ブチル 2,3-エポキシプロピル エーテルのマウス を用いた吸入によるがん原性試験報告書

試験番号:0438

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APPENDIX A 1

IDENTITY OF BUTYL 2,3-EPOXYPROPYL ETHER IN THE 2-YEAR INHALATION STUDY

IDENTITY OF BUTYL 2,3-EPOXYPROPYL ETHER IN THE 2-YEAR INHALATION STUDY

Test Substance

: Butyl 2,3-epoxypropyl ether (Wako Pure Chemical Industries, Ltd.)

A. Lot No.

: LDJ4265

1. Spectral Data

Mass Spectrometry

Instrument

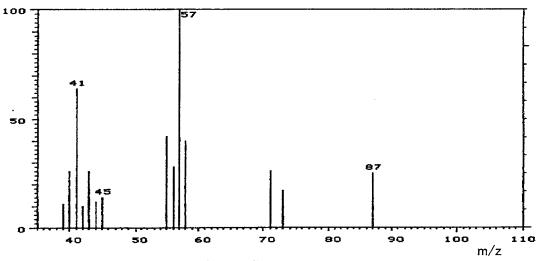
: Hitachi M-80B Mass Spectrometer

Ionization

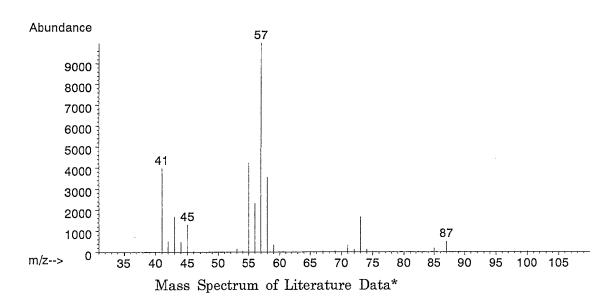
: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance



Result: The mass spectrum was consistent with literature spectrum.

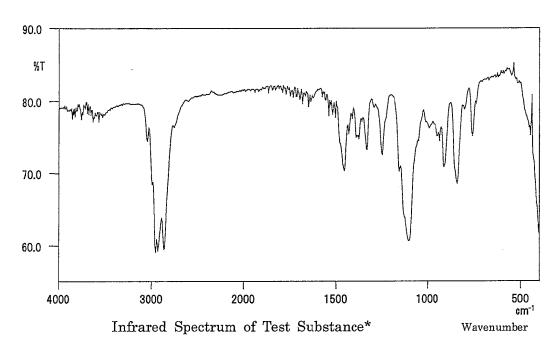
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed. New York, NY:John Wiley and Sons.)

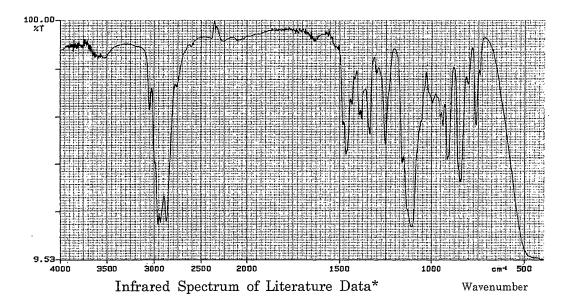
Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm⁻¹





Result: The infrared spectrum was consistent with literature spectrum. (*Performed by Wako Pure Chemical Industries, Ltd.)

2. Conclusion: The test substance was identified as butyl 2,3-epoxypropyl ether by mass spectrum and infrared spectrum.

B. Lot No.

: LDE4969

1. Spectral Data

Mass Spectrometry

Instrument

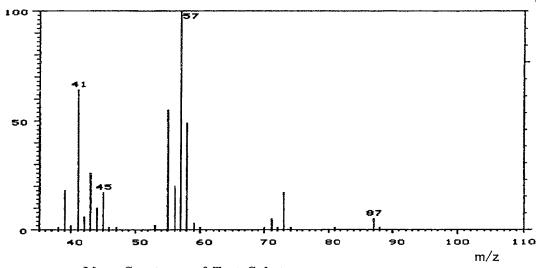
: Hitachi M-80B Mass Spectrometer

Ionization

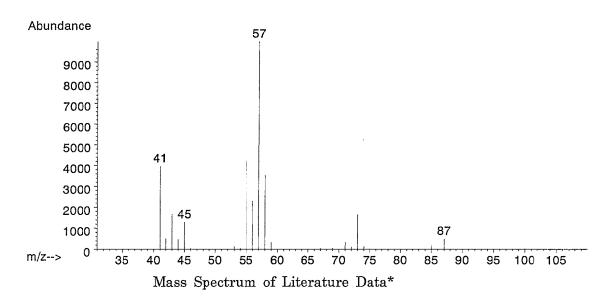
: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance



Result: The mass spectrum was consistent with literature spectrum.

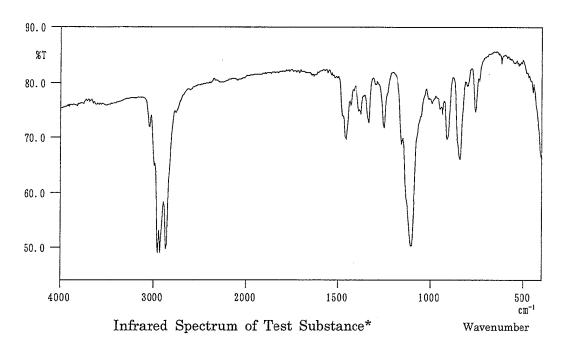
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed. New York, NY:John Wiley and Sons.)

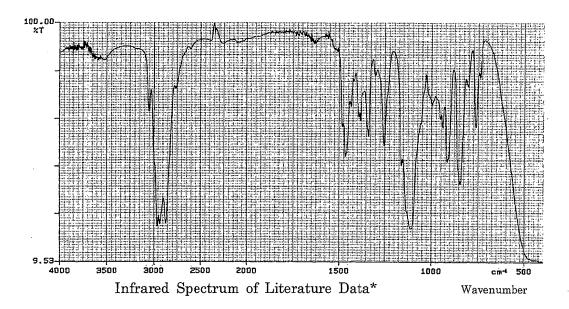
Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm⁻¹





Result: The infrared spectrum was consistent with literature spectrum. (*Performed by Wako Pure Chemical Industries, Ltd.)

2. Conclusion: The test substance was identified as butyl 2,3 epoxypropyl ether by mass spectrum and infrared spectrum.

C. Lot No.

: WAK4372

1. Spectral Data

Mass Spectrometry

Instrument

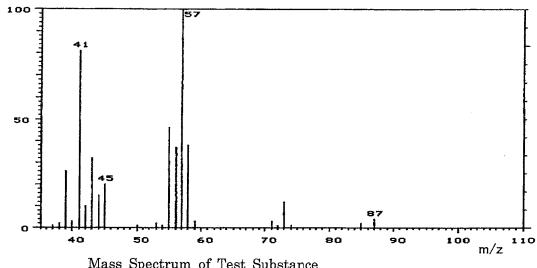
: Hitachi M-80B Mass Spectrometer

Ionization

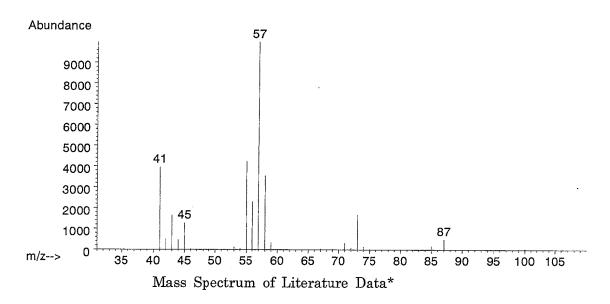
: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance



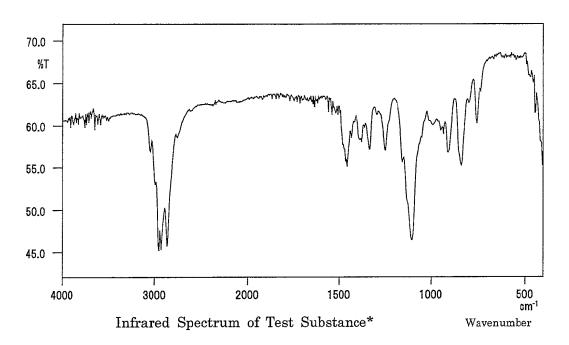
Result: The mass spectrum was consistent with literature spectrum. (*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed. New York, NY: John Wiley and Sons.)

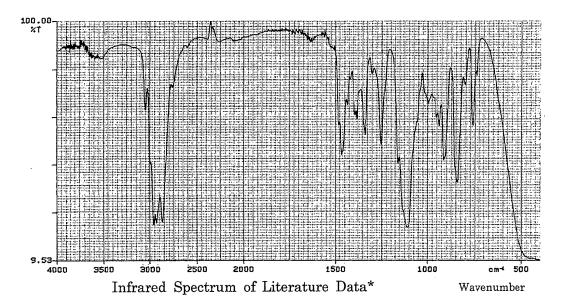
Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm⁻¹





Result: The infrared spectrum was consistent with literature spectrum. (*Performed by Wako Pure Chemical Industries, Ltd.)

2. Conclusion: The test substance was identified as butyl 2,3-epoxypropyl ether by mass spectrum and infrared spectrum.

D. Lot No.

: PKQ5714

1. Spectral Data

Mass Spectrometry

Instrument

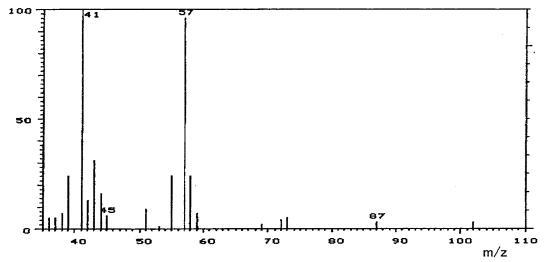
: Hitachi M-80B Mass Spectrometer

Ionization

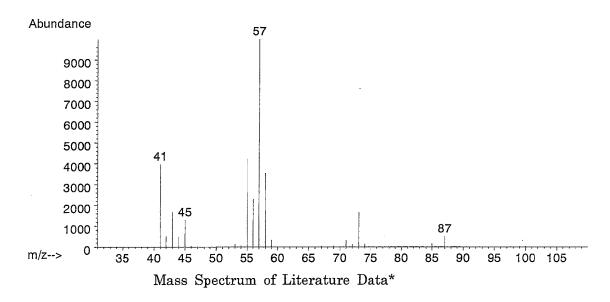
: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance



Result: The mass spectrum was consistent with literature spectrum.

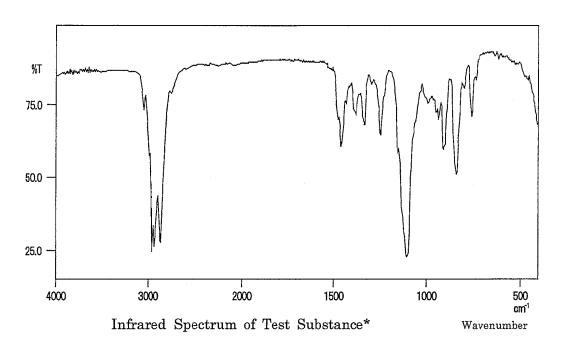
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed. New York, NY:John Wiley and Sons.)

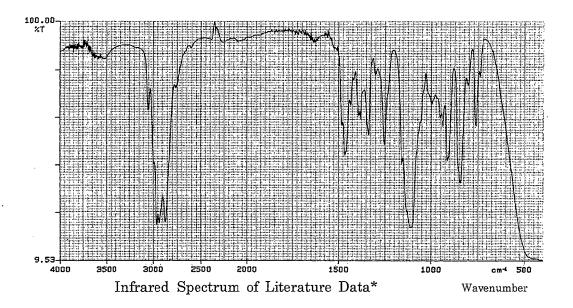
Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm⁻¹





Result: The infrared spectrum was consistent with literature spectrum. (*Performed by Wako Pure Chemical Industries, Ltd.)

2. Conclusion: The test substance was identified as butyl 2,3-epoxypropyl ether by mass spectrum and infrared spectrum.

APPENDIX A 2

STABILITY OF BUTYL 2,3-EPOXYPROPYL ETHER IN THE 2-YEAR INHALATION STUDY

STABILITY OF BUTYL 2,3-EPOXYPROPYL ETHER IN THE 2-YEAR INHALATION STUDY

Test Substance : Butyl 2,3-epoxypropyl ether (Wako Pure Chemical Industries, Ltd.)

A. Lot No. : LDJ4265

1. Sample : This lot was used from 2001.11.8 to 2002.2.18. The test

substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone ($0.53 \text{ mm } \phi \times 60 \text{ m}$)

Column Temperature: 160° C

Flow Rate : 20 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2001.10.10	1	2.893	100
2002.02.19	1	2.899	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2001.10.10 and one major peak (peak No.1) analyzed on 2002.2.19. No new trace impurity peak in the test substance analyzed on 2002.2.19 was detected.

3. Conclusion: The test substance was stable for about 4 months in a dark place at room temperature.

B. Lot No.

: LDE4969

1. Sample

: This lot was used from 2002.2.19 to 2002.10.7. The test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone ($0.53~\mathrm{mm}\,\phi~ imes~60~\mathrm{m})$

Column Temperature: 160° C

Flow Rate

: 20 mL/min

Detector

: FID (Flame Ionization Detector)

Injection Volume

: 1 µL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2002.02.18	1	2.901	100
2002.10.09	1	3.135	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2001.2.18 and one major peak (peak No.1) analyzed on 2002.10.9. No new trace impurity peak in the test substance analyzed on 2002.10.9 was detected.

3. Conclusion: The test substance was stable for about 7 months in a dark place at room temperature.

C. Lot No.

: WAK4372

1. Sample

This lot was used from 2002.10.8 to 2003.5.23. The test

substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone (0.53 mm ϕ × 60 m)

Column Temperature: 160° C

Flow Rate

: 20 mL/min

Detector

: FID (Flame Ionization Detector)

Injection Volume

: 1 µL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2002.10.07	1	3.131	100
2003.05.26	1	3.127	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2002.10.7 and one major peak (peak No.1) analyzed on 2003.5.26. No new trace impurity peak in the test substance analyzed on 2003.5.26 was detected.

3. Conclusion: The test substance was stable for about 7 months in a dark place at room temperature.

D. Lot No.

: PKQ5714

1. Sample

: This lot was used from 2003.5.26 to 2003.11.5. The test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone (0.53 mm ϕ × 60 m)

Column Temperature: 160° C

Flow Rate

: 20 mL/min

Detector

: FID (Flame Ionization Detector)

Injection Volume

: 1 µL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2003.05.23	1	3.129	100
2003.11.19	1	3.113	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2003.5.23 and one major peak (peak No.1) analyzed on 2003.11.19. No new trace impurity peak in the test substance analyzed on 2003.11.19 was detected.

3. Conclusion: The test substance was stable for about 5 months in a dark place at room temperature.

APPENDIX B

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

Group Name	Temperature ($^{\circ}$ C) Mean \pm S.D.	Humidity (%) Mean ± S.D.	Ventilation Rate (L/min) Mean ± S.D.	Air Change (time/h) Mean
Control	23.1 ± 0.1	56.8 ± 1.4	782.3 ± 4.7	12.0
5 ppm	23.0 ± 0.1	56.2 ± 1.5	782.7 ± 4.0	12.0
15 ppm	23.0 ± 0.0	53.7 ± 1.9	781.2 ± 5.0	12.0
45 ppm	22.9 ± 0.1	53.0 ± 3.2	781.1 ± 3.5	12.0

APPENDIX C 1

CLINICAL OBSERVATION: MALE

ANTMAL : MOUSE Crj:BDF1

STUDY NO. : 0438

REPORT TYPE : Al 104

SEX : MALE									-						PAGE :
Clinical sign	Group Name		stration W												
		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
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 ppm	0	Ů.	0	0	Ö	Ö	Ö	0	Ö	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	Ō	0	0	0	0	Ō
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0 0	0	0 0	0 0	0	0	0 0	0 0	0	0	0 0	0	0 0	0
	45 ppm	Ū	U	U	v	U	U	v	U	V	U	U	· ·	U	U
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

DEA · MALE															11100
Clinical sign	Group Name		istration V												
		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
	4				_										
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VASTING .	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
"RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

linical sign	Group Name	Administration Week-day													
	or out homo	29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
ЕАТН	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
M12124	5 ppm	Ō	Ö	Ö	0	Ö	ō	Ō	Õ	ō	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	0 0	0 0
	5 ppm 15 ppm	0 0	0	0	0	0			-						0
	15 ppm 45 ppm	0	0	0		0									
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	5 ppm	Ö	Ö	0	0	0	0	0	0	0	0	Ö	Ö	0	ŏ
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

linical sign	Group Name	Administration Week-day													
		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	57-7
DEATH	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
12.1111	5 ppm	0	Ô	Ô	Ō	Ô	Ö	0	0	0	0	Õ	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	45 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
	5 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0 0	0	0 0	0	0 0	0	0 0
	15 ppm	0	0	0 0	0 0	0 0	0 0	0 0	0	0 0	0	0	0	0	0
	45 ppm	U	U	U	U	U	U	U	U	U	U	U	v	v	v
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0 0	0 0	0 0	0	0	0 0	0	1 0	1 0	0	0	0
	45 ppm	0	U	U	U	U	0	U	U	U	U	U	U	U	v
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

SEX : MALE

SEX : MALE								_							TAGE
Clinical sign	Group Name		stration V												
		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	71-7
EATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LK1111	5 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	15 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin:	istration W	eek-day							_				
		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	85-7
DEATH	Control	2	2	2	2	2	2	2	3	3	3	3	4	4	4
	5 ррш	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	15 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	4
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррт	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
,	45 ppm	0	0	2	3	3	3	3	3	4	4	4	4	4	5
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	1	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
	5 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0 .	0	0	. 0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0 -	0	0	0	0	0
	45 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-dav _											
		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	99-7
ЕАТН	Control	5	5	5	5	5	5	6	7	8	8	8	8	9	9
M1111	5 ppm	1	1	3	3	3	3	4	4	4	4	5	5	6	6
	15 ppm	5	6	7	8	8	8	8	9	10	10	11	12	13	13
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	3
	5 ppm	2	2	3	3	3	3	3	3	3	3	3	4	4	4
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1_	1
	45 ppm	5	6	6	6	6	6	6	6	6	6	6	6	7	7
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	5 ppm	0	1	0	0	0	1	1	1	1	1	1	1	1	0
	15 ppm	0	0 0	0	0	0	0	0	0 0	0	0	1	1	1	1
	45 ppm	0	U	0	0	0	U	0	U	0	0	0	0	0	0
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	5 ppm	0	1	0	0	1	1	1	1	1	1	1	1	1	1
	15 ppm	0	0	0	0	1	0	0	1	0	0	0	0	0	1
	45 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

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SEX : MALE PAGE: 8

l sign	Group Name			Week-day _		
		100-7	101-7	102-7	103-7	104-7
						
	Control	10	10	11	12	12
	5 ppm	6	6	6	7	7
	15 ppm	13	14	15	15	16
	45 ppm	3	3	3	4	4
D SACRIFICE	Control	3	3	3	3	3
D DIORII 10D	5 ppm	7	7	7	7	7
	15 ppm	1	1	1	2	2
	45 ppm	7	.8	9	9	9
	TO PAIN	•	. •	J	·	Ü
,	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	. 0
	45 ppm	0	0	0	0	0
ACK POSITION	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	1	1	1	1	1
	45 ppm	0	0	0	0	0
3	Control	2	2	1	1	1
•	5 ppm	0	0	0	0	0
	15 ppm	1	1	1	1	1
	45 ppm	Ô	Ô	0	Ô	0
			•	•	•	•
	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	1	1	1
	45 ppm	0	0	0	0	0
ECTION	Control	0	0	0	2	2
	5 ppm	2	2	1	1	1
	15 ppm	1	1	1	1	1
	45 ppm	1	0	1	0	0
	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	1
	45 ppm	0	0	0	0	0
	add or	v	v	•	v	J

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

PAGE: 9 Clinical sign Group Name Administration Week-day

Clinical sign	Group Name	Admini	stration We	eek-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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	o o	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	.0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	, 0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

5 ppm

15 ppm

45 ppm

Control

5 ppm

15 ppm

45 ppm

 REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4 5 ppm	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	_		_	_	_				•	•	_	•	^	•	^

INTERNAL MASS

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
	-	29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
FROG BELLY	Control	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

INTERNAL MASS

Control

5 ppm

15 ppm

45 ppm

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX: MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
TIMIOGI OIGN	or out it is	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	57-7
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	1	1	1	1	1	1	1	1	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
ACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	2	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	ō	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin	istration W	eek-day _								···	·		
		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	71-7
															•
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	.0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	Ö	0	Ö	Ö	Ŏ	0	Ö	Ŏ	0
	15 ppm	Ö	0	Ö	0	1	í	1	1	1	1	1	1	1	1
	45 ppm	o	0	0	0	Ô	0	0	1	1	1	2	2	2	2
ACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACKTMATTON	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					-				-		-	-			=
	15 ppm	0	0 0	0	0	. 0	0 0	0 0	0 0	0 0	0	0	0	0	0
	45 ppm	Ų	U	U	U	U	U	U	U		U	U	U	U	U
UM	Control	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	45 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	1	1	1	1	1	1	1
	5 ррш	0	0	0	0	0	0	ō	0	Õ	0	0	0	ō	Ô
	15 ppm	0	0	0	0	0	Õ	0	0	0	0	Ö	0	1	1
	45 ppm	0	ō	0	Ö	0	1	0	0	0	Ö	0	0	Ô	0
NTERNAL MASS	Control	1	1	1	2	2	2	2	2	2	4	2	2	2	3
and the same of the same of	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0			0		
		0	0	0	0	0	0	0	0		0 0	0 0		0	0
	45 ppm	U	U	U	Ų	U	U	U	U	0	U	U	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name		istration W	leek-day _					<u>.</u>						
-		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	85-7
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	45 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	1	2	2	2	1	2	2	2	2	2
	45 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
EXTERNAL MASS	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	45 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	3	3	3	3	4	5	3	3	3	3	2	2	2	2
	5 ppm	0	0	0	0	2	2	1	1	1	2	1	1	2	2
	15 ppm	0	0	0	0	0	0	0	0	1	1	2	2	2	2
	45 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin	istration V	Week-day _											
		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	99-7
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	2
	5 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	5 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5 ppm	ō	ō	Ō	0	Ō	Ō	Õ	ō	Ô	0	Õ	0	Ō	Ō
	15 ppm	2	2	3	3	3	3	3	3	2	2	2	2	2	2
	45 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210112111111111111111111111111111111111	5 ppm	ő	Ô	0	Õ	0	Ö	0	0	Ö	0	0	ů	Ö	Ö
	15 ppm	0	Ŏ	0	0	0	0	0	0	0	0	Ö	0	0	ő
	45 ppm	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0
SUM	Control	0	0	0	0	0	1	1	0	0	0	0	0	1	1
	5 ppm	ő	Ö	0	ő	0	Ô	Ô	Ö	ő	0	ő	1	0	0
	15 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	45 ppm	ő	ő	0	0	0	0	Õ	Ô	0	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	2	2	2	2	2	2	2	2	2	0	0	0	0	0
	45 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	2	1	1
MINIGHT HEIOD	5 ppm	0	1	0	0	0	0	0	1	1	1	1	1	1	1
	15 ppm	1	1	2	1			3		3					
						2	2		4		3	3	3	2	3
	45 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
INTERNAL MASS	Control	2	2	2	2	3	4	4	3	3	3	4	4	5	5
	5 ppm	2	3	1	1	2	ĩ	1	1	1	1	2	1	1	1
	15 ppm	2	3	1	2	2	2	2	1	2	4	6	1	1	0
	45 ppm	0	ő	Ô	0	0	0	1	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin	istration '	Week-dav				
		100-7	101-7	102-7	103-7	104-7		
FROG BELLY	Control	1	1	1	0	1		
LINGA DESCEI	5 ppm	0	0	1	0	1		
	15 ppm	1	1	0	0	0		
	45 ppm	0	0	. 0	0	0		
SOILED PERI-GENITALIA	Control	0	0	0	0	0		
	5 ppm	1	0	1	0	0		
	15 ppm	0	0	ō	0	0		
	45 ppm	Ŏ	0	1	Ö	ŏ		
	40 ppm	v	v	1	V	V		
EXOPHTHALMOS	Control	1	1	2	2	2		
	5 ppm	0	0	0	0	0		
	15 ppm	2	2	3	4	3		
	45 ppm	2	2	2	2	3		
LACRIMATION	Control	0	0	0	0	0		
	5 ppm	0	0	0	0	0		
	15 ppm	0	0	0	0	0		
	45 ppm	1	1	1	1	0		
GUM	Control	1	1	1	1	1		
GONI		0	0	1 0				
	5 ppm				0	0		
	15 ppm	1	I	1	2	1		
	45 ppm	1	1	1	1	1		
CORNEAL OPACITY	Control	0	0	0	0	0		
	5 ppm	Ö	ŏ	ő	0	Ö		
	15 ppm		Ö	0	0	Ö		
	45 ppm	2	2	2	2	2		
	10 ppm	2		2	2	2		
EXTERNAL MASS	Control	1	1	1	1	1		
	5 ppm	1	1	1	1	1		
	15 ppm	3	3	2	2	1		
	45 ppm		2	2	2	2		
THERRIAL MACO		_	_					
INTERNAL MASS	Control	5	5	4	4	2		
	5 ppm		1	2	2	1		
	15 ppm	1	1	1	2	3		
	45 ppm	0	1	1	1	1		

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Adminia	stration W	eek-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
(PVP	Cantral	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
	5 ppm			0	0		•	-	0	.0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0 0	0 0	0	. 0	0	0	0	0	0
	45 ppm	0	U	U	U	U	Ü	U	U	0	U	U	v	U	U
M. NECK	Control	0	0	0	0	0	0	0	0.	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	C->+1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PUNELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm		•	0	-				-	•	-	-	0		
	15 ppm	0	0	-	0	0	0	0	0	0	0	0	•	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	ō	Ô	Õ	0	0	0	0	0	ō	0	Ô	ō	0	Ŏ
	15 ppm	Ö	Õ	ő	0	0	Ö	Ö	0	Ö	Ö	0	Ö	0	Ö
	45 ppm	Ö	Ő	Ö	0	0	0	0	0	0	Ŏ	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	Ö	0	0	0	Ö	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0
	45 ppm	Ô	0	0	0	0	0	0	0	0	0	0	0	Ô	0

ANEMIA

Control

5 ppm

15 ppm

45 ppm

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day _										<u>.</u>	
		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
ЕУЕ	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
•	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0.	0	0	0	0	0	0	0	0	0
INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 թբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

PAGE: 19 SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
i. eye	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 616	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	Ö	0	Ö	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	ő	0	0	ō	ő	ő	0	0	0	ő	Ö	Ŏ
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : AI 104

SEX : MALE

SEA · MALE															I NOD .
Clinical sign	Group Name		istration W												
		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	57-7
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
m. 15115	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	Ö	0	Ö	0	Ö	Ö	0	ő	0	Ö	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin	istration W	leek-day _											
		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	71-7
l. eye	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 1111	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	15 ppm 45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ö	0
I. FORELIMB	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0 -	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	1	0	. 0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

Clinical sign	Group Name		istration W												
		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	85-7
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. LIL	5 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö
	15 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	V	U	0	U	0	U	0	0	0	U	U	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	1	1	0	0	0	0	1	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admin	istration W	leek-day _											
		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	99-7
DVD	0 . 1		•	•	•	•	•		•	•	•	•	•		
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1 1	1 1	1 1	2 1	2 1	3 2	3 2	2 2	2 2	2 2	2 2	2	2
	45 ppm	1	1	1	1	1	1	2	4	. 4	4	4	2	2	2
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. FORELIMB	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	ő	0	0	Ö	0	0	Ö	0	Ö	Ö	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	ő	0
POSTERIOR DORSUM	Control	0	0	0	0	0	0	٥	0	٥	0	0	^	^	0
PIOCHOR NOTHERS	5 ppm	0	0	0	0	0	0	0 0	0 0	0 0	0	0 0	0	0	0 0
	15 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	a ppili	V	V	v	v	v	U	U	V	U	U	V	U	U	U
L GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	0	0
	5 ppm	0	0	0	0	0	ō	ō	ĩ	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	ō	ō	0	0	0	0	Ô
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
A 7AJ114.4.4	5 ppm	0	1	0	0	0	0	0	0	0	0	0	0	1 0	0
												-	-		
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO.: 0438

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-day _			 		
		100-7	101-7	102-7	103-7	104-7			
					-	·	 	 	
M. EYE	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	2	2	2	2	1			
	45 ppm	2	2	2	2	2			•
A. NECK	Control	0	0	0	0	0			
	5 ppm	Ö	0	ŏ	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
	mdd or	v		V	v	V			
M. FORELIMB	Control	1	1	1	1	1			
	5 ppm	0	0	0	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
M. BREAST	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
M. INTERSCAPULUM	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	1	1	0	0	0			
	45 ppm	0	0	0	0	0			
M. POSTERIOR DORSUM	Control	0	0	0	0	0			
	5 ppm	0	0	0	Õ	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	Ö	ő	0			
M. GENITALIA	Control	0	0	0	0	0			
	5 ppm	1	1	1	1	1			
	15 ppm	Ō	0	Ô	0	0			
	45 ppm	0	0	0	0	0			
ANEMIA	Control	0	0	0	0	0			
T PT ATTINT T T P	Control	0	0	0	0	0			
	5 ppm	0	0	0.	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-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
u ced	0.4.1	•	•	•	•	^	•	•		•	•	•	•	•	
ILCER	Control 5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0 0	0	0 0	0	0	0 0	0 0	0 0	0	0 0	0 0
	15 ppm 45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 թրա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm 45 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
TOWITOOLDID	5 ppm	0	ő	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	Ŏ	0	ŏ	ő	0	0	ő	ő	0	ő	Ö	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррт	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALL ANIMALS

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

Clinical sign	Group Name	A 32	4. 4.2 . 7	7 1- 1											
linical sign	Group Name	Admin: 15-7	stration W	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		·													
LCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 բջա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ
	15 ppm	0	Ö	Ō	0	- 0	ō	0	ő	0	0	0	Ö	0	Ö
	45 ppm	0	0	0	0	0	Ō	Ö	0	ő	ő	0	0	Ö	o o
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	Ö	Ō	Ŏ	Ŏ	o o	Ö	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	ő
	45 ppm	0	0	0	0	0	0	0	ō	ō	ŏ	ő	0	ő	0
ROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	Õ	Ö	ő	Ŏ	0	Ö	0	0	Ŏ	0	0
	15 ppm	0	0	0	0	0	0	ő	Ö	Ö	0	0	0	0	0
	45 ppm	0	ō	Ö	0	Ô	ŏ	Ö	ő	ő	Ö	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	ő	0	Õ	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	Ŏ	0	0	Ô	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	ő	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
The second secon	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	•	-			0
	45 ppm	0	0	0	0	0	0	0	0	0	0 0	0	0	0 0	0 0

ALL ANIMALS

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admin	istration W	leek-day _											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
						_									
LCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррш	Ö	0	Ö	0	0	Ö	0	Ō	0	0	0	0	0	0
	15 ppm	0	0	0	Ö	ŏ	0	0	0	0	0	0	0	0	0
	45 ppm	0	Ö	0	0	0	0	0	Ö	Ö	0	0	Ö	0	0
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILMONIGINE	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	-			-		
	15 ppm 45 ppm	0	0	0	0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0
ORTICOLLIS	C+1	0	0	•	•	0	^	•	•		•		•	•	
TOK! TOOLLIS	Control		-	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	Ö	0	0	0	0	0	0	1	0	0	0	0	0	0
	15 ppm	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	٥	0	0	0	0	•
WEST THEFORE SOOILD VINOR		0			0	0	0	0	0	0	0	0	0	0	0
	5 ppm		0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX: MALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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	57-7
									·						
ILCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	Ů.	0	0	0	Õ	0
	15 ppm	0	0	Ō	0	Ō	Ö	0	0	0	0	0	0	0	0
	45 ppm	Ö	0	Õ	0	0	ő	Ö	0	Ö	0	0	0	0	ő

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : MALE

JLCER EROSION	Control Control Control Control	0 0 0 0 0	0 0 0	0 0	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7	71-7
	5 ppm 15 ppm 45 ppm	0 0	0		0										
	5 ppm 15 ppm 45 ppm	0 0	0		0	_									
GROSION	15 ppm 45 ppm	0		Λ		0	0	0	0	0	0	0	0	0	0
GROSION	45 ppm		0	v	0	0	0	0	0	0	0	0	0	0	0
ROSION		0	•	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control		0	0	0	0	0	0	0	0	0	0	0	0	0
	CONTUI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	. 1	1	1	. 1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	C
	45 ppm	Ö	0	0	0	0	0	0	0	0	0	0	0	0	Ċ

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

Clinical sign Gro ULCER EROSION CRUSTA HEMORRHAGE	Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm 45 ppm Control 5 ppm 45 ppm Control 5 ppm 15 ppm 15 ppm 15 ppm 15 ppm 15 ppm 15 ppm	72-7 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0	74-7 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	75-7 0 0 0 0 0 0 0 0	76-7 0 0 0 0 0 0 0 0 0	77-7 0 0 0 0 0 0 0 0 0	78-7 0 0 0 0 0 0 0 0 1 0 0 0 0	79-7 0 0 0 0 0 0 0 0 0	80-7 0 0 0 0 0 0 0 0 0	81-7 0 0 0 0 0 0 0 0	82-7 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	85-7 0 0 0 0 0 0 0
EROSION CRUSTA HEMORRHAGE	5 ppm 15 ppm 45 ppm 45 ppm Control 5 ppm 45 ppm Control 5 ppm 45 ppm 45 ppm 45 ppm	0 0 1 0 0 0 0 0	0 0 1 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 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	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 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
ROSION RUSTA IEMORRHAGE	5 ppm 15 ppm 45 ppm 45 ppm Control 5 ppm 45 ppm Control 5 ppm 45 ppm 45 ppm 45 ppm	0 0 1 0 0 0 0 0	0 0 1 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 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	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 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
CRUSTA HEMORRHAGE	15 ppm 45 ppm 45 ppm 5 ppm 15 ppm 45 ppm Control 5 ppm 45 ppm 45 ppm 45 ppm	0 1 0 0 0 0 0	0 1 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 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 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 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 0 0 0 0 0 0 0 0 0 0 0
CRUSTA HEMORRHAGE	45 ppm Control 5 ppm 45 ppm Control 5 ppm 45 ppm Control 5 ppm 45 ppm 45 ppm Control 5 ppm	1 0 0 0 0 1 0 0 0	1 0 0 0 0 0	1 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 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 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
CRUSTA HEMORRHAGE	Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm 45 ppm 15 ppm 45 ppm Control 5 ppm	0 0 0 0 1 0 0	0 0 0 0 0 1 0 0 0	0 0 0 0 0	0 0 0 0 1 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 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 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
CRUSTA HEMORRHAGE	5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm	0 0 0 1 0 0 0	0 0 0 0	0 0 0 1 0 0	0 0 0 1 0 0	0 0 0 1 0 0	0 0 0 1 0	0 0 0 1 0	0 0 0 1 0	0 0 0 1 0 0	0 0 0 1 0	0 0 0 0 0 0	0 0 0	0 0 0	0 0 0 0
IEMORRHAGE	15 ppm 45 ppm 45 ppm Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm	0 0 1 0 0 0	0 0 1 0 0 0	0 0 1 0 0 0	0 0 1 0 0	0 0 1 0 0	0 0 1 0 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0
HEMORRHAGE	Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm	0 1 0 0 0	0 1 0 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 0 0	0 0 0 1	0 0 0	0 0 0
HEMORRHAGE	Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm	1 0 0 0	1 0 0 0	1 0 0 0	1 0 0	1 0 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	0 0 0	0 0 1	0 0	0 0 0
HEMORRHAGE	5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm	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
	15 ppm 45 ppm Control 5 ppm 15 ppm	0 0 0	0 0	0	0	0	0	0	0	0	0	0	1	0	0
	45 ppm Control 5 ppm 15 ppm	0 0	0	0	0	0				-			_	-	
	Control 5 ppm 15 ppm	0 0	0		•	-	0	0	0	^	^	^	^	Λ	^
	5 ppm 15 ppm	0		0	0					U	0	0	0	v	0
ORTICOLLIS	15 ppm		Ω		0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS		^	v	0	0	0	0	0	0	0	0	0	0	0	0
FORTICOLLIS		0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Control	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	1	Ō	Ō	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
	5 ppm	ŏ	0	Ö	ő	Ő	Ö	Ö	ŏ	ŏ	ŏ	0	Ö	Ŏ	ŏ
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE					•										PAGE :
Clinical sign	Group Name		stration W												
		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	99-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JLCER	5 ppm	0	0	0	0	0	Ö	0	0	0	0	ō	Ö	Ŏ	Ö
	15 ppm	0	. 0	0	0	Ŏ	0	0	ŏ	ō	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	1	1	1	1	1	1	1	2	3	2	2
	5 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	15 ppm	0	0	0	0	2	2	2	2	2	2	2	1	1	1
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm 45 ppm	0 0	0 0	0 0	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
TONTTOODED	5 ppm	0	0	0	0	. 0	ő	0	ŏ	Ŏ	0	ō	Ō	0	0
	15 ppm	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
IRREGULAR BREATHING	Control	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	5 ppm	0	2	0	0	0	0	0	0	0	0	0	0	1	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	U	0	Ţ

ALL ANIMALS

STUDY NO. : 0438
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-day _			 	 	
		100-7	101-7	102-7	103-7	104-7			
LCER	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
ROSION	Control	0	0	0	0	0			
	5 ppm	1	1	1	1	1			
	15 ppm	1	1	1	1	1			
	45 ppm	0	0	0	0	0			
RUSTA	Control	2	2	1	0	0			
******	5 ppm	1	1	2	2	2			
	15 ppm	1	1	0	0	0			
	45 ppm	0	0	0	0	0			
	10 ppm	· ·	v	v	·	Ů			
EMORRHAGE	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
ORTICOLLIS	Control	0	0	0	0	0			
	5 ppm	0	0	0	0	0			
	15 ppm	0	0	0	0	0			
	45 ppm	0	0	0	0	0			
ROLAPSE OF PENIS	Control	0	0	0	0	0			
	5 ppm	2	2	2	3	2			
	15 ppm	0	0	0	0	0			
	45 ppm		2	2	1	1			
RREGULAR BREATHING	Control	0	0	0	0	0			
MANUAL DIVINITION	5 ppm	0	0	0	0	0			
	15 ppm		0	0	0	0			
			0	0	0	0			
	45 ppm	Ţ	U	U	U	U			
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0			
	5 ppm		0	0	0	0			
	15 ppm		0	0	0	1			
	45 ppm		ő	0	Õ	0			

APPENDIX C 2

CLINICAL OBSERVATION: FEMALE

STUDY NO. : 0438 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-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

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-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
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	C
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	C
	5 ppm	0	0	0	0	0	0	0	0 .	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
VASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	C
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	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	(
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

SEX : FEMALE															PAGE - 3
Clinical sign	Group Name		istration W												
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Administration Week-day

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

Group Name

Control

5 ppm

15 ppm

45 ppm

Control

5 ppm

15 ppm

45 ppm

Control

5 ppm

15 ppm

45 ppm

REPORT TYPE : AL 104

SEX : FEMALE Clinical sign

Jinical sign	Group Name	Mullill	stration w	eek day											
		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 	57-7
DEATH	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	I
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	3	3	3
ORIBUND SACRIFICE	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	Q	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0

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FROG BELLY

PILOERECTION

TRAUMA

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE															PAGE: 3
Clinical sign	Group Name	Admin	istration W	leek-day _					·						
		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	71-7
DEATH	Control	1	1	1	2	2	2	2	2	2	2	2	2	2	2
DIMITI	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	45 ppm	4	4	5	5	5	5	5	5	5	6	6	6	6	6
MORIBUND SACRIFICE	Control	1	. 1	1	1	1	2	2	2	2	2	2	2	2	2
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	1	1	1	1	1	2	2	2	2	2	3
	45 ppm	1	1	1	1	1	1	1	2	2	3	3	3	3	3
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0 0	0 0	0	0	0	0 0	0
	45 ppm	0	0	0	0	0	0	U	U	U	U	U	U	U	U
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0 ,	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	2	1
	45 ppm	1	1	0	0	0	0	1	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-day											
		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	85-7
EATH	Control	2	2	2	2	2	2	3	3	4	4	4	4	4	4
22111	5 ppm	0	0	0	0	0	0	Ö	0	0	0	0	ī	1	ī
	15 ppm	2	2	2	3	3	4	5	5	5	5	6	6	7	7
	45 ppm	6	7	7	7	7	7	7	8	10	10	10	10	10	10
DRIBUND SACRIFICE	Control	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	5 ppm	0	0	0	0	0	0	0	1	2	2	2	2	2	4
	15 ppm	3	3	4	4	5	5	5	5	5	5	5	6	6	6
	45 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm 45 ppm	0	0	0 0	0 0	0 0	0	0	0 0	0 0	0 0	0	0 0	0	0
A OFFICIAL						•			•	•		•	•	•	•
ASTING	Control	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	. 0	1	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	45 ppm	0	0	0	1	1	1	1	0	0	0	0	0	0	1
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	15 ppm	3	3	2	1	2	2	1	1	1	2	1	0	0	0
	45 ppm	1	0	0	0	0	0	1	1	0	1	1	1	1	1

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

Clinical sign	Group Name	Admini	stration W	eek-day											
	oroup namo	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	99-7
DEATH	Control	4	4	4	4	5	5	6	6	6	7	7	7	7	8
וואמע	5 ppm	1	1	1	1	í	2	2	2	2	3	3	5	6	9
	15 ppm	8	8	8	8	9	9	10	10	10	10	10	11	12	12
	45 ppm	11	11	11	11	12	12	12	12	14	17	17	18	19	20
MORIBUND SACRIFICE	Control	3	3	3	3	3	5	5	5	5	5	5	5	5	5
	5 ppm	4	4	4	4	6	6	6	6	6	6	6	6	6	6
	15 ppm	6	6	7	7	7	7	7	7	7	7	7	7 5	7	7 6
	45 ppm	4	4	4	5	5	5	5	5	5	5	5	ð	5	b
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	1	1	1	1	. 1	2	2	2	2	2	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
PILOERECTION	Control	0	0	1	1	· 1	1	1	2	3	2	2	2	2	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	2	1	1	1
	15 ppm	0	0	0	0	0	1	0	0	0	0	0	1	1	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	1	0	0	1	0	0	0	0	1
	5 ppm	0	0	1	1	0	1	1	1	2	1	1	3	2	1
	15 ppm	0	0	0	0	1	1	0	0	1	1	2	1	1	3
	45 ppm	0	0	0	0	0	0	0	1	1	0	1	0	0	1

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admin	istration '	Week-day _		
-	-	100-7	101-7	102-7	103-7	104-7
DEATH	Control	8	10	10	10	12
	5 ppm	9	9	10	12	13
	15 ppm	13	13	14	14	15
	45 ppm	20	21	21	21	22
MORIBUND SACRIFICE	Control	5	5	5	5	5
MONIDOND BROKER TOD	5 ppm	6	6	6	6	6
	15 ppm	7	7	7	8	8
	45 ppm	6	6	6	6	6
HUNCHBACK POSITION	Control	1	0	0	0	1
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0 0	0 0	0
	45 ppm	0	0	U	U	U
PARALYTIC GAIT	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
WASTING	Control	1	1	2	2	2
MIND I 1110	5 ppm		1	1	0	0
	15 ppm	Ö	Ô	Õ	1	1
	45 ppm	ő	ő	0	Ô	0
DILOPPOSTON		•		4	4	•
PILOERECTION	Control	2	1	1	4	3
	5 ppm	1	2	2	1	2
	15 ppm		0	1 0	1	1
	45 ppm	0	0	U	1	0
TRAUMA	Control	0	0	0	0	0
	5 ppm		0	0	0	0
	15 ppm		0	0	0	0
	45 ppm		0	0	0	0
FROG BELLY	Control	1	1	1	1	1
TROO BEEE!	5 ppm		2	3	2	3
	15 ppm		2	2	2	2
	45 ppm	2	1	1	1	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

SEX : FEMALE

DEA - PEMALE															I AGE .
Clinical sign	Group Name		stration W												
		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
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOIDED TEXT CENTILISM	5 ppm	Ö	ů.	Õ	ő	ŏ	Ŏ	ŏ	. 0	0	ŏ	Ö	Ŏ	Ŏ	ō
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
,	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	· 0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	2	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm 45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	то ррш	v	·	v	v	v	·		v	· ·	·	ŭ	·	·	·
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UM.	Control	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
On	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	ő	0	0	Ö	ő	Ö
	45 ppm	0	0	0	ő	0	Ö	0	0	Ö	0	0	Ö	Ŏ	ő
										•	•	•	•	•	•
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0 -	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	Ö	0	0	0	0	0	Ŏ	0	0	0	Õ	ő	0
	15 ppm	0	ő	ő	0	0	0	0	Ö	0	0	0	0	0	0
	45 ppm	Ö	ŏ	0	Ö	0	Ö	Ö	0	o o	Õ	Õ	0	Ö	0
I. PERI-MOUTH	Cantral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIERI MOUIII	Control	0 0	0	0	0	0	0		0	0	0	0	0	0	0
	5 ppm				0		0	0		0			0	0	0
	15 ppm	0	0 0	0 0	0	0	0	0 0	0 0	0	0	0	0	0	0
	45 ppm	0	U	U	U	U	0	U	U	U	U	υ	U	U	U
I. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name		istration V	leek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	. 15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
	45 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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	57-7
OTIES DEDI GENIMALIA	0 . 1	•	0	•	^	^	^	^	•	•	٥	^	^	^	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	U	0	0
COPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	ő	Ö	Ö	Ö	0	0	ŏ	Ŏ	Ö	ō	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIII VIII VIII II	5 ppm	Ö	Ö	0	0	0	0	Ö	Õ	Ŏ	0	ů.	0	0	0
	15 ppm	Ö	0	0	Ö	0	Ö	0	Ö	Ö	Ö	0	Ö	0	Ö
	45 ppm	ō	Ö	0	ō	0	ŏ	0	0	0	Õ	0	Ō	0	0
KTERNAL MASS	Control	0	1	1	0	0	1	1	1	1	1	i	1	1	2
	5 ppm	ů	0	Ô	0	0	Ō	0	Ô	0	ō	0	Ô	0	0
	15 ppm	0	Ŏ	Ö	Ö	0	Ö	0	0	Ö	Ö	0	0	0	0
•	45 ppm	0	0	0	0	0	0	0	Ö	Ö	ŏ	o o	0	0	0
VTERNAL MASS	Control	2	1	1	1	1	1	1	0	0	1	1	1	1	1
TILLIO GILL IN IDD	5 ppm	1	1	1	1	1	1	2	3	3	4	. 4	3	3	3
	15 ppm	0	0	0	0	0	1	1	0	1	1	0	1	1	2
	45 ppm	2	2	1	1	1	1	1	1	1	1	1	1	1	1
DDDT 1401MI						_									
.PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Group Name	Admin	istration W	/eek-day _											
	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	71-7
														_
														0
														0 0
		0	0	0	0	0	0	0	0	0	0	0	0	0
											-			0
										-	-	•		0
														0
45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	Λ	n	Ω	n	n	Λ	Ω	n	n	n	n	0	n	0
												-		ő
							-					-	-	0
45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	9	9	n	1	1	1	1	1	1		0	0	0	2
					_									0
	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0
											_		-	1
								_				-		0
												6		6
45 ppm	2	2	1	1	1	1	1	0	0	0	0	0	0	1
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	o o	0
	0	0	0								_	-		ō
45 ppm	0	0	0	Ō	Ō	0	0	0	0	0	Ö	ő	0	Ô
Control	0	0	n	n	n	n	n	n	0	n	٥	n	0	0
												-	-	0
									-	-	-	-	-	0
														0
	Control 5 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm 15 ppm 45 ppm Control 5 ppm 15 ppm 16 ppm 16 ppm Control 5 ppm 17 ppm 18 ppm Control 5 ppm 18 ppm Control 5 ppm 19 ppm Control 5 ppm	Control 0 5 ppm 0 15 ppm 0 15 ppm 0 45 ppm 0 Control 0 5 ppm 0 15 ppm 0 Control 2 5 ppm 0 15 ppm 0 15 ppm 0 15 ppm 0 15 ppm 0 25 ppm 0 15 ppm 0 Control 1 5 ppm 2 15 ppm 2 15 ppm 2 15 ppm 2 Control 0 5 ppm 0 15 ppm 0 15 ppm 0 Control 0 5 ppm 0 15 ppm 0 Control 0 5 ppm 0 Control 0	Control 0 0 0 15 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Control 0 0 0 0 0 15 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Control O O O O O O O O O	Control 0 0 0 0 0 0 0 0 0	Control O O O O O O O O O	Control O O O O O O O O O	Control O O O O O O O O O	Control O O O O O O O O O	Control O O O O O O O O O	Control O O O O O O O O O	Control O	Control O O O O O O O O O

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : Al 104

SEX: FEMALE

Clinical sign	Group Name	Admini	istration W												
	· · · · · · · · · · · · · · · · · · ·	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	85-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррт	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	45 ppm	0	0	2	2	2	2	2	2	2	3	3	3	3	3
INTERNAL MASS	Control	1	2	2	2	2	1	2	2	2	2	2	2	2	2
	5 ppm	0	1	2	3	3	3	3	2	1	2	2	1	1	2
	15 ppm	6	6	6	5	4	3	3	3	3	4	3	2	3	3
	45 ppm	2	1	2	2	2	2	2	2	1	î	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	ō	Ŏ	Ō	ō	0	0	Ö	ō	Ŏ	ů 0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	o O
	45 ppm	0	0	0	0	0	0	0	Ö	0	Ö	0	0	0	Ö
M. MANDIBULAR	Control	0	0	0	0	0	0		0	0	0	0	0	0	0
	5 ppm	0	0	Ŏ	0	0	Ö	ő	Ö	Ŏ	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0
	45 ppm	ő	0	. 1	1	1	I	1	1	. 1	1	1	1	1	1

STUDY NO. : 0438
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

SEA · PEMALE															
Clinical sign	Group Name	Admin	istration V	Week-day											
		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	99-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	1	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	ō	0	0	0	0	Ō	0	0
EXTERNAL MASS	Control	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	1	1	1	1	1	1	1	1	1	0	0
	45 ppm	3	3	3	3	2	2	2	2	î	1	1	î	1	1
INTERNAL MASS	Control	2	2	2	2	1	0	0	3	3	2	2	2	2	2
	5 ppm	2	2	2	2	3	2	2	2	2	3	4	4	3	2
	15 ppm	2	2	1	1	1	1	0	0	2	3	1	2	2	2
	45 ppm	ō	0	Ō	0	1	1	2	2	1	0	Õ	0	2	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	ő	Ö	0	0	Ö	0	0	0	0	ů	0	0	0	0
	15 ppm	0	0	0	Ö	0	0	0	Ö	Ö	0	0	0	0	Ö
	45 ppm	0	ő	Ô	0	ō	0	0	0	ő	0	Ö	Ö	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	Ö	Ö	0	Ŏ	Ö	Ö	ő	Ô	0	0	Ö	Ö
	15 ppm	0	0	0	1	1	1	1	1	1	1	1	1	0	Ö
	45 ppm	1	1	1	1	0	0	0	Ô	0	0	0	0	0	0

STUDY NO. : 0438

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration 1	Week-day		
		100-7	101-7	102-7	103-7	104-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0
SOILED FERT-GENITALIA	5 ppm	0	0	0	1	1
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
	45 ինա	U	U	U	U	
EXOPHTHALMOS	Control	0	0	0	0	1
	5 ppm	1	2	2	2	2
	15 ppm	Ô	0	0	0	0
	45 ppm	0	Ŏ	0	Õ	Õ
	To PP.	-	•	•	•	-
GUM	Control	0	0	0	0	0
	5 ppm	0	1	1	1	Ō
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	1
	5 ppm	0	0	0	0	1
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
EVERDIAL MACC	a . •	•	_		_	
EXTERNAL MASS	Control	0	1	1	1	1
	5 ppm	0	1	1	1	2
	15 ppm	0	0	0	1	1
	45 ppm	1	1	1	1	1
INTERNAL MASS	Control	2	4	4	5	4
THI THOUSE	5 ppm	2	3	3	3	4 3
	15 ppm	2	4	4	3	3
	45 ppm	1	2	2	3	3
	10 bbut	1		u	J	J
M. PERI-MOUTH	Control	0	1	1	1	1
	5 ppm	Ö	Ō	Ô	0	Ô
	15 ppm	Ō	0	Ö	0	0
	45 ppm	ō	0	0	0	Ö
	FF		•	-	-	-
M. MANDIBULAR	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

SEA · PEMALE															11102 - 1
Clinical sign	Group Name	Admini	stration W												
		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 DEDI DAD	Cantual	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control 5 ppm	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm 15 ppm	0	0	0	0	0	0	0	. 0	0	0	0	Ö	0	Ö
	45 ppm	0	0	ō	0	0	ő	ő	ő	0	0	Ő	0	Ö	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration \	eek-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. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					_				_	•	_	_	_	^	^

0

15 ppm

45 ppm

0

0

0

0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : Al 104

SEX : FEMALE

PAGE	:	51	

Clinical sign	Group Name	Admini	stration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
I. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. I IMIL DAN	5 ppm	Ö	0	0	0	0	0	0	0	0	ő	0	Ö	Ö	0
	15 ppm	0	0	Ö	0	Ö	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	Ö	0	0	0	0	ō	0	0	0	0	0	0
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. HINDLIMB	Control	0	0	.0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : FEMALE

Clinical sign	Group Name	Admin	istration P	leek-day _											
		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	57-7
M, PERI EAR	Control	0	0	0	0	•	^	^	0	0	0	^	•	^	•
M. FERI BAR	Control 5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	5 բրա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm 45 ppm	0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	0	0
V (Photon)											Ť		-	Ť	v
M. ABDOMEN	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0.	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W	leek-day _											
		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	71-7
I. PERI EAR	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	15 ppm 45 ppm	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
	45 ppm	U	v	U	U	U	U	U	U	U	U	U	U	U	V
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	Ō	Ŏ	0	0	0	0	0	Ŏ	0	Ö	0	0	Ö	o
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. HINDLIMB	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438
ANIMAL : MOUSE Crj:BDF1

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

REPORT TYPE : A1 104

Clinical sign	Group Name	Admin:	istration W	eek-day _											
		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	85-7
I. PERI EAR	Control	1	,	1	1		•	4	•						
L PEKI EAK	Control 5 ppm	1 0	1 0	1 0	1 0	1 0	1 0	1 0	1 0	1	1	1	1	1	1
	15 ppm	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0
	13 ppm 45 ppm	0	0	0	0	0	0	0	0	0	0 0	0	0	0 0	0 0
1. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ō	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	. 0	0	0 .	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	45 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
	5 ррт	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0438 CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		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	99-7
DENT DAD	0	1	7	4	1		0	0	0	^		•	•	^	•
.PERI EAR	Control 5 ppm	1 0	1	1	1 0	1	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	v	V	U	V	V	V	V	V	U	U	U	U	V	V
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	^	0
. POREDIMB	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	•	v	•	·	v	V	V	٧	V	. •	V	V	V	U
. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	Ö	Ō	0	Ŏ	Ö
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 p pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
.HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ
	15 ppm	0	0	0	0	0	0	0	0	Ö	0	Õ	ō	Ö	ő
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	Ŏ	Ŏ	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	Õ
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	1	Ō	0	Ō
	15 ppm	0	0	0	0	0	0	0	0	0	Ō	0	Ö	Ŏ	ő
	45 ppm	0	0	0	0	0	0	0	0	0	0	Õ	Ö	0	Ö

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration	Week-day		
		100-7	101-7	102-7	103-7	104-7
M. PERI EAR	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
M. NECK	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	Ö	ō	Ō	Ö	Ö
	45 ppm	ő	0	0	Õ	0
	до ррш	v	•	•	v	v
M. FORELIMB	Control	0	0	0	0	0
and the second of the second	5 ppm	0	0	0	0	0
	15 ppm	ő	0	0	0	0
	45 ppm	0	Ő	0	0	0
	#S bhu	U	Ū	U	U	V
M. BREAST	Control	0	0	0	0	0
W. DICEARD 1	5 ppm	0	1	1		0
					1	2
	15 ppm	0	0	0	1	1
	45 ppm	1	1	1	1	1
M. ABDOMEN	Λ±- 1	^	^	^	^	^
M. ADDOMEN	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
W UINDI TIO	= "	_	_			
M. HINDLIMB	Control	0	0	0	0	0
	5 ppm	0 .	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
	45 ppm	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0
	5 ppm	0	0	0	0	0
	15 ppm	0	0	0	0	0
•	45 ppm	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Admini	stration W	ek-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
PROCYON	0 . 1		4	^		•		•				_			
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррт	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	Ö	Ö	0	o o	Ô	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	Ô	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	Õ	Ô	0	Ō	0
	45 ppm	0	0	0	0	0	0	0	0	Ō	Ō	ō	Ö	0	ō
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	ō	Ö	0	0	0	0	0	0	n
	15 ppm	0	0	0	0	0	0	0	Õ	0	ō	Ô	0	0	0
	45 ppm	0	0	0	0	0	0	0	Õ	0	Ö	o o	0	0	n

(HAN190)

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Admini	stration W	eek-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
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	n	0	0	0
	5 ppm	0	0	0	0	0	0	0	Ö	Ö	Ô	Ô	n	ñ	n
	15 ppm	0	0	0	0	0	0	0	Ů.	Ö	0	n	ň	0	0
	45 ppm	0	0	Ö	0	0	0	Ö	0	ő	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	Ö	0	Ö	0	0	0	0	n	0	0	0
	15 ppm	0	0	0		ő	Ö	Ö	0	0	0	n	0	0	0
	45 ppm	0	0	Ö	.0 0	0	0	0	0	0	0	0	0	0	0

(HAN190)

STUDY NO. : 0438
ANIMAL : MOUSE Crj:BDF1

CLINICAL OBSERVATION (SUMMARY)

REPORT TYPE : A1 104

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ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Admini	stration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	37-7	38-7	39-7	40-7	41-7	42-7	43-7
EROSION	Control 1	^	0	0	•	^	•		•	۰	•				
NOICON	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	.0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0 0	0 0	0 0	0	0	0	0	0	0
	45 ppm	Ü	U	U	U	U	U	U	U	U	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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	Λ	n	0	0	٥
	5 ppm	0	0	0	0	0	0	0	Ö	ō	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	1	1	1	1	0	0	0	0	0	0	0	Ö	0	Ö
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	ō
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ppm	0	0	0	0	0	0	0	0	Ŏ	Ö	Ö	ŏ	Ŏ	o
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	Ŏ	ő

(HAN190)

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

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Clinical sign	Group Name	Admini	stration \	eek-day											
		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	57-7
PDOC TON	0 . 1	^		•	•	٥	0		0	0	٥	0	^	٥	0
EROSION	Control 5 ppm	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
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	V	U	U	V	U	U	V	V	U	U	U	U	U	U
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	-0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	1	1	2	2	0	0	0
RREGULAR BREATHING	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 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
	5 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0438

PAGE: 61 SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-day _											
	`	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	71-7
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190) BAIS 4

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 62

Clinical sign	Group Name	Admini	stration W	eek-day											
		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	85-7
EROSION	Company 1	^	۸	0	0	۸	0	•	٥	0	0	0	0	0	0
ROSTON	Control	0	0	0	0	0	0	0	0	0	0	-	0	0	0
	5 ppm	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0
	15 ppm			0								0	-	0	
	45 ppm	0	0	U	0	0	0	0	0	0	0	U	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	Ö	0	Ö	Ö	ő	Ö	Ŏ	0	ő	Ö	Ö	0	0
	15 ppm	0	0	0	Ó	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
RREGULAR BREATHING	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	0
	15 ppm	0	1	1	Ō	0	0	o O	0	0	1	0	0	0	0
	45 ppm	0	ō	Ô	ŏ	Ö	ő	0	í	Ŏ	ō	Ö	ő	ő	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	Ō	0	0	0	0	Ō	0	0	0	0	1	1	1	Ó
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	Õ	0	ő	Ö	0	0	0	0	0	0	0	Ö	0	0
		•	•	•	•	•	•	•	•	•	•	•	•	•	•

(HAN190)

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : Al 104

SEX : FEMALE

PAGE: 63

Clinical sign	Group Name	Admini	stration W	eek-day _											
		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	99-7
ROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	1	1	1	1	1	1	2	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	45 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0

BAIS 4 (HAN190)

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE PAGE : 64

Clinical sign	Group Name	Admin	istration '	Week-day _				 	 	
- -		100-7	101-7	102-7	103-7	104-7	·	 	 	
EROSION	Control	0	0	0	0	1				
	5 ppm	0	0	0	0	0				
	15 ppm	0	0	0	0	0				
	45 ppm	0	0	0	0	0				
CRUSTA	Control	0	0	1	1	0				
	5 ppm	0	0	0	0	0				
	15 ppm	0	0	0	0	0				
	45 ppm	0	0	0	0	0				
TORTICOLLIS	Control	0	0	1	1	1				
	5 ppm	0	0	0	0	0				
	15 ppm	0	0	0	0	0 0				
	45 ppm	0	0	0	0	0				
IRREGULAR BREATHING	Control	1	0	0	1	0				
	5 ppm	0	0	0	0	0				
	15 ppm	0	0	1	0	0				
	45 ppm	0	0	0	1	0				
RESPIRATORY SOUND ABNOR	Control	1.	0	0	0	0				
	5 ppm	0	0	0	0	0				
	15 ppm	0	0	0	0	0				
	45 ppm	0	0	0	0	0				

(HAN190)

APPENDIX D 1

BODY WEIGHT CHANGES: MALE

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES
ALL ANIMALS

(SUMMARY)

PAGE: 1

Name	Administration	week-day					
	0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	23.5± 0.9	25.0± 1.0	25.8± 1.1	26.3± 1.3	26.9± 1.3	27.4± 1.5	28.2± 1.7
5 ррт	23.5± 0.9	24.8± 0.9	25.6± 1.1	26.1± 1.1	26.6± 1.2	27.1± 1.4	27.9± 1.5
15 ррт	23.5± 0.9	25.0± 1.1	25.8± 1.1	26.3± 1.4	26.8± 1.4	27.6± 1.7	28.1± 1.8
45 ppm	23.5± 0.9	24.5± 1.0	24.8± 1.1**	25.2± 1.2**	25.5± 1.2**	25.7± .1.2**	25.9± 1.2**
Significant differen	ce; * : P ≦ 0.05	**: P ≤ 0.01		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

Administration week-day_ Group Name 10-7 11-7 12-7 13-7 7-7 8-7 9-7 32.7 ± 2.9 29.1± 2.0 29.4± 1.9 30.2 ± 2.1 30.7± 2.3 31.7 ± 2.5 32.3 ± 2.5 Control 32.3± 2.4 33.1± 2.4 30.3 ± 2.0 31.6± 2.2 28.9± 1.8 29.2± 1.8 29.8± 1.9 5 ppm 33.1± 2.4 30.2± 2.3 30.9 ± 2.2 31.8± 2.2 $32.5\pm\ 2.4$ 29.0± 1.9 29.2± 1.9 15 ppm 27.1± 1.4** 27.4± 1.5** 27.6± 1.5** 28.0± 1.6** 28.3± 1.7** 45 ppm 26.4± 1.3** 26.7± 1.3**

Significant difference; $*: P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

p Name	Administration	week-day					
	14-7	18-7	22-7	26-7	30-7	34-7	38-7
Control	33.6± 2.7	36.3± 3.1	38.5± 3.5	40.2± 3.9	41.5± 4.1	43.1± 4.5	44.7± 4.6
5 ppm	33.8± 2.4	36.8± 2.4	39.0± 2.9	40.8± 3.0	42.6± 3.5	44.2± 3.7	45.7± 3.7
15 ppm	33.0± 2.9	36.7± 2.7	38.7± 2.9	40.0± 3.5	41.8± 3.7	43.6± 3.7	45.0± 3.9
45 ppm	28.2± 1.8**	29.5± 1.8**	30.3± 1.9**	31.3± 2.2**	31.9± 2.3**	32.7± 2.8**	33.5± 3.0**
Significant difference	; *: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

Administration week-day_ Group Name 62-7 66-7 58-7 42 - 746-7 50-7 54-7 50.5 ± 5.2 49.1± 4.7 50.1 ± 5.2 45.4± 4.3 46.5± 4.5 47.9 ± 4.2 48.4± 4.6 Control 51.6± 3.6 46.4± 3.6 47.5± 3.8 48.5± 3.7 49.3± 3.8 49.9± 3.8 50.7± 3.9 5 ppm 50.3 ± 3.5 51.1± 3.5 47.8± 4.4 48.4± 4.7 49.3± 3.6 45.8± 3.9 46.7± 4.3 15 ppm 36.2± 4.1** 37.5± 4.7** 37.6± 4.5** 45 ppm 33.7± 3.2** 34.4± 3.3** 35.2± 3.7** 35.7± 3.8** Test of Dunnett Significant difference; *: P ≤ 0.05 **: $P \leq 0.01$

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES (SUMMARY) ALL ANIMALS

up Name	Administration	week-day					
	70-7	74-7	78-7	82-7	86-7	90-7	94-7
Control	50.8± 5.3	51.0± 5.8	51.8± 5.8	52.2± 6.4	51.9± 6.6	51.7± 7.1	51.8± 7.8
5 ppm	51.9± 3.8	52.4± 4.0	53.3± 4.1	53.2± 4.7	52.8± 5.6	52.4± 6.3	52.4± 7.2
15 ppm	51.0± 3.6	51.1± 4.0	51.6± 4.8	51.3± 5.3	50.5± 6.1	48.7± 6.9	49.1± 7.9
45 ppm	37.8± 5.1**	38.2± 5.7**	39.0± 5.3**	38.9± 5.5**	38.6± 5.6**	38.2± 5.1**	37.8± 5.1**

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

Name	Administration	week-day			
	98-7	102-7	104-7		- ···- <u>-</u> ···
Control	51.2± 8.3	51.0± 7.9	50.1± 8.0		
5 ppm	52.0± 7.6	51.0± 7.1	50.1± 6.8		
15 ppm	48.9± 8.0	46.9± 8.8	46.5± 8.6		
45 ppm	38.4± 4.9**	38.1± 5.3**	38.3± 5.1**		

BAIS 4

(HAN260)

APPENDIX D 2

BODY WEIGHT CHANGES: FEMALE

ANIMAL : MOUSE Crj:BDF1

: g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

PAGE: 7 Group Name Administration week-day_ 3-7 4-7 5-7 6-7 1-7 2-7 0-0 21.6± 1.1 21.7 ± 1.1 22.5 ± 1.2 19.1± 0.8 19.9± 0.9 20.7 ± 1.0 21.1± 1.0 Control 21.6± 1.0 22.0 ± 1.2 22.7± 1.3 20.7 ± 1.0 21.2± 1.1 19.1 ± 0.8 19.8± 1.0 5 ppm 22.0 ± 1.6 21.4± 1.0 21.6± 0.9 15 ppm 19.1± 0.8 19.7± 1.1 20.6± 1.0 21.0 ± 1.0 20.6± 0.9* 20.7± 0.9** 21.0± 1.0** 21.4生 1.0** 19.1± 0.8 19.6± 1.0 20.1± 0.9** 45 ppm Significant difference; $*: P \leq 0.05$ Test of Dunnett ** : $P \leq 0.01$

(HAN260)

BODY WEIGHT CHANGES ALL ANIMALS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 8

Name	Administration	week-day					
	7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	23. 1± 1. 2	23.1± 1.1	23.7± 1.2	23.8± 1.1	24.3± 1.1	24.3± 1.1	24.7± 1.4
5 ppm	23.3± 1.2	23.3± 1.3	23.7± 1.3	23.9± 1.4	24.5± 1.4	24.4± 1.5	24.7± 2.1
15 ppm	23.0± 1.2	22.9± 1.0	23.7± 1.4	23.6± 1.0	23.9± 1.3	24.2± 1.5	24.4士 1.4
45 ppm	22.0± 1.0**	22.0± 1.0**	22.8± 1.0**	22.7± 1.0**	23.2± 1.0**	23.2± 1.1**	23.4± 1.2**
Significant difference	; $*: P \leq 0.05$	**: P ≤ 0.01		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

PAGE: 9

Administration	week-day					
14-7	18-7	22-7	26-7	30-7	34-7	38-7
24.9± 1.2	26. 4± 1. 7	27.3± 2.0	28.0± 2.3	29.0± 2.6	29.3± 2.9	30.0± 3.1
25.5± 1.7	26.7± 2.1	27.5 ± 2.2	28.2± 2.6	28.9± 2.9	29.6± 2.9	30.6± 3.7
24.4± 1.3	25.7± 1.5	26.4± 1.4	27.3± 2.0	27.9± 1.8	28.7± 2.4	29.0± 2.8
23.2± 1.1**	24.0± 1.2**	24.4± 1.3**	25.1± 1.5 * *	25.5± 1.5**	25.7± 1.4**	25.7± 1.4**
a: *:P≤0.05	**: P ≤ 0.01		Test of Dunnett			
	$14-7$ 24.9 ± 1.2 25.5 ± 1.7 24.4 ± 1.3 $23.2\pm 1.1**$	24.9 ± 1.2 26.4 ± 1.7 25.5 ± 1.7 26.7 ± 2.1 24.4 ± 1.3 25.7 ± 1.5 $23.2\pm 1.1**$ $24.0\pm 1.2**$	$14-7$ $18-7$ $22-7$ 24.9 ± 1.2 26.4 ± 1.7 27.3 ± 2.0 25.5 ± 1.7 26.7 ± 2.1 27.5 ± 2.2 24.4 ± 1.3 25.7 ± 1.5 26.4 ± 1.4 $23.2 \pm 1.1 **$ $24.0 \pm 1.2 **$ $24.4 \pm 1.3 **$	$14-7$ $18-7$ $22-7$ $26-7$ 24.9 ± 1.2 26.4 ± 1.7 27.3 ± 2.0 28.0 ± 2.3 25.5 ± 1.7 26.7 ± 2.1 27.5 ± 2.2 28.2 ± 2.6 24.4 ± 1.3 25.7 ± 1.5 26.4 ± 1.4 27.3 ± 2.0 $23.2 \pm 1.1 **$ $24.0 \pm 1.2 **$ $24.4 \pm 1.3 **$ $25.1 \pm 1.5 **$	$14-7$ $18-7$ $22-7$ $26-7$ $30-7$ 24.9 ± 1.2 26.4 ± 1.7 27.3 ± 2.0 28.0 ± 2.3 29.0 ± 2.6 25.5 ± 1.7 26.7 ± 2.1 27.5 ± 2.2 28.2 ± 2.6 28.9 ± 2.9 24.4 ± 1.3 25.7 ± 1.5 26.4 ± 1.4 27.3 ± 2.0 27.9 ± 1.8 $23.2 \pm 1.1 **$ $24.0 \pm 1.2 **$ $24.4 \pm 1.3 **$ $25.1 \pm 1.5 **$ $25.5 \pm 1.5 **$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(HAN260)

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

oup Name	Administration	week-day					
	42-7	46-7	50-7	54-7	58-7	62-7	66-7
Control	30.4± 3.1	31.2± 3.5	31.3± 3.6	32.3± 4.0	32.8± 3.8	33.3± 4.3	33.7± 4.3
5 ppm	30.7± 3.1	31.2± 4.0	31.5± 3.9	32.6± 3.9	33.2± 4.5	33.6± 4.4	34. 2± 4. 5
15 ppm	29. 2± 2. 8	30.5± 2.3	30.3± 2.7	31.2± 2.9	32.1± 3.0	33.2± 3.1	33.8± 3.4
45 ppm	25.7± 1.7**	26.1± 1.9**	26. 4± 1. 9 **	26.7± 2.2**	26.9± 1.7**	27.8± 1.9 * *	27.9± 2.0**
							·
Significant difference;	*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
N260)							

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)

ALL ANIMALS

Name	Administration	Administration week-day										
	70-7	74-7	78-7	82-7	86-7	90-7	94-7					
Control	33.9± 4.4	34.6± 4.5	34.7± 4.6	34.8± 4.7	34.4± 4.9	34.1± 5.2	34.2± 5.3					
5 ppm	34.5± 4.7	34.3± 4.7	34.9± 5.7	35.2± 5.8	35.3± 5.1	35.6± 5.2	35.5± 4.7					
15 ppm	34.1± 3.6	34.9± 3.9	34.8± 3.7	35.0± 4.3	34.8± 3.4	34.7± 3.9	34.8± 4.5					
45 ppm	27.7± 2.1**	28. 2± 2. 2**	28.5± 3.0**	28.5± 2.7**	28.4± 2.4**	28.6± 2.5**	29.4± 3.6**					
Significant differen	co * * P < 0.05	** : P ≤ 0.01		Test of Dunnett			-					

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS (SUMMARY)

Name	Administration	week-day			
	98-7	102-7	104-7		
Control	34.0± 5.3	33.9± 3.6	33.4 ± 4.2		
5 ррт	36.0 ± 5.5	35.6± 5.0	36.0± 5.0		
15 ppm	35.2 ± 4.5	35.2± 4.4	35.8± 5.3		
45 ppm	28.9± 2.7**	29.6± 4.0**	29.6± 3.2**		•
49 ppm	20. 5	20.02 1.03	29.0 = 3.2**		
	 				
Significant differenc	ce; *:P≦0.05	⇔: P ≤ 0.01		Test of Dunnett	
>					· · · · · · · · · · · · · · · · · · ·

(HAN260)

BAIS 4

APPENDIX E 1

FOOD CONSUMPTION CHANGES: MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1 ALL

UNIT : g

STUDY NO. : 0438

REPORT TYPE : A1 104

SEX : FEMALE

SEA - FEMALE

roup Name	Administration 1-7(4)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7 (7)
Control	3.3± 0.2	3.3± 0.3	3.4± 0.2	3.5± 0.2	3.7± 0.2	3.8± 0.2	3.9± 0.3
5 ppm	3.3± 0.3	3.5± 0.2**	3.6± 0.3**	3.7± 0.2**	3.8± 0.3**	3.9± 0.3*	4.0± 0.3
15 ppm	3.3± 0.2	3.3± 0.2	3.5± 0.2	3.5± 0.2	3.6± 0.2	3.8± 0.4	3.9± 0.4
45 ppm	3.4± 0.2	3.2± 0.2*	3.4± 0.2	3.3± 0.2**	3.4± 0.2**	3.6± 0.2**	3.5± 0.3**
Significant differenc	e; *: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			

PAGE: 7

(HAN260) BAIS 4

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

12-7(7)	13-7(7)	
	' ' ' ' '	14-7(7)
4.0± 0.3	4.0± 0.3	4.1± 0.4
4.0± 0.3	4.0± 0.4	4.2± 0.3*
4.1± 0.3	4.1± 0.4	4.1± 0.3
3.6± 0.3**	3.6± 0.3**	3.7± 0.3**
		· · · · · · · · · · · · · · · · · · ·

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Name	Administration	week-day(effective)		-			
	18-7 (7)	22-7 (7)	26-7 (7)	30-7(7)	34-7 (7)	38-7 (7)	42-7 (7)
Control	4.2± 0.3	4.3± 0.3	4.2± 0.4	4.4± 0.4	4.4± 0.4	4.4± 0.5	4.6± 0.4
5 ppm	4.3± 0.4	4.3± 0.4	4.3± 0.4	4.3± 0.4	4.4± 0.5	4.5± 0.6	4.7± 0.4
15 ppm	4.2± 0.4	4.2± 0.4	4.3± 0.4	4.3± 0.4	4.4± 0.4	4.3± 0.5	4.4± 0.5*
45 ppm	3.7± 0.5**	3.6± 0.3**	3.7± 0.4**	3.8± 0.3**	3.8± 0.5**	3.8± 0.4**	3.8± 0.4**

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	week-day(effective)					
	46-7(7)	50-7(7)	54-7 (7)	58-7 (7)	62-7(7)	66-7(7)	70-7(7)
Control	4.5± 0.5	4.2± 0.5	4.5± 0.5	4.5± 0.5	4.4± 0.6	4.6± 0.5	4.4± 0.5
5 ppm	4.5± 0.5	4.2± 0.5	4.5± 0.4	4.7± 0.4	4.5± 0.5	4.6± 0.5	4.4± 0.5
15 ppm	4.5± 0.4	4.2± 0.5	4.3± 0.4	4.5± 0.4	4.7± 0.5	4.6± 0.5	4.4± 0.5
45 ppm	3.9± 0.4**	3.7± 0.4**	3.7± 0.4**	3.7± 0.3**	4.0± 0.4**	3.9± 0.4**	3.7± 0.3**
ignificant differenc	e; *:P≦0.05 *	*: P ≤ 0.01		Test of Dunnett			

BAIS 4

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(HAN260)

STUDY NO. : 0438 FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

roup Name	Administration 74-7(7)	week-day(effective) 78-7(7)	82-7 (7)	86-7 (7)	90-7(7)	94-7(7)	98-7(7)
Control	4.5± 0.5	4.4± 0.6	4.5± 0.5	4.5± 0.5	4.4± 0.7	4.4± 0.6	4.7± 0.7
5 ppm	4.5± 0.5	4.5± 0.5	4.6± 0.6	4.6± 0.6	4.6± 0.6	4.6± 0.7	4.7± 0.7
15 ppm	4.6± 0.8	4.5± 0.6	4.3± 0.6	4.4生 0.4	4.6± 0.5	4.6± 0.5	4.8± 0.6
45 ppm	3.9± 0.4**	4.0± 0.4**	3.9± 0.6**	3.9± 0.4**	3.8± 0.4**	3.9± 0.5**	4.0± 0.7**
Significant difference;	*: P ≤ 0.05 *	*: P ≤ 0.01		Test of Dunnett			
AN260)							

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ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

Group Name	Administration 102-7(7)	week-day(effective) 104-7(7)		
Control	4.5± 0.7	4.6± 0.7		
5 ppm	4.5± 0.7	4.7± 0.7		
15 ppm	4.6± 0.8	4.9± 0.7		
45 ppm	3.9± 0.6*	4.2± 0.7		
Significant difference;	*: P ≤ 0.05	** : P ≤ 0.01	Test of Dunnett	
(114)(000)				RATS

(HAN260)

BAIS 4

APPENDIX E 2

FOOD CONSUMPTION CHANGES: FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 1

Name		week-day(effective)					
	1-7 (4)	2-7 (7)	3-7 (7)	4-7(7)	5-7 (7)	6-7(7)	7-7 (7)
Control	4.0± 0.3	3.9± 0.3	4.0± 0.4	4.0± 0.4	4.0± 0.4	4.1± 0.3	4.2± 0.4
5 ppm	4.0± 0.2	3.9± 0.3	4.0± 0.3	4.0± 0.2	4.1± 0.2	4.1± 0.2	4.3± 0.3
15 ppm	3.9± 0.3	3.9± 0.3	4.0± 0.3	3.9± 0.3	4.0± 0.3	4.0± 0.3	4.2± 0.3
45 ppm	3.8± 0.2*	3.6± 0.2**	3.7± 0.3**	3.7± 0.3★	3.7± 0.3**	3.8± 0.3**	3.8± 0.3**
Significant differenc	ce; *:P≦0.05 *	⇔ : P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 4

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

p Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7 (7)
Control	4.3± 0.4	4.3± 0.4	4.2± 0.4	4.4± 0.4	4.3± 0.3	4.4± 0.4	4.3± 0.3
5 ppm	4.3±. 0.3	4.3± 0.3	4.3± 0.3	4.4± 0.3	4.3± 0.2	4.4± 0.3	4.3± 0.3
15 ppm	4.2± 0.4	4.3± 0.4	4.4± 0.3	4.4± 0.3	4.3± 0.3	4.3± 0.3	4.3± 0.3
45 ppm	3.9± 0.3**	4.0± 0.3**	4.0± 0.3*	3.8± 0.3**	3.8± 0.3 * *	3.8± 0.3**	3.9± 0.3**
Significant differenc	e; *:P≦0.05 *	⇒ : P ≤ 0.01		Test of Dunnett		,,	
Cant utiletenc	e, = 0.00 ·			Tool of Dunnett		<u> </u>	

(HAN260)

BAIS 4

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 3

oup Name	Administration w	/eek-day(effective) 22-7(7)	26-7 (7)	30-7(7)	34-7 (7)	38-7(7)	42-7(7)
Control	4.5± 0.4	4.5± 0.3	4.6± 0.3	4.6± 0.3	4.7± 0.3	4.7± 0.3	4.9± 0.3
5 ppm	4.5± 0.3	4.5± 0.3	4.6± 0.3	4.6± 0.2	4.8± 0.3	4.9± 0.3*	5.0± 0.2
15 ppm	4.5± 0.3	4.4± 0.3*	4.5± 0.3	4.6± 0.2	4.7± 0.3	4.7± 0.2	4.8± 0.3
45 ppm	3.8± 0.2**	3.7± 0.2**	4.0± 0.2**	3.9± 0.2**	4.0± 0.3**	4.0± 0.2**	3.9± 0.3**
Significant difference	e; *: P ≤ 0.05 *	*: P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 4

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

oup Name	Administration 46-7(7)	week-day(effective) 50-7(7)	54-7(7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	4.8± 0.3	4.7± 0.3	4.9± 0.3	4.9± 0.3	5.1± 0.6	5.1± 0.4	4.9± 0.3
5 ppm	4.8± 0.3	4.7± 0.3	4.9± 0.3	5.0± 0.2	5.0± 0.3	5.1± 0.3	5.0± 0.3
15 ppm	4.8± 0.3	4.7± 0.3	4.8± 0.3	4.8± 0.3	5.0± 0.2	5.0± 0.3	4.8± 0.3
45 ppm	4.1± 0.3**	4.0± 0.3 * *	4.1± 0.3**	4.0± 0.3**	4.3± 0.3**	4.2± 0.3**	4.1± 0.3**
Significant difference;	*: P ≤ 0.05 *	o*: P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 4

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

Group Name Administration week-day(effective)_ 90-7(7) 94-7(7) 98-7(7)74-7(7) 78-7(7) 82-7(7) 86-7(7) 5.0± 0.4 5.0± 0.5 4.9± 0.4 4.9 ± 0.7 5.1± 0.8 5.0± 0.4 5.0 ± 0.4 Control 5.0 ± 0.6 5.1± 0.6 5 ppm 5.1± 0.4 5.1± 0.3 5.0 ± 0.3 5.0 ± 0.6 5.0 ± 0.4 4.9± 0.5 4.7± 0.6 5.0± 0.5 5.0± 0.5 15 ppm 5.0 ± 0.3 5.0 ± 0.4 5.0 ± 0.3 4.2± 0.3** 4.1± 0.4** 4.3± 0.5** 45 ppm 4.2± 0.4** 4.3± 0.4** 4.2± 0.4** 4.1± 0.3** Significant difference; $*: P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

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(HAN260) BAIS 4

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

SEX : MALE				PAGE: 6
roup Name	Administration 102-7(7)	week-day(effective) 104-7(7)		
Control	4.8± 0.7	4.8± 0.9		
5 ppm	5.0± 0.4	5.1± 0.5		
15 ppm	4.6± 0.7	4.7± 0.7		
45 ppm	4.1± 0.3**	4.4± 0.3**		
Significant difference	; *: P ≦ 0.05	** : P ≤ 0.01	Test of Dunnett	
(HAN260)				BAIS 4

APPENDIX F 1

HEMATOLOGY: MALE

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1 SEX: MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

oup Name	NO. of Animals	RED BLOOD CELL 1 O ^S /µl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV f &	MCH pg	MCHC g∕dl	PLATELET 1 0³/µl
Control	34	9.52± 1.67	13.4± 2.3	43.4± 6.8	46.0± 3.4	14.2± 0.6	30.9± 1.1	1558± 377
5 ppm	35	9.69± 1.17	13.7± 1.5	44.2± 4.5	45.7± 1.6	14.2± 0.5	31.0± 0.7	1608± 381
15 ppm	32	9.82± 1.55	13.7± 1.7	44. 4± 5. 1	45.5± 2.1	14.0± 0.7	30.8± 1.0	1548± 344
45 ppm	35	10.03± 0.73	14.3± 0.8	46.3± 2.5*	46.2± 1.7	14.3± 0.6	30.9± 0.7	1573± 145

PAGE: 1

(HCL070) BAIS 4

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

oup Name	NO. of Animals	₩BC 1 0³/µ	ıl	Dif N-BAND	ferential	WBC (% N-SEG	5)	EOSINO	<u> </u>	BASO		MONO		LYMPHO		OTHER	
Control	34	4.79±	2. 67	1±	1	26±	13	2±	1	0±	0	4±	2	68±	15	1±	
5 ppm	35	4.88生	3. 23	1±	1	27±	14	2±	2	0±	0	4±	1	66±	16	0±	
15 ppm	32	4.70±	2.94	1±	1	28±	16	3±	6	0±	0	3±	1	64±	16	1±	
45 ppm	35	2.98±	1.28**	1±	1	22±	6	2 <u>±</u>	1	0±	0	3±	1	72±	7	1±	

BAIS 4

PAGE: 2

(HCL070)

APPENDIX F 2

HEMATOLOGY: FEMALE

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

STUDY NO. : 0438

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PLATELET MCH MCHC HEMATOCRIT MCV RED BLOOD CELL HEMOGLOBIN NO. of Group Name $10^{3}/\mu l$ g/dl f l рg g/dl 10°/µl Animals 1092± 295 31.0± 1.0 $14.2 \pm$ 0.5 45.9± 1.8 44.5± 4.8 13.8± 1.7 9.71± 1.11 Control 29 309 1090土 1.0 0.5 31.0± 46.5± 1.7 14.4± 3.6 $44.4 \pm$ 13.7± 1.4 29 9.58± 0.95 5 ppm 322 973± 14.3± 0.8 $30.5 \pm$ 1.2 47.0土 3.6 $43.9 \pm$ 4. 1 $13.5 \pm$ 1.6 25 15 ppm $931 \pm$ 393 30.1± 1.9 0.6 14.6± 6.3 48.6± 4.9 12.7 ± 2.4 41.8± 8.77± 1.77 22 45 ppm Test of Dunnett ** : $P \leq 0.01$ Significant difference ; $*: P \leq 0.05$

(HCL070)

BAIS 4

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

Group Name	NO. of Animals	WBC 1 O³∕µl		Dif N-BAND	ferential	WBC (% N-SEG	5)	EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	29	3.31± 3.	. 39	1±	1	26±	11	$2\pm$	2	0±	0	3±	2	65±	13	3±	6
5 ppm	29	4.81± 5	. 31	1±	1	23±	14	1±	1	ο±	0	4±	2	67±	16	4±	9
15 ppm	25	3.47± 2	. 40	1±	2	26±	13	3±	6	0主	0	3±	1	64±	15	3±	7
45 ppm	22	3.64± 2	. 82	1±	1	28±	14	1±	1	0±	0	3±	2	60±	18	8±	15

PAGE: 4

(HCL070) BAIS 4

APPENDIX G 1

BIOCHEMISTRY: MALE

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE

(HCL074)

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105\)

oup Name	NO. of Animals	TOTAL PRO	OTEIN	ALBUMIN g∕dl		A/G RAT	10	T-BILII mg/d2		GLUCOSE mg/dl	<u>-</u> .	T-CHOLES mg/dl	STEROL	TRIGLYCE mg/dl	ERIDE
Control	34	5.0±	0.5	2.6±	0.3	1.1±	0.3	0.14±	0. 03	184±	48	101±	19	51±	18
5 ppm	35	5.2±	0.7	2.7±	0.3	1.1±	0.2	0.14±	0.08	182±	44	116±	39	46±	20
15 ppm	32	5.4±	1.6	2.6±	0.4	1.0±	0.3	0.13±	0.03	173±	53	109±	31	42±	23
45 ppm	35	4.9±	0.5	2.7±	0.3	1.2±	0.1**	0.14±	0.03	190±	29	93±	49**	43±	16

BAIS 4

BIOCHEMISTRY (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

ALL ANIMALS (105W)

SEX : MALE

REPORT TYPE : A1

35

45 ppm

(HCL074)

173±

68**

CK PHOSPHOLIPID ALT LDH ALP G-GTP AST Group Name NO. of IU/l IU/l IU/l IU/l IU/l IU/l Animals mg/dl 905 ± 3442 148± 91 1生 71± 56 182± 34 $194\pm$ 523 104土 279 Control 34 8231 178± 158 1± 1 $71\pm$ 82 1272 1911± $203 \pm$ 57 $687 \pm$ 3088 304± 5 ppm 35 182 107 382± 395 $147 \pm$ 129 1± 110± 15 ppm $127 \pm$ 198 $65\pm$ 32 185± 50

65**

 $35\pm$

PAGE: 2

46

 $64\pm$

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

54±

19

BAIS 4

275土

362

 $155\pm$

41*

 $1\pm$

1

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

SEX : MALE POTASSIUM CHLORIDE CALCIUM INORGANIC PHOSPHORUS UREA NITROGEN SODIUM Group Name NO. of mEq/l mEq/l mg/dl mg/dl Animals mg/dl mEq/l 6.5± 30.1± 40.7 $153 \pm$ 2 $4.2 \pm$ 0.4 120± 3 8.7± 0.4 2. 1 Control 34 5.8± $120\pm$ 2 8.8± 0.5 0.4 22.6± 6.6 $152\pm$ $4.2 \pm$ 0.3 5 ppm 35 120± 2 8.9± 0.6 6.5± 1.4 15 ppm 32 26.0± 11.1 $153 \pm$ 4.3± 0.7 120± 2 8.6± 0.4 6.4± 0.7 35 23.1± 3.3 152± 1 4.2生 0.4 45 ppm Significant difference; $*: P \leq 0.05$ **: P ≤ 0.01 Test of Dunnett

PAGE: 3

(HCL074) BAIS 4

APPENDIX G 2

BIOCHEMISTRY: FEMALE

BIOCHEMISTRY (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 4

roup Name	NO. of Animals	TOTAL PF g/dl	ROTEIN	ALBUMIN g/dl		A/G RAT	0	T-BILI mg/dl		GLUCOSE mg∕dl	,	T-CHOLES mg/dl	TEROL	TRIGLYCE mg/dl	ERIDE
Control	29	5.0±	0.6	2.7±	0.3	1.2±	0. 2	0.13±	0. 02	125±	30	88±	86	41±	29
5 ppm	29	4.8±	0.4	2.6±	0.3	1.2±	0.2	0.13±	0.03	134±	33	69±	16	41±	25
15 ppm	26	5.0±	0.7	2.7±	0.3	1.2±	0.2	0.15±	0.05	139±	21	78±	18	39±	20
45 ppm	22	4.6±	0.4	2.7±	0.2	1.5±	0.3**	0.17±	0.07**	145±	39	77±	25	30±	13

(HCL074)

BAIS 4

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1

STUDY NO. : 0438 MEASURE. TIME: 1

SEX : FEMALE REPORT TYPE : A1

roup Name	NO. of Animals	PHOSPHOI mg/dl	LIPID	AST IU/£	2	ALT IU/2	·	LDH IU/	e	ALP IU/£	!	G-GTP IU/l		CK IU/£	!
Control	29	162±	125	112±	50	45±	18	373±	362	245±	142	3±	9	111±	141
5 ppm	29	134土	29	122±	105	56±	48	341±	275	208±	81	1±	1	92±	62
15 ppm	26	147±	32	121±	110	49±	36	550±	534	210±	88	2±	3	92±	65
45 ppm	22	142±	38	114±	122	44±	52*	651±	842	325±	142*	2±	1	127±	65*

(HCL074)

BAIS 4

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1 SEX : FEMALE

REPORT TYPE : A1

PAGE: 6

oup Name	NO. of Animals	urea ni mg/dl	ITROGEN	SODIUM m Eq / l		POTASSI m Eq / 1		CHLORIDE m Eq / l		CALCIUM mg/dl		INORGAN mg/dl	IC PHOSPHORUS
Control	29	19.7±	6. 7	151±	2	4.1±	0. 4	120±	2	9.1±	0.6	6.5±	1.0
5 ppm	29	18.1±	7.4	151±	2	4.0±	0. 4	120±	2	8.8±	0.3*	6.5±	1.1
15 ppm	26	19.7生	7.2	151±	2	4.1±	0.5	120±	2	9.0±	0.5	6.4±	0.9
45 ppm	22	25.4±	15. 5	152±	3	4.4±	0.3*	121±	3	8.7±	0.5*	6.9±	1.2

(HCL074)

BAIS 4

APPENDIX H 1

URINALYSIS: MALE

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

Occult blood Group Name NO. of Glucose__ Ketone body Protein_ Animals 5.0 6.0 6.5 7.0 7.5 8.0 8.5 CHI $-\pm+2+3+4+$ CHI $-\pm +2+3+4+$ CHI $-\pm + 2 + 3 + 4 + CHI$ $-\pm + 2 + 3 + CHI$ 0 9 22 4 0 0 17 15 2 0 1 0 30 1 1 0 3 Control 35 0 1 8 13 11 2 35 0 0 0 0 0 5 ррт 0 0 7 14 9 5 0 12 17 4 2 0 22 11 2 0 0 0 30 1 2 1 1 15 ppm 0 2 11 8 7 5 0 0 11 18 4 0 0 33 0 0 0 0 0 20 10 3 0 0 0 29 0 1 0 3 0 2 29 4 1 0 2 16 18 0 0 0 ** 32 0 3 0 1 45 ppm 36 0 1 6 5 14 9 1 36 0 0 0 0 0 Significant difference ; $*: P \leq 0.05$ $** : P \leq 0.01$ Test of CHI SQUARE

PAGE: 1

(HCL101) BAIS 4

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE		TYPE : A1		PAGE: 2
Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI		
Control	35	35 0 0 0 0		
5 ppm	35	35 0 0 0 0		
15 ppm	33	33 0 0 0 0		
45 ppm	36	36 0 0 0 0		
Significant	difference	; *: P ≤ 0.05 **: P ≤ 0.01	Test of CHI SQUARE	
(1101 + 0 +)				DATC 4

BAIS 4

(HCL101)

APPENDIX H 2

URINALYSIS: FEMALE

STUDY NO. : 0438 URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE REPORT TYPE : A1

ip Name	NO. of Animals	рН_ 5. 0	6.0	6.5	7.0	7.5	8. 0	8.5 CHI	Protein	Glucose	Ketone body $-\pm+2+3+4+$ CHI	Occult blood $-\pm +2+3+$ CHI
Control	34	0	1	6	4	6	17	0	1 7 14 10 1 1	34 0 0 0 0 0	11 20 1 2 0 0	27 0 0 3 4
5 ррш	32	0	2	0	6	10	13	1	0 16 13 2 1 0	32 0 0 0 0 0	11 21 0 0 0 0	29 0 0 1 2
15 ppm	29	0	2	1	6	5	15	0	0 14 10 4 1 0	29 0 0 0 0 0	13 15 1 0 0 0	24 0 1 0 4
45 ppm	23	0	1	2	5	2	12	1	0 4 7 8 3 1	23 0 0 0 0 0	2 9 9 3 0 0 **	20 0 1 1 1

PAGE: 3

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URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

Control 5 ppm 15 ppm	34	34 0 0 0 0		
15 nnm	32	32 0 0 0 0		
10 ppm	29	29 0 0 0 0		
45 ppm	23	23 0 0 0 0		
Significant dif	fference	; *: P ≤ 0.05 **: P ≤ 0.01	Test of CHI SQUARE	

BAIS 4

(HCL101)

APPENDIX I 1

GROSS FINDINGS : MALE

ALL ANIMALS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

gan	Findings	Group Name Control NO. of Animals 50 (%)	5 ppm 49 (%)	15 ppm 50 (%)	45 ppm 49 (%)
in/app	nodule	1 (2)	0 (0)	1 (2)	0 (0)
,•	ulcer	0 (0)	0 (0)	2 (4)	1 (2)
	erosion	0 (0)	1 (2)	0 (0)	0 (0)
	scab	2 (4)	4 (8)	1 (2)	0 (0)
bcutis	edema	1 (2)	1 (2)	0 (0)	2 (4)
	mass	1 (2)	1 (2)	2 (4)	0 (0)
ng	red	0 (0)	1 (2)	0 (0)	1 (2)
	white zone	0 (0)	0 (0)	1 (2)	0 (0)
	red zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	8 (16)	9 (18)	6 (12)	4 (8)
mph node	enlarged	5 (10)	9 (18)	7 (14)	0 (0)
ymus	enlarged	0 (0)	0 (0)	0 (0)	1 (2)
leen	enlarged	3 (6)	4 (8)	7 (14)	3 (6)
	black zone	2 (4)	0 (0)	1 (2)	1 (2)
	nodule	3 (6)	1 (2)	1 (2)	0 (0)
livary gl	enlarged	0 (0)	0 (0)	1 (2)	0 (0)
	nodule	0 (0)	1 (2)	1 (2)	0 (0)
stomach	black zone	1 (2)	0 (0)	0 (0)	0 (0)
all intes	nodule	1 (2)	4 (8)	1 (2)	0 (0)
ver	enlarged	2 (4)	1 (2)	1 (2)	2 (4)
	pale	0 (0)	0 (0)	2 (4)	0 (0)
	white zone	7 (14)	1 (2)	1 (2)	0 (0)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : MALE

rgan	Findings	Group Name Control NO. of Animals 50 (%)	5 ppm 49 (%)	15 ppm 50 (%)	45 ppm 49 (%)
iver	red zone	3 (6)	4 (8)	6 (12)	2 (4)
	nodule	16 (32)	20 (41)	21 (42)	7 (14)
	cyst	1 (2)	0 (0)	1 (2)	0 (0)
	adhesion	0 (0)	0 (0)	1 (2)	0 (0)
ancreas	nodule	1 (2)	0 (0)	0 (0)	0 (0)
idney	enlarged	0 (0)	0 (0)	2 (4)	0 (0)
	atrophic	1 (2)	0 (0)	0 (0)	1 (2)
	white zone	0 (0)	1 (2)	1 (2)	0 (0)
	nodule	1 (2)	2 (4)	2 (4)	0 (0)
	deformed	0 (0)	1 (2)	0 (0)	0 (0)
	granular	0 (0)	0 (0)	0 (0)	1 (2)
	hydronephrosis	4 (8)	2 (4)	1 (2)	0 (0)
rin bladd	white zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	0 (0)	2 (4)	1 (2)	0 (0)
	urine:marked retention	0 (0)	0 (0)	0 (0)	2 (4)
ituitary	enlarged	1 (2)	0 (0)	1 (2)	0 (0)
estis	enlarged	1 (2)	1 (2)	0 (0)	0 (0)
pididymis	nodule	2 (4)	0 (0)	0 (0)	1 (2)
emin ves	enlarged	0 (0)	0 (0)	1 (2)	0 (0)
rep/cli gl	nodule	2 (4)	1 (2)	0 (0)	0 (0)
rain	enlarged	0 (0)	0 (0)	0 (0)	1 (2)
	red zone	0 (0)	0 (0)	0 (0)	1 (2)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name Control NO. of Animals 50 (%)	5 ppm 49 (%)	15 ppm 50 (%)	45 ppm 49 (%)
orain	nodule	0 (0)	1 (2)	0 (0)	1 (2)
periph nerv	nodule	1 (2)	0 (0)	0 (0)	0 (0)
eye	turbid	0 (0)	0 (0)	0 (0)	2 (4)
Harder gl	enlarged	1 (2)	0 (0)	5 (10)	3 (6)
	nodule	1 (2)	3 (6)	1 (2)	2 (4)
mediastinum	mass	1 (2)	0 (0)	0 (0)	1 (2)
peritoneum	nodule	1 (2)	0 (0)	0 (0)	1 (2)
retroperit	nodule	0 (0)	0 (0)	1 (2)	0 (0)
	mass	0 (0)	0 (0)	1 (2)	0 (0)
abdominal c	hemorrhage	2 (4)	0 (0)	3 (6)	3 (6)
	ascites	2 (4)	2 (4)	0 (0)	2 (4)
thoracic ca	hemorrhage	0 (0)	2 (4)	0 (0)	0 (0)
	pleural fluid	4 (8)	3 (6)	1 (2)	3 (6)
other	hindlimb:nodule	0 (0)	0 (0)	0 (0)	1 (2)
whole body	anemic	2 (4)	0 (0)	1 (2)	1 (2)

(HPT080)

BAIS 4

APPENDIX I 2

GROSS FINDINGS : MALE

DEAD AND MORIBUND ANIMALS

ANIMAL

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name NO. of Animals	Control 15 (%)	5 ppm 14 (%)	15 ppm 18 (%)	45 ppm 13 (%)
skin/app	${\tt nodule}$		0 (0)	0 (0)	1 (6)	0 (0)
	ulcer		0 (0)	0 (0)	1 (6)	1 (8)
	scab		2 (13)	2 (14)	1 (6)	0 (0)
subcutis	edema		1 (7)	1 (7)	0 (0)	2 (15)
	mass		1 (7)	0 (0)	2 (11)	0 (0)
lung	red		0 (0)	1 (7)	0 (0)	1 (8)
	red zone		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		0 (0)	5 (36)	1 (6)	0 (0)
lymph node	enlarged		4 (27)	4 (29)	3 (17)	0 (0)
thymus	enlarged		0 (0)	0 (0)	0 (0)	1 (8)
spleen	enlarged		2 (13)	2 (14)	4 (22)	2 (15)
	black zone		0 (0)	0 (0)	1 (6)	0 (0)
	nodule		2 (13)	1 (7)	1 (6)	0 (0)
salivary gl	enlarged		0 (0)	0 (0)	. 1 (6)	0 (0)
	nodule		0 (0)	1 (7)	1 (6)	0 (0)
gl stomach	black zone		1 (7)	0 (0)	0 (0)	0 (0)
small intes	nodule		1 (7)	2 (14)	0 (0)	0 (0)
liver	enlarged		1 (7)	1 (7)	1 (6)	2 (15)
	pale		0 (0)	0 (0)	2 (11)	0 (0)
	white zone		3 (20)	1 (7)	1 (6)	0 (0)
	red zone		1 (7)	0 (0)	3 (17)	1 (8)
	nodule		6 (40)	5 (36)	9 (50)	4 (31)

ANIMAL : MOUSE B6D2F1/CrIj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

rgan	Findings	Group Name Com NO. of Animals 15 (%)	ntrol 5 ppm 14 (%)	15 ppm 18 (%)	45 ppm 13 (%)
iver	adhesion	0 (0)	0 (0)	1 (6)	0 (0)
ancreas	nodule	1 (7)	0 (0)	0 (0)	0 (0)
idney	enlarged	0 (0)	0 (0)	1 (6)	0 (0)
	nodule	0 (0)	1 (7)	2 (11)	0 (0)
	granular	0 (0)	0 (0)	0 (0)	1 (8)
	hydronephrosis	2 (13)	1 (7)	1 (6)	0 (0)
rin bladd	urine:marked retention	0 (0)	0 (0)	0 (0)	2 (15)
estis	enlarged	1 (7)	1 (7)	0 (0)	0 (0)
oididymis	nodule	1 (7)	0 (0)	0 (0)	1 (8)
rep/cli gl	nodule	1 (7)	0 (0)	0 (0)	0 (0)
rain	enlarged	0 (0)	0 (0)	0 (0)	1 (8)
	red zone	0 (0)	0 (0)	0 (0)	1 (8)
	nodule	0 (0)	1 (7)	0 (0)	1 (8)
eriph nerv	nodule	1 (7)	0 (0)	0 (0)	0 (0)
arder gl	enlarged	0 (0)	0 (0)	2 (11)	0 (0)
	nodule	0 (0)	0 (0)	1 (6)	0 (0)
eritoneum	nodule	1 (7)	0 (0)	0 (0)	1 (8)
etroperit	nodule	0 (0)	0 (0)	1 (6)	0 (0)
	mass	0 (0)	0 (0)	1 (6)	0 (0)
odominal c	hemorrhage	2 (13)	0 (0)	3 (17)	3 (23)
	ascites	2 (13)	2 (14)	0 (0)	2 (15)
oracic ca	hemorrhage	0 (0)	2 (14)	0 (0)	0 (0)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

GROSS FINDINGS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name NO. of Animals	15	Control (%)	14	5 ppm ! (%)	18	15 ppm (%)	13	45 ppm (%)
thoracic ca	pleural fluid		3	(20)	3	3 (21)	1	(6)	3	(23)
other	hindlimb:nodule		0	(0)	C) (0)	0	(0)	1	(8)
whole body	anemic		2	(13)	C) (0)	1	(6)	1	(8)
(HPT080)										BAIS

APPENDIX I 3

GROSS FINDINGS: MALE

SACRIFICED ANIMALS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

rgan	Findings	Group Name Cont NO. of Animals 35 (%)	trol 5 ppm 35 (%)	15 ppm 32 (%)	45 ppm 36 (%)
kin/app	nodule	1 (3)	0 (0)	0 (0)	0 (0)
	ulcer	0 (0)	0 (0)	1 (3)	0 (0)
	erosion	0 (0)	1 (3)	0 (0)	0 (0)
	scab	0 (0)	2 (6)	0 (0)	0 (0)
ubcutis	mass	0 (0)	1 (3)	0 (0)	0 (0)
ing	white zone	0 (0)	0 (0)	1 (3)	0 (0)
	nodule	8 (23)	4 (11)	5 (16)	4 (11)
ymph node	enlarged	1 (3)	5 (14)	4 (13)	0 (0)
leen	enlarged	1 (3)	2 (6)	3 (9)	1 (3)
	black zone	2 (6)	0 (0)	0 (0)	1 (3)
	nodule	1 (3)	0 (0)	0 (0)	0 (0)
mall intes	nodule	0 (0)	2 (6)	1 (3)	0 (0)
iver	enlarged	1 (3)	0 (0)	0 (0)	0 (0)
	white zone	4 (11)	0 (0)	0 (0)	0 (0)
	red zone	2 (6)	4 (11)	3 (9)	1 (3)
	nodule	10 (29)	15 (43)	12 (38)	3 (8)
	cyst	1 (3)	0 (0)	1 (3)	0 (0)
dney	enlarged	0 (0)	0 (0)	1 (3)	0 (0)
	atrophic	1 (3)	0 (0)	0 (0)	1 (3)
	white zone	0 (0)	1 (3)	1 (3)	0 (0)
	nodule	1 (3)	1 (3)	0 (0)	0 (0)
	deformed	0 (0)	1 (3)	0 (0)	0 (0)

STUDY NO. : 0438 ANIMAL

: MOUSE B6D2F1/Crlj[Crj:BDF1]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name Control NO. of Animals 35 (%)	5 ppm 35 (%)	15 ppm 32 (%)	45 ppm 36 (%)
kidney	hydronephrosis	2 (6)	1 (3)	0 (0)	0 (0)
urin bladd	white zone	0 (0)	1 (3)	0 (0)	0 (0)
	nodule	0 (0)	2 (6)	1 (3)	0 (0)
pituitary	enlarged	1 (3)	0 (0)	1 (3)	0 (0)
epididymis	nodule	1 (3)	0 (0)	0 (0)	0 (0)
semin ves	enlarged	0 (0)	0 (0)	1 (3)	0 (0)
prep/cli gl	nodule	1 (3)	1 (3)	0 (0)	0 (0)
eye	turbid	0 (0)	0 (0)	0 (0)	2 (6)
Harder gl	enlarged	1 (3)	0 (0)	3 (9)	3 (8)
	nodule	1 (3)	3 (9)	0 (0)	2 (6)
mediastinum	mass	1 (3)	0 (0)	0 (0)	1 (3)
thoracic ca	pleural fluid	1 (3)	0 (0)	0 (0)	0 (0)

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APPENDIX I 4

GROSS FINDINGS: FEMALE

ALL ANIMALS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

gan	Findings	Group Name NO. of Animals	50	Control (%)	50	5 ppm (%)	50	15 ppm (%)	50	45 ppm (%)
in/app	nodule		1	(2)	0	(0)	0	(0)	1	(2)
	ulcer		1	(2)	0	(0)	0	(0)	0	(0)
bcutis	edema		1	(2)	7	(14)	8	(16)	12	(24)
	mass		2	(4)	1	(2)	3	(6)	3	(6)
ng	red		0	(0)	1	(2)	2	(4)	0	(0)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	black zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		9	(18)	8	(16)	5	(10)	1	(2)
mph node	enlarged		8	(16)	6	(12)	6	(12)	7	(14)
ymus	enlarged		1	(2)	1	(2)	0	(0)	0	(0)
leen	enlarged		9	(18)	8	(16)	11	(22)	10	(20)
	black zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		1	(2)	0	(0)	1	(2)	1	(2)
omach	nodule		1	(2)	0	(0)	0	(0)	0	(0)
all intes	nodule		2	(4)	2	(4)	1	(2)	0	(0)
	dilated		0	(0)	0	(0)	0	(0)	1	(2)
ver	enlarged		3	(6)	4	(8)	5	(10)	8	(16)
	white zone		4	(8)	7	(14)	13	(26)	10	(20)
	red zone		1	(2)	5	(10)	6	(12)	2	(4)
	nodule		8	(16)	8	(16)	2	(4)	5	(10)
	cyst		0	(0)	0	(0)	1	(2)	0	(0)
	rough		2	(4)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0438 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

rgah	Findings	Group Name Control NO. of Animals 50 (%)	5 ppm 50 (%)	15 ppm 50 (%)	45 ppm 50 (%)
all bladd	adhesion	0 (0)	1 (2)	0 (0)	0 (0)
ancreas	nodule	2 (4)	0 (0)	1 (2)	0 (0)
idney	enlarged	1 (2)	0 (0)	1 (2)	0 (0)
	pale	0 (0)	0 (0)	2 (4)	0 (0)
	nodule	1 (2)	2 (4)	0 (0)	0 (0)
	deformed	1 (2)	0 (0)	0 (0)	0 (0)
	hydronephrosis	1 (2)	2 (4)	2 (4)	1 (2)
rin bladd	nodule	1 (2)	0 (0)	0 (0)	0 (0)
	urine:marked retention	1 (2)	0 (0)	2 (4)	1 (2)
	urine:red	0 (0)	0 (0)	1 (2)	0 (0)
tuitary	enlarged	4 (8)	5 (10)	5 (10)	1 (2)
	red zone	3 (6)	4 (8)	1 (2)	0 (0)
	brown zone	1 (2)	0 (0)	0 (0)	0 (0)
	nodule	4 (8)	5 (10)	2 (4)	1 (2)
renal	enlarged	1 (2)	0 (0)	0 (0)	0 (0)
ary	enlarged	1 (2)	6 (12)	6 (12)	5 (10)
	cyst	6 (12)	9 (18)	9 (18)	8 (16)
erus	enlarged	0 (0)	0 (0)	2 (4)	0 (0)
	nodule	8 (16)	12 (24)	13 (26)	16 (32)
	cyst	0 (0)	0 (0)	1 (2)	0 (0)
•	dilated lumen	0 (0)	0 (0)	2 (4)	2 (4)
ina	nodule	0 (0)	0 (0)	2 (4)	0 (0)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name NO, of Animals	Control 50 (%)	5 ppm 50 (%)	15 ppm 50 (%)	45 ppm 50 (%)
brain	red zone		0 (0)	0 (0)	1 (2)	0 (0)
	yellow zone		1 (2)	0 (0)	0 (0)	0 (0)
periph nerv	noduIe		2 (4)	0 (0)	0 (0)	1 (2)
еуе	turbid		1 (2)	1 (2)	0 (0)	0 (0)
Harder gl	enlarged		2 (4)	2 (4)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	2 (4)
muscle	nodule		1 (2)	0 (0)	0 (0)	0 (0)
mediastinum	nodule		1 (2)	1 (2)	0 (0)	0 (0)
	mass		3 (6)	3 (6)	2 (4)	2 (4)
peritoneum	nodule		1 (2)	1 (2)	1 (2)	0 (0)
	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
	thick		0 (0)	1 (2)	0 (0)	1 (2)
retroperit	mass		0 (0)	1 (2)	0 (0)	1 (2)
abdominal c	hemorrhage		1 (2)	5 (10)	6 (12)	1 (2)
	ascites		6 (12)	7 (14)	8 (16)	9 (18)
thoracic ca	hemorrhage		2 (4)	0 (0)	0 (0)	0 (0)
	pleural fluid		11 (22)	12 (24)	10 (20)	8 (16)
other	nose:nodule		0 (0)	0 (0)	0 (0)	1 (2)
whole body	anemic		0 (0)	2 (4)	1 (2)	2 (4)

APPENDIX I 5

GROSS FINDINGS: FEMALE

DEAD AND MORIBUND ANIMALS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

gan	Findings	Group Name Control NO. of Animals 17 (%)	5 ppm 19 (%)	15 ppm 23 (%)	45 ppm 28 (%)
bcutis	edema	1 (6)	6 (32)	8 (35)	12 (43)
	mass	2 (12)	0 (0)	1 (4)	3 (11)
ng	red	0 (0)	1 (5)	2 (9)	0 (0)
	red zone	0 (0)	1 (5)	0 (0)	0 (0)
	black zone	0 (0)	0 (0)	0 (0)	1 (4)
	nodule	3 (18)	3 (16)	2 (9)	1 (4)
mph node	enlarged	5 (29)	2 (11)	2 (9)	4 (14)
leen	enlarged	6 (35)	6 (32)	8 (35)	6 (21)
all intes	nodule	0 (0)	1 (5)	1 (4)	0 (0)
	dilated	0 (0)	0 (0)	0 (0)	1 (4)
ver	enlarged	3 (18)	4 (21)	5 (22)	7 (25)
	white zone	4 (24)	5 (26)	12 (52)	10 (36)
	red zone	0 (0)	1 (5)	0 (0)	0 (0)
	nodule	1 (6)	4 (21)	1 (4)	2 (7)
	rough	1 (6)	1 (5)	0 (0)	0 (0)
11 bladd	adhesion	0 (0)	1 (5)	0 (0)	0 (0)
ncreas	nodule	2 (12)	0 (0)	1 (4)	0 (0)
dney	enlarged	0 (0)	0 (0)	1 (4)	0 (0)
	pale	0 (0)	0 (0)	2 (9)	0 (0)
	nodule	0 (0)	2 (11)	0 (0)	0 (0)
	hydronephrosis	1 (6)	2 (11)	1 (4)	1 (4)
in bladd	urine:marked retention	1 (6)	0 (0)	2 (9)	1 (4)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : FEMALE

gan	Findings	Group Name NO. of Animals	Control 17 (%)	5 ppm 19 (%)	15 ppm 23 (%)	45 ppm 28 (%)
in bladd	urine:red		0 (0)	0 (0)	1 (4)	0 (0)
tuitary	enlarged		2 (12)	2 (11)	1 (4)	1 (4)
	red zone		0 (0)	1 (5)	0 (0)	0 (0)
	nodule		1 (6)	1 (5)	0 (0)	1 (4)
lrenal	enlarged		1 (6)	0 (0)	0 (0)	0 (0)
ary	enlarged		1 (6)	4 (21)	5 (22)	3 (11)
	cyst		3 (18)	1 (5)	2 (9)	2 (7)
terus	enlarged		0 (0)	0 (0)	2 (9)	0 (0)
	nodule		6 (35)	8 (42)	12 (52)	10 (36)
rain	red zone		0 (0)	0 (0)	1 (4)	0 (0)
	yellow zone		1 (6)	0 (0)	0 (0)	0 (0)
eriph nerv	nodule		2 (12)	0 (0)	0 (0)	1 (4)
ıscle	nodule		1 (6)	0 (0)	0 (0)	0 (0)
ediastinum	mass		2 (12)	2 (11)	2 (9)	2 (7)
ritoneum	nodule		0 (0)	1 (5)	1 (4)	0 (0)
	adhesion		0 (0)	0 (0)	0 (0)	1 (4)
	thick		0 (0)	1 (5)	0 (0)	. 1 (4)
etroperit	mass		0 (0)	1 (5)	0 (0)	0 (0)
odominal c	hemorrhage		1 (6)	5 (26)	6 (26)	1 (4)
	ascites		5 (29)	5 (26)	7 (30)	8 (29)
oracic ca	hemorrhage		2 (12)	0 (0)	0 (0)	0 (0)
	pleural fluid		8 (47)	8 (42)	8 (35)	8 (29)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name NO. of Animals	Control 17 (%)	5 ppm 19 (%)	15 ppm 23 (%)	45 ppm 28 (%)
whole body	anemic		0 (0)	1 (5)	1 (4)	2 (7)
(HPT080)		·				BAI

APPENDIX I 6

GROSS FINDINGS: FEMALE

SACRIFICED ANIMALS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

•	n	Group Name	Control	5 ppm	15 ppm	45 ppm
Organ	Findings	NO. of Animals 33	(%) 3	1 (%)	27 (%)	22 (%)
skin/app	nodule	1	(3)	0 (0)	0 (0)	1 (5)
	ulcer	1	(3)	0 (0)	0 (0)	0 (0)
subcutis	edema	0	(0)	1 (3)	0 (0)	0 (0)
	mass	0	(0)	1 (3)	2 (7)	0 (0)
lung	nodule	6	(18)	5 (16)	3 (11)	0 (0)
lymph node	enlarged	3	(9)	4 (13)	4 (15)	3 (14)
thymus	enlarged	1	(3)	1 (3)	0 (0)	0 (0)
spleen	enlarged	3	(9)	2 (6)	3 (11)	4 (18)
	black zone	0	(0)	1 (3)	0 (0)	0 (0)
	nodule	1	(3)	0 (0)	1 (4)	1 (5)
stomach	nodule	1	(3)	0 (0)	0 (0)	0 (0)
small intes	nodule	2	(6)	1 (3)	0 (0)	0 (0)
liver	enlarged	0	(0)	0 (0)	0 (0)	1 (5)
	white zone	0	(0)	2 (6)	1 (4)	0 (0)
	red zone	1	(3)	4 (13)	6 (22)	2 (9)
	nodule	7	(21)	4 (13)	1 (4)	3 (14)
	cyst	0	(0)	0 (0)	1 (4)	0 (0)
	rough	1	(3)	0 (0)	0 (0)	0 (0)
cidney	enlarged	1	(3)	0 (0)	0 (0)	0 (0)
	nodule	1	(3)	0 (0)	0 (0)	0 (0)
	deformed	1	(3)	0 (0)	0 (0)	0 (0)
	hydronephrosis	0	(0)	0 (0)	1 (4)	0 (0)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

rgan	Findings	Group Name Control NO. of Animals 33 (%)	5 ppm 31 (%)	15 ppm 27 (%)	45 ppm 22 (%)
rin bladd	nodule	1 (3)	0 (0)	0 (0)	0 (0)
ituitary	enlarged	2 (6)	3 (10)	4 (15)	0 (0)
	red zone	3 (9)	3 (10)	1 (4)	0 (0)
	brown zone	1 (3)	0 (0)	0 (0)	0 (0)
	nodule	3 (9)	4 (13)	2 (7)	0 (0)
ary	enlarged	0 (0)	2 (6)	1 (4)	2 (9)
	cyst	3 (9)	8 (26)	7 (26)	6 (27)
erus	nodule	2 (6)	4 (13)	1 (4)	6 (27)
	cyst	0 (0)	0 (0)	1 (4)	0 (0)
	dilated lumen	0 (0)	0 (0)	2 (7)	2 (9)
gina	nodule	0 (0)	0 (0)	2 (7)	0 (0)
re	turbid	1 (3)	1 (3)	0 (0)	0 (0)
arder gl	enlarged	2 (6)	2 (6)	1 (4)	0 (0)
	nodule	0 (0)	0 (0)	1 (4)	2 (9)
ediastinum	nodule	1 (3)	1 (3)	0 (0)	0 (0)
	mass	1 (3)	1 (3)	0 (0)	0 (0)
eritoneum	nodule	1 (3)	0 (0)	0 (0)	0 (0)
troperit	mass	0 (0)	0 (0)	0 (0)	1 (5)
dominal c	ascites	1 (3)	2 (6)	1 (4)	1 (5)
oracic ca	pleural fluid	3 (9)	4 (13)	2 (7)	0 (0)
her	nose:nodule	0 (0)	0 (0)	0 (0)	1 (5)
ole body	anemic	0 (0)	1 (3)	0 (0)	0 (0)

APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE: MALE

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE UNIT: g ORGAN WEIGHT: ABSOLUTE (SUMMARY) SURVIVAL ANIMALS (105W)

PAGE: 1

roup Name	NO. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	46.4± 7.8	0.009± 0.002	0.223± 0.033	0.226± 0.025	0.249± 0.167	0.730± 0.336
5 ppm	35	46.2± 6.9	0.009± 0.002	0.230± 0.028	0.224± 0.021	0.215± 0.022	0.689± 0.211
15 ppm	32	42.7± 8.8	0.009± 0.002	0.218± 0.035	0.214± 0.028	0.236± 0.077	0. 649± 0. 175
45 ppm	36	35.0± 5.0 * *	0.009± 0.002	0.204± 0.032*	0.185± 0.012**	0.201± 0.025**	0.573± 0.046**

(HCL040)

BAIS 4

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : MALE UNIT: g

ORGAN WEIGHT: ABSOLUTE (SUMMARY)

SURVIVAL ANIMALS (105W)

0.107± 0.108 0.125± 0.146	1.944± 1.181	0.464± 0.018	
0.125± 0.146	1 057 - 0 400		
	1.857 \pm 0.499	0.455± 0.015	
0.183± 0.295	1.698± 0.480	0.457± 0.016	
0.064± 0.060**	1.387± 0.523**	0.456± 0.021	
	0.064± 0.060**	0.064± 0.060** 1.387± 0.523**	0.064± 0.060** 1.387± 0.523** 0.456± 0.021

(HCL040)

BAIS 4

APPENDIX J 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

STUDY NO. : 0438

UNIT: g

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	33	29.4± 4.0	0.012± 0.002	0.038± 0.020	0.180± 0.034	0.241± 0.148	0.503± 0.239
5 ppm	31	32.0± 4.8*	0.013± 0.002	0.366± 1.825	0.185± 0.034	0.229± 0.062	0.474± 0.092
15 ppm	27	31.7± 5.0	0.017± 0.026	0.107± 0.251	0.175± 0.029	0.239± 0.146	0.484± 0.145
4 5 ppm	22	26.1± 3.2*	0.011± 0.002	0.051± 0.067	0.149± 0.021**	0.219± 0.090	0.422± 0.071*
Significant	difference;	* : P ≤ 0.05 **:	P ≤ 0.01	Test	of Dunnett		

PAGE: 3

(HCL040) BAIS 4

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

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

SEX · PEMALE						
UNIT: g						7
OHII' B						
α N	NO C	ODI PENI	I TURD	DDATN		

33	0.177±	0.158	1.550±	0. 424	0.484±	0. 017
31	0.187±	0. 181	1.668±	0. 586	0.482±	0. 017
27	0.283±	0. 399	1.612±	0.632	0.480±	0. 015
22	0.270±	0.585	1.510±	1.075*	0.469±	0.013**
•	27	27 0.283±	0. 283± 0. 399	27 0.283± 0.399 1.612±	27 0. $283\pm$ 0. 399 1. $612\pm$ 0. 632 22 0. $270\pm$ 0. 585 1. $510\pm$ 1. $075*$	27 0. 283± 0. 399 1. 612± 0. 632 0. 480± 22 0. 270± 0. 585 1. 510± 1. 075* 0. 469±

PAGE: 4

(HCL040)

APPENDIX K 1

ORGAN WEIGHT, RELATIVE: MALE

ORGAN WEIGHT: RELATIVE (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 SURVIVAL ANIMALS (105W)

STUDY NO. : 0438 ANIMAL : MOUSE REPORT TYPE : A1

SEX : MALE

UNIT: %

roup Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	46.4± 7.8	0.021± 0.006	0.491± 0.087	0.504± 0.132	0.585± 0.581	1. 723± 1. 483
5 ppm	35	46.2± 6.9	0.020± 0.005	0.506± 0.086	0.496± 0.099	0.478± 0.119	1.542± 0.653
15 ppm	32	42.7± 8.8	0.022± 0.007	0.525± 0.105	0.520± 0.122	0.581± 0.249	1.604± 0.682
45 ppm	36	35.0± 5.0**	0.026± 0.006**	0.589± 0.102**	0.537± 0.061**	0.584± 0.094**	1.660± 0.203**

PAGE: 1

(HCL042) BAIS 4

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE UNIT: % ORGAN WEIGHT: RELATIVE (SUMMARY)

SURVIVAL ANIMALS (105W)

up Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	35	0.238± 0.233	4.399± 3,342	1.035± 0.232	
5 ррт	35	0.289± 0.379	4.119± 1.328	1.010± 0.182	
15 ppm	32	0.443± 0.639	4.203± 1.908	1. 123± 0. 284	
45 ppm	36	0.190± 0.192	4.030± 1.719	1.329± 0.194**	

PAGE: 2

(HCL042) BAIS 4

APPENDIX K 2

ORGAN WEIGHT, RELATIVE: FEMALE

ORGAN WEIGHT: RELATIVE (SUMMARY)

SURVIVAL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

STUDY NO. : 0438

UNIT: %

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS	
Control	33	29.4± 4.0	0.042± 0.008	0.130± 0.069	0.618± 0.104	0.825± 0.473	1.702± 0.619	
5 ppm	31	32.0± 4.8*	0.040± 0.009	1.017± 4.970	0.582± 0.091	0.718± 0.153	1.489± 0.203	
15 ppm	27	31.7± 5.0	0.057± 0.099	0.322± 0.702	0.555± 0.059	0.817± 0.798	1.547± 0.502	
45 ppm	22	26.1± 3.2*	0.044± 0.010	0.195± 0.235	0.578± 0.092	0.839± 0.300	1.625± 0.213	

PAGE: 3

(HCL042) BAIS 4

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE UNIT: %

ORGAN WEIGHT: RELATIVE (SUMMARY)

SURVIVAL ANIMALS (105W)

roup Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	33	0.592± 0.483	5.268± 1.100	1.678± 0.224	
5 ppm	31	0.571± 0.498	5.171± 1.311	1.540± 0.226*	
15 ppm	27	0.868± 1.207	5.019± 1.243	1.554± 0.255	
45 ppm	22	0.971± 2.022	5.624± 3.274	1.820± 0.210	
Significant	difference;	*: P ≤ 0.05 **:	P ≤ 0.01	Test of Dunnett	
HCL042)	·			<u> </u>	BA

APPENDIX L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : MALE

ALL ANIMALS

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

ANIMAL

: MALE PAGE: 1 SEX Group Name Control 5 ppm 15 ppm **4**5 ppm

	T- 1	No. of Animals on Study Grade 1 (%)	50 2	3 <u>4</u> %) (%)	1 (%)	49 2 3 4 %) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)	49 1 2 3 4 (%) (%) (%) (%)
Organ	Findings	(%)	(%) (76) (76)		76) (76) (76)	(%) (%) (%)	(%) (%) (%)
{Integumentary	/ system/appandage}							
skin/app	inflammation	0 (0)	<50> 0 (0) (0 0	1 (2) (<49> 0 0 0 0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	scab	2 (4)	1 (2) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 (4) (1 0 0 2) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)
{Respiratory	system)							
nasal cavit	exudate	1 (2)	<50> 0 (0) (0 0 0) (0)	0 (0) (<49> 0 0 0 0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<49> 20 0 0 0 ** (41) (0) (0) (0)
	angiectasis	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 0	14 0 0 0 *** (28) (0) (0) (0)	17 0 0 0 *** (35) (0) (0) (0)
	thrombus	(0)	0 (0) (0 0 0 0) (0)	0 (0) (0 0 0 0	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 0 (0) (0)
	proliferation:histiocyte	0 (0)	(0) (0 0 0 0) (0)	0 (0) (0 0 0 0	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
	eosinophilic change:olfactory epithe	lium 13 (26)	2 (4) (0 0 0 0) (0)	8 (16) (1 0 0 0 2) (0) (0)	9 1 0 0 (18) (2) (0) (0)	15 0 0 0 (31) (0) (0) (0)

Grade 1 : Slight

2 : Moderate

3 : Marked

4 : Severe

(a)

b

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

ANIMAL

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

Test of Chi Square

REPORT TYPE : A1 : MALE SEX

Group Name Control 15 ppm 45 ppm 5 ppm 49 50 49 No. of Animals on Study 50 (%) Findings_ Organ_ {Respiratory system} <50> nasal cavit 2 0 * eosinophilic change:respiratory epithelium 0 0 1 (12) (4) (0) (0) (6)(2)(2)(0) (18) (0) (2) (0) (33) (0) (0) (0) respiratory metaplasia:olfactory epithelium 6 (8)(0)(0)(0) (76) (6) (0) (0) (6) (90) (0) (0) (12) (0) (0) (0) 0 ** respiratory metaplasia:gland (92) (6) (0) (0) (8) (90) (0) (0) (16) (4) (0) (0) (16) (0) (0) (0) desquamation:olfactory epithelium 0 0 2 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (4)(0)(0)(0) (0)(0)(0)(0) cuboidal change:respiratory epithelium (0)(0)(0)(0) (16) (0) (0) (0) (54) (30) (0) (0) (80) (14) (0) (0) nodular hyperplasia: transitional epithelium (37) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (8)(0)(0)(0) atrophy:olfactory epithelium (12) (2) (0) (0) (16) (2) (0) (0) (20) (0) (0) (0) (18) (0) (0) (0) <50> nasopharynx <50> 3 eosinophilic change 0 0 2 1 0 1 0 0 (6)(2)(0)(0) (2)(4)(0)(0) (4)(6)(2)(0) (18) (2) (0) (0) 1 : Slight 2 : Moderate 3 : Marked Grade 4 : Severe

(c) (HPT150)

< a >

b

a: Number of animals examined at the site

b: Number of animals with lesion

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

c:b/a*100

BAIS4

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

		Group Name No. of Animals on Study	Control 50	5 ppm 49 1 2 3 4	15 ppm 50	45 ppm 49 1 2 3 4
rgan Fi	indings	Grade <u>1</u> (%)	2 3 <u>4</u> (%) (%) (%)	1 2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Respiratory syste	em}					
arynx ar	rteritis	0 (0)	<50> 0 0 0 (0) (0) (0)	<49> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<48> 0 0 0 0 0 0 0 0 0
ung co	ongestion	0 (0)	<50> 0 0 0 (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 0 0 0 (2) (0) (0) (0)
i	nflammatory infiltration	0 (0)	0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)
1;	ymphocytic infiltration	0 (0)	0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
i	nterstitial pneumonia	0 (0)	0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
b.	oronchiolar-alveolar cell hyperplasia	2 (4)	1 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
(Hematopoietic sy	rstem)					
oone marrow i	increased hematopoiesis	1 (2)	<50> 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	\(\langle 49 \rangle \) \[1 0 0 0 \\ (2) (0) (0) (0) (0) \]

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 : MALE SEX

ANIMAL

15 ppm Control 45 ppm Group Name 5 ppm 50 49 No. of Animals on Study 50 49 (%) (%) (%) Findings_ Organ_ {Hematopoietic system} <50> bone marrow 0 0 0 1 decreased hematopoiesis 0 0 (2)(0)(0)(0) (4)(2)(0)(0) (10) (0) (0) (0) (2)(0)(0)(0) erythropoiesis:increased 0 0 (6)(0)(0)(0) (4)(0)(0)(0) (4)(0)(0)(0) (4)(0)(0)(0) granulopoiesis:increased (2)(0)(0)(0) (2)(0)(2)(0) (2)(0)(0)(0) (0)(0)(0)(0) <50> <49> ⟨50⟩ <49> lymph node 0 0 0 0 0 1 plasma cell hyperplasia (0)(0)(0)(0) (0)(0)(0)(0) (0)(2)(0)(0) (0)(0)(0)(0) <50> <49> <50> <49> spleen 0 0 0 0 0 1 0 0 congestion 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

(2)(0)(0)(0)

(2)(0)(0)(0)

0

1 : Slight Grade

2 : Moderate

3 : Marked

4 : Severe

(0)(0)(0)(0)

(4)(0)(0)(0)

(a)

a: Number of animals examined at the site

b

b: Number of animals with lesion

deposit of amyloid

deposit of melanin

(c) c:b/a*100

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

Test of Chi Square

(HPT150)

BAIS4

(0)(0)(0)(0)

(2)(0)(0)(0)

0

0

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

: MOUSE B6D2F1/Crlj[Crj:BDF1] ANIMAL REPORT TYPE: A1

: 0438

: MALE SEX

STUDY NO.

15 ppm 45 ppm Group Name Control 5 ppm 49 50 49 No. of Animals on Study 50 Grade (%) Findings_ Organ_ {Hematopoietic system} ⟨49⟩ spleen 0 0 -0 0 0 0 0 0 0 plasma cell hyperplasia (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) extramedullary hematopoiesis 1 (6)(8)(2)(2) (14) (6) (8) (0) (12) (16) (8) (0) (6)(0)(12)(0) follicular hyperplasia (2)(2)(0)(0) (10) (0) (0) (0) (4)(2)(0)(0) (8)(4)(0)(0) {Circulatory system} <50> <49> <50> <49> heart 0 0 1 mineralization (4)(2)(0)(0) (8)(0)(0)(0) (4)(0)(0)(0) (6)(0)(0)(0) 0 0 0 inflammatory infiltration (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) lymphocytic infiltration (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) arteritis 1 0 (0)(2)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0)

Grade 1 : Slight 2 : Moderate

3 : Marked

4 : Severe

< a >

b

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

c:b/a*100 (c)

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

Test of Chi Square

(HPT150)

BAIS4

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SD2F1/Cr1i[Cri:BDF1]

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

15 ppm 45 ppm Group Name Control 5 ppm 49 50 49 No. of Animals on Study 50 (%) Findings_ Organ_ {Digestive system} tooth <49> 7 2 1 0 6 3 dysplasia (47) (8) (0) (0) (34) (12) (6) (4) (41) (14) (4) (0) (40) (14) (2) (0) <50> <49> tongue 2 0 0 0 0 arteritis (0)(0)(0)(0) (2)(4)(0)(0) (4)(0)(0)(0) (0)(0)(0)(0) <49> <50> <49> <50> salivary gl inflammatory infiltration 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) 0 0 0 3 0 0 0 2 0 0 0 lymphocytic infiltration (2)(0)(0)(0) (4)(0)(0)(0) (6)(0)(0)(0) osseous metaplasia (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) <49> <50> <49> stomach <50> 0 0 0 0 0 2 0 0 0 erosion 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (4)(0)(0)(0) inflammatory infiltration (4)(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 b: Number of animals with lesion

c:b/a * 100

Significant difference; $*: P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

(c)

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

ANIMAL

SEX : MALE PAGE: 7

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 49 1 2 3 4 (%) (%) (%) (%)	15 ppm 50 1 2 3 4 (%) (%) (%) (%)	45 ppm 49 1 2 3 4 (%) (%) (%) (%)
{Digestive s	system}				
stomach	hyperplasia:forestomach	<50> 0 1 0 0 (0) (2) (0) (0)	<49> 2 0 0 0 (4) (0) (0) (0)	<50> 1 1 0 0 (2) (2) (0) (0)	<pre></pre>
	hyperkeratosis:forestomach	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	erosion:glandular stomach	2 0 0 0 (4) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia:glandular stomach	25 24 0 0 (50) (48) (0) (0)	20 29 0 0 (41) (59) (0) (0)	15 32 0 0 (30) (64) (0) (0)	28 12 0 0 ** (57) (24) (0) (0)
liver	angiectasis	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 1 0 0 (2) (2) (0) (0)	<50> 2	<49> 0 0 0 0 0 0 0 0 0) (0) (0) (0)
	necrosis	0 0 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)
	necrosis:central	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)
	fatty change:central	3 0 0 0 0 (6) (6) (7)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)

Grade 1 : Slight 2 : Moderate

< 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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

PAGE: 8

		Group Name No. of Animals on Study Grade 1	50 2	3	4	1	2	19 3	ppm.	4_	_1		50 2	3			_1		2	9 3		4
)rgan	Findings	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(<u>4</u> (%)	(%)		(%)	(%)	(%)		(%)		(%)	(%)	(%)
Digestive sy	stem}																					
iver	granulation	21 (42)	<50. 2 (4) (0	0 (0)	23 (47)	0	19> 0 (0)		0 0)	24 (48)	(<50 0 0)	0	0 (0)	(31 (63)	(<49 2 4)	0		0 (0)
	clear cell focus	3 (6)	0 (0) (0	0 (0)	2 (4)	0 (0)	0 (0)	(0 0)	2 (4)	(0 0)	0 (0)	0 (0)	•	0 (0)		0	(0		0 (0)
	acidophilic cell focus	2 (4)	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)
	basophilic cell focus	0 (0)	0 (0) (0 0)	0 (0)	2 (4)	0 (0)	0 (0)	(0 0)	0 (0)	(0	0 (0)	0 (0)	,	0 (0)		1 2)	((0
	bile ductular proliferation	(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)
	biliary cyst	0 (0)	0 (0) (0 (0)	0 (0)	(2)	0 (0)	0 (0)) (0	(2)) (1 2)	0 (0)	0 (0)		0 (0)) (0 0)		0 0) (0 (0)
gall bladd	intestinal metaplasia	0 (0)	<50 0 (0) (0	0 (0)	0 (0)	0) (0	1 (2)) (<5 0 0)	0	0 (0)		0 (0)		0		0 0) (0
pancreas	islet cell hyperplasia	1 (2)	<50 0 (0) (0	0 (0)	1 (2)	0			0 0)	1 (2)		<5 0 0)	0	0 (0)		0 (0)		0		0 0) (0 (0)

b

b: Number of animals with lesion

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

c:b/a*100

ANIMAL

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

PAGE: 9 SEX : MALE

	Group Name	Control	5 ppm	15 ppm	45 ppm 49
Findings	Grade 1 (%)	2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
cem}					
inferct	(0) (<50> 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0
basophilic change	35 (70) (2 0 0 (4) (0) (0)	31 4 0 0 (63) (8) (0) (0)	34 2 0 0 (68) (4) (0) (0)	31 0 1 0 (63) (0) (2) (0)
deposit of hemosiderin	0 (0) (0 1 0 (0) (2) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
lymphocytic infiltration	1 (2) (0 0 0 (0) (0)	3 0 0 0 0 (6) (6) (70) (70)	3 0 0 0	0 0 0 0 0 (0) (0)
inflammatory polyp	2 (4) (0 1 0 (0) (2) (0)	0 1 0 0 (0) (2) (0) (0)	0 1 1 0 (0) (2) (2) (0)	0 0 1 0 (0) (2) (0)
vacuolization of proximal tubule	40 (80)	0 0 0 (0) (0)	41 0 0 0 (84) (0) (0) (0)	40 0 0 0 (80) (0) (0) (0)	31 0 0 0 (63) (0) (0) (0)
hydronephrosis	0 (0)	0 5 0	0 1 1 0 (0) (2) (2) (0)	2 1 2 0 (4) (2) (4) (0)	0 0 1 0 (0) (2) (0)
retention cyst	(0)	1 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
	infarct basophilic change deposit of hemosiderin lymphocytic infiltration inflammatory polyp vacuolization of proximal tubule hydronephrosis	No. of Animals on Study Grade 1 (%)	No. of Animals on Study 50 Grade 1 2 3 4 (%)	No. of Animals on Study 50	No. of Animals on Study 50

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a : Number of animals examined at the site

b: Number of animals with lesion b

(c) c:b/a*100

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

STUDY NO. : 0438 : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

ANIMAL

PAGE: 10

Organ	No	oup Name of Animals on Study ade 1 (%)	50 2 (%)	3 (%)	01 <u>4</u> (%)	<u>1</u> (%)	2 (%)	5 p 3 (%)	9pm 4 (%)	1 (%)	2 (%)	15 ₁ 50 3 (%)	9pm 4 (%)	1 (%)	2 (%)	49 3	ppm 4
																	
(Urinary syst	tem}																
kidney	mineralization:cortico-medullary junctio	n 0 (0)	<50 0 (0) (0	0 (0)	1 (2)	<4 0 (0)	0	0 (0)	0 (0)	0	50> 0 (0)	0 (0)	0 (0)	0) (0
	mineralization:papilla	7 (14)	0 (0) (0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)	12 (24)) (0)) (0
	mineralization:cortex	28 (56)	2 (4)	0 (0)	0 (0)	29 (59)	6 (12)	0 (0)	0 (0)	38 (76)	2 (4)	0 (0)	0 (0)	22 (45)	2) (4	. () ()) (0
	hyperplasia:tubular epithelium	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(0)	0 (0)	0 (0)) ()) (C
	eosinophilic droplet:proximal tubule	1 (2)	1 (2)	1 (2)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6) (2) ()) ((
urin bladd	inflammation	0 (0)	<50 0 (0)	0	0 (0)	0 (0)	0	19> 0 (0)	0 (0)	0 (0)	1		0 (0)	0 (0) (0) ((
	inflammatory infiltration	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 (
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.	0 (0)	1 (2)	0 (0)	0 (0)	2 (4			0 (

1 : Slight Grade < a >

b: Number of animals with lesion b

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

a : Number of animals examined at the site

c:b/a*100

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

PAGE: 11 : MALE SEX

Organ	Group Name No. of Anim Grade		5 ppm 49	15 ppm 50	45 ppm 49
		· · · · · · · · · · · · · · · · · · ·	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Urinary syst	em}				
urin bladd	xanthogranuloma	(50) 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 (0) (0) (0) (0)	<48> 0 1 0 0 (0) (2) (0) (0)	<pre></pre>
{Endocrine sy	rstem)				
pituitary	cyst	50> 5 0 0 0 (10) (0) (0) (0)	<49> 8 0 0 0 (16) (0) (0) (0)	<50> 7 0 0 0 (14) (0) (0) (0)	<49> 8 0 0 0 (16) (0) (0) (0)
	hyperplasia	1 0 0 0 0 (2) (0) (0) (0)	1 0 0. 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
	Rathke pouch	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	focal hypertrophy	2 0 0 0 0 (4) (0) (0) (0)	3 0 0 0 0	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
thyroid	follicular hyperplasia	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 0 0 0 0 0 0 0 0 0 0	<48> 0 0 0 0 0 0 0 0 0 0 0 0
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b/a * 100 difference; *: P \leq 0.05 **: P \leq				

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

PAGE: 12

		Group Name Control No. of Animals on Study 50	5 ppm 49	15 ppm 50	45 ppm 49
rgan	Findings	Grade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Endocrine sys	stem)				
hyroid	C-cell hyperplasia	(50) 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\(\langle 50> \) \(1 0 0 \\ (2) (0) (0) (0) \)	<48> 0 0 0 0 0 0 0 0 0 0 0 0 0
drenal	spindle-cell hyperplasia	<50> 19 6 0 0 (38) (12) (0) (0)	<49> 22 8 0 0 (45) (16) (0) (0)	<50> 17 11 0 0 (34) (22) (0) (0)	<pre></pre>
Reproductive	system}				
estis	mineralization	<50> 27 1 0 0 (54) (2) (0) (0)	29 3 1 0 (59) (6) (2) (0)	30 3 1 0 (60) (6) (2) (0)	32 1 0 0 (65) (2) (0) (0)
	xanthogranuloma	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (0)
pididymis	spermatogenic granuloma	<50> 0 0 0 0 (0) (0) (0) (0)	\(\lambda 49 \rangle \) \[1 0 0 \\ (2) (0) (0) (0) \]	<50> 1 0 0 0 (2) (0) (0) (0) .	<49> 1 0 0 0 (2) (0) (0) (0)
	xanthogranuloma	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)

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

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

PAGE: 13

		oup Name Control	5 ppm	15 ppm 50	45 ppm 49
Organ	No. Gra	of Animals on Study 50 ide 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Reproductive	system}				
semin ves	lymphocytic infiltration	<50> 0 0 0 0 0 0 0 0 0 0 0	<49> 0 0 0 0 0 0 0 0 0 0 0	(50) 1 0 0 0 (2) (0) (0) (0)	<pre></pre>
prostate	lymphocytic infiltration	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0
prep/cli gl	cyst	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 2 0 0 (0) (4) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0
	inflammation	0 0 1 0 (0) (2) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
{Nervous syst	em}				
brain	mineralization	<50> 20 0 0 0 (40) (0) (0) (0)	\(\lambda 49 \rangle \) 13	\(\langle 50 \rangle \) 16 0 0 0 (32) (0) (0) (0)	6 0 0 0 *** (12) (0) (0) (0)
{Special sens	e organs/appendage}				
өуө	keratitis	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
Grade < a > b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100	Marked 4: Severe			

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

	Group No. of	Name Control Animals on Study 50	5 ppm 49	15 ppm 50	45 ppm 49		
gan	Findings	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)		
pecial sen	se organs/appendage)						
re	phthisis bulbi	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<49> 0 0 0 0 0 0 0 0 0 0 0		
rder gl	lymphocytic infiltration	<50> 2 0 0 0 (4) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 2 0 0 0 (4) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0		
	hyperplasia	1 1 0 0 (2) (2) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)		
fusculoskel	etal system)						
scle	mineralization	(50) 1 0 0 0 (2) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0		
	arteritis	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0		
one	osteosclerosis	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	(0)(0)(0)(0)	2 0 0 0 (4) (0) (0) (0)		
rade a > b	1: Slight 2: Moderate 3: Marla: Number of animals examined at the site b: Number of animals with lesion c: b/a*100	xed 4: Severe					

APPENDIX L 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : MALE

DEAD AND MORIBUND ANIMALS

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

STUDY NO. : 0438

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE : A1

SEX : MALE PAGE : 1

		roup Name Control	5 ppm 14	15 ppm 18	45 ppm 13
Organ		c. of Animals on Study 15 rade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
{Integumentar	y system/appandage}				
skin/app	inflammation	<15> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (7) (0) (0) (0)	<18> 0 0 0 0 (0) (0) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
	scab	1 1 0 0 (7) (7) (0) (0)	0 1 0 0 (0) (7) (0) (0)	1 0 0 0 0 (6) (6) (70) (70)	0 0 0 0 0 (0) (0)
{Respiratory	system)				
nasal cavit	exudate	<15> 0 0 0 0 0 0 0 0 0 0	0 0 0 0 (0) (0) (0) (0)	(18) 0 0 0 0 (0) (0) (0) (0)	<13> 4 0 0 0 (31) (0) (0) (0)
	angiectasis	0 0 0 0 0 (0)	0 0 0 0 0 0	4 0 0 0 0 (22) (0) (0) (0)	2 0 0 0 0 (15) (0) (0) (0)
	eosinophilic change:olfactory epitheliu	2 0 0 0 (13) (0) (0) (0)	3 0 0 0 (21) (0) (0) (0)	3 1 0 0 (17) (6) (0) (0)	6 0 0 0 0 (46) (0) (0)
	eosinophilic change:respiratory epithe	2 0 0 0 (13) (0) (0) (0)	1 0 0 0 0 (7) (0) (0)	1 0 1 0 (6) (6) (7)	3 0 0 0 (23) (0) (0) (0)
	respiratory metaplasia:olfactory epithe	1 0 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0)	13 1 0 0 *** (72) (6) (0) (0)	2 9 0 0 *** (15) (69) (0) (0)
Grade <a>a> b (c) Significant	a: Number of animals examined at the sib: Number of animals with lesionc: b / a * 100				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : MALE

)rgap	Findings	Group Name No. of Animals on Study Grade	15 2 (%)	Contro	1 	1(%)	14 2 (%)	5 pp 3 (%)	m 4 (%)	1(%)	18 2 (%)	15 pr	pm 4 (%)	1 (%)	13 2	3	4_
)rgan	rindings	(%)	(%)			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Respiratory s	ystem}																
nasal cavit	respiratory metaplasia:gland	2 (13)	<15 0 (0) (0	0 ()	1 (7)	<14 0 (0) (0	0 (0)	16 (89)	<18 1 (6) (0	0 ** (0)	3 (23)	<13 9 (69)	0	0 ** (0)
	desquamation:olfactory epithelium	0 (0)	0 (0) (0 (0) (0 (0)	0 (0)	0 (0) (0 (0)	0 (0)	1 (6)	0 (0) (0 (0)	0 (0)	0 (0)	0 (0)	0 (0) (0
	cuboidal change:respiratory epitheli		0 (0) (0 (0) (0 (0)	5 (36)	0 (0) (0 (0)	0 *	9 (50)	6 (33) (0 (0)	0 ** (0)	8 (62)	4 (31)	0 (0) (0 ** (0)
	nodular hyperplasia:transitional epi	thelium 0 (0)	0 (0) (0 (0) (0 (0)	0 (0)	0 (0) (0 (0)	0 (0)	2 (11)	0 (0) (0 (0)	0 (0)	5 (38)	0 (0)	0 (0) (0 * (0)
	atrophy:olfactory epithelium	4 (27)	0 (0) (0 (0) (0 (0)	4 (29)	0 (0) (0	0 (0)	5 (28)	0 (0) (0 (0)	0 (0)	1 (8)	0 (0)	0 (0) (0 (0)
nasopharynx	eosinophilic change	0 (0)	<15 0 (0)	5> 0 (0) (0 (0)	1 (7)	<14 0 (0) (0	0 (0)	0 (0)	. <18 0 (0)	1	0 (0)	3 (23)	<13 0 (0)	3> 0 (0) (0 (0)
larynx	arteritis	0 (0)	<18 0 (0)	0	0	0 (0)	<14 1 (7) (0	0	0 (0)	<18 0 (0)	0	0 (0)	0 (0)	<1: 0 (0)	3> 0 (0) (0 (0)

STUDY NO. : 0438 ANIMAL

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

REPORT TYPE : A1 SEX

: MALE

DEAD AND MORIBUND ANIMALS (0-105W)

rgan	Findings	Group Name No. of Animals on Study Grade 1 (%)	Con 15 2 3 (%) (%	trol 4	1 (%)	14 2 (%)	5 pr 3 (%)	om 4 (%)	1(%)	 18 2	15 ppi 3 (%)	n 4 (%)	.	1	2:	3	4
gaii	rinuings	(%)	(%) (%) (%) 	(%)	(%)	(%)	(%)	(%)	 ,% <i>)</i>	(%)	(%)		%)	(%)	(%)	(%
espiratory s	system}																
ng	congestion	0 (0)	<15> 0 0 (0) (0		0 (0) (<14 0 (0) (0	0 (0)	0 (0)	<18> 0 0) (0	0 0)		1 8) (<13 0 0) (3> 0 (0)	0 (0
	inflammatory infiltration	0 (0)	0 0		0 (0)	0 (0) (0 0)	0 (0)	0 (0)	1 6) (0 (0 0)		0 0) (0	0 (0)	0)
	bronchiolar-alveolar cell hyperplasia		0 0		(0)	0 (0) (0 (0)	0 (0)	(0)	0 0) (0 (0 0)		0 0) (0	0 (0)	(0
ematopoietio	c system}																
ne marrow	increased hematopolesis	(7)	<15> 0 0 (0) (0	-	0 (0)	<14 0 (0) (0	0 (0)	3 (17)	<18> 0 0) (0	0		1 8) (<13 0 0)	3> 0 (0)	0 (
	decreased hematopoiesis	0 (0)	0 0		1 (7)	0 (0) (0 ()	0 (0)	0 (0)	1 6) (0 (0 0)		0 0) (0	0 (0)	0)
	erythropolesis:increased	(-7)	0 0		1 (7)	0 (0) (0 (0)	0 (0)	3 (17)	0 0) (0 (0)	0 0)		2 .5) (0	0 (0)	(0
	granulopoiesis:increased	0 (0)	0 0		1 (7)	0 (0) (0 (0)	0 (0)	0 (0)	0 0) (0	0 0)		1 (8)	0	0 (0)	((
a > b	1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100	: Marked 4 : Severe ite								 				•			

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

	Grade	Animals on Study 15 1 2 3 4	5 ppm 14 1 2 3 4 (%) (%) (%) (%)	15 ppm 18 1 2 3 4 (%) (%) (%) (%)	45 ppm 13 1 2 3 4
)rgan	Findings	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%) (%)
Hematopoie	tic system)				
pleen	congestion	<15> 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 (0) (0) (0) (0)	0 1 0 0 (0) (6) (0) (0)	(0) (0) (0) (0) (0) (0) (0) (0)
	deposit of melanin	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 0 (0) (0)
	extramedullary hematopoiesis	0 3 1 1 (0) (20) (7) (7)	3 0 4 0 (21) (0) (29) (0)	2 4 4 0 (11) (22) (22) (0)	0 0 6 0 *
	follicular hyperplasia	0 1 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)
Circulator	y system}				
eart	mineralization	<15> 3 0 0 0 (20) (0) (0) (0)	2 0 0 0 (14) (0) (0) (0)	3 0 0 0 (17) (0) (0) (0)	2 1 0 0 (15) (8) (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 0 (7) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
	arteritis	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Frade (a) b (c)	1: Slight 2: Moderate 3: Mark a: Number of animals examined at the site b: Number of animals with lesion c: b/a * 100	ed 4: Severe			

: MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL REPORT TYPE : A1 SEX

: MALE

DEAD AND MORIBUND ANIMALS (0-105W)

Organ	Findings	Group Name Control No. of Animals on Study 15 Grade 1 2 3 (%) (%) (%) (%)	5 ppm 14 4 1 2 3 4 %) (%) (%) (%)	15 ppm 18 1 2 3 4 (%) (%) (%) (%)	45 ppm 13 1 2 3 4 (%) (%) (%) (%)
organ	Thungs	(/0/ (/0/ (/0/			(%) (%) (%)
{Digestive sys	stem)				
tooth	dysplasia	<15> 4 2 0 (27) (13) (0) (0 6 0 1 0 0) (43) (0) (7) (0)	5 3 1 0 (28) (17) (6) (0)	<13> 4 1 0 0 (31) (8) (0) (0)
tongue	arteritis	<15> 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0) (0) (14) (0) (0)	<18> 1 0 0 0 (6) (0) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
salivary gl	inflammatory infiltration	<15> 1 0 0 (7) (0) (0) (0 0 0 0 0 0) (0) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0 0	<13> 0 0 0 0 (0) (0) (0) (0)
	lymphocytic infiltration	1 0 0 (7) (0) (0) (0 1 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)	1 0 0 0 0 (8) (0) (0) (0)
stomach	hyperplasia:forestomach	<15> 0 0 0 (0) (0) (0) (0 1 0 0 0 0) (7) (0) (0) (0)	1 0 0 0 (6) (0) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
	hyperkeratosis:forestomach	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 0 (0) (0)	1 0 0 0 0 (8) (0) (0) (0)
	erosion:glandular stomach	1 0 0 (7) (0) (0) (0 1 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 (0) (0)

Grade 1 : Slight

2 : Moderate

3 : Marked

4 : Severe

<a>>

b

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

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

Owen	N	roup Name Control to. of Animals on Study 15 rade 1 2 3 4 (%) (%) (%) (%)	5 ppm 14 1 2 3 4 (%) (%) (%) (%)	15 ppm 18 1 2 3 4 (%) (%) (%) (%)	45 ppm 13 1 2 3 4 (%) (%) (%) (%)
Organ	rindings	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%) (%)
{Digestive	system)				
stomach	hyperplasia:glandular stomach	<15> 11 3 0 0 (73) (20) (0) (0)	<14> 8 6 0 0 (57) (43) (0) (0)	10 7 0 0 (56) (39) (0) (0)	(13) 10 2 0 0 (77) (15) (0) (0)
liver	angiectasis	<15> 0 0 0 0 (0) (0) (0) (0)	<14> 0 1 0 0 (0) (7) (0) (0)	<18> 1 0 0 0 (6) (0) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
	necrosis	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)
	necrosis:central	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)
	fatty change:central	2 0 0 0 (13) (0) (0) (0)	2 0 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (8) (0) (0)
	granulation	0 0 0 0 0 (0) (0)	1 0 0 0 0 (7) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0
{Urimary sy	vstem}				
kidney	infarct	(15> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(18) 0 1 0 0 (0) (6) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
Grade < a > b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the sit b: Number of animals with lesion c: b/a * 100	: Marked 4 : Severe te			

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL REPORT TYPE : A1 SEX : MALE DEAD AND MORIBUND ANIMALS (0-105W)

PAGE: 7

organ	Findings	Group Name Control No. of Animals on Study 15 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 14 1 2 3 4 (%) (%) (%) (%)	15 ppm 18 18 (%) (%) (%) (%)	45 ppm 13 13 3 4 (%) (%) (%) (%)
Urinary sy	stem}				
idney	basophilic change	<15> 6 0 0 0 (40) (0) (0) (0)	<14> 4 0 0 0 (29) (0) (0) (0)	\$\frac{\lambda 18\rangle}{5} 0 0 \text{(0) (0) (0)}\$	3 0 1 0 (23) (0) (8) (0)
	deposit of hemosiderin	0 0 1 0 (0) (7) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory polyp	1 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 1 0 (0) (6) (0)	0 0 0 0 0 (0) (0)
	vacuolization of proximal tubule	9 0 0 0 0 (60) (60) (60) (60)	11 0 0 0 (79) (0) (0) (0)	13 0 0 0 (72) (0) (0) (0)	5 0 0 0 (38) (0) (0) (0)
	hydronephrosis	0 0 2 0 (0) (0) (13) (0)	0 1 0 0 (0) (0)	1 1 1 0 (6) (6) (6) (0)	0 0 0 0 0
	mineralization:papilla	3 0 0 0 (20) (0) (0) (0)	1 0 0 0 0 (7) (0) (0)	3 0 0 0 (17) (0) (0) (0)	4 0 0 0 0 (31) (0) (0) (0)
	mineralization:cortex	5 0 0 0 (33) (0) (0) (0)	5 1 0 0 (36) (7) (0) (0)	13 0 0 0 (72) (0) (0) (0)	3 1 0 0 (23) (8) (0) (0)
	eosinophilic droplet:proximal tubule	0 1 1 0 (0) (7) (7) (0)	1 1 0 0 (7)(7)(0)(0)	1 0 0 0 0 (6) (6) (70) (70)	3 1 0 0 (23) (8) (0) (0)

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

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL REPORT TYPE : A1 SEX : MALE DEAD AND MORIBUND ANIMALS (0-105W)

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 15 18 13 14 (%) (%) (%) Findings_ {Urinary system} urin bladd <15> <14> <17> <13> 0 0 0 0 inflammatory infiltration 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (8)(0)(0)(0) {Endocrine system} pituitary <15> <14> <18> <13> 0 0 0 0 0 2 0 0 0 cyst 0 (15) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (17) (0) (0) (0) hyperplasia 0 0 0 0 0 (7)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) focal hypertrophy (0)(0)(0)(0) (14) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) thyroid <15> <14> <18> <13> follicular hyperplasia 0 0 0 0 0 0 0 (7)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) adrenal <15> <14> <18> <13> spindle-cell hyperplasia 0 0 0 0 4 0 2 6 0 0 0 (33) (0) (0) (0) (36) (0) (0) (0) (33) (22) (0) (0) (31) (15) (0) (0) Grade 1 : Slight 2 : Moderate 4 : Severe

3 : Marked

(a)

a: Number of animals examined at the site

b b: Number of animals with lesion

(c) c:b/a*100

Significant difference; *: $P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

(HPT150)

BAIS4

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE REPORT TYPE : A1 SEX : MALE DEAD AND MORIBUND ANIMALS (0-105W)

Organ		Name Control f Animals on Study 15	5 ppm 14 1 2 3 4 (%) (%) (%) (%)	15 ppm 18 18 (%) (%) (%) (%)	45 ppm 13 1 2 3 4 (%) (%) (%) (%)
{Reproductive	system)				
testis	mineralization	5 1 0 0 (33) (7) (0) (0)	10 0 0 0 (71) (0) (0) (0)	<18> 8 1 1 0 (44) (6) (6) (0)	<pre></pre>
epididymis	spermatogenic granuloma	<15> 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (7) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0	<13> 0 0 0 0 (0) (0) (0) (0)
prep/cli gl	cyst	<15> 1 0 0 0 (7) (0) (0) (0)	<14> 0 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<13> 0 0 0 0 (0) (0) (0) (0)
{Nervous syst	em}				
brain	mineralization	6 0 0 0 (40) (0) (0) (0)	3 0 0 0 (21) (0) (0) (0)	\$\frac{\lambda 18}{5}\$ \$5 0 0 0 0 \\ (28) (0) (0) (0)	<13> 0 0 0 0 * (0) (0) (0) (0)
{Special sens	e organs/appendage}				
Harder gl	hyperplasia	0 0 0 0 (0) (0) (0) (0)	(14) 1 0 0 0 (7) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: Mai a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 ifference; *: $P \le 0.05$ **: $P \le 0.0$				

SEX

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

: MALE

PAGE: 10

	Group Nan No. of Ar Grade	imals on Study 15	5 ppm 14 1 2 3 4	15 ppm 18 1 2 3 4	45 ppm 13 1 2 3 4
Organ	Findings	(%) (%) (%)	(%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)
{Musculoskele	tal system}				
muscle	mineralization	1 0 0 0 (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)
	arteritis	0 0 0 0 0 (0) (0)	1 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
bone	osteosclerosis	<15> 0 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<18> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<13> 2 0 0 0 (15) (0) (0) (0)
Grade <a> b (c) Significant d	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 ifference; *: P ≤ 0.05 **: P ≤ 0.01	4 : Severe			

APPENDIX L 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : MALE

SACRIFICED ANIMALS

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

ANIMAL

PAGE: 1

		roup Name o. of Animals on Study	3.	Contr	rol			35	5 pp	m			3		ppm				•	45 36	5 ppm	m
rgan		rade <u>1</u> (%)	2 (%)	3 (%)	(%)	(%)		2 %)	3 (%)	<u>4</u> (%)	<u>(</u>	1 %)	2 (%)	3 (%)		(%)	<u>(</u>	(%)	2 (%)	- 5	3 %)	(%)
Integumentary	y system/appandage}																					
kin/app	inflammation	0 (0)	<3 0 (0)	0	0 (0)	0 (0)		<352 0 0) (0	0 (0)		1 3) (<3 0 0)	2> 0 (0)		0 0)		0 0) (<(3 0 (0)		0 0) (0 (0)
	scab	1 (3)	0 (0)	0 (0)	0 (0)	2 (6)) (0 0) (0 0)	0 (0)	(0 0) (0 0)	0 (0)) (0 0)		0 0) (0 (0)		0 0) (0 (0)
Respiratory	system}																					
asal cavit	exudate	1 (3)	<3 0 (0)	0	0 (0)	0 (0)		<35 0 0) (0	0 (0) .		1 3) (<3 0 0)	0		0 0)		16 14) (0 (0)		0 0) (0 (0)
	angiectasis	. (0)	0 (0)	0 (0)	0 (0)				0	0 (0)		0	0 0)	0 (0)		0 ** 0)		15 42) (0 (0)		0 0) (0 (0)
	thrombus	(0)	0 (0)	0 (0)	0 (0)	0		0 0) (0	0 (0)		1 3) (0 0)	0		0 0)		0	0 (0)		0 0) (0 (0)
	proliferation:histiocyte	0 (0)	0 (0)	0 (0)	0 (0)	0 (0		0 0) (0	0 (0)		0 0) (0 0)	(0		0 0)		1 3)	0 (0)		0 0) (0 (0)
	eosinophilic change:olfactory epitheliu	um 11 (31)	2 (6)	0 (0)	0 (0)	5 (14		1 3) (0 0)	0 (0)	. (]	6 .9) (0 0)	0) (0 0)		9 25)	0		0 0) (0 (0)

< 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

0438

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	•	Group Name No. of Animals on Study Grade(%)	Control 35 2 3 4 (%) (%)	5 ppm 35 1 2 3 4 (%) (%) (%)	15 ppm 32 1 2 3 4 (%) (%) (%)	45 ppm 36 1 2 3 4 (%) (%) (%) (%)
{Respiratory	system}					
nasal cavit	eosinophilic change:respiratory epithe		<35> 2 0 0 (6) (0) (0)	2 1 1 0 (6) (3) (3) (0)	<pre></pre>	<pre></pre>
	respiratory metaplasia:olfactory epith	elium 5 (14)	0 0 0 0 (0) (0)	4 0 0 0 (11) (0) (0) (0)	25 2 0 0 ** (78) (6) (0) (0)	1 35 0 0 ** (3) (97) (0) (0)
	respiratory metaplasia:gland	6 (17)	2 0 0 (6) (6) (7)	7 0 0 0 (20) (0) (0) (0)	30 2 0 0 ** (94) (6) (0) (0)	1 35 0 0 *** (3) (97) (0) (0)
	desquamation:olfactory epithelium	0 (0)	0 0 0 0 (0) (0)	0 0 0 0	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0
	cuboidal change:respiratory epithelium	0 (0)	0 0 0 0 (0)	3 0 0 0 0	18 9 0 0 ** (56) (28) (0) (0)	31 3 0 0 ** (86) (8) (0) (0)
	nodular hyperplasia:transitional epith		0 0 0 0 (0) (0)	0 0 0 0 0 (0)	2 0 0 0 0 (6) (6) (70) (70)	13 0 0 0 ** (36) (0) (0) (0)
	atrophy:olfactory epithelium	4 (11)	1 0 0 (3) (0) (0)	6 0 0 0 0 (17) (0) (0) (0)	4 0 0 0 0 (13) (0) (0) (0)	5 1 0 0 (14) (3) (0) (0)
nasopharynx	eosinophilic change	3 (9)	<35> 1 0 0 (3) (0) (0)	<35> 0 2 0 0 (0) (6) (0) (0)	<32> 2 3 0 0 (6) (9) (0) (0)	<36> 6 1 0 0 (17) (3) (0) (0)
Grade < a > b (c)	1: Slight 2: Moderate 3 a: Number of animals examined at the s: b: Number of animals with lesion c: b / a * 100 ifference: *: P ≤ 0.05 **: P ≤					

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 35 35 32 36 Grade Organ_ Findings_ (%) (%) (%) (%) (%) {Respiratory system} lung <35> <35> <32> <36> inflammatory infiltration 0 1 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) (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) interstitial pneumonia 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 (3)(3)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) {Hematopoietic system} bone marrow <35> ⟨35⟩ decreased hematopoiesis 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (14) (0) (0) (0) erythropoiesis:increased 0 (3)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) granulopoiesis:increased 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (3)(0)(3)(0) (0)(0)(0)(0) Grade 1 : Slight 2 : Moderate

Significant difference ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

^{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

STUDY NO. : 0438 ANIMAL : MOUSE

: U438 : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 35 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 35 1 2 3 4 (%) (%) (%) (%)	15 ppm 32 1 2 3 4 (%) (%) (%) (%)	45 ppm 36 1 2 3 4 (%) (%) (%)
{Hematopoiet	ic system)				
lymph node	plasma cell hyperplasia	<35> 0 0 0 0 (0) (0) (0) (0)	<35> 0 0 0 0 (0) (0) (0) (0)	<32> 0 1 0 0 (0) (3) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)
spleen	deposit of amyloid	<35> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<32> 1 0 0 0 (3) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0
	deposit of melanin	2 0 0 0 0 (6) (6) (70) (70)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	plasma cell hyperplasia	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)
	extramedullary hematopoiesis	3 1 0 0 (9) (3) (0) (0)	4 3 0 0 (11) (9) (0) (0)	4 4 0 0 (13) (13) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)
	follicular hyperplasia	2 0 0 0 0 (6) (6) (70) (70)	4 2 0 0 (11) (6) (0) (0)	1 1 0 0 (3) (3) (0) (0)	5 0 0 0 (14) (0) (0) (0)
{Circulatory	y system}				
heart	mineralization	35> 1 0 0 0 (3) (0) (0) (0)	<35> 0 0 0 0 (0) (0) (0) (0)	32> 0 0 0 0 (0) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:	3: Marked 4: Severe he site P ≤ 0.01 Test of Chi Square			

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1

SEX

: MALE

		Animals on Study 35	5 ppm 35	15 ppm 32	4 5 ppm 36
organ	Grade Findings	<u>1 2 3 4</u> (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	$\frac{1}{(\%)}$ $\frac{2}{(\%)}$ $\frac{3}{(\%)}$ $\frac{4}{(\%)}$
Circulatory :	system}				
neart	lymphocytic infiltration	<pre></pre>	(0) (0) (0) (0)	(32> 0 0 0 0 (0) (0) (0) (0)	(36) 1 0 0 0 (3) (0) (0) (0)
	arteritis	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	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)
(Digestive sy	stem}				
ooth	dysplasia	<pre></pre>	<35> 14 7 1 0 (40) (20) (3) (0)	(32> 15 4 0 0 (47) (13) (0) (0)	<36> 19 3 0 0 (53) (8) (0) (0)
ongue	arteritis	<35> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	\langle 32\rangle \\ 1 0 0 \\ (3) \langle 0 (0) \langle 0 \\ (0) (0) (0) \\ \end{array}	<35> 0 0 0 0 0 0 0 0 0 0 0
alivary gl	lymphocytic infiltration	<35> 0 0 0 0 (0) (0) (0) (0)	(35) 1 0 0 0 (3) (0) (0) (0)	<32> 3 0 0 0 (9) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)
	osseous metaplasia	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade < a > b (c)	1: Slight 2: Moderate 3: Mar. a: Number of animals examined at the site b: Number of animals with lesion c: b/a*100	ked 4: Severe			

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX

: MALE

Organ	Findings	Group Name Control No. of Animals on Study 35 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 35 1 2 3 4 (%) (%) (%) (%)	15 ppm 32 1 2 3 4 (%) (%) (%) (%)	45 ppm 36 1 2 3 4 (%) (%) (%) (%)
{Digestive s	system}				
stomach	erosion	<35> 0 0 0 0 0 0 0 0 0 0 0	<35> 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	<36> 2 0 0 0 (6) (0) (0) (0)
	inflammatory infiltration	2 0 0 0 0 (6) (6) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia:forestomach	0 1 0 0 (0) (0) (0)	1 0 0 0 (3) (0) (0) (0)	0 1 0 0 (0) (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	erosion:glandular stomach	1 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia:glandular stomach	14 21 0 0 (40) (60) (0) (0)	12 23 0 0 (34) (66) (0) (0)	5 25 0 0 * (16) (78) (0) (0)	18 10 0 0 *** (50) (28) (0) (0)
liver	angiectasis	<35> 0 0 0 0 0 0 0 0 0 0 0	<35> 1 0 0 0 (3) (0) (0) (0)	(32> 1 0 0 0 (3) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0
	fatty change:central	1 0 0 0 (3) (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)
	granulation	21 2 0 0 (60) (6) (0) (0)	22 0 0 0 (63) (0) (0) (0)	24 0 0 0 (75) (0) (0) (0)	31 2 0 0 * (86) (6) (0) (0)

Grade

1 : Slight 2 : Moderate 3 : Marked

4 : Severe

< a >

b

a: Number of animals examined at the site

b: Number of animals with lesion

c:b/a * 100

Significant difference ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

: MOUSE B6D2F1/Crlj[Crj:BDF1] ANIMAL REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

SEX : MALE

		oup Name of Animals on Study	35	Contro	ol			35	5 pp	m			3:	15 p	om			9	45 :	ppm
rgan		1 (%)	2 (%)	3 (%)	(%)	(%)	<u>2</u> (%		3 (%)	(%)	-	<u>1</u> (%)	2 (%)	3 (%)	(%)		<u>1</u> (%)	2 (%)	(%)	(%
igestive sy	vstem}																			
iver	clear cell focus	3 (9)	<35 0 (0) (0	0	2 (6)	0	<35>) (0 0) (0 0)	, .	2 6) (<3: 0 0)	2> 0 (0)	0	• (0	0	66> 0 (0)	((
	acidophilic cell focus	2 (6)	0 (0) (0	0 (0)	1 (3)	(0) (0 0) (0 0)	(0 (0 0)	0 (0)	0 (0)	(0 0	0 (0)	0 (0)	((
	basophilic cell focus	° (° 0)	0 (0) (0	0 (0)	2 (6)	(0) (0 (0	0 0)	(0 0) (0 0)	0 (0)	0 (0)	(0 (0)	1 (3)	0 (0)	((
	bile ductular proliferation	(3)	0 (0) (0 0)	0 (0)	(0)	(0) (0 0) (0 0)	(0	0	0 (0)	0 (0)	(0	0 (0)	0 (0)	((
	biliary cyst	(0)	0 (0) (0	0 (0)	1 (3)	(0) (0 0) (0	(1 3) (1 3)	0 (0)	0 (0)	(0 0) (0 (0)	0 (0)	((
all bladd	intestinal metaplasia	0 (0)	<35 0 (0) (0	0 (0)	0 (0)	0 (0	<35>) (0 0) (0 0)	(1 3) (<3 0 0)	2> 0 (0)	0 (0)	(0	<8 0 (0)	36> 0 (0)	
ancreas	islet cell hyperplasia	1 (3)	<35 0 (0) (0	0 (0)	1 (3)	0 (0	<35>) (0 0) (0 0)		1 3) (<3 0 0)	2> 0 (0)	0 (0)	(0 0) (0	36> 0 (0)	((
rade a > b c)	1: Slight 2: Moderate 3:: a: Number of animals examined at the site b: Number of animals with lesion c: b/a*100	Marked 4: Severe			-				-											

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

PAGE: 8

		Group Name No. of Animals on Study Grade 1	35 2	Contro	1	1	3	5 p 5	pm 4		3:	15 p; 2 3	pm 4	,	;	45 ; 36 3	ppm
rgan	Findings	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Jrinary sys	tem}																
idney	basophilic change	29 (83)	<35 2 (6) (0	0 (0)	27 (77) (<3 4 11)	0	0 (0)	29 (91)	<3: 2 (6)	0	0 (0)	28 (78)	0	36> 0 (0)	0 (0)
	lymphocytic infiltration	(3)	0 (0) (0 (0) (0	3 (9) (0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory polyp	1 (3)	0 (0) (1 (3)	0 (0)	0 (0) (1 3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)
	vacuolization of proximal tubule	31 (89)	0 (0) (0 (0)	0 (0)	30 (86) (0 (0)	0 (0)	0 (0)	27 (84)	0 (0)	0 (0)	0 (0)	26 (72)	0 (0)	0 (0)	0 (0)
	hydronephrosis	0 (0)	0 (0) (3 (9) (0 (0)	0 (0) (0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)
	retention cyst	0 (0)	1 (3) (0 (0) (0 (0)	1 (3) (0 ()	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:cortico-medullary junct	ion 0 (0)	0 (0) (0 (0)	0 (0)	(3) (0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:papilla	. (11)	0 (0) (0 (0) (0 (0)	8 (23) (0 (0)	0 (0)	0 (0)	2 (6)	1 (3)	0 (0)	0 (0)	8 (22)	0 (0)	0 (0)	0 (0)

(c)

b

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

b: Number of animals with lesion

c:b/a * 100

(HPT150)

BAIS4

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

		roup Name Control o. of Animals on Study 35	5 ppm 35	15 ppm 32	45 ppm 36
rgan		rade <u>1 2 3 4</u> (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Urinary syst	cem)				
xidney	mineralization:cortex	<35> 23 2 0 0 (66) (6) (0) (0)	<35> 24 5 0 0 (69) (14) (0) (0)	32> 25 2 0 0 (78) (6) (0) (0)	<36> 19 1 0 0 (53) (3) (0) (0)
	hyperplasia:tubular epithelium	4 0 0 0 (11) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	eosinophilic droplet:proximal tubule	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
rin bladd	inflammation	<35> 0 0 0 0 (0) (0) (0) (0)	<35> 0 0 0 0 0 0 0 0 0 0 0	<31> 0 1 0 0 (0) (3) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)
	lymphocytic infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0) (0)	2 0 0 0 0 (6) (6) (0) (0)
	xanthogranuloma	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	0 1 0 0 (0) (0)
Endocrine sy	ystem)				
oituitary	cyst	\$35> 5 0 0 0 (14) (0) (0) (0)	<35> 8 0 0 0 (23) (0) (0) (0)	4 0 0 0 (13) (0) (0) (0)	(36) 6 0 0 0 (17) (0) (0) (0)
Grade (a >	1: Slight 2: Moderate 3: a: Number of animals examined at the sit b: Number of animals with lesion c: b / a * 100	Marked 4: Severe			

STUDY NO. : 0438 ANIMAL : MOUSE

: 0438

: MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	No.	oup Name Control of Animals on Study 35 ade 1 2 3 4 (%) (%) (%) (%)	5 ppm 35 1 2 3 4 (%) (%) (%) (%)	15 ppm 32 1 2 3 4 (%) (%) (%) (%)	45 ppm 36 1 2 3 4 (%) (%) (%) (%)
{Endocrine sy	ystem)				
pituitary	hyperplasia	<35> · · · · · · · · · · · · · · · · · · ·	<35> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>	0 0 0 0 (0) (0) (0) (0)
	Rathke pouch	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (6) (6) (0) (0)	2 0 0 0 (6) (6) (7) (7)
	focal hypertrophy	2 0 0 0 0 (6) (0) (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
thyroid	C-cell hyperplasia	<35> 0 0 0 0 0 0 0 0 0 0 0	<35> 0 0 0 0 0 0 0 0 0 0 0	<32> 1 0 0 0 (3) (0) (0) (0)	<35> 0 0 0 0 (0) (0) (0) (0)
adrenal	spindle-cell hyperplasia	<35> 14 6 0 0 (40) (17) (0) (0)	35> 17 8 0 0 (49) (23) (0) (0)	32> 11 7 0 0 (34) (22) (0) (0)	\(\frac{36}{36} \) 13 9 0 0 (36) (25) (0) (0)
{Reproductiv	re system)				
testis	mineralization	<35> 22 0 0 0 (63) (0) (0) (0)	<35> 19 3 1 0 (54) (9) (3) (0)	<pre></pre>	<36> 26 0 0 0 (72) (0) (0) (0)
Grade <a> a > b (c) Significant	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

_	PV 11	Group Name No. of Animals on Study Grade (%)	Contro 35 2 3	4 1	35 2 3	3 4	1 (%)	32 2	5 ppm 3 4	_		36 2 3		4
gan	Findings	(%)	(%) (%)	(%)	(%) (9	6) (%)	(%)	(%)	(%) (%)	((%)	(%) (%	i) ((%)
eproductive	system}													
stis	xanthogranuloma	0 (0)	<35> 0 0 (0) (0)	0 0 (0)	<35> 0 ((0) (() 0)) (0)	0 (0) (<32> 0 0) (0 0		0	<36> 1 0 3) (0		0 0)
ididymis	spermatogenic granuloma	0 (0)	<35> 0 0 (0) (0)	0 0 (0)	<35> 0 ((0) ((0 0) (0)	1 (3) (<32> 0 0) (0 0 0 0) (0)	(<36> 0 (0) ((0 0)
	xanthogranuloma	0 (0)	0 0 (0) (0)	0 0 (0)	0 (0 0 0) (0)	0 (0) (2 6) (0 0 0 0) (0)	(0 0) (0 ())) (0 0)
nin ves	lymphocytic infiltration	0 (0)	<35> 0 0 (0) (0)	0 0 (0)	<35> 0 (0) (0 0) (0)	1 (3) (<32> 0 0) (0 0 0 0) (0)	(0 0) (<36> 0 (0) (() 0) (0 0)
ostate	lymphocytic infiltration	0 (0)	<35> 0 0 (0) (0)	0 1 (0) (3)	<35> 0 ((0) (0	0 0	0 (0) (<32> 0 0) (0 0 0 0) (0)	(0 0) (<36> 0 (0) ((0 0) (0 0)
ep/cli gl	cyst	0 (0)	<35> 0 0 (0) (0)	0 0	<35> 2 (6) (0 0) (0)	0 (0) (<32> 0 0) (0 0 0 0) (0)	(0 (<36> 0 (0) ((o o) (0 0)
	inflammation	0 (0)	0 1 (0) (3)	0 0 (0)	0 (0 0	0 (0) (0	0 0 0 0) (0)			0 (0 0)

(c)

c:b/a * 100

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

ANIMAL

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 35 35 36 Grade Findings_ (%) (%) {Nervous system} brain <35> <35> mineralization 0 0 11 0 0 0 (40) (0) (0) (0) (29) (0) (0) (0) (34) (0) (0) (0) (17) (0) (0) (0) (Special sense organs/appendage) eye <35> <35> <32> keratitis 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (3)(0)(3)(0) phthisis bulbi 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(3)(0) (0)(0)(0)(0) Harder gl <35> <35> <32> <36> lymphocytic infiltration 0 0 0 0 0 0 0 0 0 0 0 0 (6)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (0)(0)(0)(0) hyperplasia (3)(3)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(3)(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:b/a*100 Significant difference ; * : P \leq 0.05 ** : P \leq 0.01 Test of Chi Square

(HPT150)

BAIS4

APPENDIX L 4

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : FEMALE

ALL ANIMALS

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

•

	No.	up Name Control of Animals on Study 50	5 ppm 50	15 ppm 50	4 5 ppm 50
Organ	Gra	de <u>1 2 3 4</u> (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Integumentar	ry system/appandage}				
kin/app	inflammation	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
ubcutis	epidermal cyst	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)
Respiratory	system)				
asal cavit	exudate	<50> 2 0 0 0 (4) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 18 0 0 0 *** (36) (0) (0) (0)
	angiectasis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	4 0 0 0 0 (8) (0) (0) (0)	10 0 0 0 ++
	thrombus	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0)
	eosinophilic change:olfactory epithelium	11 2 0 0 (22) (4) (0) (0)	14 0 0 0 (28) (0) (0) (0)	5 0 0 0 0 (10) (10) (0) (0)	17 0 0 0 (34) (0) (0) (0)
Frade (a > b (c)	1: Slight 2: Moderate 3: 1 a: Number of animals examined at the site b: Number of animals with lesion c: b/a * 100	farked 4: Severe			

: MOUSE B6D2F1/Crlj[Crj:BDF1]

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

ANIMAL : MOUSE B6D2F1/

REPORT TYPE : A1

SEX : FEMALE

	Group Name No. of Animal	Control s on Study 50	5 ppm 50	15 ppm 50	45 ppm
Organ	Grade Findings	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)
{Respiratory	system)				
nasal cavit	eosinophilic change:respiratory epithelium	<50> 39 6 0 0 (78) (12) (0) (0)	<50> 33 9 0 0 (66) (18) (0) (0)	<pre></pre>	<pre></pre>
	inflammation:respiratory epithelium .	1 0 0 0 0 (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)
	disarrangement:olfactory epithelium	0 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)
	respiratory metaplasia:olfactory epithelium	1 0 0 0 0 (2). (0) (0) (0)	12 0 0 0 *** (24) (0) (0) (0)	40 1 0 0 *** (80) (2) (0) (0)	2 48 0 0 *** (4) (96) (0) (0)
	respiratory metaplasia:gland	10 0 0 0 0 (20) (0) (0)	12 0 0 0 (24) (0) (0) (0)	41 1 0 0 ** (82) (2) (0) (0)	2 48 0 0 *** (4) (96) (0) (0)
	squamous cell metaplasia:respiratory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0)
	cuboidal change:respiratory epithelium	0 0 0 0 0 (0) (0)	4 0 0 0 0 (8) (0) (0)	48 0 0 0 ** (96) (0) (0) (0)	50 0 0 0 *** (100) (0) (0) (0)
	nodular hyperplasia:transitional epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	16 0 0 0 *** (32) (0) (0) (0)
Grade <a>> b (c)	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 lifference; *: P ≤ 0.05 **: P ≤ 0.01 Test	4 : Severe			

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: FEMALE

ANIMAL

SEX

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	Con 50 2 3 (%) (%		5 ppm 50 1 2 3 4 (%) (%) (%) (%)	15 ppm 50 1 2 3 4 (%) (%) (%) (%)	45 ppm 50 1 2 3 4 (%) (%) (%) (%)
Respiratory s	evetam}						
nasal cavit	atrophy:olfactory epithelium	2 (4)	<50> 0 0 (0) (0	0)) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 3 0 0 0 (6) (0) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0 0
asopharynx	eosinophilic change	13 (26)	<50> 1 0 (2) (0		<50> 6 2 0 0 (12) (4) (0) (0)	3 2 0 0 * (6) (4) (0) (0)	<50> 16 3 0 0 (32) (6) (0) (0)
ung	congestion	0 (0)	<50> 0 0 (0) (0		<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	lymphocytic infiltration	1 (2)	0 0		1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	bronchiolar—alveolar cell hyperplasi:		0 0		1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
{Hematopoietio	c system}						
oone marrow	granulation	1 (2)	<50> 0 0 (0) (0		<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0 0
<a>>	a: Number of animals examined at theb: Number of animals with lesionc: b / a * 100		3				

STUDY NO. : 0438 ANIMAL

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Crlj[Crj:BDF1]

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

PAGE: 18

		Group Name No. of Animals on Study Grade	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
Organ	Findings	(%)	2 3 4	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Hematopoieti	.c system)					
bone marrow	increased hematopoiesis	0 (0)	<50> 0 0 0 0 (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0 0
	decreased hematopoiesis	1 (2)	0 0 0	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	myelofibrosis	3 (6)	0 0 0	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	erythropoiesis:increased	3 (6)	0 0 0	2 0 0 0 0 (4) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)	2 0 0 0 0 (4) (0) (0)
	granulopoiesis:increased	1 (2)	0 0 0	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 1 0
lymph node	atrophy	. 0 (0)		<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	mastcell hyperplasia	0 (0)	0 0 0	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
spleen	atrophy	0 (0)	<50> 0 0 0 0 (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 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

b

c:b/a*100

Significant difference ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1

SEX : FEMALE

		Group Name Control No. of Animals on Study 50	5 ppm 50	15 ppm 50	45 ppm			
rgan	Findings	Grade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)			
Hematopoi	etic system}							
pleen	deposit of melanin	<50> 1 0 0 0 (2) (0) (0) (0)	. <50> 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0			
	fibrosis	0 1 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0			
	extramedullary hematopoiesis	8 3 3 0 (16) (6) (6) (0)	3 6 9 0 (6) (12) (18) (0)	1 4 16 0 ** (2) (8) (32) (0)	9 4 10 0 (18) (8) (20) (0)			
	granulopoiesis:increased	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)			
	follicular hyperplasia	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 (0) (2) (0) (0)	0 1 0 0 (0) (0)			
Circulato	ry system}							
eart	mineralization	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>			
	arteritis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)			
Grade <a>> b (c) Significan	1: Slight 2: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **:	$3: Marked$ $4: Severe$ he site $P \leq 0.01$ Test of Chi Square						

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

ALL ANIMALS (0-105W)

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

REPORT TYPE : A1

SEX : FEMALE

PAGE: 20

{Digestive system}			(%) (%) (9	<u>4</u> <u>1</u> %) (%	2 (%)	(%)	<u>4</u> (%)	(%)	<u>2</u> (%)	3 (%		<u>4</u> (%)	(%)) (50 2 (%)	<u>3</u> (%)	(%)	
tooth dys	splasia	12 (24) (<50> 6 0 (12) (0) (() 9) (18	<50 5) (10) (0	0 0)	1 (2)	4			0 ** 0)	8 (16)		<50) 6 l2) (0	0 (0)	
tongue art	teritis	1 (2) (<50> 0 0 0 0) (0) (0		<49 0) (0) (0	0 0)	1 (2)	0))) (0	0 (0)) (<50) 2 4) (0	0 (0))
salivary gl lym	mphocytic infiltration	5 (10) (<50> 0 0 0 0) (0) (0	0 4	<50 0) (0) (0	1 (2)	0	<50> 0) (0))) (0	2 (4)) (<50> 0 0) (0	0 (0)	
stomach inf	flammatory infiltration	0 (0) (<50> 0 0 (0) (0) (0	0 0	<50 1) (2) (0	0	0 (0)	0))) (0	0 (0)		<50> 0 0) (0	0 (0)	
erc	osion: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)	
hyp	perplasia:forestomach	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))
ero	osion:glandular stomach	0 (0) (0 0 (0 (0) (0 (0) (0 0)	0 (0)	(0)	0 (0		0 0)	0 (0)		0 0) (0 0)	(0)	

c:b/a*100

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

STUDY NO. : 0438 ANIMAL : MOUSE HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

	No.	p Name Control of Animals on Study 50	5 ppm 50	15 ppm 50	45 ppm 50			
Organ	Grad Findings	<u>1 2 3 4</u> (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)			
Digestive sy	vstem)							
stomach	hyperplasia:glandular stomach	<50> 27 12 0 0 (54) (24) (0) (0)	23 16 0 0 (46) (32) (0) (0)	<50> 23 13 0 0 (46) (26) (0) (0)	<50> 25 4 0 0 * (50) (8) (0) (0)			
small intes	inflammation	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)			
	inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)			
arge intes	inflammation	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)			
iver	angiectasis	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 3 1 0 0 (6) (2) (0) (0)	<50> 2 2 0 0 (4) (4) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)			
	fatty change:central	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)			
	granulation	10 2 0 0 (20) (4) (0) (0)	9 3 0 0 (18) (6) (0) (0)	10 8 0 0 (20) (16) (0) (0)	15 2 0 0 (30) (4) (0) (0)			
Grade (a > b (c)	1: Slight 2: Moderate 3: Ma a: Number of animals examined at the site b: Number of animals with lesion c: b/a*100	rked 4: Severe						

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

SEX

: FEMALE

Organ	1	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 50 1 2 3 4 (%) (%) (%) (%)	15 ppm 50 1 2 3 4 (%) (%) (%) (%)	45 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Digestive	system)				
liver	acidophilic cell focus	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	basophilic cell focus	0 1 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)
	biliary cyst	1 0 0 0 0 (2) (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	1 1 0 0 (2) (2) (0) (0)	0 0 0 0 0 (0) (0)
pancreas	inflammation	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
{Urinary sy	stem}				
kidney	infarct	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	basophilic change	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 1 0 0 (0) (2) (0) (0)
Grade <a>a> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b/a * 100 difference; *: P ≤ 0.05 **: P ≤				

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Crlj[Crj:BDF1]

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX

ANIMAL

: FEMALE

PAGE: 23

		Group Name Contr No. of Animals on Study 50	ol ;	5 ppm	15 ppm 50	45 ppm 50
Organ	Findings	Grade 1 2 3 (%) (%) (%)	4 1 2	3 4 %) (%) 1 (%)	2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Urinary sy	rstem)					
cidney	deposit of amyloid	\(\langle 50 \rangle \) \[1 0 0 \\ (2) (0) (0) \]	(0) (0) (0) (0	0 0 0 0	<50> 0 1 0 0) (2) (0)	<50> 0 1 1 0 (0) (2) (2) (0)
	lymphocytic infiltration	7 1 0 (14) (2) (0)	0 2 0 (0) (4) (0) (0 0 4 0) (8) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 (4) (0) (0) (0)
	inflammatory polyp	0 1 0 (0) (2) (0)	0 0 1 (0) (2) (0 0 0 0 0	2 0 0 4) (0) (0)	0 1 0 0 (0) (2) (0) (0)
	hydronephrosis	0 0 1 (0) (2)	0 0 0 (0) (0)	1 1 0 2) (2) (0) (0 2 0 0) (4) (0)	0 1 0 1 (0) (2)
	retention cyst	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 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)
	mineralization:papilla	2 0 0 (4) (0) (0)	0 0 0 0	0 0 2 0 4 (4) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 (2) (0) (0)
	mineralization:tubule	0 0 0 0 (0) (0)	0 1 0 (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 0 (0) (0)
	dilated pelvis	1 0 0 (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 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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

: MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

ANIMAL

SEX

: FEMALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 50 50 50 Organ_ Findings (%) (%) (%) (%) (%) (%) {Urinary system} kidney <50> eosinophilic droplet:proximal tubule 8 11 (0)(4)(6)(0) (0)(2)(16)(0) (2) (4) (22) (2) (4)(2)(12)(0) urin bladd <50> <50> <50> <50> inflammation 0 0 (0)(0)(2)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) lymphocytic infiltration 0 0 0 (6)(0)(0)(0) (6)(0)(0)(0) (2)(0)(0)(0) (6)(0)(0)(0) {Endocrine system} pituitary <50> <50> <50> <50> angiectasis 0 0 0 (12) (2) (0) (0) (22) (0) (0) (0) (10) (0) (0) (0) (2)(0)(0)(0) cyst 0 0 0 0 0 3 (10) (2) (0) (0) (6)(0)(0)(0) (4)(0)(0)(0) (6)(0)(0)(0) hyperplasia 1 2 (2)(2)(0)(0) (6)(2)(0)(0) (2)(4)(0)(0) (6)(0)(0)(0) Grade 1 : Slight 2 : Moderate 4 : Severe

3 : Marked

< 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)

b

BAIS4

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
rgan	Findings	Grade <u>1</u> (%)	2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
Endocrine s	ystem)					
oituitary	focal hypertrophy	9 (18)	<50> 2 0 0 (4) (0) (0)	<50> 6 1 0 0 (12) (2) (0) (0)	<50> 11 1 0 0 (22) (2) (0) (0)	2 1 0 0 (4) (2) (0) (0)
drenal	extramedullary hematopoiesis	0 (0)	<50> 0 0 0 (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)
	spindle-cell hyperplasia	9 (18)	33 8 0 (66) (16) (0)	3 44 2 0 * (6) (88) (4) (0)	2 43 5 0 * (4) (86) (10) (0)	8 35 7 0 (16) (70) (14) (0)
	focal fatty change:cortex	0 (0)	0 0 0 (0) (0)	0. 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0) (0)
	fatty change:corticomedullary junct		0 1 0 (0) (2) (0)	0 1 1 0 (0) (2) (2) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)
	focal hypertrophy:cortex	0 (0)	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
Reproductive	e system)					
vary	thrombus	0 (0)	<50> 0 0 0 (0) (0) (0)	(50) 0 0 1 0 (0) (0) (2) (0)	<50> 0 1 2 0 (0) (2) (4) (0)	<50> 0 1 2 0 (0) (2) (4) (0)

< a >

b

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

c:b/a*100

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

(HPT150)

BAIS4

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL

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

REPORT TYPE : A1 SEX

: FEMALE PAGE: 26

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 50 1 2 3 4 (%) (%) (%) (%)	15 ppm 50 1 2 3 4 (%) (%) (%) (%)	45 ppm 50 1 2 3 4 (%) (%) (%)
{Reproducti	ive system}				
ovary	cyst	<50> 4 5 2 0 (8) (10) (4) (0)	<50> 7 5 1 0 (14) (10) (2) (0)	<50> 0 2 5 0 (0) (4) (10) (0)	<50> 0 5 5 0 (0) (10) (10) (0)
uterus	decidual change	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 1 0 (0) (0) (2) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	leucocytic 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 0 (0) (0)
	cystic endometrial hyperplasia	15 7 1 0 (30) (14) (2) (0)	17 8 0 0 (34) (16) (0) (0)	16 11 0 0 (32) (22) (0) (0)	12 10 0 0 (24) (20) (0) (0)
{Nervous sy	vstem}				
brain	mineralization	\$50> 9 0 0 0 (18) (0) (0) (0)	(50> 17 0 0 0 (34) (0) (0) (0)	<50> 8 0 0 0 (16) (0) (0) (0)	7 0 0 0 (14) (0) (0) (0)
{Special se	ense organs/appendage}				
eye	keratitis	<50> 0 0 0 0 (0) (0) (0)·(0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	\(\langle 50 \rangle \) 1
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 c difference; *: P ≤ 0.05 **: P ≤				

STUDY NO. : 0438 ANIMAL : MOUSE

: 0438

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1
SEX : FEM.

: FEMALE PAGE : 27

		Group Name Control No. of Animals on Study 50	5 ppm	15 ppm	45 ppm
Organ		Grade 1 2 3 4 (%) (%) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)	50 1 2 3 4 (%) (%) (%) (%)
{Special sen	use organs/appendage}		-		
э уө	phthisis bulbi	(50) 0 0 1 0 (0)(0)(2)(0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	mineralization:cornea	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
darder gl	lymphocytic infiltration	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0
	hyperplasia	0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
Musculoskel	etal system}				
nuscle	mineralization	(50) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
oone	osteosclerosis	<50> 4 0 0 0 (8) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 4 0 0 0 (8) (0) (0) (0)
Grade <a> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤				

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

: MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

ANIMAL

: FEMALE

SEX PAGE: 28 Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 50 50 50 Grade Organ____ Findings_ (%) (%) (%) (%) (%) (%) (%) (Body cavities) peritoneum <50> <50> inflammation 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) peritonitis 0 1 0 0 (0)(0)(0)(0) (0)(0)(2)(0) (0)(0)(0)(0) (0)(2)(0)(0) 1 : Slight 2 : Moderate Grade 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 (HPT150)

BAIS4

APPENDIX L 5

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : FEMALE

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0438 HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE : A1 SEX : FEMALE DEAD AND MORIBUND ANIMALS (0-105W)

		ip Name		Contro	01		4.4	5 р	pm		15 ppm			om	45 ppm			
Organ	No. Gra Findings	of Animals on Study de(%)	17 2 (%)	3 (%)	(%)	<u>1</u> (%)	2 (%)	3 (%)	(%)	_ <u>1</u> (%)	23 (%)	3 (%)	(%)	<u>1</u> (%)	(%)	28 3 (%)	(%)
{Integumentar	ry system/appandage)																	
subcutis	epidermal cyst	0 (0)	<17 0 (0) (0	0	0 (0)	0 (0)	0	0 (0)	0 (0		<23 0 0) (0 (0)	0 (0)	0 (0)	1	(28> 0 (0)	0 (0)
{Respiratory	system)																	
nasal cavit	exudate	1 (6)	<17 0 (0)	0	0 (0)	0 (0)	<1 0 (0)	0	0 (0)	1 (4		<23 0 0)	3> 0 (0)	0 (0)	8 (29)	0	(28> 0 (0)	0 (0)
	angiectasis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(9	:)) (0	0 (0)	0 (0)	5 (18)	0 (0)	0 (0)	0 (0)
	thrombus	1 (6)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	(())) (0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium	5 (29)	1 (6)	0 (0)	0 (0)	7 (37)	0 (0)	0 (0)	0 (0)	(9))) (0	0 (0)	0 (0)	10 (36)	(0)	0 (0)	0 (0)
	eosinophilic change:respiratory epitheliu		2 (12)	0 (0)	0 (0)	13 (68)	3 (16)	0 (0)	0 (0)	10 (43		0	0 (0)	0 * (0)	7 (25)	0 (0)	0 (0)	0 *=) (0)
	respiratory metaplasia:olfactory epitheli		0 (0)	0 (0)	0 (0)	4 (21)	0 (0)	0 (0)	0 (0)	18 (78		1 4)	0 (0)	0 ** (0)	2 (7)	26 (93)	0 (0)	0 *=) (0)
Grade < a > b (c)	1: Slight 2: Moderate 3: Market 3: Market 2: Moderate 3: Market 3: Market 3: Market 3: Market 3: Market 3: Market 3: Moderate 3: Market 3: Moderate 3: Moderate 3: Market 3: Moderate 3: M	arked 4: Severe	3															

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL

REPORT TYPE : A1 SEX : FEMALE HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY) DEAD AND MORIBUND ANIMALS (0-105W)

SEX :	FEMALE						PAGE: 12
	No	oup Name . of Animals on Study	17	ntrol	5 ppm 19	15 ppm 23	4 5 ppm 28
Organ	Findings	ade <u>1</u> (%)		3 4 %) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Respiratory	system)						
nasal cavit	respiratory metaplasia:gland	. (6)	<17> 0 (0) (0 0	<19> 0 0 0 0 (0) (0) (0) (0)	<23> 15 1 0 0 *** (65) (4) (0) (0)	<28> 2 26 0 0 ** (7) (93) (0) (0)
	cuboidal change:respiratory epithelium	0 (0)	0 (0) (0 0 0) (0)	3 0 0 0 (16) (0) (0) (0)	22 0 0 0 ** (96) (0) (0) (0)	28 0 0 0 *** (100) (0) (0) (0)
	nodular hyperplasia:transitional epithel		0 (0) (0 0 0 0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	6 0 0 0 0 (21) (0) (0)
	atrophy:olfactory epithelium	1 (6)	0 (0) (0 0 0) (0)	1 0 0 0 (5) (0) (0) (0)	2 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)
nasopharynx	eosinophilic change	8 (47)	<17> 1 (6) (0 0 0 0) (0)	3 1 0 0 (16) (5) (0) (0)	23> 2 · 0 0 0 ** (9) (0) (0) (0)	<28> 14 1 0 0 (50) (4) (0) (0)
lung	congestion	0 (0)	<17> 0 (0) (0 0 0) (0)	(19) 0 0 0 0 (0) (0) (0) (0)	23> 1 0 0 0 (4) (0) (0) (0)	<28> 0 0 0 0 0 0 0 0 0
	lymphocytic infiltration	0 (0)	0 (0) (0 0 0 0) (0)	1 0 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

< a >

a: Number of animals examined at the site

4 : Severe

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE : A1 SEX

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : FEMALE

	No. of Animals on Study		17			1	5 pp	ип		23	15 pp	ш			28	5 ppm	
dings		1 2 (%)	3_	(%)	<u>1</u> (%)	2 (%)	3 (%)	<u>4</u> (%)	<u>1</u> (%)	2 (%)	3 (%)	(%)	<u>1</u> (%)	2 (%	2 2		<u>4</u> (%)
o)																	
onchiolar-alveolar cell hyperplasia	(0 0	0		0 (0)	0	0	0 (0)	1 (4) (0	0	0 (0)					0 0)
cem}																	
anulation	(1 0	0		0 (0)	0	0	0 (0)	(0) (0	0	0 (0)					0 0)
creased hematopoiesis	(1 0 6) (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4) (0 ()	0 (0)	0 (0)	2 (7	() (0 0) (0 0)
elofibrosis	(1 (5)	0 (0)	0 (0)	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)					0 0)
ythropoiesis:increased	(2 (11)	0 (0)	0 (0)	0 (0)	5 (22) (0 (0)	0 (0)	0 (0)	2 (7	(0
anulopoiesis:increased	(0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)					0
rophy	(0 0	0		1 (5)	0	0	0 (0)	0 (0)	0	0	0 (0)					0
_ n	n)	onchiolar—alveolar cell hyperplasia (tem) anulation (creased hematopoiesis (depth of the properties of the propertie	monchiolar—alveolar cell hyperplasia	Conchiolar	Conchiclar = alveolar cell hyperplasia	and some control of the properties and the properti	Conchiclar = alveolar cell hyperplasia	The conchicular—alveolar cell hyperplasia Conchicular—alveolar cell hyperplasia Conchicular—alveolar cell hyperplasia Conchicular—alveolar cell hyperplasia Concomicular—alveolar cell hyperplasia Concomicular cell hyperplasia Concomicular cell hyperplasia Concomicular	The conchiolar alveolar cell hyperplasia	conchiclar—alveolar cell hyperplasia 0	Temple (a) (17) (19) (22) (23) (24) (25) (26) (26) (27) (27) (27) (27) (27) (27) (27) (27	Temple (a) (17) (19) (23) (23) (17) (19) (23) (23) (17) (18) (18) (18) (18) (18) (18) (18) (18	Treased hematopoiesis	Controller Controller Colling Colling	The probability of the probabili	Thropolesis: increased (17) (19) (23) (28) (28) (28) (28) (28) (28) (28) (28	Combinition

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE: A1 SEX

STUDY NO.

: FEMALE

: 0438

Group Name Control 5 ppm 15 ppm 45 ppm 19 23 28 No. of Animals on Study 17 (%) (%) Findings_ (%) (%) (%) (%) Organ____ {Hematopoietic system} <17> <19> spleen 0 0 0 0 atrophy (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) 3 9 0 extramedullary hematopoiesis 3 3 0 4 8 0 0 2 15 0 * (12) (18) (18) (0) (5) (21) (42) (0) (0)(9)(65)(0) (14) (11) (32) (0) granulopoiesis:increased (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(4)(0)(0) {Circulatory system} <17> <19> heart 0 0 0 0 0 0 mineralization 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (7)(0)(0)(0) (0)(0)(0)(0) 0 arteritis 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(4)(0)(0) (0)(0)(0)(0) {Digestive system} tooth <17> 2 0 2 0 0 1 0 0 dysplasia (18) (12) (0) (0) (0)(11)(0)(0) (0)(4)(0)(0) (4)(7)(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; *: $P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 : FEMALE

45 ppm Group Name Control 5 ppm 15 ppm 17 19 23 28 No. of Animals on Study 3 Grade (%) (%) (%) (%) (%) (%) (%) (%) Findings_ Organ___ {Digestive system} <18> tongue <17> 0 0 0 arteritis (0)(0)(0)(0) (0)(0)(0)(0) (0)(7)(0)(0) (0)(0)(0)(0) <17> <19> <23> <28> salivary gl 0 0 lymphocytic infiltration (11) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) <23> <28> <17> <19> stomach 0 0 0 0 1 0 0 0 inflammatory infiltration (0)(0)(0)(0) (0)(5)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) 0 * hyperplasia:glandular stomach (53) (18) (0) (0) (37) (16) (0) (0) (48) (4) (0) (0) (46) (0) (0) (0) <17> <19> <23> small intes 0 inflammation 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 inflammatory infiltration 0 0 0 0 0 0 (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) large intes <17> <19> 0 0 0 0 inflammation 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0)

(HPT150)

Grade

^{1 :} Slight

^{2 :} Moderate

^{3 :} Marked

^{4 :} Severe

< a >

a: Number of animals examined at the site

b: Number of animals with lesion b

c : b / a * 100

Significant difference; $*: P \le 0.05$ $**: P \le 0.01$ Test of Chi Square

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1 SEX : FEMALE

		Group Name No. of Animals on Study	Control 17	5 ppm 19	15 ppm 23	45 ppm 28
Organ	Findings	Grade <u>1</u> (%)	2 3 4 (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Digestive :	system)					
liver	fatty change:central	(0) (<17> 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<23> 1 0 0 0 (4) (0) (0) (0)	<28> 0 0 0 0 0 0 0 0 0
	granulation	0 (0) (0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (9) (0) (0) (0)	1 0 0 0 (4) (0) (0) (0)
pancreas	inflammation	(0) (<17> 0 0 0 0 0 0 0) (0) (0)	0 1 0 0 (0) (5) (0) (0)	<23> 0 0 0 0 0 0 0 0 0	<28> 0 0 0 0 0 0 0 0 0 0 0 0
{Urinary sy	stem)					
Kidney	basophilic change	1 (6)	<17> 0 0 0 0 0 0 0) (0) (0)	(19) 0 0 0 0 (0) (0) (0) (0)	<23> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	deposit of amyloid	1 (6) (0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 1 0 (0) (4) (0)	0 0 1 0 (0) (4) (0)
	lymphocytic infiltration	0 (0) (1 0 0 (6) (6) (7)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade (a) b (c)	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤					

SEX

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

ANIMAL REPORT TYPE : A1

: FEMALE

PAGE: 17

Organ	Findings	Group Name No. of Animals on Study Grade	Cont 17 2 3 (%) (%)	4	5 ppm 19 1 2 3 4 (%) (%) (%) (%)	15 ppm 23 1 2 3 4 (%) (%) (%) (%)	45 ppm 28 1 2 3 4 (%) (%) (%) (%)
{Urinary syst	cem)						
kidney	inflammatory polyp	0 (0)	<17> 1 0 (6) (0)	0 (0)	<19> 0 1 0 0 (0) (5) (0) (0)	<23> 0 1 0 0 (0) (4) (0) (0)	<28> 0 0 0 0 0 0 0 0 0 0 0
	hydronephrosis	0 (0)	0 1 (0) (6)		0 0 1 1 (0) (0) (5) (5)	0 0 1 0 (0) (4) (0)	0 0 0 1 (0) (0) (4)
	mineralization:papilla	1 (6)	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)
	mineralization:tubule	0 (0)	0 0	0 (0)	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	dilated pelvis	1 (6)	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)
	eosinophilic droplet:proximal tubule		1 3 (6) (18)		0 1 7 0 (0) (5) (37) (0)	1 2 10 1 (4) (9) (43) (4)	0 1 6 0 (0) (4) (21) (0)
urin bladd	lymphocytic infiltration	1 (6)	<17> 0 0 (0) (0)		1 0 0 0 (5) (0) (0) (0)	<23> 0 0 0 0 0 0 0 0 0 0 0 0 0	<28> 1 0 0 0 (4) (0) (0) (0)
{Endocrine sy	ystem}						
pituitary	angiectasis	1 (6)	<17> 1 0 (6) (0)		2 0 0 0 (11) (0) (0) (0)	<23> 1 0 0 0 (4) (0) (0) (0)	<28> 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 b

⁽c) c:b/a*100

Significant difference; $*: P \le 0.05$ $**: P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

REPORT TYPE : A1 SEX : FEMALE

STUDY NO. : 0438

DEAD AND MORIBUND ANIMALS (0-105W)

PAGE: 18

						TAGE .
Organ	Findings	Group Name No. of Animals on Study Grade	Control 17 2 3 4 (%) (%) (%)	5 ppm 19 1 2 3 4 (%) (%) (%) (%)	15 ppm 23 1 2 3 4 (%) (%) (%) (%)	45 ppm 28 1 2 3 4 (%) (%) (%) (%)
Endocrine sy	rstem)					
oituitary	cyst	0 (0) (<17> 0 0 0 0) (0) (0)	<pre></pre>	<pre></pre>	3 0 0 0 (11) (0) (0) (0)
	hyperplasia	0 (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 (5) (0) (0) (0)	0 1 0 0 (0) (4) (0) (0)	0 0 0 0 0 (0) (0)
	focal hypertrophy	0 (0) (1 0 0 6) (0) (0)	1 0 0 0 0 (5) (0) (0) (0)	2 0 0 0 (9) (0) (0) (0)	2 0 0 0 0 (7) (0) (0) (0)
drenal	extramedullary hematopoiesis	0 (0) (<17> 0 0 0 0) (0) (0)	<19> 0 0 0 0 0 0 0 0 0 0 0	<23> 0 0 0 0 0 0 0 0 0 0 0	<28> 0 1 0 0 (0) (4) (0) (0)
	spindle-cell hyperplasia		11 0 0 65) (0) (0)	1 18 0 0 (5) (95) (0) (0)	2 20 1 0 (9) (87) (4) (0)	7 20 1 0 (25) (71) (4) (0)
	focal fatty change:cortex	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)	0 0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (4) (0) (0)
	fatty change:corticomedullary junct	ion 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 0 0 0 0 (0) (0)	0 1 0 0 (0) (4) (0) (0)
{Reproductive	ə system)					
vary	thrombus	(0) (<17> 0 0 0 0 0 0 0) (0) (0)	(19) 0 0 1 0 (0) (0) (5) (0)	<23> 0 1 0 0 (0) (4) (0) (0)	<pre></pre>

< 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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX

: FEMALE

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

		Group Name No. of Animals on Study 17 Grade 1 2	Control	5 ppm 19 1 2 3 4	15 ppm 23 1 2 3 4	45 ppm 28 1 2 3 4
)rgan	Findings	(%) (%)	(%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Reproduct	ive system)					
ovary	cyst	0 1 (0) (6)	0 0	0 3 0 0 (0) (16) (0) (0)	<23> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
ıterus	decidual change	0 0 (0) (0)	0 0	<19> 0 0 0 0 0 0 0 0 0 0 0 0	<23> 0 0 1 0 (0) (0) (4) (0)	<28> 0 0 0 0 0 (0) (0) (0) (0)
	cystic endometrial hyperplasia	2 1 (12) (6)	1 0 (6) (0)	5 0 0 0 (26) (0) (0) (0)	5 1 0 0 (22) (4) (0) (0)	4 1 0 0 (14) (4) (0) (0)
(Nervous s	ystem)					
rain	mineralization	1 0 (6) (0)	0 0	6 0 0 0 (32) (0) (0) (0)	23> 2 0 0 0 (9) (0) (0) (0)	4 0 0 0 (14) (0) (0) (0)
(Special s	ense organs/appendage)					
э уө	keratitis	0 0 (0) (0)	0 0	0 0 0 0 (0) (0) (0) (0)	<23> 0 0 0 0 0 0 0 0 0 0 0	28> 1 0 0 0 (4) (0) (0) (0)
Grade (a > b (c) Significan	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **:	3 : Marked 4 : Severe he site P ≤ 0.01 Test of Chi Square				

: MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL REPORT TYPE : A1

SEX : FEMALE PAGE: 20

Organ	Findings	Group Name Control No. of Animals on Study 17 Grade 1 2 3 4 (%) (%) (%) (%)	5 ppm 19 1 2 3 4 (%) (%) (%) (%)	15 ppm 23 1 2 3 4 (%) (%) (%) (%)	45 ppm 28 1 2 3 4 (%) (%) (%) (%)
(Special sens	se organs/appendage)				
еуе	phthisis bulbi	<17> 0 0 1 0 0 0 (0) (6) (0)	<19> 0 0 0 0 0 0 0 0 0 0 0	<23> 0 0 0 0 0 0 0 0 0 0 0	<28> 0 0 0 0 0 0 (0) (0) (0)
	mineralization:cornea	0 0 0 0 0 (0) (0)	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Harder gl	lymphocytic infiltration	<17> 0 0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (5) (0) (0) (0)	<23> 0 0 0 0 (0) (0) (0) (0)	<28> 0 0 0 0 0 0 0 0 0 0 0
{Musculoskele	etal system)				
muscle	mineralization	<17> 0 0 0 0 (0) (0) (0) (0)	<19> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23> 1 0 0 0 (4) (0) (0) (0)	<28> 0 0 0 0 0 0 0 0 0 0 0 0
bone	osteosclerosis	<17> 0 0 0 0 0 0 0 0 0	0 0 0 0 (0) (0) (0) (0)	<23> 0 0 0 0 (0) (0) (0) (0)	28> 2 0 0 0 (7) (0) (0) (0)
{Body cavitie	99)				
peritoneum	inflammation	<17> 0 0 0 0 (0) (0) (0) (0)	<19> 0 0 0 0 0 0 0 0 0 0 0	<23> 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>
Grade <a>> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	Control 17 2 3 4 0 (%) (%) (%)	5 ppm 19 1 2 3 4 (%) (%) (%) (%)	15 ppm 23 1 2 3 4 (%) (%) (%) (%)	45 ppm 28 1 2 3 4 (%) (%) (%) (%)
{Body cavitie	es}					
peritoneum	peritonitis	0 (0)		<19> 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	<28> 0 1 0 0 (0) (4) (0) (0)
Grade <a> > b (c) Significant of	1: Slight 2: Moderate a: Number of animals examined at th b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:					
(HPT150)						BAIS4

APPENDIX L 6

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS : FEMALE

SACRIFICED ANIMALS

ANIMAL

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX

: FEMALE

		oup Name Control of Animals on Study 33	5 ppm 31	15 ppm 27	45 ppm 22
)rgan		ade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
(Integumentar	y system/appandage}				
skin/app	inflammation	\(\frac{33}{1} \) \(1 \) \(0 \) \(0 \) \(0 \) \(0 \) \(0 \)	0 0 0 0 (0) (0) (0) (0)	<27> 0 0 0 0 0 0 0 0 0 0 0	<22> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
{Respiratory	system}				
nasal cavit	exudate	1 0 0 0 (3) (0) (0) (0)	(31) 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>
	angiectasis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (7) (0) (0) (0)	5 0 0 0 * (23) (0) (0) (0)
	eosinophilic change:olfactory epithelium	6 1 0 0 (18) (3) (0) (0)	7 0 0 0 (23) (0) (0) (0)	3 0 0 0 0 (11) (0) (0) (0)	7 0 0 0 (32) (0) (0) (0)
	eosinophilic change:respiratory epitheli	28 4 0 0 (85) (12) (0) (0)	20 6 0 0 (65) (19) (0) (0)	14 0 0 0 ** (52) (0) (0) (0)	6 I 0 0 *** (27) (5) (0) (0)
	inflammation:respiratory epithelium	1 0 0 0 0 (3) (3) (0) (0)	0 0 0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0
	disarrangement:olfactory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0)	1 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
Grade < a > b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0	Marked 4: Severe			

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

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

SEX

: FEMALE

PAGE: 14

		Name Control of Animals on Study 33	5 ppm - 31	15 ppm 27	45 ppm 22	
Organ	Findings	•	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	
{Respiratory	system)					
nasal cavit	respiratory metaplasia:olfactory epithelium	(33) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<pre></pre>	<pre></pre>	
	respiratory metaplasia:gland	9 0 0 0 0 (27) (0) (0) (0)	12 0 0 0 (39) (0) (0) (0)	26 0 0 0 ** (96) (0) (0) (0)	0 22 0 0 **	
	squamous cell metaplasia:respiratory epithe	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	1 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (5) (6) (6)	
	cuboidal change:respiratory epithelium	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	26 0 0 0 ** (96) (0) (0) (0)	22 0 0 0 ***	
	nodular hyperplasia:transitional epithelium	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (4) (0) (0)	10 0 0 0 *** (45) (0) (0) (0)	
	atrophy:olfactory epithelium	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (4) (0) (0)	0 0 0 0 0 (0) (0)	
nasopharynx	eosinophilic change	<33> 5 0 0 0 (15) (0) (0) (0)	31> 3 1 0 0 (10) (3) (0) (0)	27> 1 2 0 0 (4) (7) (0) (0)	222> 2 2 0 0 (9) (9) (0) (0)	
lung	lymphocytic infiltration	<33> 1 0 0 0 (3) (0) (0) (0)	<31> 0 0 0 0 0 0 0 0 0 0 0	<27> 0 0 0 0 0 (0) (0) (0)	<22> 0 0 0 0 0 (0) (0) (0) (0)	

b: Number of animals with lesion c:b/a * 100

ь (с)

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

(HPT150)

BAIS4

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Con 33	ıtrol	5 ppm 31	15 ppm 27	45 ppm 22
Organ	Findings	Grade <u>1</u> (%)	2 3 (%) (%	6) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)
{Respiratory	system}						
lung	bronchiolar—alveolar cell hyperplasia	0 (0)	<33> 0 0 (0) (0		(31> 1 0 0 0 (3) (0) (0) (0)	227> 1 0 0 0 (4) (0) (0) (0)	<22> 0 0 0 0 0 0 0 0 0 0 0
{Hematopoieti	c system)						
bone marrow	increased hematopoicsis	0 (0)	<33> 0 0 (0) (0	0 0)) (0)	(31) 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 0 0 0 0 0 0 0	<22> 0 0 0 0 0 0 0 0 0) (0) (0) (0)
	myelofibrosis	3 (9)	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)
	granulopoiesis:increased	0 (0)	0 0		0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
lymph node	mastcell hyperplasia	0 (0)	<33> 0 0 (0) (0	0 0) (0)	(31)> 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 0 (0) (0) (0) (0)	<22> 0 0 0 0 0 0 0 0 0 0 0 0
spleen	deposit of melanin	1 (3)	<33> 0 0 (0) (0	0 (0)	31> 1 0 0 0 (3) (0) (0) (0)	<27> 1 0 0 0 (4) (0) (0) (0)	<22> 0 0 0 0 (0) (0) (0) (0)
< a > b	a : Number of animals examined at the s b : Number of animals with lesion c : b / a * 100						

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : FEMALE

		Group Name Control No. of Animals on Study 33	5 ppm 31	15 ppm 27	45 ppm 22	
Organ	Findings	Grade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)	
{Hematopoieti	c system)					
spleen	fibrosis	(33) 0 1 0 0 (0) (3) (0) (0)	<pre></pre>	<27> 0 0 0 0 (0) (0) (0) (0)	<22> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	extramedullary hematopoiesis	6 0 0 0 (18) (0) (0) (0)	2 2 1 0 (6) (6) (3) (0)	1 2 1 0 (4) (7) (4) (0)	5 1 1 0 (23) (5) (5) (0)	
	follicular hyperplasia	2 0 0 0 0 (6) (7) (7)	1 0 0 0 0 (3) (0) (0)	0 1 0 0 (0) (0)	0 1 0 0 (0) (5) (0) (0)	
{Digestive sy	stem)					
tooth	dysplasia	33> 9 4 0 0 (27) (12) (0) (0)	31> 9 3 0 0 (29) (10) (0) (0)	<27> 1 3 0 0 * (4) (11) (0) (0)	<22> 7 4 0 0 (32) (18) (0) (0)	
tongue	arteritis	<33> 1 0 0 0 (3) (0) (0) (0)	<31> 0 0 0 0 (0) (0) (0) (0)	<27> 1 0 0 0 (4) (0) (0) (0)	<22> 0 0 0 0 0 0 0 0 0 0	
salivary gl	lymphocytic infiltration	<33> 5 0 0 0 (15) (0) (0) (0)	31> 2 0 0 0 (6) (0) (0) (0)	<27> 1 0 0 0 (4) (0) (0) (0)	<22> 2 0 0 0 (9) (0) (0) (0)	

SEX

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

: FEMALE

PAGE: 17

		Group Name Control No. of Animals on Study 33		5 ppm 31	15 ppm 27	45 ppm 22
Organ	Findings	Grade 1 2	3 4 %) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Digestive :	system}					
stomach	erosion:forestomach	33> 1 0 (3) (0) (0 0 0) (0)	<pre></pre>	(27) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	hyperplasia:forestomach	0 0 (0) (0) (0 0 0) (0)	1 0 0 0 0 (3) (0) (0) (0)	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)	2 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia:glandular stomach	18 9 (55) (27) (0 0 0) (0)	16 13 0 0 (52) (42) (0) (0)	12 12 0 0 (44) (44) (0) (0)	12 4 0 0 (55) (18) (0) (0)
liver	angiectasis	<33> 0 0 (0) (0) (0 0 0) (0)	31> 3 1 0 0 (10) (3) (0) (0)	<27> 2 2 0 0 (7) (7) (0) (0)	<22> 0 0 0 0 0 (0) (0) (0) (0)
	granulation	10 2 (30) (6) (0 0 0 0) (0)	9 3 0 0 (29) (10) (0) (0)	8 8 0 0 * (30) (30) (0) (0)	14 2 0 0 * (64) (9) (0) (0)
	acidophilic cell focus	0 0	0 0 0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 3 0 0 (0) (14) (0) (0)
	basophilic cell focus	0 1 (0) (3) (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

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : FEMALE

		roup Name Control	5 ppm 31	15 ppm 27	45 ppm 22	
Organ		rade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	
{Digestive s	system)					
liver	biliary cyst	33> 1 0 0 0 (3) (0) (0) (0)	31> 1 0 0 0 (3) (0) (0) (0)	<27> 1 1 0 0 (4) (4) (0) (0)	<222> 0 0 0 0 (0) (0) (0) (0)	
{Urinary sys	stem}					
kidney	infarct	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	<27> 0 0 0 0 (0) (0) (0) (0)	<22> 0 0 0 0 (0) (0) (0) (0)	
	basophilic change	1 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (4) (0) (0) (0)	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 1 0 0 (0) (5) (0) (0)	
	lymphocytic infiltration	7 0 0 0 (21) (0) (0) (0)	2 0 0 0 0 (6) (6) (7) (7)	4 0 0 0 (15) (0) (0) (0)	2 0 0 0 0 (9) (9) (0) (0)	
	inflammatory polyp	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 1 0 0 (0) (4) (0) (0)	0 1 0 0 (0) (0)	
	hydronephrosis	0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)	0 0 1 0 (0) (4) (0)	0 1 0 0 (0) (5) (0) (0)	
Grade < a > b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the sit b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤					

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 33 31 27 Grade Organ_ Findings (%) (%) (%) (%) {Urinary system} kidney <33> <31> <27> retention cyst 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (4)(0)(0)(0) (0)(0)(0)(0) mineralization:papilla (3)(0)(0)(0) (0)(0)(0)(0) (7)(0)(0)(0) (5)(0)(0)(0) eosinophilic droplet:proximal tubule 0 1 0 0 1 (0)(3)(0)(0) (0)(0)(3)(0) (0)(0)(4)(0) (9)(0)(0)(0) urin bladd <33> <31> inflammation 0 0 0 0 0 0 0 0 (0)(0)(3)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) lymphocytic infiltration 1 0 (6)(0)(0)(0) (6)(0)(0)(0) (4)(0)(0)(0) (9)(0)(0)(0) {Endocrine system} pituitary <31> angiectasis 0 0 0 0 0 0 (15) (0) (0) (0) (29) (0) (0) (0) (15) (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

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

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 33 27 Grade Findings_ Organ_ (%) (%) (%) (%) {Endocrine system} pituitary <33> <31> cyst 0 0 0 (15) (3) (0) (0) (10) (0) (0) (0) (4)(0)(0)(0) (0)(0)(0)(0) hyperplasia (3)(3)(0)(0) (6)(3)(0)(0) (4)(4)(0)(0) (14) (0) (0) (0) focal hypertrophy 1 0 1 0 0 1 (27) (3) (0) (0) (16) (3) (0) (0) (33) (4) (0) (0) (0)(5)(0)(0) adrenal <33> <31> <27> spindle-cell hyperplasia 22 26 8 0 2 2 0 23 4 0 15 6 (9) (67) (24) (0) (6)(84)(6)(0) (0)(85)(15)(0) (5) (68) (27) (0) fatty change:corticomedullary junction 1 (0)(0)(3)(0) (0)(3)(3)(0) (0)(0)(0)(0) (0)(0)(0)(0) focal hypertrophy:cortex 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (4)(0)(0)(0) (0)(0)(0)(0) {Reproductive system} ovary <33> <31> <27> thrombus 0 0 0 2 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(7)(0) (0)(0)(9)(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; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL REPORT TYPE : A1

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

SEX : FEMALE

Organ	Findings	Group Name No. of Animals on Study Grade 1 2 (%) (%)	Control 33 3 4 (%) (%)	5 ppm 31 1 2 3 4 (%) (%) (%) (%)	15 ppm 27 1 2 3 4 (%) (%) (%) (%)	45 ppm 22 1 2 3 4 (%) (%) (%) (%)
{Reproducti	ive system)					
ovary	cyst	4 4	33> 2 0 (6) (0)	<31> 7 2 1 0 (23) (6) (3) (0)	<27> 0 2 5 0 (0) (7) (19) (0)	<pre></pre>
uterus	decidual change	0 0	33> 0 0 (0) (0)	<31> 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 0 (0) (0) (0)	<22> 0 0 0 0 (0) (0) (0) (0)
	leucocytic infiltration	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)
	cystic endometrial hyperplasia	13 6 (39) (18)	0 0 (0)	12 8 0 0 (39) (26) (0) (0)	11 10 0 0 (41) (37) (0) (0)	8 9 0 0 (36) (41) (0) (0)
{Nervous sy	ystem}					
brain	mineralization	8 0	33> 0 0 (0) (0)	31> 11 0 0 0 (35) (0) (0) (0)	<27> 6 0 0 0 (22) (0) (0) (0)	3 0 0 0 (14) (0) (0) (0)
{Special se	ense organs/appendage}					
eye	mineralization:cornea	0 0	33> 0 0 (0) (0)	<pre></pre>	27> 1 0 0 0 (4) (0) (0) (0)	<22> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **: P	3: Marked 4: Severe site ≤ 0.01 Test of Chi Square				

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name Control	5 ppm 31 1 2 3 4 (%) (%) (%) (%)	15 ppm 27 1 2 3 4 (%) (%) (%) (%)	45 ppm 22 1 2 3 4 (%) (%) (%) (%)
{Special sem	nse organs/appendage)				
Harder gl	lymphocytic infiltration	<333> 1 0 0 0 (3) (0) (0) (0)	(31) 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
·	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	0 0 0 0 0 (0) (0)	1 0 0 0 0 (5) (0) (0) (0)
{Musculoske]	letal system)				
bone	osteosclerosis	<33> 4 0 0 0 (12) (0) (0) (0)	(31) 1 0 0 0 (3) (0) (0) (0)	<27> 0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (9) (0) (0) (0)
Grade <a> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P			,	

APPENDIX M 1

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

STUDY NO. : 0438

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

REPORT TYPE : A1

SEX : MALE

ime-related Weeks	Items	Group Name	Control	5 ppm	15 ppm	45 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		2	I	0	0	
	NO. OF ANIMALS WITH TUMORS		1	0	0	0	
	NO. OF ANIMALS WITH SINGLE TUMORS		1	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		1	0	0	0	
	NO. OF TOTAL TUMORS		1	0	0	0	
53 - 78	NO. OF EXAMINED ANIMALS		0	1	2	3	
	NO. OF ANIMALS WITH TUMORS		0	1	2	3	
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	2	3	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0	
	NO. OF BENIGN TUMORS		0	0	0	1	
	NO. OF MALIGNANT TUMORS		0	1	2	2	
	NO. OF TOTAL TUMORS		0	1	2	3	
79 - 104	NO. OF EXAMINED ANIMALS		13	12	16	10	
	NO. OF ANIMALS WITH TUMORS		13	12	15	10	
	NO. OF ANIMALS WITH SINGLE TUMORS		7	7	7	9	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	5	8	1	
	NO. OF BENIGN TUMORS		10	3	18	1	
	NO. OF MALIGNANT TUMORS		12	16	12	10	
	NO. OF TOTAL TUMORS		22	19	30	11	
105 - 105	NO. OF EXAMINED ANIMALS		35	35	32	36	
	NO. OF ANIMALS WITH TUMORS		24	26	25	19	
	NO. OF ANIMALS WITH SINGLE TUMORS		13	8	10	12	
	NO. OF ANIMALS WITH MULTIPLE TUMORS	•	11	18	15	7	
	NO. OF BENIGN TUMORS		22	27	30	16	
	NO. OF MALIGNANT TUMORS		18	28	20	12	
	NO. OF TOTAL TUMORS		40	55	50	28	

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX : MALE

Time-relatedWeeks	Items	Group Name	Control	5 ppm	15 ppm	45 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	49	50	49	
	NO. OF ANIMALS WITH TUMORS		38	39	42	32	
	NO. OF ANIMALS WITH SINGLE TUMORS		21	16	19	24	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		17	23	23	8	
	NO. OF BENIGN TUMORS		32	30	48	18	
	NO. OF MALIGNANT TUMORS		31	45	34	24	
	NO. OF TOTAL TUMORS		63	75	82	42	

(HPT070)

BAIS4

APPENDIX M 2

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

STUDY NO. : 0438

ANIMAL : MO

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE : A1 SEX : FEMALE

'ime-related Weeks	Items	Group Name	Control	5 ppm	15 ppm	45 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		2	0	1	2	
	NO. OF ANIMALS WITH TUMORS		2	0	1	0	
	NO. OF ANIMALS WITH SINGLE TUMORS		2	0	1	0	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	Ö	0	0	
	NO. OF BENIGN TUMORS		0	0	0	0	
	NO. OF MALIGNANT TUMORS		2	0	1	0	
	NO. OF TOTAL TUMORS		2	0	1	0	
53 - 78	NO. OF EXAMINED ANIMALS		4	0	9	8	
	NO. OF ANIMALS WITH TUMORS		4	0	9	5	
	NO. OF ANIMALS WITH SINGLE TUMORS		3	0	8	4	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	1	1	
	NO. OF BENIGN TUMORS		1	0	1	1	
	NO. OF MALIGNANT TUMORS		4	0	9	5	
	NO. OF TOTAL TUMORS		5	0	10	6	
79 - 104	NO. OF EXAMINED ANIMALS		11	19	13	18	
	NO. OF ANIMALS WITH TUMORS		11	18	13	17	
	NO. OF ANIMALS WITH SINGLE TUMORS		4	12	9	9	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	6	4	8	
	NO. OF BENIGN TUMORS		4	11	4	9	
	NO. OF MALIGNANT TUMORS		16	16	13	19	
	NO. OF TOTAL TUMORS		20	27	17	28	
105 - 105	NO. OF EXAMINED ANIMALS		33	31	27	22	
	NO. OF ANIMALS WITH TUMORS		27	23	22	18	
	NO. OF ANIMALS WITH SINGLE TUMORS		8	13	11	9	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		19	10	11	9	
	NO. OF BENIGN TUMORS		30	16	15	9	
	NO. OF MALIGNANT TUMORS		22	23	21	19	
	NO. OF TOTAL TUMORS		52	39	36	28	

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

PAGE: 4

REPORT TYPE : A1

SEX : FEMALE

Time-relatedWeeks	Items	Group Name	Control	5 ppm	15 ppm	45 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50	
	NO. OF ANIMALS WITH TUMORS		44	41	45	40	
	NO. OF ANIMALS WITH SINGLE TUMORS		17	25	29	22	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		27	16	16	18	
	NO. OF BENIGN TUMORS		35	27	20	19	
	NO. OF MALIGNANT TUMORS		44	39	44	43	
	NO. OF TOTAL TUMORS		79	66	64	62	

(HPT070) BAIS4

APPENDIX N 1

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS : MALE

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name No. of animals on Study		Control 50		5 ppm 49		15 ppm 50		45 ppm 49
{Integumentary	/ system/appandage)									
skin/app	trichoepithelioma			<50> (0%)	0	<49> (0%)	0	<50> (0%)	1	<49> (2%)
	mastcytoma:malignant		0	(0%)	0	(0%)	1	(2%)	0	(0%)
subcutis	schwannoma:malignant			<50> (0%)	0	<49> (0%)	I	<50> (2%)	0	<49> (0%)
	histiocytic sarcoma		1	(2%)	1	(2%)	C	(0%)	0	(0%)
	hemangiosarcoma		0	(0%)	0	(0%)	C	(0%)	1	(2%)
{Respiratory s	system}									
nasal cavit	schwannoma			<50> (0%)	0	<49> (0%)	C	<50> (0%)	1	<49> (2%)
	hemangioma		0	(0%)	2	(4%)	14	(28%)	8	(16%)
	squamous cell carcinoma		0	(0%)	c	(0%)	C	(0%)	2	(4%)
	histiocytic sarcoma		0	(0%)	2	(4%)	C	(0%)	0	(0%)
lung	bronchiolar—alveolar adenoma			<50> (14%)	6	<49> (12%)	3	<50> (6%)	1	<49> (2%)
	bronchiolar-alveolar carcinoma		6	(12%)	8	(16%)	5	(10%)	2	(4%)
{Hematopoietic	c system)									
bone marrow	hemangioma			<50> (0%)	O	<49> (0%)	1	<50> (2%)	0	<49> (0%)
<a>>	a: Number of animals examined at the site b: Number of animals with neoplasm c:b/a*	· 100								

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

rgan	Findings	Group Name No. of animals on Study		Control 50	5 ppm 49		15 ppm 50		45 ppm 49
Hematopoietic	system)								
one marrow	mastcytoma:malignant		<5 0 (50> 0%) 0	<49> (0%)	1	<50> (2%)	1	<49> (2%)
mph node	malignant lymphoma	8	<5 8 (50> 16%) 13	<49> (27%)	10	<50> (20%)	4	<49> (8%)
	mastcytoma:malignant		0 (0%) 0	(0%)	1	(2%)	1	(2%)
oleen	hemangioma	:	<5 3 (50> 6%) 2	<49> (4%)	2	<50> (4%)	0	<49> (0%)
	malignant lymphoma	(0 (0%) 1	(2%)	1	(2%)	0	(0%)
	mastcytoma:malignant	(0 (0%) 0	(0%)	0	(0%)	2	(4%)
igestive sys	etem)								
oth	hemangiosarcoma	1	<5 1 (50> 2%) 0	<49> (0%)	0	<50> (0%)	0	<49> (0%)
livary gl	histiocytic sarcoma	1	<5 1 (50> 2%) 1	<49> (2%)	2	<50> (4%)	1	<49> (2%)
omach	carcinoid tumor	(<5 0 (50> 0%) 0	<49> (0%)	1	<50> (2%)	0	<49> (0%)
all intes	histiocytic sarcoma	(<5 0 (50> 0%) 2	<49> (4%)	0	<50> (0%)	0	<49> (0%)
ver	hemangioma	;	<5 5 (50> 10%) 5	<49> (10%)	7	<50> (14%)	1	<49> (2%)
	hepatocellular adenoma	11	1 (22%) 11	(22%)	12	(24%)	1	(2%)

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name No. of animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
{Digestive s	vstem)					
liver	histiocytic sarcoma		<50>	<49>	<50>	<49>
			3 (6%)	2 (4%)	1 (2%)	3 (6%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
	hepatocellular carcinoma		5 (10%)	7 (14%)	9 (18%)	2 (4%)
	hepatoblastoma		2 (4%)	0 (0%)	0 (0%)	0 (0%)
{Urinary sys	tem}					
kidney			<50>	<49>	<50>	<49>
	renal cell carcinoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
urin bladd			<50>	<49>	<48>	<49>
	histiocytic sarcoma		1 (2%)	3 (6%)	0 (0%)	0 (0%)
{Endocrine s	ystem)					
pituitary	-1		<50>	<49>	<50>	<49>
	adenoma		2 (4%)	0 (0%)	0 (0%)	0 (0%)
thyroid	C-cell adenoma		<50> 0 (0%)	<49> 1 (2%)	<50> 1 (2%)	<48>
fo to			0 (0/0)	1 (276)	1 (276)	0 (0%)
{Reproductive	e system;					
epididymis	histiocytic sarcoma		<50> 2 (4%)	<49> 1 (2%)	<50> 0 (0%)	<49> 1 (2%)
	mastcytoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

(HPT085)

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PAGE: 4

rgan	Findings	Group Name No. of animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
Nervous system	a)					
rain	histiocytic sarcoma	0	<50> (0%)	<49> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)
	glioma	0	(0%)	1 (2%)	0 (0%)	0 (0%)
eriph nerv	histiocytic sarcoma	0	<50> (0%)	<49> 0 (0%)	<50> 1 (2%)	<49> 1 (2%)
Special sense	organs/appendage)					
arder gl	adenoma	4	<50> (8%)	<49> 3 (6%)	<50> 7 (14%)	<49> 5 (10%)
Body cavities)						
eritoneum	histiocytic sarcoma	0	<50> (0%)	<49> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)
etroperit	hemangiosarcoma	0	<50> (0%)	<49> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)

BAIS4

APPENDIX N 2

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS : FEMALE

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Group Name Control 5 ppm 15 ppm 45 ppm Findings_ Organ_ No. of animals on Study 50 50 50 50 {Integumentary system/appandage} skin/app <50> <50> <50> <50> squamous cell papilloma 2 (4%) 0 (0%) 0 (0%) 0 (0%) subcutis <50> ⟨50⟩ <50> <50> fibrosarcoma 0 (0%) (0%) 0 (0%) 1 (2%) schwannoma:malignant 0 (0%) 0 (0%) 1 (2%) 0 (0%) histiocytic sarcoma 0 (0%) 0 (0%) 1 (2%) 0 (0%) {Respiratory system} nasal cavit <50> <50> <50> <50> hemangioma 0 (0%) 0 (0%) 2 (4%) 7 (14%) squamous cell carcinoma 0 (0%) (0%) 0 (0%) 1 (2%) histiocytic sarcoma 0 (0%) 0 (0%) 1 (2%) 0 (0%) trachea <50> <49> <50> <50≻ squamous cell papilloma 0 (0%) 0 (0%) 1 (2%) 0 (0%) lung <50> <50> <50> <50> bronchiolar-alveolar adenoma 7 (14%) 1 (2%) 2 (4%) 1 (2%) bronchiolar-alveolar carcinoma 3 (6%) 3 (6%) 3 (6%) 1 (2%) {Hematopoietic system} lymph node <50> <50≻ <50> <50> malignant lymphoma 22 (44%) 19 (38%) 18 (36%) 16 (32%) < a > a : Number of animals examined at the site b (c) b: Number of animals with neoplasm c:b/a*100

⁽HPT085)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Group Name Control 5 ppm 15 ppm 45 ppm Organ_ Findings_ No. of animals on Study 50 50 50 50 {Hematopoietic system} thymus <50> <50> <50> <50> malignant lymphoma 2 (4%) 1 (2%) 1 (2%) 1 (2%) spleen <50> <50> <50> <50> hemangioma 0 (0%) 3 (6%) 0 (0%) 0 (0%) malignant lymphoma 2 (4%) 2 (4%) 1 (2%) 2 (4%) (Digestive system) small intes <50> <50> ⟨50⟩ <50> adenoma 1 (2%) 0 (0%) 0 (0%) 0 (0%) histiocytic sarcoma 0 (0%) 0 (0%) 1 (2%) 0 (0%) liver <50> <50> <50> <50> hemangioma 2 (4%) 6 (12%) 1 (2%) 2 (4%) hepatocellular adenoma 5 (10%) 2 (4%) 4 (8%) 3 (6%) histiocytic sarcoma 1 (2%) 2 (4%) 0 (0%) 2 (4%) hepatocellular carcinoma 1 (2%) 0 (0%) 0 (0%) 0 (0%) pancreas <50> <50> <50> <50> islet cell adenoma 1 (2%) 0 (0%) 0 (0%) 0 (0%) {Endocrine system} pituitary <50> <50> <50> <50> adenoma 8 (16%) 8 (16%) 6 (12%) 3 (6%) < a > a: Number of animals examined at the site b (c) b: Number of animals with neoplasm c:b/a*100

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

ANIMAL

PAGE: 7 Group Name Control 5 ррш 15 ppm 45 nom

he ac uterus he en h: vagina	Findings No. of animals on Study	50	5 ppm 50	15 ppm 50	45 ppm 50
c; he ac uterus he er vagina	stem)				
aduterus he en h: vagina	cystadenoma	<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
uterus he ei h: ei vagina	nemangioma	1 (2%)	0 (0%)	0 (0%)	0 (0%)
h ei h: ea vagina	adenocarcinoma	0 (0%)	1 (2%)	0 (0%)	0 (0%)
h: er vagina	nemangioma	<50> 0 (0%)	<50> 3 (6%)	<50> 0 (0%)	<50> 1 (2%)
er vagina	endometrial stromal polyp	2 (4%)	1 (2%)	1 (2%)	1 (2%)
vagina	nistiocytic sarcoma	6 (12%)	10 (20%)	15 (30%)	15 (30%)
	endometrial stromal sarcoma	2 (4%)	0 (0%)	0 (0%)	0 (0%)
	nistiocytic sarcoma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
nammary gl ao	adenocarcinoma	<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)	<50> 2 (4%)
(Nervous system)					
orain g	glioma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
periph nerv so	schwannoma:malignant	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50≻ 1 (2%)
hi	uistiocytic sarcoma	2 (4%)	0 (0%)	0 (0%)	0 (0%)
	a: Number of animals examined at the site b: Number of animals with neoplasm c: b / a * 100	· · · · · · · · · · · · · · · · · · ·			

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings Group Name No. of animals	Control on Study 50	5 ppm 50	15 ppm 50	45 ppm 50
Special sense	e organs/appendage)				
arder gl	adenoma	<50> 3 (6%)	<50> 3 (6%)	<50> 2 (4%)	<50> 1 (2%)
Musculoskelet	tal system)				
nuscle	fibrosarcoma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
Body cavities	5)				
eritoneum	hemangioma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
etroperit	hemangiosarcoma	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
<a>> (c)	a: Number of animals examined at the site b: Number of animals with neoplasm c: b/a * 100				
IPT085)					

APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE

AND STATISTICAL ANALYSIS: MALE

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : MALE PAGE : 1

Group Name	Control	5 ppm	15 ppm	45 ppm
	SITE : nasal cavity			
	TUMOR : hemangioma			
Tumor rate				
Overall rates(a)	0/50(0.0)	2/49(4.1)	14/50(28. 0)	8/49 (16. 3)
Adjusted rates(b)	0.0	5. 71	31.11	19. 44
Terminal rates(c)	0/35(0.0)	2/35(5.7)	9/32(28.1)	7/36(19.4)
Statistical analysis				
Peto test	D -			
Standard method(d)	P =			
Prevalence method(d)	P = 0.0102*			
Combined analysis(d)	P =			
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0.0162*	D - 0 0404	D (0 00014th	D = 0 000Ctub
risher Exact test(e)		P = 0.2424	P < 0.0001**	P = 0.0026**
	SITE : lung			
	TUMOR : bronchiolar-alveolar a	adenoma		
Tumor rate				
Overall rates(a)	7/50 (14. 0)	6/49(12.2)	3/50(6.0)	1/49(2.0)
Adjusted rates(b)	16. 28	14. 29	9. 38	2.78
Terminal rates(c)	5/35(14.3)	5/35(14.3)	3/32(9.4)	1/36(2.8)
Statistical analysis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2, 22, 22, 2,		-, · · · · · · · · · · · · · · · · ·
Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0.9925			
Combined analysis(d)	P =			
Cochran-Armitage test(e)	P = 0.0241*			
Fisher Exact test(e)		P = 0.5158	P = 0.1589	P = 0.0317*
	SITE : lung			
T	TUMOR : bronchiolar-alveolar	carcinoma		
Tumor rate	C/F0/ 10 0)	0/40/ 10 0)	T (TO (10 0)	0 (10 (, , 4)
Overall rates(a)	6/50(12.0)	8/49(16.3)	5/50 (10. 0)	2/49(4.1)
Adjusted rates(b)	14. 29	12. 20	12.50	5. 56
Terminal rates(c)	5/35(14.3)	3/35(8.6)	4/32(12.5)	2/36(5.6)
Statistical analysis				
Peto test Standard method(d)	D = 0.0000			
	P = 0.8638			
Prevalence method(d)	P = 0.9285			
Combined analysis(d)	P = 0.9656			
Cochran-Armitage test(e)	P = 0.0747	D - 0.9719	P - 0 5000	B = 0.1400
Fisher Exact test(e)		P = 0.3713	P = 0.5000	P = 0.1409

BAIS4

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : MALE

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : lung TUMOR : bronchiolar-alveolar ader				
Tumor rate	10WOV : DIGHTHOUST-SIAGOTSL SUGE	oma, pronchiolar-alveolar carcinoma			
Overall rates(a)	12/50(24.0)	13/49(26.5)	7/50(14,0)	3/49(6.1)	
Adjusted rates(b)	28. 95	24. 39	18. 75	8. 33	
Terminal rates(c)	10/35(28.6)	8/35(22.9)	6/32(18.8)	3/36(8.3)	
Statistical analysis Peto test					
Standard method(d)	P = 0.8638				
Prevalence method(d)	P = 0.9964				
Combined analysis(d)	P = 0.9983				
Cochran-Armitage test(e)	P = 0.0053**				
Fisher Exact test(e)		P = 0.4766	P = 0.1540	P = 0.0125*	
	SITE : lymph node				
_	TUMOR : malignant lymphoma				
Tumor rate Overall rates(a)	8/50 (16. 0)	10/40/ 00 5)	10/50(.00.0)		
Adjusted rates(b)	8/50(16.0) 8.57	13/49 (26.5) 25.71	10/50(20.0) 21.88	4/49(8. 2) 8. 33	
Terminal rates(c)	3/35(8.6)	9/35(25.7)	7/32(21.9)	3/36(8.3)	
Statistical analysis	,,,,,,	0,00 (20.1,	1,02(21.0)	0,00(0.0)	
Peto test					
Standard method(d)	P = 0.9566				
Prevalence method(d) Combined analysis(d)	P = 0.8435				
Cochran-Armitage test(e)	P = 0.9697 P = 0.0678				
Fisher Exact test(e)	1 - 0.0010	P = 0.1502	P = 0.3976	P = 0.1882	
	SITE : spleen				
Times wit-	TUMOR : hemangioma				
Tumor rate Overall rates(a)	3/50(6.0)	2/49(4.1)	2/50(4.0)	0/40/ 0.0\	
Adjusted rates(b)	8. 57	2/49(4.1) 5.71	2/50(4.0) 6.06	0/49(0.0) 0.0	
Terminal rates(c)	3/35(8.6)	2/35(5.7)	1/32(3.1)	0/36(0.0)	
Statistical analysis		• • • •	-,,,	5, 55 (5.5)	
Peto test	_				
Standard method(d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0.9619 P =				
Cochran-Armitage test(e)	$P = \frac{1}{1000}$ P = 0.1059				
Fisher Exact test(e)	1 0.100	P = 0.5097	P = 0.5000	P = 0.1250	

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

SEX : MALE

Group Name	Control	Б ррт	15 ppm	4 5 ppm
	SITE : liver			
	TUMOR : hemangioma			
umor rate	-4-4			
Overall rates(a)	5/50(10.0)	5/49(10.2)	7/50(14.0)	1/49(2.0)
Adjusted rates(b)	9. 09	14. 29	9. 38	2. 78
Terminal rates(c)	3/35(8.6)	5/35(14.3)	3/32(9.4)	1/36(2.8)
tatistical analysis				
Peto test Standard method(d)	D = 0 6790			
Prevalence method(d)	P = 0.6738			
Combined analysis(d)	P = 0.9498 P = 0.9532			
Cochran-Armitage test(e)	P = 0.9932 P = 0.0997			
Fisher Exact test(e)	r - 0.099;	B = 0.6167	D - 0.0700	D 0 4000
Tioner Exact test(e)		P = 0.6167	P = 0.3798	P = 0. 1068
	SITE : liver			
	TUMOR : hepatocellular adenoma			
'umor rate	-			
Overall rates(a)	11/50(22.0)	11/49(22.4)	12/50(24.0)	1/49(2.0)
Adjusted rates(b)	20.00	26. 32	26. 19	2. 78
Terminal rates(c)	6/35(17.1)	9/35(25.7)	8/32(25.0)	1/36(2.8)
tatistical analysis				-, (-, -,
Peto test				
Standard method(d)	P = 0.8648			
Prevalence method(d)	P = 0.9982			
Combined analysis(d)	P = 0.9992			
Cochran-Armitage test(e)	P = 0.0022**			
Fisher Exact test(e)		P = 0.5742	P = 0.5000	P = 0.0021**
	SITE : liver			
	TUMOR : histiocytic sarcoma			
'umor rate	Tomon - mistrocytro sarcoma			
Overall rates(a)	3/50(6.0)	2/49(4.1)	1/50(2.0)	2/40/ 0.47
Adjusted rates(b)	2. 86	2,49(4.1)	1/50(2.0)	3/49(6.1)
Terminal rates(c)	1/35(2.9)	1/35(2.9)	0.0	0.0
Statistical analysis	,	1,00 (2.3)	0/32(0.0)	0/36(0.0)
Peto test				
Standard method(d)	P = 0.1913			
Prevalence method(d)	P = 0.8717			
Combined analysis(d)	P = 0.3874			
Cochran-Armitage test(e)	P = 0.7756			
Fisher Exact test(e)		P = 0.5097	P = 0.3087	P = 0.6515

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : MALE

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : liver				
The same of the sa	TUMOR : hepatocellular carci	noma			
Tumor rate Overall rates(a)	5/50(10.0)	7(40(14 9)	0/50/ 10 0)	2/12/	
Adjusted rates(b)	11. 43	7/49(14.3) 17.14	9/50(18.0) 18.75	2/49(4.1)	
Terminal rates(c)	4/35(11.4)	6/35(17.1)	6/32(18.8)	5. 56 2/36(5. 6)	
Statistical analysis	2, 00 (11. 1)	0,00(11:1)	0/32(10.0)	2/30(5, 0)	
Peto test					
Standard method(d)	P = 0.6804				
Prevalence method(d)	P = 0.9075				
Combined analysis(d)	P = 0.9284				
Cochran-Armitage test(e)	P = 0.1546				
Fisher Exact test(e)		P = 0.3654	P = 0.1940	P = 0.2264	
	SITE : liver				
	TUMOR : hemangioma, hemangios	arcoma			
Tumor rate					
Overall rates(a)	5/50(10.0)	5/49(10.2)	7/50(14.0)	2/49(4.1)	
Adjusted rates(b)	9. 09	14. 29	9. 38	2. 78	
Terminal rates(c)	3/35(8.6)	5/35 (14.3)	3/32(9.4)	1/36(2.8)	
statistical analysis					
Peto test	D - 0 4004				
Standard method(d) Prevalence method(d)	P = 0.4064 P = 0.9498				
Combined analysis(d)	P = 0.8846				
Cochran-Armitage test(e)	P = 0. 2274				
Fisher Exact test(e)		P = 0.6167	P = 0.3798	P = 0.2264	
			. 0.0130	1 - 0. 2201	
	SITE : liver				
Tumor	IUMUK : hepatocellular adeno	ma, hepatocellular carcinoma, hepatoblast	oma		
Tumor rate Overall rates(a)	14/50(28.0)	10/40/ 26 7\	10/50/ 00 0	0/10/ 2 3	
Adjusted rates(b)	25. 71	18/49(36.7) 42.86	18/50 (36. 0) 37. 50	3/49(6.1)	
Terminal rates(c)	9/35(25.7)	15/35(42.9)	37.50 12/32(37.5)	8. 33 3/36(8. 3)	
Statistical analysis	-, (,	10,00 (12.0)	12/02(31.0)	5/50(8.3)	
Peto test					
Standard method(d)	P = 0.9401				
Prevalence method(d)	P = 0.9987				
Combined analysis(d)	P = 0.9997				
Cochran-Armitage test(e)	P = 0.0009**				
Fisher Exact test(e)					

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

: MALE SEX

(HPT360A)

Group Name	Control	5 ppm	15 ppm	45 ppm
	SITE : urinary bladder			
	TUMOR : histiocytic sarcoma			
Tumor rate				
Overall rates(a)	1/50(2.0)	3/49(6.1)	0/48(0.0)	0/49(0.0)
Adjusted rates(b)	2. 86	8. 57	0.0	0.0
Terminal rates(c)	1/35(2.9)	3/35(8.6)	0/31(0.0)	0/36(0.0)
Statistical analysis Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0.9418			
Combined analysis(d)	P =			
Cochran-Armitage test(e)	P = 0.1513			
Fisher Exact test(e)		P = 0.3010	P = 0.5102	P = 0.5051
	SITE : Harderian gland			
	TUMOR : adenoma			
fumor rate Overall rates(a)	4/50(0.0)	0/40/ 0.1)	5/50/ 44.0	74-4 · ·
Adjusted rates(b)	4/50(8.0) 11.43	3/49(6. 1) 8. 57	7/50(14.0)	5/49(10.2)
Terminal rates(c)	4/35(11.4)	3/35(8.6)	16. 28	13. 89
Statistical analysis	4/00(11.4/	3/33(8.0)	3/32(9.4)	5/36(13.9)
Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0.2803			
Combined analysis(d)	P =			
Cochran-Armitage test(e)	P = 0.5990			
Fisher Exact test(e)		P = 0.5114	P = 0.2623	P = 0.4870

(a): Number of tumor-bearing animals/number of animals examined at the site.

Standard method : Death analysis Prevalence method: Incidental tumor test

Combined analysis: Death analysis + Incidental tumor test

BAIS4

⁽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.

⁽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; $*: P \le 0.05$ **: $P \le 0.01$

N.C.: Statistical value cannot be calculated and was not significant.

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : MALE

(HPT360A)

Group Name Control 15 ppm 5 ppm 45 ppm SITE : ALL SITE TUMOR : hemangioma Tumor rate Overall rates(a) 7/50(14.0) 7/49 (14.3) 18/50(36.0) 9/49 (18.4) Adjusted rates(b) 14.29 20.00 33.33 22.22 Terminal rates(c) 5/35(14.3) 7/35(20.0) 10/32(31.3) 8/36(22.2) Statistical analysis Peto test Standard method(d) P = 0.6738Prevalence method(d) P = 0.2479Combined analysis(d) P = 0.3326Cochran-Armitage test(e) P = 0.6331Fisher Exact test(e) P = 0.5971P = 0.0099**P = 0.3758SITE : ALL SITE TUMOR : histiocytic sarcoma Tumor rate Overall rates (a) 8/50(16.0) 12/49(24.5) 4/50(8.0) 8/49 (16.3) Adjusted rates(b) 11.43 21.05 3. 13 2.78 Terminal rates(c) 4/35(11.4) 7/35(20.0) 1/32(3.1) 1/36(2.8) Statistical analysis Peto test Standard method(d) P = 0.1203Prevalence method(d) P = 0.9863Combined analysis(d) P = 0.6544Cochran-Armitage test(e) P = 0.6801Fisher Exact test(e) P = 0.2116P = 0.1783P = 0.5900

BAIS4

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

: MALE

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : ALL SITE				
	TUMOR : malignant lymphoma				
Tumor rate					
Overall rates(a)	8/50(16.0)	14/49(28.6)	11/50(22.0)	4/49 (8. 2)	
Adjusted rates(b)	8. 57	25, 71	25. 00	8. 33	
Terminal rates(c)	3/35(8.6)	9/35(25.7)	8/32(25.0)	3/36(8.3)	
Statistical analysis					
Peto test					
Standard method(d)	P = 0.9680				
Prevalence method(d)	P = 0.8438				
Combined analysis(d)	P = 0.9753				
Cochran-Armitage test(e)	P = 0.0553				
Fisher Exact test(e)		P = 0.1032	P = 0.3055	P = 0.1882	

(HPT360A)

BAIS4

PAGE:

- (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; $*: P \le 0.05$ **: $P \le 0.01$

N.C.: Statistical value cannot be calculated and was not significant.

APPENDIX O 2

NEOPLASTIC LESIONS-INCIDENCE

AND STATISTICAL ANALYSIS: FEMALE

STUDY No. : 0438 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : FEMALE PAGE : 7

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : nasal cavity				
C	TUMOR : hemangioma				
umor rate Overall rates(a)	0/50(0.0)	0/50(0.0)	2/50(4.0)	7/50(14.0)	
Adjusted rates(b)	0.0	0,50(0.0)	2/30(4.0) 7.41	20. 69	
Terminal rates(c)	0/33(0.0)	0/31(0.0)	2/27(7.4)	3/22(13.6)	
tatistical analysis Peto test	0,000	0,01(0.0)	3, 31 (1, 1, 2)	5, 21 (15, 5)	
Standard method(d)	P =				
Prevalence method(d)	P < 0.0001**				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.0001**				
Fisher Exact test(e)		P = N. C.	P = 0.2475	P = 0.0062**	
Cumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test Standard method(d) Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e)	SITE : lung TUMOR : bronchiolar-alveolar a 7/50(14.0)	1/50(2.0) 2.50 0/31(0.0)	2/50(4.0) 5.88 1/27(3.7)	1/50(2.0) 4.35 0/22(0.0)	
Fisher Exact test(e)		P = 0.0297*	P = 0.0798	P = 0, 0297*	
	SITE : lung TUMOR : bronchiolar-alveolar	carcinoma			
Tumor rate					
Overall rates(a)	3/50(6.0)	3/50(6.0)	3/50(6.0)	1/50(2.0)	
Adjusted rates(b)	6. 98	6. 45	7.41	0.0	
Terminal rates(c)	1/33(3.0)	2/31(6.5)	2/27(7.4)	0/22(0.0)	
Statistical analysis					
Peto test Standard method(d)	P = 0.2100				
Prevalence method(d)	P = 0.2109 P = 0.9258				
Combined analysis(d)	P = 0.9258 P = 0.7445				
Cochran-Armitage test(e)	P = 0.7445 P = 0.2852				

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : FEMALE

Group Name	Control	5 ppm	15 ppm	45 ppm
	SITE : lung			
_	TUMOR : bronchiolar-alveolar ac	lenoma, bronchiolar—alveolar carcinoma		
Tumor rate	10 (ma (n = n)			
Overall rates(a)	10/50(20.0)	4/50(8.0)	5/50(10.0)	2/50 (4.0)
Adjusted rates(b)	22. 22	7. 50	12. 12	4, 35
Terminal rates(c)	7/33 (21.2)	2/31(6.5)	3/27(11.1)	0/22(0,0)
Statistical analysis				
Peto test	D 0.0100			
Standard method(d)	P = 0.2109			
Prevalence method(d)	P = 0.9892			
Combined analysis(d)	P = 0.9569			
Cochran Armitage test(e)	P = 0.0389*	D 0.070°		
Fisher Exact test(e)		P = 0.0739	P = 0.1312	P = 0.0139*
	SITE : lymph node TUMOR : malignant lymphoma			
Tumor rate				
Overall rates(a)	22/50(44.0)	19/50(38.0)	18/50(36,0)	16/50(32.0)
Adjusted rates(b)	39. 39	42. 42	40.74	36. 36
Terminal rates(c)	13/33(39.4)	13/31(41.9)	11/27(40.7)	8/22 (36. 4)
Statistical analysis			, , 2,	0, 20 (00 2)
Peto test				
Standard method(d)	P = 0.3305			
Prevalence method(d)	P = 0.5811			
Combined analysis(d)	P = 0.4530			
Cochran-Armitage test(e)	P = 0.2631			
Fisher Exact test(e)		P = 0.3423	P = 0.2703	P = 0.1515
	SITE : spleen			
Tumor rate	TUMOR : hemangioma			•
Overall rates(a)	0/50(0.0)	3/50(6.0)	0/50/ 0.0\	0/50/ 0.0)
Adjusted rates(b)	0.0	3/50(6.0)	0/50(0.0)	0/50(0,0)
Terminal rates(c)	0/33(0.0)	3, 23 1/31 (3, 2)	0.0	0.0
Statistical analysis	0,00(0.0)	1/31(3.4)	0/27(0.0)	0/22(0.0)
Peto test				
Standard method(d)	P = 0.7326			
Prevalence method(d)	P = 0.4702			
Combined analysis(d)	P = 0.8148			
Cochran-Armitage test(e)	P = 0.8148 P = 0.2607			
Fisher Exact test(e)	1 - 0.2001	P = 0.1212	$P = N \cdot Q$	D . V G
TOTAL PURCE PROFICE)		r - 0. 1212	P = N.C.	P = N.C.

STUDY No. : 0438 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

SEX : FEMALE

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : liver				
	TUMOR : hemangioma				
Tumor rate	0.750(0 (50 (40 0)	* (TO (0 (50 (. 4.0)	
Overall rates(a)	2/50 (4.0)	6/50(12.0)	1/50(2.0)	2/50(4.0)	
Adjusted rates(b)	6.06	12. 90	3.70	9.09	
Terminal rates(c)	2/33(6.1)	4/31 (12.9)	1/27(3.7)	2/22(9.1)	
Statistical analysis					
Peto test	P = 0.7170				
Standard method(d) Prevalence method(d)	P = 0.7170 P = 0.4625				
Combined analysis(d)	P = 0.4025 P = 0.5927				
Cochran-Armitage test(e)	P = 0.3927 P = 0.4369				
Fisher Exact test(e)	r - 0.4309	P = 0.1343	P = 0.5000	P = 0.6913	
risher Exact test(e)		r = 0.1343	r - 0. 3000	r - 0.0913	
	SITE : liver				
	TUMOR : hepatocellular adenoma				
Tumor rate	-				
Overall rates(a)	5/50(10.0)	2/50(4.0)	4/50(8,0)	3/50(6.0)	
Adjusted rates(b)	15. 15	5. 71	11, 11	11. 54	
Terminal rates(c)	5/33 (15.2)	1/31(3.2)	3/27(11.1)	2/22(9.1)	
Statistical analysis					
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.4334				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.7209				
Fisher Exact test(e)		P = 0.2180	P = 0.5000	P = 0.3575	
	SITE : pituitary gland TUMOR : adenoma				
Tumor rate					
Overall rates(a)	8/50(16.0)	8/50(16.0)	6/50(12.0)	3/50(6.0)	
Adjusted rates(b)	20, 59	21. 05	18. 52	7.41	
Terminal rates(c)	6/33(18.2)	6/31(19.4)	5/27 (18. 5)	0/22(0.0)	
Statistical analysis			-, -, -, -, -,	-, (
Peto test					
Standard method(d)	P = 0.2372				
Prevalence method(d)	P = 0.9336				
Combined analysis(d)	P = 0.8833				
Cochran-Armitage test(e)	P = 0.0836				
Fisher Exact test(e)		P = 0.6071	P = 0.3871	P = 0.0999	

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : FEMALE PAGE : 10

Group Name	Control	5 ppm	15 ppm	45 ppm
	SITE : uterus			
P	TUMOR : hemangioma			
Tumor rate	0/50/ 0.0)	0/50/ (0)	0/50/ 0.0)	1/50/ 0.0)
Overall rates(a)	0/50(0.0)	3/50(6.0)	0/50(0.0)	1/50(2.0)
Adjusted rates(b)	0.0	6. 25	0.0	0.0
Terminal rates(c)	0/33(0.0)	1/31(3.2)	0/27(0.0)	0/22(0.0)
Statistical analysis				
Peto test Standard method(d)	P = 0.1127			
Prevalence method(d)	P = 0.1127 P = 0.8364			
	P = 0.8364 P = 0.4436			
Combined analysis(d) Cochran-Armitage test(e)	P = 0.4430 P = 0.8850			
Fisher Exact test(e)	P = 0.8850	P = 0.1212	P = N. C.	P = 0.5000
Prisher Exact test(e)		f - 0.1212	r - N. C.	r - 0.5000
	SITE : uterus			
T	TUMOR : histiocytic sarcoma			
Tumor rate Overall rates(a)	6/50(12.0)	10/50(20.0)	15/50(30.0)	15/50/ 20 0)
Adjusted rates(b)	7.50	9.68	7.41	15/50(30.0) 29.17
Terminal rates(c)	1/33(3.0)	9. 68 3/31(9. 7)	2/27(7.4)	6/22(27. 3)
Statistical analysis	1/33(3.0)	3/31(9.7)	2/21(1.4)	0/22(21.3)
Peto test				
Standard method(d)	P = 0.0853			
Prevalence method(d)	P = 0.0116*			
Combined analysis(d)	P = 0.0085**			
Cochran-Armitage test(e)	P = 0.0513			
Fisher Exact test(e)	1 0.0010	P = 0.2070	P = 0.0239*	P = 0.0239*
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(HPT360A)

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NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL

SEX : FEMALE

Group Name	Control	5 ppm	15 ppm	45 ppm	
	SITE : Harderian gland				
Tuna	TUMOR : adenoma				
Tumor rate Overall rates(a)	3/50(6.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)	
Adjusted rates(b)	9.09	6.98	7, 41	4. 55	
Terminal rates(c)	3/33(9.1)	2/31(6.5)	2/27(7.4)	1/22(4.5)	
	3/33(9.1)	2/31(0.3)	2/21(1.4)	1, 22 (1.0)	
Statistical analysis					
Peto test	D				
Standard method(d)	P =				
Prevalence method(d)	P = 0.7660				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.2717	P = 0.6611	P = 0.5000	P = 0.3087	
Fisher Exact test(e)		r - 0.0011	r - 0.0000	1 - 0. 3001	
(IIDTOCOA)					RATS4

(HPT360A)

BATS4

PAGE: 11

- (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; $*: P \le 0.05$ **: $P \le 0.01$

N.C.: Statistical value cannot be calculated and was not significant.

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SEX : FEMALE

(HPT360A)

Group Name Control		5 ppm	15 ppm	45 ppm
	SITE : ALL SITE TUMOR : hemangioma			
fumor rate	<u> </u>			•
Overall rates(a)	4/50(8.0)	9/50(18.0)	3/50(6.0)	10/50(20.0)
Adjusted rates(b)	12. 12	16. 13	11. 11	28. 00
Terminal rates(c)	4/33(12.1)	5/31 (16.1)	3/27(11.1)	5/22(22.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5079			
Prevalence method(d)	P = 0.0104*			
Combined analysis(d)	P = 0.0222*			
Cochran-Armitage test(e)	P = 0.1570			
Fisher Exact test(e)		P = 0.1168	P = 0.5000	P = 0.0739
	SITE : ALL SITE TUMOR : histiocytic sarcoma			
Tumor rate	0/50/ 18 0)	12/50(24.0)	19/50(38.0)	17/50 (34. 0)
Overall rates(a) Adjusted rates(b)	9/50 (18. 0) 7. 89	9.68	15, 63	29. 17
Terminal rates(c)	1/33(3.0)	3/31(9.7)	4/27 (14. 8)	6/22(27.3)
Statistical analysis	1/33(3.0)	3/31(5.1)	4/21(14.0)	0/22(21.0)
Peto test				
Standard method(d)	P = 0.1127			
Prevalence method(d)	P = 0.0190*			
Combined analysis(d)	P = 0.0170*			
Cochran-Armitage test(e)	P = 0.0992			

PAGE: 3

BAIS4

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

SEX : FEMALE

(HPT360A)

15 ppm 45 ppm Group Name Control 5 ppm SITE : ALL SITE TUMOR : malignant lymphoma Tumor rate 22/50(44.0) 20/50 (40.0) 19/50(38.0) Overall rates(a) 26/50 (52.0) 48.15 45.45 Adjusted rates(b) 51.52 51.61 10/22 (45.5) Terminal rates(c) 17/33 (51.5) 16/31 (51.6) 13/27(48.1) Statistical analysis Peto test Standard method(d) P = 0.2154Prevalence method(d) P = 0.6057Combined analysis(d) P = 0.3756Cochran-Armitage test(e) P = 0.2242P = 0.2742P = 0.1579P = 0.1138Fisher Exact test(e)

(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 ; * : $P \le 0.05$ ** : $P \le 0.01$

N.C.: Statistical value cannot be calculated and was not significant.

BAIS4

PAGE:

4

APPENDIX P 1

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

MALE: ALL ANIMALS

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

b: Number of animals with lesion

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

REPORT TYPE : A1 SEX

(JPT150)

ANIMAL

: MALE

15 ppm 45 ppm Group Name Control 5 ppm 50 49 No. of Animals on Study Findings_ Organ___ {Integumentary system/appandage} <50> <49> <50> (49) skin/app 0 1 metastasis:bone marrow tumor ⟨50⟩ **〈49〉** <50> <49> subcutis 1 leukemic cell infiltration 0 1 0 metastasis:bone marrow tumor metastasis:skin/appendage tumor {Respiratory system} <49> <49> <50> <50> nasal cavit 1 1 leukemic cell infiltration 0 metastasis:liver tumor 0 metastasis:brain tumor 0 0 1 metastasis:peripheral nerve tumor metastasis:lymph node tumor <49> <49> <50> trachea <50> 1 0 0 leukemic cell infiltration 2 <50> **〈49〉** <50> **<49>** lung leukemic cell infiltration metastasis:liver tumor metastasis:bone marrow tumor 0 0 1 metastasis:epididymis tumor (a) a: Number of animals examined at the site

ANIMAL : MOUSE BGD2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

Organ		Group Name No. of Animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
Respiratory s	system}					
lung	metastasis:salivary gland tumor		<50> 0	<49> 1	<50> 0	<49> 0
{Hematopoietion	c system}					
bone marrow	leukemic cell infiltration		<50> 4	<49> 4	<50> 3	<49> 1
	metastasis:liver tumor		2	0	0	1
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	i	0	0
	metastasis:lymph node tumor		0	0 , , , ,	1	1
lymph node	metastasis:liver tumor		<50> 2	<49> 0	<50> 0	<49> 0
	metastasis:peritoneum tumor		0	0	0	1
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	. 0	1	0
thymus	leukemic cell infiltration		<50> 0	<49>	<50> 1	<49>
spleen	leukemic cell infiltration		<50> 6	<49> 10	<50> 9	<49> 2
	metastasis:liver tumor		1	0	0	2
< a > b	a: Number of animals examined at the sib: Number of animals with lesion	te		34. 34. 34.		

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

organ		Group Name No. of Animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
						
Hematopoietic	c system}					
spleen	metastasis:bone marrow tumor		<50> 0	<49> 0	<50> 1	<49> 0
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:lymph node tumor		0	0	1	1
{Circulatory s	system)					
neart	metastasis:spleen tumor		<50> 0	<49>	<50> 0	<49> 1
	metastasis:bone marrow tumor		0	0	ī	0
{Digestive sys	stem}					
salivary gl	leukemic cell infiltration		<50> 2	<49> 1	<50> 2	<49> 0
	metastasis:epididymis tumor		0	1	0	0
tomach	leukemic cell infiltration		<50> 1	<49> 0	<50> 1	<49> 0
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
small intes	leukemic cell infiltration		<50> 2	<49>	<50> 2	<49>
arge intes	leukemic cell infiltration		<50> 0	<49>	<50> 0	<49>
⟨a⟩ b	a: Number of animals examined at the si b: Number of animals with lesion	te				

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ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

SEX : MALE

PAGE: 4 Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 49 50 49 Findings___ Organ____ {Digestive system} liver <50> <49> <50> <49> leukemic cell infiltration 3 1 metastasis:peritoneum tumor 0 1 metastasis: subcutis tumor metastasis:brain tumor 0 metastasis:spleen tumor 0 metastasis:bone marrow tumor metastasis:epididymis tumor metastasis:skin/appendage tumor 0 metastasis:salivary gland tumor 0 metastasis:lymph node tumor 0 pancreas <50> **〈49〉** <50> **〈49〉** leukemic cell infiltration 1 0 {Urinary system} kidney <50> **〈49〉** <50> **〈49〉** leukemic cell infiltration 0 metastasis:liver tumor metastasis:peritoneum tumor metastasis:urinary bladder tumor 0 0 <a>> a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 : MALE SEX

Organ		Group Name No. of Animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
{Urinary syst	em}					
ridney	metastasis:bone marrow tumor		<50> 0	<49> 0	<50> 1	<49> 0
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	1	0	0
	metastasis:lymph node tumor		0	0	1	1
rin bladd	leukemic cell infiltration		<50> 0	<49> 1	<50> 3	<49> 0
	metastasis:subcutis tumor		0	0	1	0
Endocrine sy	stem)					
oituitary	leukemic cell infiltration		<50> 0	<49> 0	<50> 1	<49> 0
	metastasis brain tumor		0	1	0	0
	metastasis:peripheral nerve tumor		0	0	1	0
hyroid	leukemic cell infiltration		<50> 0	<49>	<50> 0	<49>
drenal	metastasis:lymph node tumor		<50> 0	<49> 0	<50> 0	<49>
{Reproductive	system}					
testis	leukemic cell infiltration		<50> 0	<49>	<50> 1	<49>
(a > b	a: Number of animals examined at the si b: Number of animals with lesion	te	<u>· · · · · · · · · · · · · · · · · · · </u>			
(JPT150)						

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Organ		Group Name No. of Animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
·						
{Reproductive	system}					
testis	metastasis:liver tumor		<50> 0	<49>	<50> 0	<49>
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:epididymis tumor		1	0	0	0
epididymis	leukemic cell infiltration		<50> 2	<49>	<50> 3	<49>
	metastasis:peritoneum tumor		0	0	0	1
semin ves	leukemic cell infiltration		<50> 1	<49>	<50> 0	<49>
prostate	leukemic cell infiltration		<50>	<49> 0	<50> 1	<49> 0
	metastasis:small intestine tumor		0	1	0	0
mammary gl	leukemic cell infiltration		<50> 1	<49> 1	<50> 0	<49> 0
{Nervous syst	cem}					
brain	leukemic cell infiltration		<50> 0	<49>	<50> 0	<49> 1
	metastasis:liver tumor		0	0	0	1
	metastasis:peripheral nerve tumor		0	0	1	1
periph nerv	leukemic cell infiltration		<50> 1	<49> 0	<50> 0	<49> 0
(a)	a: Number of animals examined at the s b: Number of animals with lesion	ite				
/ TDT1 50)						DATCA

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ		Group Name No. of Animals on Study	Control 50	5 ppm 49	15 ppm 50	45 ppm 49
{Special sense	e organs/appendage)					
Harder gl			<50>	<49>	<50>	<49>
	leukemic cell infiltration		0	0	3	1
	metastasis:liver tumor		0	0	0	1
{Musculoskele	tal system)					
muscle			<50>	<49>	<50>	<49>
	metastasis:bone marrow tumor		0	0	1	0
.						
{Body cavitie	s)					
mediastinum			<50>	<49>	<50>	<49>
	metastasis:spleen tumor		0	0	0	1
	metastasis:lymph node tumor		0	0	0	1
peritoneum			<50>	<49>	<50>	<49>
	metastasis:small intestine tumor		0	1	0	0
retroperit	·		<50>	<49>	<50>	<49>
	metastasis:skin/appendage tumor		0	0	1	0
< a >	a : Number of animals examined at the si	te				
b	b: Number of animals with lesion					

APPENDIX P 2

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

MALE: DEAD AND MORIBUND ANIMALS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

organ		Group Name No. of Animals on Study	Control 15	5 ppm 14	15 ppm 18	45 ppm 13
Integumentar	y system/appandage)					
kin/app	metastasis:bone marrow tumor		<15> 0	<14> 0	<18>	<13> 0
ubcutis	leukemic cell infiltration		<15> 0	<14> 1	<18> 1	<13>
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
Respiratory	system}					
asal cavit	leukemic cell infiltration		<15> 0	<14> 0	<18> 1	<13>
	metastasis:liver tumor		0	0	0	1
	metastasis:brain tumor		0	0	0	1
	metastasis:peripheral nerve tumor		0	0	0	1
rachea	leukemic cell infiltration		<15> 2	<14> 0	<18> 0	<13>
ung	leukemic cell infiltration		<15> 1	<14> 0	<18> 1	<13>
	metastasis:liver tumor		2	1	0	1
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:epididymis tumor		0	0	. 0	1
	metastasis:salivary gland tumor		0	1	0	0
(a)	a: Number of animals examined at the s b: Number of animals with lesion	ite				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1 SEX

: MALE

lrgan		Group Name No. of Animals on Study	Control 15	5 ppm 14	15 ppm 18	45 ppm 13
Hematopoieti	c system					
one marrow			<15>	<14>	<18>	<13>
	leukemic cell infiltration		3	2	0	1
	metastasis:liver tumor		2	0	0	1
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	1	0	0
lymph node	metastasis:liver tumor		<15> 2	<14> 0	<18> 0	<13> 0
	metastasis:peritoneum tumor		0	0	0	1
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	0	1	0
hymus	leukemic cell infiltration		<15> 0	<14> 0	<18> 0	<13> 1
pleen	leukemic cell infiltration		<15> 4	<14> 4	<18> 3	<13> 1
	metastasis:liver tumor		1	0	0	2
	metastasis:bone marrow tumor		0 .	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
Circulatory	system)					
neart	metastasis:bone marrow tumor		<15> 0	<14> 0	<18> 1	<13> 0
(a)	a: Number of animals examined at the si b: Number of animals with lesion	te				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY) DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX

: MALE

PAGE: 3 Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 15 14 18 13 Organ____ Findings_ {Digestive system} salivary gl <15> <14> <18> <13> leukemic cell infiltration 1 stomach <15> <14> <18> <13> leukemic cell infiltration 1 1 metastasis:bone marrow tumor 1 0 metastasis:skin/appendage tumor 1 0 small intes <15> <14> <18> <13> leukemic cell infiltration 1 0 liver <15> <14> <18> <13> leukemic cell infiltration 2 3 1 metastasis:peritoneum tumor 0 1 metastasis: subcutis tumor 0 metastasis:brain tumor metastasis:bone marrow tumor 0 metastasis:epididymis tumor metastasis:skin/appendage tumor metastasis: salivary gland tumor pancreas <15> <14> <18> <13> leukemic cell infiltration 0 {Urinary system} kidney <15> <14> <18> <13> leukemic cell infiltration 2 0 < a > a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

Organ		Group Name No. of Animals on Study	Control 15	5 ppm 14	15 ppm 18	45 ppm 13
(Urinary sys	tem}					
kidney			<15>	<14>	<18>	<13>
•	metastasis:liver tumor		1	0	0	0
	metastasis:peritoneum tumor		0	0	0	1
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:skin/appendage tumor		0	0	1	0
	metastasis:salivary gland tumor		0	1	0	0
urin bladd	leukemic cell infiltration		<15> 0	<14> 0	<17> 1	<13> 0
	metastasis:subcutis tumor		0	0	1	0
Endocrine s	ystem)					
ituitary	leukemic cell infiltration		<15> 0	<14> 0	<18> 1	<13> 0
	metastasis:brain tumor		0	1	0	0
Reproductiv	e system)					
estis	leukemic cell infiltration		<15> 0	<14> 0	<18> 1	<13> 0
	metastasis:liver tumor		0	1	0	0
	metastasis:bone marrow tumor		0	0	1	0
	metastasis:epididymis tumor		1	0	0	0
(a) b	a: Number of animals examined at the si b: Number of animals with lesion	te			· · · · · · · · · · · · · · · · · · ·	
(JPT150)						

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : MALE

eukemic cell infiltration etastasis:peritoneum tumor eukemic cell infiltration etastasis:small intestine tumor		<15> 0 0 <15> 1	<14> 0 0 <14> 0	<18> 1 0 <18>	<13> 0 1
etastasis:peritoneum tumor eukemic cell infiltration etastasis:small intestine tumor		0 0 <15>	0 0 <14>	1 0 <18>	0
etastasis:peritoneum tumor eukemic cell infiltration etastasis:small intestine tumor		0 <15>	0 <14>	0 <18>	1
eukemic cell infiltration etastasis:small intestine tumor		<15>	<14>	<18>	
etastasis:small intestine tumor					/19\
etastasis:small intestine tumor		-	o	0	<13> 0
sukemic cell infiltration		0	1	0	0
		<15> 1	<14> 1	<18> 0	<13> 0
eukemic cell infiltration		<15> 0	<14> 0	<18> 0	<13> 1
etastasis:liver tumor		0	0	0	1
etastasis:peripheral nerve tumor		0	0	0	1
eukemic cell infiltration		<15> 1	<14> 0	0 <18>	<13> 0
gans/appendage)					
eukemic cell infiltration		<15> 0	<14> 0	<18> 2	<13> 1
etastasis:liver tumor		0	0	0	1
system}					
etastasis:bone marrow tumor		<15> 0	<14> 0	<18> 1	<13> 0
ent est	tastasis:liver tumor tastasis:peripheral nerve tumor ukemic cell infiltration ans/appendage) ukemic cell infiltration tastasis:liver tumor ystem)	tastasis:liver tumor tastasis:peripheral nerve tumor ukemic cell infiltration ans/appendage) ukemic cell infiltration tastasis:liver tumor ystem) tastasis:bone marrow tumor : Number of animals examined at the site	ukemic cell infiltration 0 tastasis:liver tumor 0 tastasis:peripheral nerve tumor 0 valuemic cell infiltration 1 ans/appendage) (15) ukemic cell infiltration 0 tastasis:liver tumor 0 ystem) (15) tastasis:bone marrow tumor 0 Number of animals examined at the site	ukemic cell infiltration 0 0 tastasis:liver tumor 0 0 tastasis:peripheral nerve tumor 0 0 ukemic cell infiltration 1 0 ans/appendage) <15> <14> ukemic cell infiltration 0 0 tastasis:liver tumor 0 0 vystem) <15> <14> tastasis:bone marrow tumor 0 0 : Number of animals examined at the site <15> <14>	ukemic cell infiltration 0 0 0 tastasis:liver tumor 0 0 0 tastasis:peripheral nerve tumor 0 0 0 ukemic cell infiltration 1 0 0 ans/appendage) 415> 414> 418> ukemic cell infiltration 0 0 2 tastasis:liver tumor 0 0 0 ystem) 415> 414> 418> tastasis:bone marrow tumor 0 0 1 Number of animals examined at the site 0 0 1

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name No. of Animals on Study	Control 15	5 ppm 14	15 ppm 18	45 ppm 13	
Body cavitie	es)						
eritoneum	metastasis:small intestine tumor		<15> 0	<14>	<18> 0	<13> 0	
etroperit	metastasis:skin/appendage tumor		<15> 0	<14>	<18>	<13> 0	
a > b	a: Number of animals examined at the b: Number of animals with lesion	site					
JPT150)		<u> </u>					

APPENDIX P 3

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

MALE: SACRIFICED ANIMALS

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ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Group Name Control 5 ppm 15 ppm 45 ppm No. of Animals on Study 32 36 Findings_ Organ_ {Respiratory system} nasal cavit <35> ⟨35⟩ <32> <36> metastasis:lymph node tumor 1 lung <35> <35> <32> <36> leukemic cell infiltration metastasis:liver tumor metastasis:epididymis tumor 0 {Hematopoietic system} bone marrow <35> <35> <32> <36> leukemic cell infiltration metastasis:lymph node tumor 0 1 thymus <35> <35> <32> <36> leukemic cell infiltration 0 0 1 spleen <35> <35> <32> <36> leukemic cell infiltration metastasis:lymph node tumor {Circulatory system} heart <35> <35> <32> <36> metastasis:spleen tumor {Digestive system} salivary gl <35> ⟨35⟩ <32> <36> leukemic cell infiltration < a > a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1 SEX : MALE

rgan		Group Name No. of Animals on Study	Control 35	5 ppm 35	15 ppm 32	45 ppm 36
				·		
Digestive sys	etem)					
alivary gl			<35>	<35>	⟨32⟩	<36>
	metastasis:epididymis tumor		0	1	0	0
mall intes			<35>	<35>	⟨32⟩	<36>
	leukemic cell infiltration		1	3	2	1
arge intes			<35>	<35>	<32>	<36>
	leukemic cell infiltration		0	1	0	0
iver			<35>	<35>	<32>	⟨36⟩
	leukemic cell infiltration		1	3	3	0
	metastasis:spleen tumor		0	0	0	2
	metastasis:epididymis tumor		1	0	0	0
	metastasis:lymph node tumor		0	0	0	1
ncreas			<35>	<35>	⟨32⟩	<36>
	leukemic cell infiltration		0	0	1	0
Jrinary syste	em}					
idney			<35>	⟨35⟩	⟨32⟩	<36>
	leukemic cell infiltration		1	0	4	0
	metastasis:liver tumor		0	1	0	0
	metastasis:urinary bladder tumor		0	1	0	0
	metastasis:lymph node tumor		0	0	1	1
rin bladd	laukanda 11 2 6:14		<35>	<35>	⟨32⟩	<36>
	leukemic cell infiltration		0	1	2	0
a > b	a: Number of animals examined at the si b: Number of animals with lesion	te				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1
SEX : MALE

lycan	Dindings	Group Name No. of Animals on Study	Control 35	5 ppm 35	15 ppm 32	45 ppm 36
rgan	Findings					
Endocrine sy	rstem}					
ituitary			<35> 0	<35>	<32>	<36>
	metastasis:peripheral nerve tumor		•	0	1	0
hyroid	leukemic cell infiltration		<35> 0	<35> 1	<32> 0	<36>
drenal	metastasis:lymph node tumor		<35> 0	<35> 0	<32> 0	<36> 1
Reproductive	e system)					
epididymis	leukemic cell infiltration		<35> 2	<35> 0	<32> 2	<36> 0
emin ves	leukemic cell infiltration		<35> 1	<35> 0	<32> 0	<36> 0
rostate	leukemic cell infiltration		<35> 0	<35> 0	<32> 1	<36> 0
Vervous sys1	tem}					
rain	metastasis:peripheral nerve tumor		<35> 0	<35> · · · · · · · · · · · · · · · · · · ·	<32> 1	<36> 0
Special sens	se organs/appendage)					
arder gl	leukemic cell infiltration		<35> 0	<35> 0	<32> 1	<36> 0
Body cavitie	es)					
nediastinum	metastasis:spleen tumor		<35> 0	<35> 0	<32> 0	<36>
(a)	a : Number of animals examined at th b : Number of animals with lesion	e site				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

rgan		Group Name No. of Animals on Study	Control 35	5 ppm 35	15 ppm 32	45 ppm 36
,						
ody cavities	s)					
diastinum			<35>	<35>	<32>	<36>
	metastasis:lymph node tumor		0	0	0	1
a >	a : Number of animals examined at the si b : Number of animals with lesion	ite	······································			
b	D . Monthet of suffigire with feston					

APPENDIX P 4

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

FEMALE: ALL ANIMALS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
Organ	Findings	·				
{Integumentar	y system/appandage)					
skin/app	leukemic cell infiltration		<50> 0	<50> 0	<50> 2	<50> 1
	metastasis:mammary gland tumor		0	0	0	. 1
subcutis	leukemic cell infiltration		<50> 2	<50> 1	<50> 1	<50> 2
{Respiratory	system}					
nasal cavit	leukemic cell infiltration		<50> 2	<50> 0	<50> 3	<50> 1
	metastasis:uterus tumor		0	1	1	0
	metastasis:peripheral nerve tumor		1	0	0	1
larynx	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<50> 1
trachea	leukemic cell infiltration		<50> 1	<50> 0	<50> 2	<50> 0
lung	leukemic cell infiltration		<50> 21	<50> 16	<50> 12	<50> 10
	metastasis:liver tumor		0	1	0	1
	metastasis:uterus tumor		3	6	7	7
	metastasis:ovary tumor		0	1	0	0
	metastasis:peripheral nerve tumor		2	0	0	0
	metastasis:mammary gland tumor		0	0	0	1

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ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
{Hematopoietic	c system)					
			(50)	(50)	(50)	450
bone marrow	leukemic cell infiltration		<50> 13	<50> 6	<50> 6	<50> 6
	metastasis:liver tumor		0	2	0	2
	metastasis:uterus tumor		1	1	0	1
	metastasis:subcutis tumor		0	0	1	0
lymph node	leukemic cell infiltration		<50>	<50> 0	<50> 1	<50>
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		1	2	2	1
	metastasis:peripheral nerve tumor		0	0	0	1
thymus	leukemic cell infiltration		<50> 2	<50> 0	<50> 1	<50>
spleen			<50>	<50>	< 50>	<50>
•	leukemic cell infiltration		16	11	15	9
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		0	3	0	1
{Circulatory	system)					
heart	Table 2 11 to 011 at		<50>	<50>	<50>	<50>
	leukemic cell infiltration		7	6	5	6
	metastasis:uterus tumor		1	1	0	0
< a > b	a: Number of animals examined at the si b: Number of animals with lesion	ite				
(JPT150)				•		

: MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1

ANIMAL

SEX : FEMALE

Group Name Control 45 ppm 5 ppm 15 ppm No. of Animals on Study 50 Organ____ Findings_ {Digestive system} <50> <50> <50> <50> tongue leukemic cell infiltration 4 4 1 <50≻ <50> <50> <50> salivary gl leukemic cell infiltration 9 14 8 <50> <50> ⟨50⟩ <50> stomach leukemic cell infiltration 11 1 1 0 0 0 metastasis:uterus tumor 1 <50> <50> small intes <50> <50> leukemic cell infiltration 2 2 0 1 metastasis:uterus tumor liver <50> <50> <50> <50> leukemic cell infiltration 20 12 12 10 metastasis:uterus tumor 3 15 10 metastasis:peripheral nerve tumor 1 gall bladd <50> <50> <50> <50≻ leukemic cell infiltration 1 pancreas <50> <50> <50> <50> leukemic cell infiltration 10 metastasis:uterus tumor 1 1 3 {Urinary system} kidney <50> <50> <50> <50> leukemic cell infiltration 17 11 13 7 < a > a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

REPORT TYPE: A1
SEX: FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

Organ	Findings	Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
						
{Urinary syste	em}					
kidney			<50>	<50>	<50>	<50>
	metastasis:liver tumor		1	1	0	1
	metastasis:uterus tumor		1	3	4	2
ırin bladd			<50>	<50>	<50>	<50>
	leukemic cell infiltration		10	16	11	5
	metastasis:uterus tumor		1	1	4	1
{Endocrine sys	stem}					
pituitary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	2	0	0
	metastasis:peripheral nerve tumor		2	0	0	1
thyroid			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	0
parathyroid			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0 .	0	0
adrenal	leukemic cell infiltration		<50>	<50>	<50>	<50>
	reukemic cerr intrittration		8	2	2	0
	metastasis:uterus tumor		0	1	0	0
{Reproductive	system)					
ovary			<50≻	<50>	<50>	<50>
	leukemic cell infiltration		14	7	9	5
	metastasis:liver tumor		0	0	0	1
<a>>	a : Number of animals examined at the	site				
ь	b: Number of animals with lesion					

SEX

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

: MOUSE B6D2F1/Cr1j[Crj:BDF1] ANIMAL

REPORT TYPE : A1 : FEMALE

		Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	45 ppm 50
rgan	Findings					
Reproductive	evetom)					
	Systems					
vary	metastasis:uterus tumor		<50> 1	<50> 7	<50> 12	<50> 6
	metastasis:subcutis tumor		0	0	1	0
ıterus	leukemic cell infiltration		<50> 9	<50> 4	<50> 4	<50>
	metastasis:subcutis tumor		0	0	1	0
	metastasis:peripheral nerve tumor		1	0	0	0
agina	leukemic cell infiltration		<50> 10	<50> 5	<50> 4	<50> 3
	metastasis:uterus tumor		1	1	8	0
	metastasis:subcutis tumor		0	0	2	0
ammary gl	leukemic cell infiltration		<50> 8	<50> 5	<50> 5	<50> 4
	metastasis:uterus tumor		0	0	2	0
Nervous syst	cem}					
orain	leukemic cell infiltration		<50> 1	<50> 2	<50> 2	<50> 0
	metastasis:peripheral nerve tumor		1	0	0	0
pinal cord	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<50> 0
Special sens	se organs/appendage}					
eye	leukemic cell infiltration		<50> 0	<50> 2	<50> 2	<50> 0

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

b : Number of animals with lesion

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

		Group Name No. of Animals on Study	Control 50	5 ppm 50	15 ppm 50	4 5 ppm 50
rgan	Findings	· · · · · · · · · · · · · · · · · · ·				
	, , ,					
(Special sense	e organs/appendage)					
еуе	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 0
larder gl	leukemic cell infiltration		<50> 7	<50> 2	<50> 3	<50≻ 2
	metastasis:liver tumor		1	0	0	0
	metastasis:utėrus tumor		0	0	1	0
{Musculoskelet	tal system)					
muscle	leukemic cell infiltration		<50> 2	<50> 4	<50> 4	<50> 4
						•
{Body cavities	s}					
nediastinum	leukemic cell infiltration		<50> 4	<50> 2	<50> 2	<50> 1
peritoneum	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50>
	metastasis:uterus tumor		0	0	1	0
retroperit	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
< a >	a: Number of animals examined at the s b: Number of animals with lesion	ite	 			
(JPT150)	b - Adminos of distincts with 1601011					

APPENDIX P 5

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

FEMALE: DEAD AND MORIBUND ANIMALS

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

)rgan	Findings	Group Name No. of Animals on Study	Control 17	5 ppm 19	15 ppm 23	45 ppm 28
				· · · · · · · · · · · · · · · · · · ·		
Integumentary	y system/appandage}					
kin/app	leukemic cell infiltration		<17> 0	<19>	<23> 2	<28>
ubcutis	leukemic cell infiltration		<17> 2	<19> 1	<23> 1	<28> 2
Respiratory	system)					
asal cavit	leukemic cell infiltration		<17> 1	<19> 0	<23> 3	<28> 1
	metastasis:uterus tumor		0	1	1	0
	metastasis:peripheral nerve tumor		1	0	0	1
arynx	leukemic cell infiltration		<17> 1	<19> 0	<23> 0	<28> 1
rachea	leukemic cell infiltration		<17> 1	<19> 0	<23> 2	<28> 0
ung	leukemic cell infiltration		<17> 9	<19> 5	<23> · · · 5	<28> 4
	metastasis:liver tumor		0	1	0	1
	metastasis:uterus tumor		3	5	6	6
	metastasis:peripheral nerve tumor		2	0	0	0
	metastasis:mammary gland tumor		0	0	0	1
Hematopoieti	c system)					
oone marrow	leukemic cell infiltration		<17> 5	<19> 2	<23> 4	<28>
(a >	a: Number of animals examined at the b: Number of animals with lesion	site				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 17	5 ppm 19	15 ppm 23	45 ppm 28
{Hematopoiet	ic system)					
bone marrow	metastasis:liver tumor		<17> 0	<19>	<23> 0	<28> 2
	metastasis:uterus tumor		1	1	0	1
	metastasis:subcutis tumor		0	0	1	0
lymph node	leukemic cell infiltration		<17> 0	<19> 0	<23> 0	<28> 1
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		1	2	2	1
	metastasis:peripheral nerve tumor		0	0 ·	0	1
spleen	leukemic cell infiltration		<17> 8	<19> 4	<23> 5	<28> 5
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		0	3	0	1
{Circulatory	system)					
heart	leukemic cell infiltration		<17> 4	<19> 2	<23> 4	<28> 3
	metastasis:uterus tumor		1	0	0	0
{Digestive s	system}					
tongue	leukemic cell infiltration		<17> 3	<19> 2	<23> 4	<28> 1
⟨ a ⟩ b	a : Number of animals examined at the s b : Number of animals with lesion	ite	<u> </u>			
(TPT150)			··· · · · · · · · · · · · · · · · · ·			RA

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

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

SEX : FEMALE

rgan	Findings	Group Name No. of Animals on Study	Control 17	5 ppm 19	15 ppm 23	45 ppm 28
Digestive sy	stem)					
alivary gl	leukemic cell infiltration		<17> 4	<19> 4	<23> 4	<28> 4
tomach	leukemic cell infiltration		<17> 5	<19> 0	<23> 1	<28>
	metastasis:uterus tumor		1	0	0	0
mall intes	leukemic cell infiltration		<17> 1	<19> 0	<23> 0	<28> 0
	metastasis:uterus tumor		0	1	0	0
iver	leukemic cell infiltration		<17> 8	<19> 5	<23> 4	<28>
	metastasis:uterus tumor		2	7	14	8
	metastasis:peripheral nerve tumor		2	0	0	1
ancreas	leukemic cell infiltration		<17> 6	<19> 2	<23> 3	<28> 2
	metastasis:uterus tumor		1	1	3	0
Urinary syst	em}					
idney	leukemic cell infiltration		<17> 5	<19> 2	<23> 5	<28> 4
	metastasis:liver tumor		1	1	0	1
	metastasis:uterus tumor		0	3	3	1
ırin bladd	leukemic cell infiltration		<17> 4	<19>	<23> 4	<28> 4
a >	a: Number of animals examined at th b: Number of animals with lesion	e site				

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name No. of Animals on Study	Control	5 ppm 19	15 ppm 23	45 ppm 28
{Urinary sys	stem}					
urin bladd	metastasis:uterus tumor		<17> 0	<19> 1	<23> 4	<28> 1
{Endocrine s	system}					
pituitary	leukemic cell infiltration		<17> 1	<19> 0	<23> 0	<28> 0
	metastasis:peripheral nerve tumor		2	0	0	1
adrenal	leukemic cell infiltration		<17> 6	<19> 0	<23> 2	<28> 0
	metastasis:uterus tumor		0	1	0	0
{Reproductiv	ve system)					
ovary	leukemic cell infiltration		<17> 8	<19> 4	<23> 6	<28> 5
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	6	11	5
	metastasis:subcutis tumor		0	0	1	0
uterus	leukemic cell infiltration		<17> 6	<19> 3	<23> 3	<28> 3
	metastasis:subcutis tumor		0	0	1	0
	metastasis:peripheral nerve tumor		1	0	0	0
vagina	leukemic cell infiltration		<17> 5	<19>	<23> 3	<28> 3
< a > b	a : Number of animals examined at th b : Number of animals with lesion	e site				,

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

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

REPORT TYPE : A1

SEX : FEMALE

)rgan		Group Name No. of Animals on Study	Control 17	5 ppm 19	15 ppm 23	45 ppm 28
Reproductive	system}					
agina			<17>	<19>	<23>	<28>
	metastasis:uterus tumor		1	1	7	0
	metastasis:subcutis tumor		0	0	1	0
mmary gl			<17>	<19>	<23>	<28≻
	leukemic cell infiltration		3	4	4	3
	metastasis:uterus tumor		0	0	2	0
_						
Vervous syst	en}					
rain	leukemic cell infiltration		<17>	<19>	<23> 2	<28>
			·	•	_	•
	metastasis:peripheral nerve tumor		1	0	0	0
inal cord	leukemic cell infiltration		<17> 0	<19> 0	<23> 1	<28>
	10000000 0011 100110000000		v	·	•	·
Special sens	e organs/appendage}				•	
уе			<17>	<19>	⟨23⟩	<28>
	leukemic cell infiltration		0	2	2	0
	metastasis:uterus tumor		0	0	1	0
arder gl			<17>	<19>	<23>	<28>
	leukemic cell infiltration		3	0	2	2
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	0	1	0
(a)	a: Number of animals examined at the si	te				
b	b: Number of animals with lesion					

: MOUSE B6D2F1/Cr1j[Crj:BDF1]

ANIMAL REPORT TYPE : A1 HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

SEX : FEMALE

Group Name Control 15 ppm 45 ppm 5 ppm 28 No. of Animals on Study 17 Findings_ Organ____ {Musculoskeletal system} muscle <17> <19> <23> <28> leukemic cell infiltration 2 2 3 {Body cavities} mediastinum <17> <19> ⟨23⟩ <28> leukemic cell infiltration 3 1 2 1 <17> <19> <28> peritoneum ⟨23⟩ leukemic cell infiltration 0 1 metastasis:uterus tumor 0 0 1 0 retroperit <17> <19> <23> <28> leukemic cell infiltration 0 1 0 0 < a > a: Number of animals examined at the site b b: Number of animals with lesion (JPT150)

BAIS4

APPENDIX P 6

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR:

FEMALE: SACRIFICED ANIMALS

: FEMALE

ANIMAL

SEX

b: Number of animals with lesion

: MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

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

PAGE: 5

15 ppm 45 ppm Group Name Control 5 ppm 27 22 31 No. of Animals on Study Findings_ Organ_ {Integumentary system/appandage} <22> <33> <31> <27> skin/app metastasis:mammary gland tumor {Respiratory system} <22> <33> <31> <27> nasal cavit 0 leukemic cell infiltration 1 <22> <33> <31> <27> larynx 0 leukemic cell infiltration 1 (22) <33> ⟨31⟩ <27> lung leukemic cell infiltration 12 11 0 1 metastasis:uterus tumor 0 1 metastasis:ovary tumor {Hematopoietic system} ⟨33⟩ ⟨31⟩ <27> ⟨22⟩ bone marrow leukemic cell infiltration 8 4 <27> ⟨22⟩ <33> <31> lymph node leukemic cell infiltration 1 0 1 0 <27> ⟨22⟩ <33> <31> thymus leukemic cell infiltration 2 0 1 1 <33> ⟨31⟩ <27> <22> spleen leukemic cell infiltration 8 10 {Circulatory system} <22> <33> ⟨31⟩ <27> heart 3 1 3 leukemic cell infiltration < a > a: Number of animals examined at the site

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

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

REPORT TYPE : A1 SEX : FEMALE

•		Group Name No. of Animals on Study	Control 33	5 ppm 31	15 ppm 27	45 ppm 22
rgan	Findings	·				
Circulatory s	system)					
neart	metastasis:uterus tumor		<33> 0	<31> 1	<27> 0	<22> 0
{Digestive sys	stem}					
tongue	leukemic cell infiltration		<33> 1	<31> 2	<27> 0	<22> 0
salivary gl	leukemic cell infiltration		<33> 5	<31> 10	<27> 4	<22> 4
stomach	leukemic cell infiltration		<33> 6	<31> 1	<27> 0	<22> 0
small intes	leukemic cell infiltration		<33> 1	<31> 2	<27> 1	<22> 0
liver	leukemic cell infiltration		<33> 12	<31> 7	<27>	<22> 3
	metastasis:uterus tumor		1	2	1	2
gall bladd	leukemic cell infiltration		<33> 0	<31> 1	<27> 0	<22> - 0
pancreas	leukemic cell infiltration		<33> 4	<31> 0	<27> 0	<22> 2
{Urinary syst	em)					
kidney	leukemic cell infiltration		<33> 12	<31> 9	<27>	<22> 3
	metastasis:uterus tumor		1	0	1	1

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

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1] REPORT TYPE : A1

SEX : FEMALE

rgan		Group Name No. of Animals on Study	Control 33	5 ppm 31	15 ppm 27	45 ppm 22
				· · · · · · · · · · · · · · · · · · ·		
Urinary syst	em}					
rin bladd	leukemic cell infiltration		<33> 6	<31> 12	<27> 7	<22>
	metastasis:uterus tumor		1	0	0	0
Endocrine sy	rstem}					
ituitary	leukemic cell infiltration		<33> 0	<31> 2	<27> 0	<22> 0
nyroid	leukemic cell infiltration		<333> 2	<31> 0	<27> 0	<22> 0
arathyroid	leukemic cell infiltration		<33> 1	<31> 0	<27>	<22> 0
drenal	leukemic cell infiltration		<33> 2	<31> 2	<27> 0	<22> 0
Reproductive	e system)					
/ary	leukemic cell infiltration		<33> ·	<31> 3	<27> 3	<22> 0
	metastasis:uterus tumor		o	1	1	1
terus	leukemic cell infiltration		<33> 3	<31> 1	<27> 1	<22> 0
agina	leukemic cell infiltration		<33> 5	<31> 2	<27> 1	<22> 0
	metastasis:uterus tumor		0	.0	1	0
(a)	a: Number of animals examined at the sb: Number of animals with lesion	ite	<u>.</u>			

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

PAGE: 8

BAIS4

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : FEMALE

(JPT150)

		Group Name No. of Animals on Study	Control 33	5 ppm 31	15 ppm 27	45 ppm 22
rgan	Findings			· · · · · · · · · · · · · · · · · · ·		
Reproductive	system)					
agina	metastasis:subcutis tumor		<33> 0	<31> 0	<27> 1	<22> 0
ammary gl	leukemic cell infiltration		<33> 5	<31> 1	<27> 1	<22> 1
Nervous syst	sem)					
rain	leukemic cell infiltration		<33> 1	<31> 2	<27> 0	<22> 0
spinal cord	leukemic cell infiltration		<33> 1	<31> 1	<27> 0	<22> 0
(Special sens	se organs/appendage}					
arder gl	leukemic cell infiltration		<33> 4	<31> 2	<27> 1	<22> 0
(Musculoskele	etal system)					
uscle	leukemic cell infiltration		<33> 0	<31> 2	<27> 0	<22> 1
{Body cavitie	es}					
nediastinum	leukemic cell infiltration		<33> 1	<31> 1	<27> 0	<22> 0
(a >	a: Number of animals examined at the sb: Number of animals with lesion	site				

APPENDIX Q

METHODS, UNITS AND DECIMAL PLACE FOR
HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR
INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

METHODS, UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

Item	Method	Unit	Decimal
			place
Hematology			
Red blood cell (RBC)	Light scattering method 1)	$ imes 10^6$ / μ L	2
Hemoglobin(Hgb)	Cyanmethemoglobin method 1)	g/dL	1
Hematocrit(Hct)	Calculated as RBC×MCV/10 1)	%	1
Mean corpuscular volume(MCV)	Light scattering method 1)	fL	1
Mean corpuscular hemoglobin(MCH)	Calculated as Hgb/RBC $ imes$ 10 $^{1)}$	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as Hgb/Hct×100 1)	g/dL	1
Platelet	Light scattering method 1)	$ imes 10^3 / \mu$ L	0
White blood cell(WBC)	Light scattering method ¹⁾	$\times 10^{3}/ \mu L$ $\times 10^{3}/ \mu L$	$rac{0}{2}$
Differential WBC	Pattern recognition method ²⁾	% 10 ⁴ /μ L	0
Differential WBC	(Wright staining)	70	U
Biochemistry	(Wright staining)		
Total protein(TP)	Biuret method ³⁾	g/dL	1
Albumin (Alb)	BCG method 3)	g/dL g/dL	1
A/G ratio	Calculated as Alb/(TP-Alb) 3)	g/aL	1
T-bilirubin	Alkaline azobilirubin method ³⁾	/ JT	$\frac{1}{2}$
Glucose	GlcK·G-6-PDH method 3)	mg/dL 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.)