(0)	0	(0)	1	(4)
	nodule		7	(50)	10	(37)	10	(53)	13	(54)
	dilated lumen		0	(0)	0	(0)	0	(0)	1	(4)
brain	nodule		1	(7)	0	(0)	0	(0)	0	(0)
	deformed		0	(0)	1	(4)	0	(0)	0	(0)
periph nerv	nodule		1	(7)	1	(4)	0	(0)	0	(0)
Harder gl	enlarged		1	(7)	1	(4)	1	(5)	0	(0)
	nodule		0	(0)	1	(4)	1	(5)	1	(4)
muscle	nodule		0	(0)	1	(4)	0	(0)	0	(0)
mediastinum	nodule		0	(0)	1	(4)	0	(0)	0	(0)
	mass		0	(0)	0	(0)	2	(11)	2	(8)
peritoneum	nodule		0	(0)	1	(4)	1	(5)	0	(0)
	mass		0	(0)	0	(0)	1	(5)	0	(0)
	thick		0	(0)	0	(0)	2	(11)	1	(4)
abdominal c	hemorrhage		3	(21)	2	(7)	0	(0)	3	(13)
	ascites		3	(21)	9	(33)	9	(47)	10	(42)
thoracic ca	hemorrhage		0	(0)	0	(0)	0	(0)	1	(4)

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name		Control		2000 ppm		6325 ppm		20000 ppm	
		NO. of Animals		14	(%)	27	(%)	19	(%)	24	(%)
thoracic ca	pleural fluid			2	(14)	8	(30)	4	(21)	7	(29)

(HPT080)

BAIS 4

APPENDIX J 6

GROSS FINDINGS : FEMALE SACRIFICED ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Cri:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			36	(%)	23	(%)	31	(%)	26	(%)
skin/app	nodule		0	(0)	0	(0)	0	(0)	1	(4)
	scab		1	(3)	0	(0)	0	(0)	0	(0)
subcutis	mass		2	(6)	1	(4)	0	(0)	0	(0)
lung	nodule		1	(3)	0	(0)	2	(6)	5	(19)
lymph node	enlarged		4	(11)	2	(9)	5	(16)	3	(12)
spleen	enlarged		1	(3)	1	(4)	3	(10)	2	(8)
	white zone		1	(3)	0	(0)	0	(0)	1	(4)
	black zone		0	(0)	1	(4)	0	(0)	0	(0)
	nodule		1	(3)	0	(0)	1	(3)	1	(4)
	deformed		0	(0)	1	(4)	0	(0)	0	(0)
	accentuation of white pulp		1	(3)	0	(0)	1	(3)	0	(0)
salivary gl	nodule		0	(0)	0	(0)	0	(0)	1	(4)
forestomach	nodule		0	(0)	0	(0)	1	(3)	0	(0)
gl stomach	nodule		0	(0)	0	(0)	0	(0)	1	(4)
	ulcer		0	(0)	1	(4)	0	(0)	1	(4)
stomach	nodule		1	(3)	0	(0)	0	(0)	0	(0)
cecum	nodule		0	(0)	0	(0)	0	(0)	1	(4)
liver	white		1	(3)	0	(0)	0	(0)	0	(0)
	white zone		2	(6)	0	(0)	0	(0)	1	(4)
	red zone		4	(11)	7	(30)	3	(10)	2	(8)
	nodule		6	(17)	6	(26)	3	(10)	5	(19)
	deformed		1	(3)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		2000 ppm		6325 ppm		20000 ppm	
			36	(%)	23	(%)	31	(%)	26	(%)
pancreas	nodule		0	(0)	0	(0)	2	(6)	0	(0)
kidney	enlarged		0	(0)	0	(0)	1	(3)	0	(0)
	nodule		0	(0)	0	(0)	1	(3)	0	(0)
	hydronephrosis		0	(0)	0	(0)	0	(0)	3	(12)
pituitary	enlarged		1	(3)	0	(0)	3	(10)	0	(0)
	red zone		1	(3)	1	(4)	2	(6)	0	(0)
	nodule		0	(0)	1	(4)	0	(0)	1	(4)
thyroid	brown		0	(0)	0	(0)	1	(3)	0	(0)
ovary	enlarged		1	(3)	0	(0)	1	(3)	2	(8)
	nodule		1	(3)	0	(0)	0	(0)	0	(0)
	cyst		13	(36)	5	(22)	13	(42)	8	(31)
uterus	nodule		4	(11)	3	(13)	8	(26)	4	(15)
eye	turbid		0	(0)	1	(4)	0	(0)	1	(4)
Harder gl	enlarged		0	(0)	1	(4)	0	(0)	1	(4)
muscle	nodule		0	(0)	0	(0)	1	(3)	0	(0)
bone	nodule		0	(0)	0	(0)	1	(3)	0	(0)
mediastinum	mass		1	(3)	0	(0)	0	(0)	0	(0)
peritoneum	nodule		1	(3)	0	(0)	0	(0)	0	(0)
abdominal c	ascites		5	(14)	0	(0)	3	(10)	2	(8)
thoracic ca	pleural fluid		3	(8)	2	(9)	1	(3)	2	(8)

APPENDIX K 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	25	48.0± 5.0	0.012±	0.003	0.282±	0.254	0.211±	0.018	0.219±	0.056	0.630±	0.048
2000 ppm	37	46.5± 8.3	0.012±	0.003	0.222±	0.044	0.218±	0.023	0.265±	0.162	0.656±	0.087
6325 ppm	37	44.0± 7.2	0.011±	0.003	0.215±	0.029	0.213±	0.024	0.279±	0.240	0.728±	0.462
20000 ppm	37	46.4± 6.8	0.012±	0.003	0.263±	0.214	0.215±	0.034	0.234±	0.081	0.925±	1.289

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	25	0.121±	0.136	1.633±	0.188	0.445±	0.021
2000 ppm	37	0.193±	0.350	1.716±	0.427	0.438±	0.017
6325 ppm	37	0.105±	0.092	2.000±	0.951	0.440±	0.021
20000 ppm	37	0.178±	0.348	1.838±	0.678	0.436±	0.012

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 4

APPENDIX L 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	36	30.9± 3.9	0.045± 0.009	0.382± 0.582	0.539± 0.094	0.655± 0.094	1.373± 0.166
2000 ppm	23	30.8± 3.4	0.043± 0.009	0.215± 0.101	0.548± 0.055	0.660± 0.096	1.426± 0.122
6325 ppm	31	32.4± 4.1	0.043± 0.006	0.507± 0.826	0.535± 0.142	0.663± 0.170	1.485± 0.562
20000 ppm	26	29.4± 4.0	0.047± 0.010	0.462± 0.767	0.573± 0.083	0.735± 0.140	1.573± 0.416*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	36	0.596± 0.564	5.073± 2.059	1.512± 0.187
2000 ppm	23	0.501± 0.330	4.512± 0.536	1.521± 0.177
6325 ppm	31	0.756± 1.119	4.719± 1.406	1.450± 0.224
20000 ppm	26	0.757± 1.014	5.531± 3.193	1.572± 0.192

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX L 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	25	48.0± 5.0	0.026± 0.006	0.591± 0.516	0.445± 0.051	0.461± 0.124	1.328± 0.190
2000 ppm	37	46.5± 8.3	0.027± 0.010	0.487± 0.112	0.489± 0.154	0.619± 0.557	1.482± 0.613
6325 ppm	37	44.0± 7.2	0.027± 0.007	0.503± 0.129	0.493± 0.074*	0.704± 0.858	1.737± 1.373**
20000 ppm	37	46.4± 6.8	0.026± 0.008	0.596± 0.578	0.469± 0.077	0.523± 0.234	2.036± 2.849

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	25	0.275± 0.387	3.433± 0.497	0.938± 0.113
2000 ppm	37	0.475± 1.005	3.778± 1.042	0.985± 0.265
6325 ppm	37	0.251± 0.240	4.678± 2.487*	1.032± 0.200
20000 ppm	37	0.448± 1.020	4.118± 2.058	0.962± 0.162

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX K 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	36	30.9± 3.9	0.014±	0.003	0.117±	0.170	0.164±	0.023	0.200±	0.020	0.420±	0.040
2000 ppm	23	30.8± 3.4	0.013±	0.003	0.067±	0.035	0.168±	0.015	0.201±	0.013	0.438±	0.048
6325 ppm	31	32.4± 4.1	0.014±	0.002	0.163±	0.261	0.170±	0.031	0.211±	0.043	0.471±	0.144
20000 ppm	26	29.4± 4.0	0.014±	0.003	0.134±	0.214	0.166±	0.021	0.214±	0.041	0.454±	0.085

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BATS 4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	36	0.186±	0.187	1.572±	0.724	0.460±	0.019
2000 ppm	23	0.156±	0.112	1.388±	0.206	0.464±	0.017
6325 ppm	31	0.245±	0.363	1.511±	0.396	0.462±	0.024
20000 ppm	26	0.217±	0.285	1.649±	1.159	0.455±	0.017

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

(HCL040)

BAIS 4

APPENDIX M 1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
ALL ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ_____	Findings_____	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	ulcer		1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	1 (2)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	scar:dermis		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
subcutis			<50>				<50>				<50>				<50>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	abscess		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	exudate		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ_____	Findings_____	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	eosinophilic change:olfactory epithelium	15 (30)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)	15 (30)	1 (2)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium	4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	1 (2)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	7 (14)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	9 (18)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasopharynx			<50>				<50>				<50>				<50>			
	eosinophilic change	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
lung			<50>				<50>				<50>				<50>			
	hemorrhage	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<50>				<50>				<50>				<50>			
	thrombus		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<50>				<50>				<50>				<50>			
	granulopoiesis:increased		4	0	0	0	3	0	0	0	3	0	0	0	5	0	0	0
			(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
lymph node			<50>				<50>				<50>				<50>			
	lymphadenitis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	deposit of melanin	2	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis	2	2	0	0	4	0	0	0	6	0	0	0	6	1	0	0	0
		(4)	(4)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(0)
	follicular hyperplasia	2	0	0	0	2	0	0	0	3	0	0	0	5	0	0	0	0
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	thrombus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	mineralization	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)
	myocardial fibrosis	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
(Digestive system)																		
tooth			<50>				<50>				<50>				<50>			
	dysplasia	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<50>				<50>				<50>				<50>			
	erosion:forestomach		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:glandular stomach		14	0	0	0	12	0	0	0	15	0	0	0	18	0	0	0
			(28)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(36)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<50>				<50>				<50>				<50>			
	angiectasis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study				Control				2000 ppm				6325 ppm				20000 ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<50>				<50>				<50>				<50>				<50>			
	granulation	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	clear cell focus	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	biliary cyst	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd		<50>				<50>				<50>				<50>				<50>			
	dilatation	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	infarct	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study				Control				2000 ppm				6325 ppm				20000 ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	cyst	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet	3	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	basophilic change	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of amyloid	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hydronephrosis	2	1	0	0	1	0	1	0	5	0	0	0	3	0	0	0	3	0	0	0
		(4)	(2)	(0)	(0)	(2)	(0)	(2)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Organ_____	Findings_____	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	mineralization:papilla		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd	dilatation		<50>				<50>				<50>				<50>			
		1	0	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(4)	(0)	(2)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	cyst		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		<50>				<50>				<50>				<50>			
		4	0	0	0	6	0	0	0	0	0	0	0	4	0	0	0	0
		(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)
adrenal	spindle-cell hyperplasia		<50>				<50>				<50>				<50>			
		2	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0	0
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)
	hyperplasia:cortical cell		<50>				<50>				<50>				<50>			
		3	0	0	0	4	0	0	0	3	0	0	0	4	0	0	0	0
		(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control				2000 ppm				6325 ppm				20000 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
epididymis	spermatogenic granuloma		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
semin ves	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization		1	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
prep/cli gl	cyst		<50>				<50>				<50>				<50>			
			2	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<50>				<50>				<50>				<50>			
			22	0	0	0	31	0	0	0	23	0	0	0	25	0	0	0
			(44)	(0)	(0)	(0)	(62)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(50)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control				2000 ppm				6325 ppm				20000 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye			<50>				<50>				<50>				<50>			
	cataract		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<50>				<50>				<50>				<50>			
	hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle			<50>				<50>				<50>				<50>			
	mineralization		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BAIS4

APPENDIX M 2

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 13				6325 ppm 13				20000 ppm 13			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app	ulcer		<25>				<13>				<13>				<13>			
		1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	
		(4)	(4)	(0)	(0)	(8)	(0)	(8)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
scar:dermis		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
	subcutis	abscess		<25>				<13>				<13>				<13>		
0			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(0)			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
(Respiratory system)																		
nasal cavit	eosinophilic change:olfactory epithelium		<25>				<13>				<13>				<13>			
		4	0	0	0	0	0	0	0	1	1	0	0	3	0	0	0	
		(16)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(23)	(0)	(0)	(0)	
eosinophilic change:respiratory epithelium		0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(15)	(0)	(0)	(0)		
	respiratory metaplasia:olfactory epithelium		3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
(12)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)		

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 13				6325 ppm 13				20000 ppm 13			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	respiratory metaplasia:gland		<25>				<13>				<13>				<13>			
			0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
nasopharynx	eosinophilic change		<25>				<13>				<13>				<13>			
			1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung	hemorrhage		<25>				<13>				<13>				<13>			
			1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus		<25>				<13>				<13>				<13>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow	granulopoiesis:increased		<25>				<13>				<13>				<13>			
			4	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(16)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
spleen	deposit of melanin		<25>				<13>				<13>				<13>			
			2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

		Group Name No. of Animals on Study				Control 25				2000 ppm 13				6325 ppm 13				20000 ppm 13			
Organ_____	Findings_____	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
{Hematopoietic system}																					
spleen		<25>				<13>				<13>				<13>							
	extramedullary hematopoiesis	1	2	0	0	4	0	0	0 *	4	0	0	0 *	5	1	0	0 *				
		(4)	(8)	(0)	(0)	(31)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(38)	(8)	(0)	(0)				
{Circulatory system}																					
heart		<25>				<13>				<13>				<13>							
	thrombus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)				
	mineralization	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0				
		(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)				
	myocardial fibrosis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)				
{Digestive system}																					
tooth		<25>				<13>				<13>				<13>							
	dysplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0				
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 13				6325 ppm 13				20000 ppm 13			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach	erosion:glandular stomach		<25>				<13>				<13>				<13>			
			0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	hyperplasia:glandular stomach		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
liver	angiectasis		<25>				<13>				<13>				<13>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd	dilatation		<25>				<13>				<13>				<13>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	25				13				13				13			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<25>				<13>				<13>				<13>			
	infarct		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	hyaline droplet		3	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0
			(12)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of amyloid		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hydronephrosis		0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	
			(0)	(4)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
urin bladd			<25>				<13>				<13>				<13>			
	dilatation		1	0	2	0	1	0	3	0	0	0	0	0	0	0	0	
			(4)	(0)	(8)	(0)	(8)	(0)	(23)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Endocrine system}																		
pituitary			<25>				<13>				<13>				<13>			
	cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 13				6325 ppm 13				20000 ppm 13			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	Rathke pouch		<25>				<13>				<13>				<13>			
			1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
adrenal	hyperplasia:cortical cell		<25>				<13>				<13>				<13>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
semin ves	mineralization		<25>				<13>				<13>				<13>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl	cyst		<25>				<13>				<13>				<13>			
			1	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<25>				<13>				<13>				<13>			
			13	0	0	0	9	0	0	0	4	0	0	0	5	0	0	0
			(52)	(0)	(0)	(0)	(69)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(38)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name				Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study				25				13				13				13			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	hyperplasia	<25>				<13>				<13>				<13>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)

{Musculoskeletal system}

muscle	mineralization	<25>				<13>				<13>				<13>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BAIS4

APPENDIX M 3

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade				Control 25				2000 ppm 37				6325 ppm 37				20000 ppm 37			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																					
skin/app		<25>				<37>				<37>				<37>				<37>			
	ulcer	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scar:dermis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	epidermal cyst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
subcutis		<25>				<37>				<37>				<37>				<37>			
	hemorrhage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
{Respiratory system}																					
nasal cavit		<25>				<37>				<37>				<37>				<37>			
	exudate	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium	11	0	0	0	14	0	0	0	14	0	0	0	14	0	0	0	11	0	0	0
		(44)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(30)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 37				6325 ppm 37				20000 ppm 37			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	eosinophilic change:respiratory epithelium		<25>				<37>				<37>				<37>			
			4	0	0	0	5	0	1	0	2	0	0	0	1	0	0	0
			(16)	(0)	(0)	(0)	(14)	(0)	(3)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		4	0	0	0	6	0	0	0	8	0	0	0	3	0	0	0
			(16)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	respiratory metaplasia:gland		9	0	0	0	6	0	0	0	8	0	0	0	5	0	0	0
			(36)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx	eosinophilic change		<25>				<37>				<37>				<37>			
			0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)
lung	lymphocytic infiltration		<25>				<37>				<37>				<37>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar alveolar cell hyperplasia		1	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 37				6325 ppm 37				20000 ppm 37			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow	granulopoiesis:increased		<25>				<37>				<37>				<37>			
			0	0	0	0	2	0	0	0	2	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(11)	(0)	(0)	(0)
lymph node	lymphadenitis		<25>				<37>				<37>				<37>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
spleen	deposit of melanin		<25>				<37>				<37>				<37>			
			0	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	follicular hyperplasia		2	0	0	0	2	0	0	0	3	0	0	0	5	0	0	0
			(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
{Circulatory system}																		
heart	myocardial fibrosis		<25>				<37>				<37>				<37>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	25				37				37				37			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Digestive system)																		
tooth			<25>				<37>				<37>				<37>			
	dysplasia		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
stomach			<25>				<37>				<37>				<37>			
	erosion:forestomach		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		13	0	0	0	12	0	0	0	14	0	0	0	17	0	0	0
		(52)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	
	squamous cell hyperplasia:forestomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<25>				<37>				<37>				<37>			
	necrosis:focal		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	clear cell focus		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 5

Organ_____	Findings_____	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	25				37				37				37			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<25>				<37>				<37>				<37>			
	acidophilic cell focus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus	1	0	0	0	2	0	0	0	0	0	0	0	0	4	0	0	0
		(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)
	biliary cyst	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<25>				<37>				<37>				<37>			
	infarct	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)
	basophilic change	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 37				6325 ppm 37				20000 ppm 37			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<25>				<37>				<37>				<37>			
	inflammation		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp		0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	hydronephrosis		2	0	0	0	1	0	0	0	5	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	mineralization:papilla		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<25>				<37>				<37>				<37>			
	Rathke pouch		3	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0
			(12)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
adrenal			<25>				<37>				<37>				<37>			
	spindle-cell hyperplasia		2	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0
			(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				2000 ppm 37				6325 ppm 37				20000 ppm 37			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal	hyperplasia:cortical cell		<25>				<37>				<37>				<37>			
			3	0	0	0	3	0	0	0	3	0	0	0	4	0	0	0
			(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(11)	(0)	(0)	(0)
{Reproductive system}																		
epididymis	spermatogenic granuloma		<25>				<37>				<37>				<37>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
semin ves	hemorrhage		<25>				<37>				<37>				<37>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	mineralization		<25>				<37>				<37>				<37>			
			0	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
prep/cli gl	cyst		<25>				<37>				<37>				<37>			
			1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<25>				<37>				<37>				<37>			
			9	0	0	0	22	0	0	0	19	0	0	0	20	0	0	0
			(36)	(0)	(0)	(0)	(59)	(0)	(0)	(0)	(51)	(0)	(0)	(0)	(54)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 8

Organ	Findings	Group Name				Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study				25				37				37				37			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

		<25>				<37>				<37>				<37>			
eye	cataract	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe

< a > a : Number of animals examined at the site

b b : Number of animals with lesion

(c) c : b / a * 100

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

(HPT150)

BAIS4

APPENDIX M 4

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
ALL ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	scar:dermis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	exudate		2	0	0	0	1	0	0	0	4	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		5	0	0	0	8	0	1	0	4	2	0	0	3	0	0	0
			(10)	(0)	(0)	(0)	(16)	(0)	(2)	(0)	(8)	(4)	(0)	(0)	(6)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		15	3	1	0	12	0	0	0	18	2	0	0	19	0	0	0
			(30)	(6)	(2)	(0)	(24)	(0)	(0)	(0)	(36)	(4)	(0)	(0)	(38)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		3	0	0	0	5	0	0	0	4	0	0	0	4	0	0	0
			(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	respiratory metaplasia:gland		5	0	0	0	4	0	0	0	7	0	0	0	6	0	0	0
			(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
nasopharynx			<50>				<50>				<50>				<50>			
	exudate		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																		
< a > a : Number of animals examined at the site																		
b b : Number of animals with lesion																		
(c) c : b / a * 100																		
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasopharynx	eosinophilic change		<50>				<50>				<50>				<50>			
		4	0	0	0	4	0	0	0	5	0	0	0	1	0	0	0	
		(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	inflammation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
lung	congestion		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hemorrhage		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
	edema		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	thrombus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
{Hematopoietic system}																		
bone marrow	granulation		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<50>				<50>				<50>				<50>			
	decreased hematopoiesis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulopoiesis:increased		2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
lymph node			<50>				<50>				<50>				<50>			
	lymphadenitis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<50>				<50>				<50>				<50>			
	deposit of melanin		6	0	0	0	3	0	0	0	2	0	0	0	5	0	0	0
			(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	extramedullary hematopoiesis		9	0	0	0	8	0	0	0	8	0	0	0	13	0	0	0
			(18)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(26)	(0)	(0)	(0)
	follicular hyperplasia		1	0	0	0	2	0	0	0	1	0	0	0	3	0	0	0
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe

< a > a : Number of animals examined at the site

b : Number of animals with lesion

(c) c : b / a * 100

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<50>				<50>				<50>				<50>			
	thrombus		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	myocardial fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	arteritis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
{Digestive system}																		
tongue			<50>				<50>				<50>				<50>			
	arteritis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
stomach			<50>				<50>				<50>				<50>			
	ulcer:forestomach		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 15

Organ_____	Findings_____	Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<50>				<50>				<50>				<50>			
	erosion:glandular stomach	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	hyperplasia:glandular stomach	10	0	0	0	10	0	0	0	10	0	0	0	8	0	0	0	
		(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	
	squamous cell hyperplasia:forestomach	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
large intes			<50>				<50>				<50>				<50>			
	inflammation	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
liver			<50>				<50>				<50>				<50>			
	angiectasis	3	0	0	0	5	3	0	0	3	0	0	0	1	0	0	0	
		(6)	(0)	(0)	(0)	(10)	(6)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	necrosis:focal	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	granulation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	clear cell focus		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	biliary cyst		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	infarct		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		10	0	0	0	6	0	0	0	9	0	0	0	13	0	0	0
			(20)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(26)	(0)	(0)	(0)
	hyaline cast		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				6325 ppm 50				20000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	inflammatory polyp		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hydronephrosis		0	1	0	0	2	0	0	0	2	0	0	0	4	0	0	0
			(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd			<50>				<50>				<50>				<50>			
	dilatation		0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<50>				<50>				<50>				<50>			
	cyst		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia		5	0	0	0	4	0	0	0	6	0	0	0	5	0	0	0
			(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 18

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<50>				<50>				<50>				<50>			
	Rathke pouch		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid			<50>				<50>				<50>				<50>			
	cystic thyroid follicle		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)
adrenal			<50>				<50>				<50>				<50>			
	spindle-cell hyperplasia		10	0	0	0	9	0	0	0	9	0	0	0	10	0	0	0
			(20)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<50>				<50>				<50>				<50>			
	thrombus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
			<50>				<50>				<50>				<50>			
	cyst		13	2	0	0	9	0	0	0	11	0	0	0	11	1	0	0
			(26)	(4)	(0)	(0)	(18)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(22)	(2)	(0)	(0)
uterus			<50>				<50>				<50>				<50>			
	thrombus		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 19

		Group Name No. of Animals on Study Grade	Control 50				2000 ppm 50				5325 ppm 50				20000 ppm 50			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
(Reproductive system)																		
uterus			<50>				<50>				<50>				<50>			
	cystic endometrial hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Nervous system)																		
brain			<50>				<50>				<50>				<50>			
	mineralization		28 (56)	0 (0)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	0 (0)	23 (46)	0 (0)	0 (0)
	gliosis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spinal cord			<50>				<50>				<50>				<50>			
	gliosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	cataract		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 20

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
Harder gl			<50>				<50>				<50>				<50>			
	degeneration		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Body cavities}																		
peritoneum			<50>				<50>				<50>				<50>			
	hemorrhage		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		
(HPT150)																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<14>				<27>				<19>				<24>			
	eosinophilic change:olfactory epithelium		1 (7)	0 (0)	0 (0)	0 (0)	4 (15)	0 (0)	1 (4)	0 (0)	0 (0)	2 (11)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		1 (7)	0 (0)	1 (7)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	5 (26)	1 (5)	0 (0)	0 (0)	6 (25)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	4 (15)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		2 (14)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	3 (16)	0 (0)	0 (0)	0 (0)	4 (17)	0 (0)	0 (0)	0 (0)
nasopharynx			<14>				<27>				<19>				<24>			
	eosinophilic change		1 (7)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	4 (21)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
lung			<14>				<27>				<19>				<24>			
	congestion		1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<14>				<27>				<19>				<24>			
	edema		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<14>				<27>				<19>				<24>			
	granulopoiesis:increased		2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(14)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<14>				<27>				<19>				<24>			
	lymphadenitis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<14>				<27>				<19>				<24>			
	deposit of melanin		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		7	0	0	0	8	0	0	0	6	0	0	0	11	0	0	0
			(50)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(46)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<14>				<27>				<19>				<24>			
	follicular hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Circulatory system}																		
heart			<14>				<27>				<19>				<24>			
	thrombus		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	mineralization		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tongue			<14>				<27>				<19>				<24>			
	arteritis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<14>				<27>				<19>				<24>			
	hyperplasia:glandular stomach		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 11

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	14				27				19				24			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Digestive system}																		
stomach			<14>				<27>				<19>				<24>			
	squamous cell hyperplasia:forestomach		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes			<14>				<27>				<19>				<24>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<14>				<27>				<19>				<24>			
	necrosis:focal		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<14>				<27>				<19>				<24>			
	hyaline droplet		8	0	0	0	6	0	0	0	7	0	0	0	12	0	0	0
			(57)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(37)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	hyaline cast		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 12

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	14				27				19				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<14>				<27>				<19>				<24>			
	hydronephrosis		0 (0)	1 (7)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	tubular necrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
urin bladd			<14>				<27>				<19>				<24>			
	dilatation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Endocrine system}																		
pituitary			<14>				<27>				<19>				<24>			
	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
	Rathke pouch		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal			<14>				<27>				<19>				<24>			
	spindle cell hyperplasia		2 (14)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 13

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	14				27				19				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
ovary			<14>				<27>				<19>				<24>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)
	cyst		1	0	0	0	4	0	0	0	0	0	0	0	3	0	0	0
			(7)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
(Nervous system)																		
brain			<14>				<27>				<19>				<24>			
	mineralization		7	0	0	0	8	0	0	0	6	0	0	0	9	0	0	0
			(50)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(38)	(0)	(0)	(0)
	gliosis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
Harder gl			<14>				<27>				<19>				<24>			
	degeneration		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

APPENDIX M 5

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade				Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<14>				<27>				<19>				<24>							
	eosinophilic change:olfactory epithelium	1	0	0	0	4	0	1	0	0	2	0	0	1	0	0	0	4	0	0	0
		(7)	(0)	(0)	(0)	(15)	(0)	(4)	(0)	(0)	(11)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	1	0	1	0	3	0	0	0	5	1	0	0	6	0	0	0	25	0	0	0
		(7)	(0)	(7)	(0)	(11)	(0)	(0)	(0)	(26)	(5)	(0)	(0)	(25)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland	2	0	0	0	3	0	0	0	3	0	0	0	4	0	0	0	17	0	0	0
		(14)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx		<14>				<27>				<19>				<24>							
	eosinophilic change	1	0	0	0	3	0	0	0	4	0	0	0	1	0	0	0	4	0	0	0
		(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung		<14>				<27>				<19>				<24>							
	congestion	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 9

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	14				27				19				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
lung			<14>				<27>				<19>				<24>			
	edema		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Hematopoietic system)																		
bone marrow			<14>				<27>				<19>				<24>			
	granulopoiesis:increased		2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(14)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<14>				<27>				<19>				<24>			
	lymphadenitis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<14>				<27>				<19>				<24>			
	deposit of melanin		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		7	0	0	0	8	0	0	0	6	0	0	0	11	0	0	0
			(50)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(46)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<14>				<27>				<19>				<24>			
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<14>				<27>				<19>				<24>			
	thrombus		1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
tongue			<14>				<27>				<19>				<24>			
	arteritis		1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach			<14>				<27>				<19>				<24>			
	hyperplasia:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 11

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Digestive system}																		
stomach			<14>				<27>				<19>				<24>			
	squamous cell hyperplasia:forestomach		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes			<14>				<27>				<19>				<24>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<14>				<27>				<19>				<24>			
	necrosis:focal		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
 {Urinary system}																		
kidney			<14>				<27>				<19>				<24>			
	hyaline droplet		8	0	0	0	6	0	0	0	7	0	0	0	12	0	0	0
		(57)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(37)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	
	hyaline cast		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 14				2000 ppm 27				6325 ppm 19				20000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	hydronephrosis		<14>				<27>				<19>				<24>			
		0	1	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(7)	(0)	(0)	(7)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd	dilatation		<14>				<27>				<19>				<24>			
		0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	hyperplasia		<14>				<27>				<19>				<24>			
		0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)
	Rathke pouch		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	spindle cell hyperplasia		<14>				<27>				<19>				<24>			
		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0
			(14)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 13

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	14				27				19				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary			<14>				<27>				<19>				<24>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)
	cyst		1	0	0	0	4	0	0	0	0	0	0	0	3	0	0	0
			(7)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
{Nervous system}																		
brain			<14>				<27>				<19>				<24>			
	mineralization		7	0	0	0	8	0	0	0	6	0	0	0	9	0	0	0
			(50)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(38)	(0)	(0)	(0)
	gliosis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
Harder gl			<14>				<27>				<19>				<24>			
	degeneration		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

APPENDIX M 6

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<36>				<23>				<31>				<26>			
	scar:dermis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<36>				<23>				<31>				<26>			
	exudate		2	0	0	0	1	0	0	0	4	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		4	0	0	0	4	0	0	0	4	0	0	0	2	0	0	0
			(11)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		14	3	0	0	9	0	0	0	13	1	0	0	13	0	0	0
			(39)	(8)	(0)	(0)	(39)	(0)	(0)	(0)	(42)	(3)	(0)	(0)	(50)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		3	0	0	0	1	0	0	0	3	0	0	0	4	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
	respiratory metaplasia:gland		3	0	0	0	1	0	0	0	4	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
nasopharynx			<36>				<23>				<31>				<26>			
	exudate		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasopharynx			<36>				<23>				<31>				<26>			
	eosinophilic change		3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<36>				<23>				<31>				<26>			
	thrombus		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<36>				<23>				<31>				<26>			
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	decreased hematopoiesis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 11

		Group Name No. of Animals on Study	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26				
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Hematopoietic system)																			
bone marrow			<36>				<23>				<31>				<26>				
	granulopoiesis:increased		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
lymph node			<36>				<23>				<31>				<26>				
	follicular hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
spleen			<36>				<23>				<31>				<26>				
	deposit of melanin		6	0	0	0	3	0	0	0	1	0	0	0	4	0	0	0	
				(17)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
			<36>				<23>				<31>				<26>				
	extramedullary hematopoiesis		2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	
				(6)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
			<36>				<23>				<31>				<26>				
follicular hyperplasia		1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0		
			(3)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
(Circulatory system)																			
heart			<36>				<23>				<31>				<26>				
	myocardial fibrosis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart	arteritis		<36>				<23>				<31>				<26>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
(Digestive system)																		
stomach	ulcer:forestomach		<36>				<23>				<31>				<26>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	erosion:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
(0)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	
	hyperplasia:glandular stomach		10	0	0	0	9	0	0	0	9	0	0	0	7	0	0	0
		(28)	(0)	(0)	(0)	(0)	(39)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(27)	(0)	(0)	(0)
liver	angiectasis		<36>				<23>				<31>				<26>			
		3	0	0	0	5	3	0	0 *	3	0	0	0	1	0	0	0	
		(8)	(0)	(0)	(0)	(22)	(13)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
	granulation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

(HPT150)

BAIS4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<36>				<23>				<31>				<26>			
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	clear cell focus		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	biliary cyst		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<36>				<23>				<31>				<26>			
	infarct		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	inflammatory polyp		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(15)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 14

		Group Name	Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study	36				23				31				26			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Endocrine system}																		
pituitary			<36>				<23>				<31>				<26>			
	cyst		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia		5	0	0	0	2	0	0	0	6	0	0	0	4	0	0	0
			(14)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
	Rathke pouch		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
thyroid			<36>				<23>				<31>				<26>			
	cystic thyroid follicle		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
adrenal			<36>				<23>				<31>				<26>			
	spindle-cell hyperplasia		8	0	0	0	7	0	0	0	8	0	0	0	9	0	0	0
		(22)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	(35)	(0)	(0)	(0)	
<hr/>																		
{Reproductive system}																		
ovary			<36>				<23>				<31>				<26>			
	thrombus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 36				2000 ppm 23				6325 ppm 31				20000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary	cyst		<36>				<23>				<31>				<26>			
			12	2	0	0	5	0	0	0	11	0	0	0	8	1	0	0
			(33)	(6)	(0)	(0)	(22)	(0)	(0)	(0)	(35)	(0)	(0)	(0)	(31)	(4)	(0)	(0)
uterus	thrombus		<36>				<23>				<31>				<26>			
			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	cystic endometrial hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<36>				<23>				<31>				<26>			
			21	0	0	0	14	0	0	0	13	0	0	0	14	0	0	0
			(58)	(0)	(0)	(0)	(61)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(54)	(0)	(0)	(0)
spinal cord	gliosis		<36>				<23>				<31>				<26>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	cataract		<36>				<23>				<31>				<26>			
			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 16

		Control				2000 ppm				6325 ppm				20000 ppm			
		No. of Animals on Study				23				31				26			
		Grade															
Organ	Findings	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																	
Harder gl		<36>				<23>				<31>				<26>			
	hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Body cavities}																	
peritoneum		<36>				<23>				<31>				<26>			
	hemorrhage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BAIS4

APPENDIX N 1

NUMBER OF ANIMALS WITH TUMORS
AND NUMBER OF TUMORS-TIME RELATED : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 1

Time-related Weeks	Items	Group Name	Control	2000 ppm	6325 ppm	20000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		5	3	2	2
	NO. OF ANIMALS WITH TUMORS		3	3	2	2
	NO. OF ANIMALS WITH SINGLE TUMORS		3	3	1	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	1	0
	NO. OF BENIGN TUMORS		0	1	1	0
	NO. OF MALIGNANT TUMORS		3	2	2	2
	NO. OF TOTAL TUMORS		3	3	3	2
79 - 104	NO. OF EXAMINED ANIMALS		20	10	11	11
	NO. OF ANIMALS WITH TUMORS		19	10	10	9
	NO. OF ANIMALS WITH SINGLE TUMORS		13	7	4	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	3	6	5
	NO. OF BENIGN TUMORS		7	4	7	5
	NO. OF MALIGNANT TUMORS		18	9	10	10
	NO. OF TOTAL TUMORS		25	13	17	15
105 - 105	NO. OF EXAMINED ANIMALS		25	37	37	37
	NO. OF ANIMALS WITH TUMORS		17	26	28	22
	NO. OF ANIMALS WITH SINGLE TUMORS		10	12	17	11
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	14	11	11
	NO. OF BENIGN TUMORS		13	26	25	16
	NO. OF MALIGNANT TUMORS		13	21	18	18
	NO. OF TOTAL TUMORS		26	47	43	34

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 2

Time-related Weeks	Items	Group Name	Control	2000 ppm	6325 ppm	20000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		39	39	40	33
	NO. OF ANIMALS WITH SINGLE TUMORS		26	22	22	17
	NO. OF ANIMALS WITH MULTIPLE TUMORS		13	17	18	16
	NO. OF BENIGN TUMORS		20	31	33	21
	NO. OF MALIGNANT TUMORS		34	32	30	30
	NO. OF TOTAL TUMORS		54	63	63	51

(HPT070)

BAIS4

APPENDIX N 2

NUMBER OF ANIMALS WITH TUMORS
AND NUMBER OF TUMORS-TIME RELATED : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 3

Time-related Weeks	Items	Group Name	Control	2000 ppm	6325 ppm	20000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	1	1	0
	NO. OF ANIMALS WITH TUMORS		0	0	1	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	1	0
	NO. OF TOTAL TUMORS		0	0	1	0
53 - 78	NO. OF EXAMINED ANIMALS		7	2	1	8
	NO. OF ANIMALS WITH TUMORS		5	2	1	7
	NO. OF ANIMALS WITH SINGLE TUMORS		4	1	0	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	1	1	1
	NO. OF BENIGN TUMORS		1	1	0	2
	NO. OF MALIGNANT TUMORS		5	2	2	6
	NO. OF TOTAL TUMORS		6	3	2	8
79 - 104	NO. OF EXAMINED ANIMALS		7	24	17	16
	NO. OF ANIMALS WITH TUMORS		7	23	16	16
	NO. OF ANIMALS WITH SINGLE TUMORS		5	18	8	13
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	5	8	3
	NO. OF BENIGN TUMORS		1	4	9	2
	NO. OF MALIGNANT TUMORS		8	24	16	17
	NO. OF TOTAL TUMORS		9	28	25	19
105 - 105	NO. OF EXAMINED ANIMALS		36	23	31	26
	NO. OF ANIMALS WITH TUMORS		27	16	20	17
	NO. OF ANIMALS WITH SINGLE TUMORS		20	9	5	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	7	15	11
	NO. OF BENIGN TUMORS		22	15	27	13
	NO. OF MALIGNANT TUMORS		16	11	20	20
	NO. OF TOTAL TUMORS		38	26	47	33

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 4

Time-related Weeks	Items	Group Name	Control	2000 ppm	6325 ppm	20000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		39	41	38	40
	NO. OF ANIMALS WITH SINGLE TUMORS		29	28	14	25
	NO. OF ANIMALS WITH MULTIPLE TUMORS		10	13	24	15
	NO. OF BENIGN TUMORS		24	20	36	17
	NO. OF MALIGNANT TUMORS		29	37	39	43
	NO. OF TOTAL TUMORS		53	57	75	60

(HPT070)

BATS4

APPENDIX O 1

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : MALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Integumentary system/appandage}						
subcutis	histiocytic sarcoma		<50> 1 (2%)	<50> 1 (2%)	<50> 2 (4%)	<50> 0 (0%)
	hemangiosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Respiratory system}						
nasal cavit	osteosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
lung	bronchiolar-alveolar adenoma		<50> 6 (12%)	<50> 12 (24%)	<50> 9 (18%)	<50> 6 (12%)
	bronchiolar-alveolar carcinoma		3 (6%)	8 (16%)	4 (8%)	4 (8%)
{Hematopoietic system}						
lymph node	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	malignant lymphoma		6 (12%)	3 (6%)	9 (18%)	5 (10%)
spleen	hemangioma		<50> 0 (0%)	<50> 4 (8%)	<50> 1 (2%)	<50> 1 (2%)
	malignant lymphoma		5 (10%)	4 (8%)	1 (2%)	2 (4%)
	hemangiosarcoma		1 (2%)	4 (8%)	0 (0%)	2 (4%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
(Circulatory system)						
heart	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Digestive system)						
salivary gl	histiocytic sarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
large intes	histiocytic sarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
liver	hemangioma		<50> 2 (4%)	<50> 2 (4%)	<50> 4 (8%)	<50> 2 (4%)
	hepatocellular adenoma		9 (18%)	5 (10%)	14 (28%)	9 (18%)
	cholangiocellular adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	histiocytic sarcoma		5 (10%)	4 (8%)	2 (4%)	1 (2%)
	hemangiosarcoma		2 (4%)	1 (2%)	0 (0%)	1 (2%)
	hepatocellular carcinoma		4 (8%)	2 (4%)	7 (14%)	5 (10%)
	hepatoblastoma		0 (0%)	2 (4%)	0 (0%)	1 (2%)
pancreas	islet cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Urinary system}						
urin bladd	histiocytic sarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)
{Endocrine system}						
thyroid	C-cell carcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Reproductive system}						
testis	histiocytic sarcoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
epididymis	histiocytic sarcoma		<50> 2 (4%)	<50> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)
prep/cli gl	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Nervous system}						
periph nerv	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 1 (2%)	<50> 5 (10%)	<50> 4 (8%)	<50> 2 (4%)
{Musculoskeletal system}						
bone	osteoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
< a > a : Number of animals examined at the site b (c) b : Number of animals with neoplasm c : b / a * 100						
(HPT085)						

BAIS4

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Body cavities}						
mediastinum			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
retroperit			<50>	<50>	<50>	<50>
	schwannoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)

< a > a : Number of animals examined at the site
b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS4

APPENDIX O 2

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Cri:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Integumentary system/appandage}						
subcutis	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Respiratory system}						
nasal cavit	osteoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
lung	bronchiolar-alveolar adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 6 (12%)	<50> 3 (6%)
	bronchiolar-alveolar carcinoma		0 (0%)	1 (2%)	2 (4%)	4 (8%)
{Hematopoietic system}						
lymph node	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	malignant lymphoma		7 (14%)	7 (14%)	11 (22%)	8 (16%)
spleen	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	malignant lymphoma		6 (12%)	8 (16%)	6 (12%)	10 (20%)
	hemangiosarcoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS4

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Digestive system}						
salivary gl			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
stomach			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	carcinoid tumor		1 (2%)	0 (0%)	0 (0%)	0 (0%)
large intes			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
liver			<50>	<50>	<50>	<50>
	hemangioma		2 (4%)	0 (0%)	2 (4%)	1 (2%)
	hepatocellular adenoma		5 (10%)	9 (18%)	2 (4%)	4 (8%)
	histiocytic sarcoma		4 (8%)	1 (2%)	1 (2%)	1 (2%)
	hepatocellular carcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	adenoma		6 (12%)	6 (12%)	11 (22%)	5 (10%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
thyroid			<50>	<50>	<50>	<50>
	follicular adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	cystadenoma		1 (2%)	1 (2%)	3 (6%)	1 (2%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
uterus			<50>	<50>	<50>	<50>
	endometrial stromal polyp		2 (4%)	0 (0%)	1 (2%)	1 (2%)
	histiocytic sarcoma		11 (22%)	14 (28%)	16 (32%)	17 (34%)
mammary gl			<50>	<50>	<50>	<50>
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Nervous system}						
periph nerv			<50>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<50>
	adenoma		4 (8%)	2 (4%)	5 (10%)	2 (4%)
{Musculoskeletal system}						
muscle			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
bone			<50>	<50>	<50>	<50>
	osteoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

APPENDIX P 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	12/50(24.0)	9/50(18.0)	6/50(12.0)
Adjusted rates(b)	16.67	27.50	22.50	14.63
Terminal rates(c)	4/25(16.0)	10/37(27.0)	8/37(21.6)	4/37(10.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8486			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4238			
Fisher Exact test(e)		P = 0.0961	P = 0.2883	P = 0.6202
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	8/50(16.0)	4/50(8.0)	4/50(8.0)
Adjusted rates(b)	8.00	16.28	10.81	8.11
Terminal rates(c)	2/25(8.0)	6/37(16.2)	4/37(10.8)	3/37(8.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4592			
Prevalence method(d)	P = 0.7745			
Combined analysis(d)	P = 0.7533			
Cochran-Armitage test(e)	P = 0.6822			
Fisher Exact test(e)		P = 0.0999	P = 0.5000	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	18/50(36.0)	12/50(24.0)	10/50(20.0)
Adjusted rates(b)	20.00	37.84	30.00	21.95
Terminal rates(c)	5/25(20.0)	14/37(37.8)	11/37(29.7)	7/37(18.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4592			
Prevalence method(d)	P = 0.8412			
Combined analysis(d)	P = 0.8307			
Cochran-Armitage test(e)	P = 0.5523			
Fisher Exact test(e)		P = 0.0195*	P = 0.2270	P = 0.3976

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	3/50(6.0)	9/50(18.0)	5/50(10.0)
Adjusted rates(b)	12.00	5.41	10.81	10.81
Terminal rates(c)	3/25(12.0)	2/37(5.4)	4/37(10.8)	4/37(10.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7889			
Prevalence method(d)	P = 0.3591			
Combined analysis(d)	P = 0.6118			
Cochran-Armitage test(e)	P = 0.9987			
Fisher Exact test(e)		P = 0.2435	P = 0.2883	P = 0.5000
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/50(0.0)	4/50(8.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	0.0	10.81	2.44	2.70
Terminal rates(c)	0/25(0.0)	4/37(10.8)	0/37(0.0)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6926			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6645			
Fisher Exact test(e)		P = 0.0587	P = 0.5000	P = 0.5000
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	4/50(8.0)	1/50(2.0)	2/50(4.0)
Adjusted rates(b)	5.56	8.11	2.70	5.41
Terminal rates(c)	1/25(4.0)	3/37(8.1)	1/37(2.7)	2/37(5.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9815			
Prevalence method(d)	P = 0.6178			
Combined analysis(d)	P = 0.9051			
Cochran-Armitage test(e)	P = 0.2421			
Fisher Exact test(e)		P = 0.5000	P = 0.1022	P = 0.2180

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : spleen TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	4/50(8.0)	0/50(0.0)	2/50(4.0)
Adjusted rates(b)	4.00	8.11	0.0	2.70
Terminal rates(c)	1/25(4.0)	3/37(8.1)	0/37(0.0)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2615			
Prevalence method(d)	P = 0.7468			
Combined analysis(d)	P = 0.5817			
Cochran-Armitage test(e)	P = 0.9383			
Fisher Exact test(e)		P = 0.1811	P = 0.5000	P = 0.5000
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	8/50(16.0)	1/50(2.0)	3/50(6.0)
Adjusted rates(b)	4.00	18.92	2.44	5.41
Terminal rates(c)	1/25(4.0)	7/37(18.9)	0/37(0.0)	2/37(5.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2615			
Prevalence method(d)	P = 0.8111			
Combined analysis(d)	P = 0.7014			
Cochran-Armitage test(e)	P = 0.7205			
Fisher Exact test(e)		P = 0.0154*	P = 0.7525	P = 0.3087
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/50(4.0)	2/50(4.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	0.0	4.44	7.14	4.35
Terminal rates(c)	0/25(0.0)	1/37(2.7)	2/37(5.4)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8860			
Prevalence method(d)	P = 0.2780			
Combined analysis(d)	P = 0.5519			
Cochran-Armitage test(e)	P = 0.9498			
Fisher Exact test(e)		P = 0.6913	P = 0.3389	P = 0.6913

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	9/50(18.0)	5/50(10.0)	14/50(28.0)	9/50(18.0)
Adjusted rates(b)	24.00	11.11	33.33	21.62
Terminal rates(c)	6/25(24.0)	4/37(10.8)	12/37(32.4)	8/37(21.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.4059			
Combined analysis(d)	P = 0.4746			
Cochran-Armitage test(e)	P = 0.6994			
Fisher Exact test(e)		P = 0.1940	P = 0.1710	P = 0.6024
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	4/50(8.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	0.0	0.0	0.0	0.0
Terminal rates(c)	0/25(0.0)	0/37(0.0)	0/37(0.0)	0/37(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9677			
Prevalence method(d)	P = -----			
Combined analysis(d)	P = 0.9677			
Cochran-Armitage test(e)	P = 0.0907			
Fisher Exact test(e)		P = 0.5000	P = 0.2180	P = 0.1022
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	2/50(4.0)	7/50(14.0)	5/50(10.0)
Adjusted rates(b)	3.85	4.65	12.50	7.89
Terminal rates(c)	0/25(0.0)	1/37(2.7)	4/37(10.8)	2/37(5.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4555			
Prevalence method(d)	P = 0.2645			
Combined analysis(d)	P = 0.2993			
Cochran-Armitage test(e)	P = 0.5098			
Fisher Exact test(e)		P = 0.3389	P = 0.2623	P = 0.5000

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	3/50(6.0)	4/50(8.0)	3/50(6.0)
Adjusted rates(b)	4.00	6.67	7.14	4.44
Terminal rates(c)	1/25(4.0)	2/37(5.4)	2/37(5.4)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7079			
Prevalence method(d)	P = 0.4936			
Combined analysis(d)	P = 0.6419			
Cochran-Armitage test(e)	P = 0.7807			
Fisher Exact test(e)		P = 0.5000	P = 0.6425	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	13/50(26.0)	8/50(16.0)	19/50(38.0)	14/50(28.0)
Adjusted rates(b)	26.92	17.78	40.00	28.95
Terminal rates(c)	6/25(24.0)	6/37(16.2)	14/37(37.8)	10/37(27.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5885			
Prevalence method(d)	P = 0.2767			
Combined analysis(d)	P = 0.3390			
Cochran-Armitage test(e)	P = 0.4903			
Fisher Exact test(e)		P = 0.1631	P = 0.1419	P = 0.5000

(HPT360A)

BAIS4

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDFl]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : Harderian gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	5/50(10.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	4.00	13.51	8.00	4.35
Terminal rates(c)	1/25(4.0)	5/37(13.5)	2/37(5.4)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6627			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7119			
Fisher Exact test(e)		P = 0.1022	P = 0.1811	P = 0.5000

(HPT360A)

BAIS4

- (a): Number of tumor-bearing animals/number of animals examined at the site.
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c): Observed tumor incidence at terminal kill.
 (d): Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C.:Statistical value cannot be calculated and was not significant.

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	7/50(14.0)	6/50(12.0)	3/50(6.0)
Adjusted rates(b)	4.00	16.22	11.90	6.52
Terminal rates(c)	1/25(4.0)	6/37(16.2)	3/37(8.1)	2/37(5.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8860			
Prevalence method(d)	P = 0.6451			
Combined analysis(d)	P = 0.7996			
Cochran-Armitage test(e)	P = 0.4849			
Fisher Exact test(e)		P = 0.1589	P = 0.2435	P = 0.6611
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	7/50(14.0)	7/50(14.0)	9/50(18.0)
Adjusted rates(b)	16.00	5.41	13.51	13.51
Terminal rates(c)	4/25(16.0)	2/37(5.4)	5/37(13.5)	5/37(13.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8048			
Prevalence method(d)	P = 0.3320			
Combined analysis(d)	P = 0.6384			
Cochran-Armitage test(e)	P = 0.9521			
Fisher Exact test(e)		P = 0.2178	P = 0.2178	P = 0.4016
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	7/50(14.0)	10/50(20.0)	7/50(14.0)
Adjusted rates(b)	16.00	13.51	13.51	16.22
Terminal rates(c)	4/25(16.0)	5/37(13.5)	5/37(13.5)	6/37(16.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9554			
Prevalence method(d)	P = 0.4840			
Combined analysis(d)	P = 0.8527			
Cochran-Armitage test(e)	P = 0.4655			
Fisher Exact test(e)		P = 0.2178	P = 0.5000	P = 0.2178

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	5/50(10.0)	1/50(2.0)	3/50(6.0)
Adjusted rates(b)	12.00	10.81	0.0	2.70
Terminal rates(c)	3/25(12.0)	4/37(10.8)	0/37(0.0)	1/37(2.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2538			
Prevalence method(d)	P = 0.9493			
Combined analysis(d)	P = 0.7823			
Cochran-Armitage test(e)	P = 0.5630			
Fisher Exact test(e)		P = 0.5000	P = 0.1811	P = 0.5000

(HPT360A)

BAIS4

- (a): Number of tumor-bearing animals/number of animals examined at the site.
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c): Observed tumor incidence at terminal kill.
 (d): Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible outcomes cannot be estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C. : Statistical value cannot be calculated and was not significant.

APPENDIX P 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS : FEMALE

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	1/50(2.0)	6/50(12.0)	3/50(6.0)
Adjusted rates(b)	2.78	4.35	16.13	7.69
Terminal rates(c)	1/36(2.8)	1/23(4.3)	5/31(16.1)	2/26(7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1547			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3805			
Fisher Exact test(e)		P = 0.7525	P = 0.0559	P = 0.3087
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	1/50(2.0)	2/50(4.0)	4/50(8.0)
Adjusted rates(b)	0.0	0.0	6.45	11.54
Terminal rates(c)	0/36(0.0)	0/23(0.0)	2/31(6.5)	3/26(11.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2309			
Prevalence method(d)	P = 0.0150*			
Combined analysis(d)	P = 0.0132*			
Cochran-Armitage test(e)	P = 0.0262*			
Fisher Exact test(e)		P = 0.5000	P = 0.2475	P = 0.0587
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	2/50(4.0)	8/50(16.0)	7/50(14.0)
Adjusted rates(b)	2.78	4.35	22.58	19.23
Terminal rates(c)	1/36(2.8)	1/23(4.3)	7/31(22.6)	5/26(19.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2309			
Prevalence method(d)	P = 0.0160*			
Combined analysis(d)	P = 0.0120*			
Cochran-Armitage test(e)	P = 0.0335*			
Fisher Exact test(e)		P = 0.5000	P = 0.0154*	P = 0.0297*

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	7/50(14.0)	11/50(22.0)	8/50(16.0)
Adjusted rates(b)	13.89	6.67	16.13	11.54
Terminal rates(c)	5/36(13.9)	1/23(4.3)	5/31(16.1)	3/26(11.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2162			
Prevalence method(d)	P = 0.5205			
Combined analysis(d)	P = 0.2921			
Cochran-Armitage test(e)	P = 0.8091			
Fisher Exact test(e)		P = 0.6129	P = 0.2178	P = 0.5000
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	8/50(16.0)	6/50(12.0)	10/50(20.0)
Adjusted rates(b)	16.67	26.09	16.13	26.92
Terminal rates(c)	6/36(16.7)	6/23(26.1)	5/31(16.1)	7/26(26.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0775			
Prevalence method(d)	P = 0.2174			
Combined analysis(d)	P = 0.0817			
Cochran-Armitage test(e)	P = 0.2920			
Fisher Exact test(e)		P = 0.3871	P = 0.6202	P = 0.2070
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	1/50(2.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	2.78	0.0	6.45	0.0
Terminal rates(c)	1/36(2.8)	0/23(0.0)	2/31(6.5)	0/26(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6161			
Prevalence method(d)	P = 0.6568			
Combined analysis(d)	P = 0.7476			
Cochran-Armitage test(e)	P = 0.4021			
Fisher Exact test(e)		P = 0.7525	P = 0.3087	P = 0.5000

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	9/50(18.0)	2/50(4.0)	4/50(8.0)
Adjusted rates(b)	13.51	36.00	5.88	15.38
Terminal rates(c)	4/36(11.1)	8/23(34.8)	1/31(3.2)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7773			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3493			
Fisher Exact test(e)		P = 0.1940	P = 0.2180	P = 0.5000
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	1/50(2.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	7.32	0.0	0.0	0.0
Terminal rates(c)	2/36(5.6)	0/23(0.0)	0/31(0.0)	0/26(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4519			
Prevalence method(d)	P = 0.9802			
Combined analysis(d)	P = 0.8408			
Cochran-Armitage test(e)	P = 0.2947			
Fisher Exact test(e)		P = 0.1811	P = 0.1811	P = 0.1811
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	10/50(20.0)	3/50(6.0)	4/50(8.0)
Adjusted rates(b)	13.51	36.00	8.82	15.38
Terminal rates(c)	4/36(11.1)	8/23(34.8)	2/31(6.5)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5391			
Prevalence method(d)	P = 0.7764			
Combined analysis(d)	P = 0.8147			
Cochran-Armitage test(e)	P = 0.2862			
Fisher Exact test(e)		P = 0.1312	P = 0.3575	P = 0.5000

(HPT360A)

BAIS4

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	6/50(12.0)	11/50(22.0)	5/50(10.0)
Adjusted rates(b)	16.67	20.83	22.58	15.38
Terminal rates(c)	6/36(16.7)	4/23(17.4)	7/31(22.6)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2986			
Prevalence method(d)	P = 0.6496			
Combined analysis(d)	P = 0.5590			
Cochran-Armitage test(e)	P = 0.6627			
Fisher Exact test(e)		P = 0.6202	P = 0.1434	P = 0.5000
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	7/50(14.0)	11/50(22.0)	5/50(10.0)
Adjusted rates(b)	16.67	20.83	22.58	15.38
Terminal rates(c)	6/36(16.7)	4/23(17.4)	7/31(22.6)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4127			
Prevalence method(d)	P = 0.6496			
Combined analysis(d)	P = 0.6081			
Cochran-Armitage test(e)	P = 0.5750			
Fisher Exact test(e)		P = 0.5000	P = 0.1434	P = 0.5000
SITE : ovary TUMOR : cystadenoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	1/50(2.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	2.78	3.03	9.68	3.85
Terminal rates(c)	1/36(2.8)	0/23(0.0)	3/31(9.7)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4570			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9359			
Fisher Exact test(e)		P = 0.7525	P = 0.3087	P = 0.7525

(HPT360A)

BAIS4

STUDY No. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	14/50(28.0)	16/50(32.0)	17/50(34.0)
Adjusted rates(b)	8.33	14.81	24.24	17.24
Terminal rates(c)	3/36(8.3)	3/23(13.0)	6/31(19.4)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1444			
Prevalence method(d)	P = 0.2376			
Combined analysis(d)	P = 0.1027			
Cochran-Armitage test(e)	P = 0.2427			
Fisher Exact test(e)		P = 0.3224	P = 0.1839	P = 0.1327
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	2/50(4.0)	5/50(10.0)	2/50(4.0)
Adjusted rates(b)	8.33	4.35	11.90	4.00
Terminal rates(c)	3/36(8.3)	1/23(4.3)	3/31(9.7)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7116			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5458			
Fisher Exact test(e)		P = 0.3389	P = 0.5000	P = 0.3389

(HPT360A)

BAIS4

(a): Number of tumor-bearing animals/number of animals examined at the site.
(b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
(c): Observed tumor incidence at terminal kill.
(d): Beneath the control incidence are the P-values associated with the trend test.
Standard method : Death analysis
Prevalence method : Incidental tumor test
Combined analysis : Death analysis + Incidental tumor test
(e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.
----- : There is no data which should be statistical analysis.
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
N.C.:Statistical value cannot be calculated and was not significant.

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	8.33	0.0	6.45	3.13
Terminal rates(c)	3/36(8.3)	0/23(0.0)	2/31(6.5)	0/26(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6567			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6012			
Fisher Exact test(e)		P = 0.1212	P = 0.5000	P = 0.3087
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	15/50(30.0)	16/50(32.0)	18/50(36.0)	20/50(40.0)
Adjusted rates(b)	13.89	15.38	27.27	24.14
Terminal rates(c)	5/36(13.9)	3/23(13.0)	7/31(22.6)	6/26(23.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2199			
Prevalence method(d)	P = 0.1649			
Combined analysis(d)	P = 0.1187			
Cochran-Armitage test(e)	P = 0.2750			
Fisher Exact test(e)		P = 0.5000	P = 0.3355	P = 0.2009
(HPT360A)				
BAIS4				

STUDY No. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	2000 ppm	6325 ppm	20000 ppm
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	13/50(26.0)	15/50(30.0)	17/50(34.0)	18/50(36.0)
Adjusted rates(b)	30.56	30.43	32.26	38.46
Terminal rates(c)	11/36(30.6)	7/23(30.4)	10/31(32.3)	10/26(38.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0809			
Prevalence method(d)	P = 0.2749			
Combined analysis(d)	P = 0.0805			
Cochran-Armitage test(e)	P = 0.3158			
Fisher Exact test(e)		P = 0.4120	P = 0.2565	P = 0.1937

(HPT360A)

BAIS4

- (a): Number of tumor-bearing animals/number of animals examined at the site.
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c): Observed tumor incidence at terminal kill.
 (d): Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C. :Statistical value cannot be calculated and was not significant.

APPENDIX Q 1

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:

MALE : ALL ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Integumentary system/appandage}						
subcutis			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:liver tumor		0	1	1	0
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	2	0	0
	metastasis:peripheral nerve tumor		0	0	1	0
	metastasis:epididymis tumor		0	1	0	0
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	3	2	2
	metastasis:liver tumor		3	2	3	3
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	2	1	0
	metastasis:liver tumor		1	0	1	0
	metastasis:spleen tumor		0	3	0	0
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	1	0	2
	metastasis:liver tumor		0	2	0	0
	metastasis:lung tumor		0	1	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Hematopoietic system}						
lymph node			<50>	<50>	<50>	<50>
	metastasis:spleen tumor		0	1	0	0
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	3	7	2
	metastasis:subcutis tumor		0	0	1	0
{Digestive system}						
salivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	1	0
	metastasis:lymph node tumor		0	0	0	1
small intes			<50>	<50>	<50>	<50>
	metastasis:urinary bladder tumor		0	1	0	0
large intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
	metastasis:epididymis tumor		1	0	0	0
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	2	3	2
	metastasis:epididymis tumor		1	0	0	1
	metastasis:testis tumor		0	0	0	1
gall bladd			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	0	1	0
pancreas			<50>	<50>	<50>	<50>
	metastasis:liver tumor		2	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	2	2	1
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
	metastasis:peripheral nerve tumor		0	0	1	0
{Reproductive system}						
testis			<50>	<50>	<50>	<50>
	metastasis:liver tumor		1	0	0	0
	metastasis:subcutis tumor		0	1	0	0
epididymis	metastasis:epididymis tumor		1	0	0	0
	metastasis:liver tumor		<50>	<50>	<50>	<50>
	metastasis:subcutis tumor		2	1	0	0
semin ves			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	1	0	0
prostate			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 4

Group Name		Control	2000 ppm	6325 ppm	20000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Nervous system}					
brain	metastasis:peripheral nerve tumor	<50> 0	<50> 0	<50> 1	<50> 0
{Special sense organs/appendage}					
Harder gl	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
{Body cavities}					
peritoneum	metastasis:subcutis tumor	<50> 0	<50> 1	<50> 0	<50> 0
< a > a : Number of animals examined at the site					
b b : Number of animals with lesion					

(JPT150)

BAIS4

APPENDIX Q 2

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:

MALE : DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 25	2000 ppm 13	6325 ppm 13	20000 ppm 13
{Integumentary system/appandage}						
subcutis	leukemic cell infiltration		<25> 0	<13> 1	<13> 0	<13> 0
	metastasis:liver tumor		0	1	1	0
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<25> 1	<13> 1	<13> 0	<13> 0
lung	leukemic cell infiltration		<25> 5	<13> 1	<13> 2	<13> 0
	metastasis:liver tumor		3	2	2	3
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<25> 1	<13> 1	<13> 1	<13> 0
	metastasis:liver tumor		1	0	1	0
	metastasis:spleen tumor		0	1	0	0
lymph node	leukemic cell infiltration		<25> 3	<13> 0	<13> 0	<13> 0
	metastasis:liver tumor		0	2	0	0
	metastasis:lung tumor		0	0	0	1
spleen	leukemic cell infiltration		<25> 3	<13> 1	<13> 3	<13> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 25	2000 ppm 13	6325 ppm 13	20000 ppm 13
{Hematopoietic system}						
spleen	metastasis:subcutis tumor		<25> 0	<13> 0	<13> 1	<13> 0
{Digestive system}						
salivary gl	leukemic cell infiltration		<25> 0	<13> 0	<13> 1	<13> 0
	metastasis:lymph node tumor		0	0	0	1
small intes	metastasis:urinary bladder tumor		<25> 0	<13> 1	<13> 0	<13> 0
large intes	leukemic cell infiltration		<25> 1	<13> 0	<13> 0	<13> 0
	metastasis:epididymis tumor		1	0	0	0
liver	leukemic cell infiltration		<25> 5	<13> 2	<13> 1	<13> 1
gall bladd	metastasis:liver tumor		<25> 0	<13> 0	<13> 1	<13> 0
pancreas	metastasis:liver tumor		<25> 2	<13> 0	<13> 0	<13> 0
{Urinary system}						
kidney	leukemic cell infiltration		<25> 3	<13> 1	<13> 1	<13> 0
{Endocrine system}						
pituitary	leukemic cell infiltration		<25> 1	<13> 0	<13> 0	<13> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Group Name		Control	2000 ppm	6325 ppm	20000 ppm
No. of Animals on Study		25	13	13	13
Organ	Findings				
{Reproductive system}					
testis		<25>	<13>	<13>	<13>
	metastasis:liver tumor	1	0	0	0
epididymis		<25>	<13>	<13>	<13>
	metastasis:liver tumor	2	1	0	0
semin ves		<25>	<13>	<13>	<13>
	metastasis:liver tumor	0	1	0	0
{Nervous system}					
brain		<25>	<13>	<13>	<13>
	leukemic cell infiltration	1	0	1	0
{Special sense organs/appendage}					
Harder gl		<25>	<13>	<13>	<13>
	leukemic cell infiltration	1	0	0	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

(JPT150)

BAIS4

APPENDIX Q 3

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:

MALE : SACRIFICED ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 25	2000 ppm 37	6325 ppm 37	20000 ppm 37
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<25> 0	<37> 1	<37> 0	<37> 0
	metastasis:peripheral nerve tumor		0	0	1	0
	metastasis:epididymis tumor		0	1	0	0
lung	leukemic cell infiltration		<25> 0	<37> 2	<37> 0	<37> 2
	metastasis:liver tumor		0	0	1	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<25> 0	<37> 1	<37> 0	<37> 0
	metastasis:spleen tumor		0	2	0	0
lymph node	leukemic cell infiltration		<25> 0	<37> 1	<37> 0	<37> 2
	metastasis:lung tumor		0	1	0	0
	metastasis:spleen tumor		0	1	0	0
spleen	leukemic cell infiltration		<25> 2	<37> 2	<37> 4	<37> 2
{Digestive system}						
salivary gl	leukemic cell infiltration		<25> 0	<37> 1	<37> 0	<37> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 25	2000 ppm 37	6325 ppm 37	20000 ppm 37
{Digestive system}						
liver	leukemic cell infiltration		<25> 0	<37> 0	<37> 2	<37> 1
	metastasis:epididymis tumor		1	0	0	1
	metastasis:testis tumor		0	0	0	1
{Urinary system}						
kidney	leukemic cell infiltration		<25> 0	<37> 1	<37> 1	<37> 1
{Endocrine system}						
pituitary	metastasis:peripheral nerve tumor		<25> 0	<37> 0	<37> 1	<37> 0
{Reproductive system}						
testis	metastasis:subcutis tumor		<25> 0	<37> 1	<37> 0	<37> 0
	metastasis:epididymis tumor		1	0	0	0
epididymis	metastasis:subcutis tumor		<25> 0	<37> 1	<37> 0	<37> 0
prostate	leukemic cell infiltration		<25> 0	<37> 0	<37> 0	<37> 1
{Nervous system}						
brain	metastasis:peripheral nerve tumor		<25> 0	<37> 0	<37> 1	<37> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crlj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Group Name		Control	2000 ppm	6325 ppm	20000 ppm
No. of Animals on Study		25	37	37	37
Organ	Findings				
{Body cavities}					
peritoneum	metastasis:subcutis tumor	<25> 0	<37> 1	<37> 0	<37> 0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				
(JPT150)					BAIS4

APPENDIX Q 4

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:

FEMALE : ALL ANIMALS

STUDY NO. : 0449
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Integumentary system/appandage}						
subcutis			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	1	0
	metastasis:liver tumor		1	0	0	0
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		1	1	1	2
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	10	6	7
	metastasis:liver tumor		1	2	1	1
	metastasis:uterus tumor		5	6	3	7
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	4	3	2
	metastasis:liver tumor		2	0	2	1
	metastasis:uterus tumor		3	4	0	4
	metastasis:spleen tumor		0	1	0	0
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	3	1	2
	metastasis:liver tumor		0	1	0	1
	metastasis:uterus tumor		0	2	1	3
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Hematopoietic system}						
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	5	7	4
	metastasis:uterus tumor		0	2	1	0
{Circulatory system}						
heart			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	0	0	1
{Digestive system}						
tongue			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	2
salivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	2
stomach			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		0	0	1	0
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	8	6	7
	metastasis:uterus tumor		10	9	9	12
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Digestive system}						
pancreas	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
	metastasis:uterus tumor		1	0	1	0
	metastasis:lymph node tumor		0	0	1	0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 3	<50> 7	<50> 9	<50> 9
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		2	4	4	3
{Endocrine system}						
adrenal	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
{Reproductive system}						
ovary	leukemic cell infiltration		<50> 1	<50> 3	<50> 2	<50> 2
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		9	8	6	11
uterus	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study	Control 50	2000 ppm 50	6325 ppm 50	20000 ppm 50
{Nervous system}						
brain	leukemic cell infiltration		<50> 0	<50> 0	<50> 2	<50> 1
	metastasis:pituitary tumor		0	1	0	0
spinal cord	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 2
	metastasis:uterus tumor		0	2	1	0
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 0
{Body cavities}						
peritoneum	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 1
	metastasis:uterus tumor		0	0	3	0
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

(JPT150)

BAIS4

APPENDIX Q 5

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
FEMALE : DEAD AND MORIBUND ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 14	2000 ppm 27	6325 ppm 19	20000 ppm 24
{Integumentary system/appendage}						
subcutis	leukemic cell infiltration		<14> 0	<27> 1	<19> 1	<24> 0
{Respiratory system}						
nasal cavit	metastasis:uterus tumor		<14> 1	<27> 1	<19> 1	<24> 2
lung	leukemic cell infiltration		<14> 1	<27> 8	<19> 4	<24> 5
	metastasis:liver tumor		1	2	1	1
	metastasis:uterus tumor		4	6	3	7
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<14> 0	<27> 3	<19> 3	<24> 1
	metastasis:liver tumor		0	0	1	1
	metastasis:uterus tumor		2	4	0	4
	metastasis:spleen tumor		0	1	0	0
lymph node	leukemic cell infiltration		<14> 0	<27> 2	<19> 1	<24> 0
	metastasis:liver tumor		0	1	0	1
	metastasis:uterus tumor		0	2	1	3
spleen	leukemic cell infiltration		<14> 2	<27> 5	<19> 3	<24> 2

< a > a : Number of animals examined at the site
 b : Number of animals with lesion

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 14	2000 ppm 27	6325 ppm 19	20000 ppm 24
{Hematopoietic system}						
spleen	metastasis:uterus tumor		<14> 0	<27> 2	<19> 1	<24> 0
{Circulatory system}						
heart	leukemic cell infiltration		<14> 0	<27> 1	<19> 0	<24> 0
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	0	0	0
{Digestive system}						
tongue	leukemic cell infiltration		<14> 0	<27> 0	<19> 0	<24> 2
salivary gl	leukemic cell infiltration		<14> 0	<27> 1	<19> 0	<24> 0
stomach	leukemic cell infiltration		<14> 0	<27> 0	<19> 1	<24> 0
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		0	0	1	0
liver	leukemic cell infiltration		<14> 1	<27> 6	<19> 2	<24> 5
	metastasis:uterus tumor		8	9	8	11
pancreas	leukemic cell infiltration		<14> 0	<27> 1	<19> 0	<24> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 14	2000 ppm 27	6325 ppm 19	20000 ppm 24
{Digestive system}						
pancreas			<14>	<27>	<19>	<24>
	metastasis:uterus tumor		1	0	1	0
{Urinary system}						
kidney			<14>	<27>	<19>	<24>
	leukemic cell infiltration		2	4	2	2
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		2	4	4	2
{Endocrine system}						
adrenal			<14>	<27>	<19>	<24>
	leukemic cell infiltration		0	1	0	0
{Reproductive system}						
ovary			<14>	<27>	<19>	<24>
	leukemic cell infiltration		0	3	2	2
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		7	8	6	9
uterus			<14>	<27>	<19>	<24>
	leukemic cell infiltration		0	1	0	1
{Nervous system}						
brain			<14>	<27>	<19>	<24>
	leukemic cell infiltration		0	0	1	1

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 7

Group Name No. of Animals on Study		Control 14	2000 ppm 27	6325 ppm 19	20000 ppm 24
Organ	Findings				
{Nervous system}					
brain	metastasis:pituitary tumor	<14> 0	<27> 1	<19> 0	<24> 0
{Special sense organs/appendage}					
Harder gl	leukemic cell infiltration	<14> 0	<27> 0	<19> 0	<24> 2
	metastasis:uterus tumor	0	2	1	0
{Musculoskeletal system}					
muscle	leukemic cell infiltration	<14> 0	<27> 1	<19> 0	<24> 0
{Body cavities}					
peritoneum	leukemic cell infiltration	<14> 0	<27> 1	<19> 1	<24> 1
	metastasis:uterus tumor	0	0	3	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

(JPT150)

BAIS4

APPENDIX Q 6

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
FEMALE : SACRIFICED ANIMALS

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 36	2000 ppm 23	6325 ppm 31	20000 ppm 26
{Integumentary system/appandage}						
subcutis	metastasis:liver tumor		<36> 1	<23> 0	<31> 0	<26> 0
{Respiratory system}						
lung	leukemic cell infiltration		<36> 4	<23> 2	<31> 2	<26> 2
	metastasis:uterus tumor		1	0	0	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<36> 2	<23> 1	<31> 0	<26> 1
	metastasis:liver tumor		2	0	1	0
	metastasis:uterus tumor		1	0	0	0
lymph node	leukemic cell infiltration		<36> 1	<23> 1	<31> 0	<26> 2
spleen	leukemic cell infiltration		<36> 3	<23> 0	<31> 4	<26> 2
{Circulatory system}						
heart	metastasis:uterus tumor		<36> 0	<23> 0	<31> 0	<26> 1
{Digestive system}						
salivary gl	leukemic cell infiltration		<36> 0	<23> 0	<31> 0	<26> 2

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

STUDY NO. : 0449
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 36	2000 ppm 23	6325 ppm 31	20000 ppm 26
{Digestive system}						
liver			<36>	<23>	<31>	<26>
	leukemic cell infiltration		1	2	4	2
	metastasis:uterus tumor		2	0	1	1
pancreas			<36>	<23>	<31>	<26>
	metastasis:lymph node tumor		0	0	1	0
{Urinary system}						
kidney			<36>	<23>	<31>	<26>
	leukemic cell infiltration		1	3	7	7
	metastasis:uterus tumor		0	0	0	1
{Reproductive system}						
ovary			<36>	<23>	<31>	<26>
	leukemic cell infiltration		1	0	0	0
	metastasis:uterus tumor		2	0	0	2
{Nervous system}						
brain			<36>	<23>	<31>	<26>
	leukemic cell infiltration		0	0	1	0
spinal cord			<36>	<23>	<31>	<26>
	leukemic cell infiltration		0	0	1	0
{Musculoskeletal system}						
muscle			<36>	<23>	<31>	<26>
	leukemic cell infiltration		1	0	0	0

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

APPENDIX R

METHODS, UNITS AND DECIMAL PLACE FOR
HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR
DRINKING WATER STUDY OF METHYL ACETOACETATE

METHODS, UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF METHYL ACETOACETATE

Item	Method	Unit	Decimal place
Hematology			
Red blood cell (RBC)	Light scattering method ¹⁾	$\times 10^6/\mu\text{L}$	2
Hemoglobin(Hgb)	Cyanmethemoglobin method ¹⁾	g/dL	1
Hematocrit(Hct)	Calculated as $\text{RBC} \times \text{MCV}/10$ ¹⁾	%	1
Mean corpuscular volume(MCV)	Light scattering method ¹⁾	fL	1
Mean corpuscular hemoglobin(MCH)	Calculated as $\text{Hgb}/\text{RBC} \times 10$ ¹⁾	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as $\text{Hgb}/\text{Hct} \times 100$ ¹⁾	g/dL	1
Platelet	Light scattering method ¹⁾	$\times 10^3/\mu\text{L}$	0
White blood cell(WBC)	Light scattering method ¹⁾	$\times 10^3/\mu\text{L}$	2
Differential WBC	Pattern recognition method ²⁾ (Wright staining)	%	0
Biochemistry			
Total protein(TP)	Biuret method ³⁾	g/dL	1
Albumin (Alb)	BCG method ³⁾	g/dL	1
A/G ratio	Calculated as $\text{Alb}/(\text{TP} - \text{Alb})$ ³⁾	—	1
T-bilirubin	Alkaline azobilirubin method ³⁾	mg/dL	2
Glucose	GlcK·G-6-PDH method ³⁾	mg/dL	0
T-cholesterol	CE·COD·POD method ³⁾	mg/dL	0
Triglyceride	LPL·GK·GPO·POD method ³⁾	mg/dL	0
Phospholipid	PLD·ChOD·POD method ³⁾	mg/dL	0
Aspartate aminotransferase (AST)	JSCC method ³⁾	IU/L	0
Alanine aminotransferase (ALT)	JSCC method ³⁾	IU/L	0
Lactate dehydrogenase (LDH)	SFBC method ³⁾	IU/L	0
Alkaline phosphatase (ALP)	GSCC method ³⁾	IU/L	0
γ -Glutamyl transpeptidase (γ -GTP)	JSCC method ³⁾	IU/L	0
Creatine kinase (CK)	JSCC method ³⁾	IU/L	0
Urea nitrogen	Urease·GLDH method ³⁾	mg/dL	1
Sodium	Ion selective electrode method ³⁾	mEq/L	0
Potassium	Ion selective electrode method ³⁾	mEq/L	1
Chloride	Ion selective electrode method ³⁾	mEq/L	0
Calcium	OCPC method ³⁾	mg/dL	1
Inorganic phosphorus	PNP·XOD·POD method ³⁾	mg/dL	1

1) Automatic blood cell analyzer (ADVIA120 : Bayer Corporation)

2) Automatic blood cell differential analyzer (MICROX HEG-120NA : OMRON Corporation)

3) Automatic analyzer (Hitachi 7070 : Hitachi,Ltd.)