

プロピオノニトリ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：0515

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APPENDIX A 1

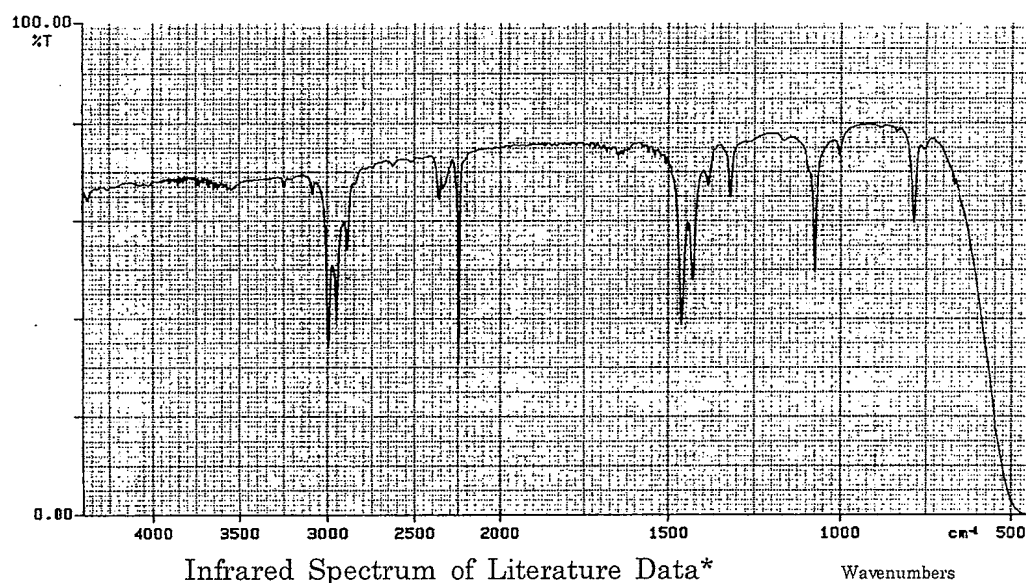
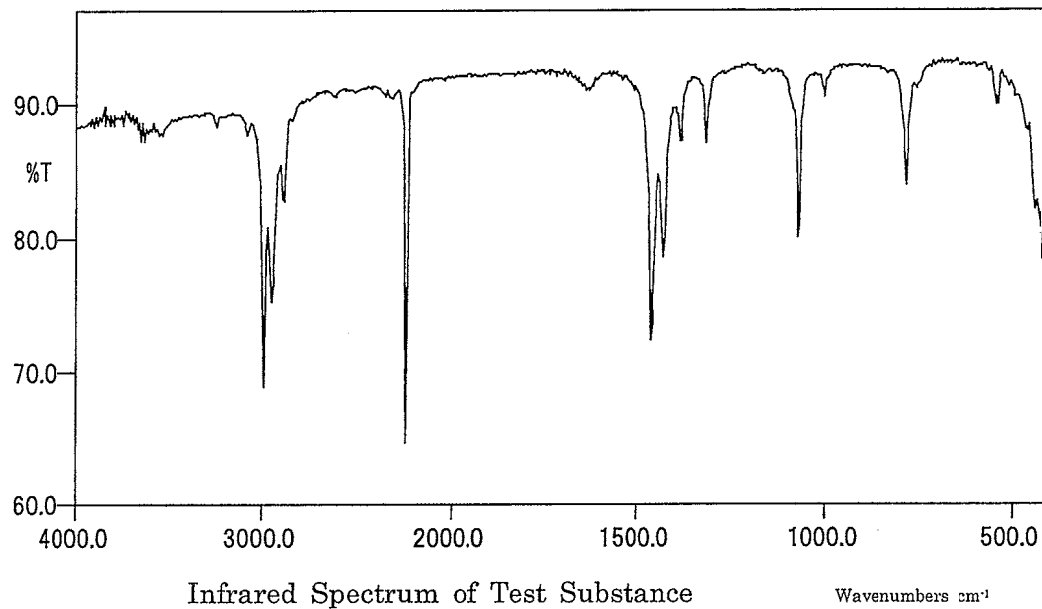
IDENTITY OF PROPIONONITRILE IN THE 2-YEAR INHALATION STUDY

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 propiononitrile by mass spectrum and infrared spectrum.

B. Lot No. : CEL7045

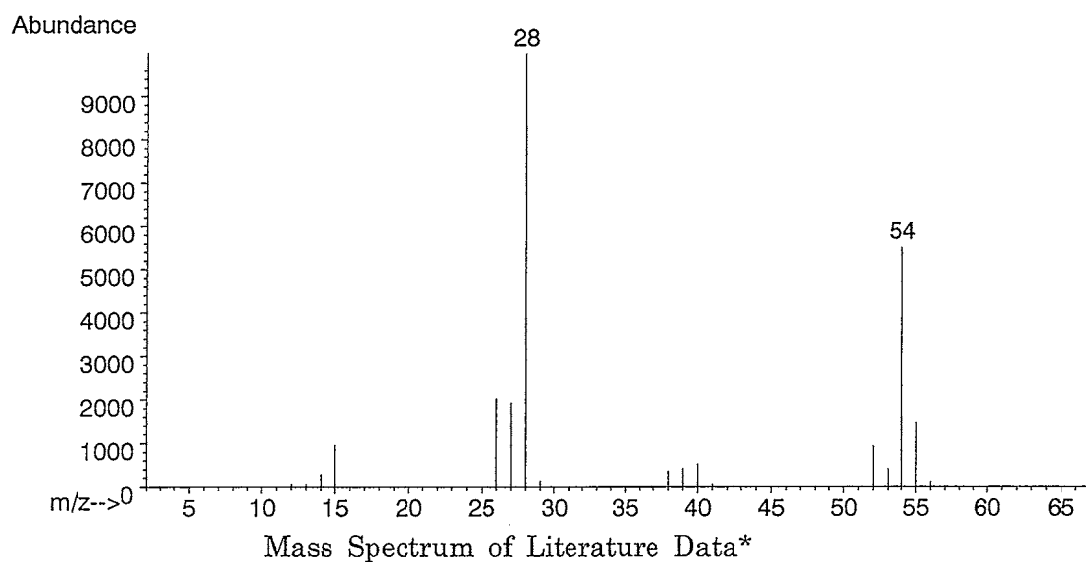
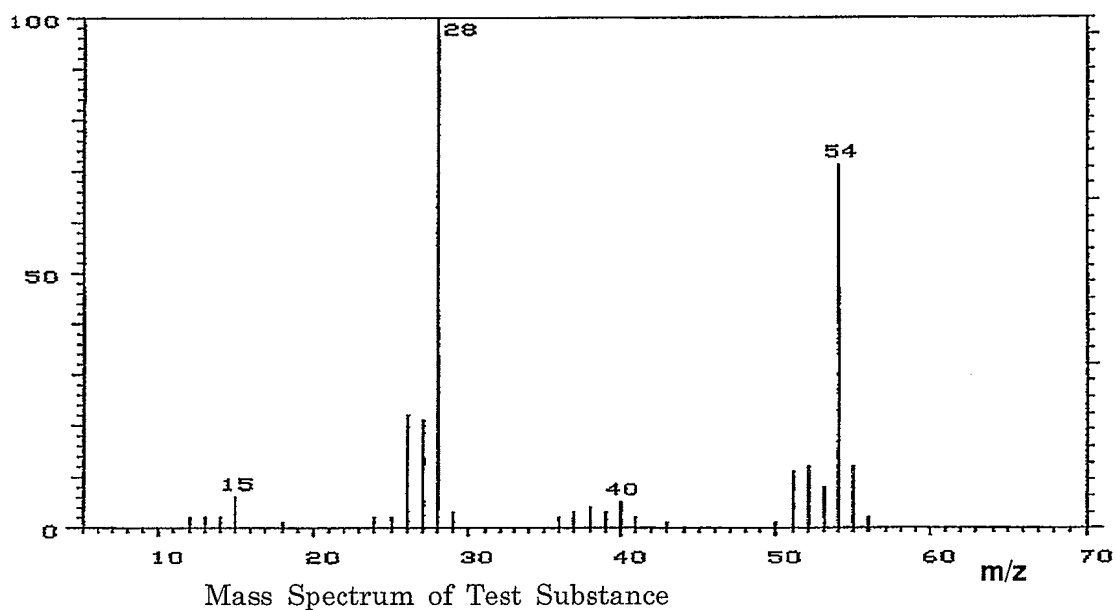
1. Spectral Data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



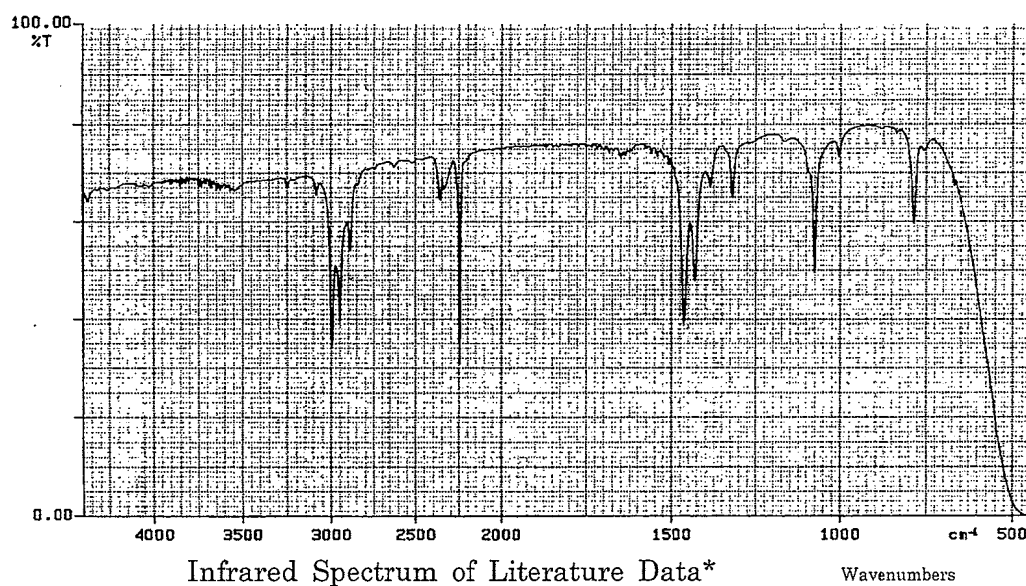
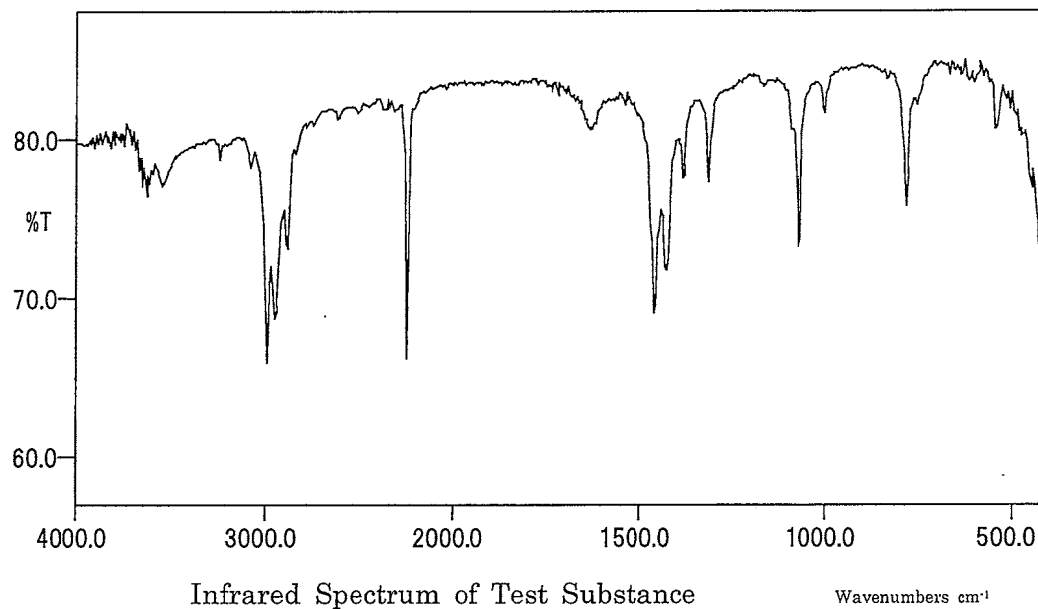
Result: The mass spectrum was consistent with literature spectrum.
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY : John Wiley and Sons.)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 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 propionitrile by mass spectrum and infrared spectrum.

C. Lot No. : SDM0881

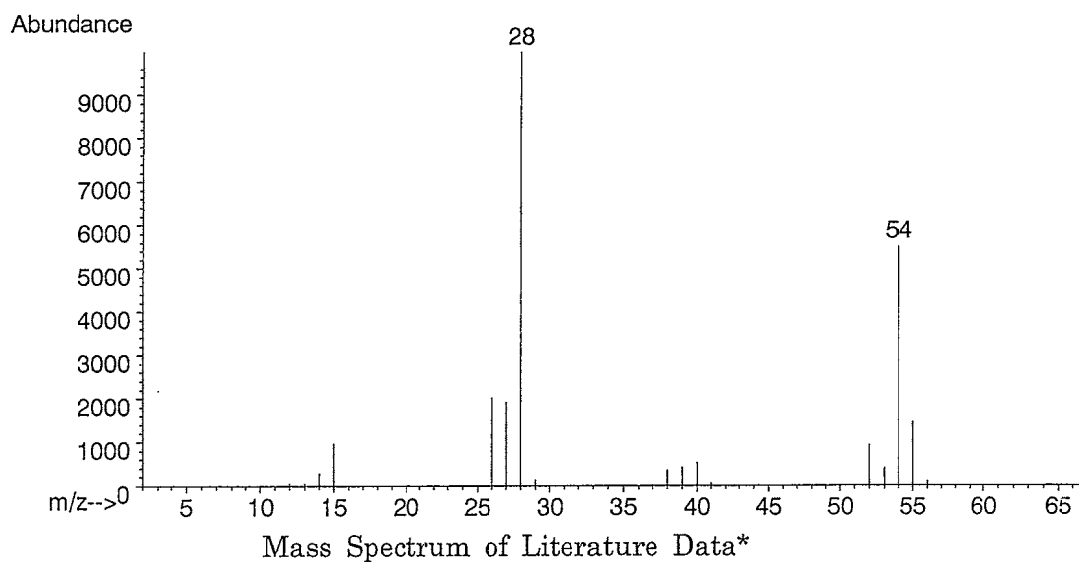
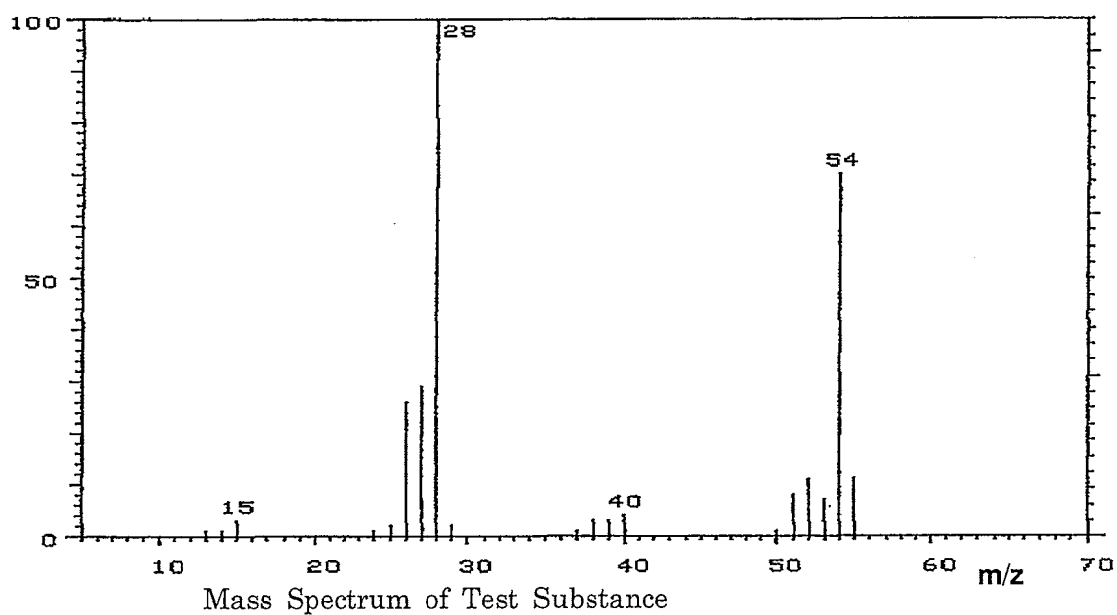
1. Spectral Data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



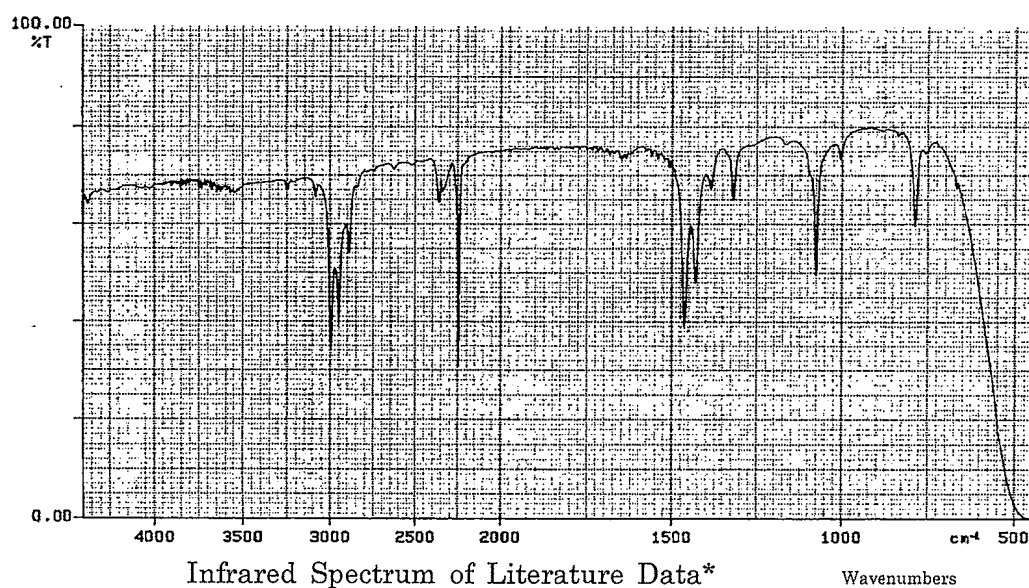
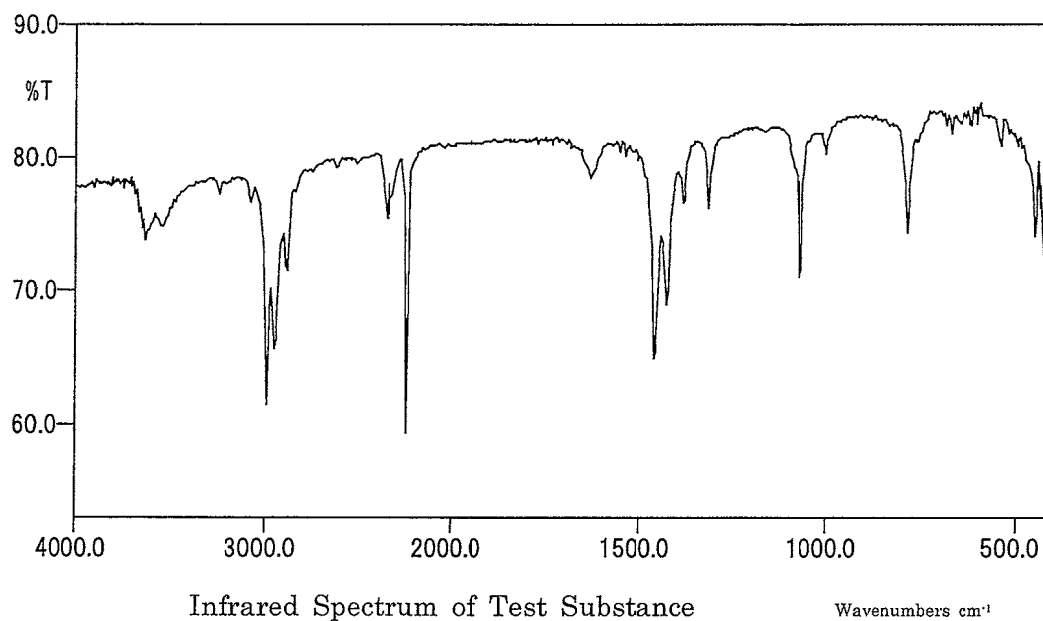
Result: The mass spectrum was consistent with literature spectrum.
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY : John Wiley and Sons.)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 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 propiononitrile by mass spectrum and infrared spectrum.

APPENDIX A 2

STABILITY OF PROPIONONITRILE IN THE 2-YEAR INHALATION STUDY

STABILITY OF PROPIONONITRILE IN THE 2-YEAR INHALATION STUDY

Test Substance : Propiononitrile (Wako Pure Chemical Industries, Ltd.)

A. Lot No. : PKK4727

1. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.53 mm ϕ \times 60 m)

Column Temperature : 80° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date Analyzed	Peak No. (min)	Retention Time (%)	Area
2003.10.27	1	3.781	100
2004.10.12	1	3.747	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2003.10.27 and one major peak (peak No.1) analyzed on 2004.10.12. No new trace impurity peak in the test substance analyzed on 2004.10.12 was detected.

2. Conclusion: The test substance was stable for the period that the test substance had been used for the study.

B. Lot No. : CEL7045

1. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.53 mm ϕ \times 60 m)

Column Temperature : 80° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date Analyzed	Peak No. (min)	Retention Time (%)	Area
2004.10.06	1	3.755	100
2005.07.13	1	3.785	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2004.10.6 and one major peak (peak No.1) analyzed on 2005.7.13. No new trace impurity peak in the test substance analyzed on 2005.7.13 was detected.

2. Conclusion: The test substance was stable for the period that the test substance had been used for the study.

C. Lot No. : SDM0881

1. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.53 mm ϕ \times 60 m)

Column Temperature : 80° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date Analyzed	Peak No. (min)	Retention Time (%)	Area
2005.07.08	1	3.767	100
2005.11.04	1	3.766	100

Result: Gas chromatography indicated one major peak (peak No.1) analyzed on 2005.7.8 and one major peak (peak No.1) analyzed on 2005.11.4. No new trace impurity peak in the test substance analyzed on 2005.11.4 was detected.

2. Conclusion: The test substance was stable for the period that the test substance had been used for the study.

APPENDIX B

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR
INHALATION STUDY OF PROPIONONITRILE

Group Name	Temperature (°C) Mean ± S.D.	Humidity (%) Mean ± S.D.	Ventilation Rate (L/min) Mean ± S.D.	Air Change (time/h) Mean
Control	23.0 ± 0.1	56.6 ± 1.2	741.2 ± 6.4	12.0
12.5 ppm	23.0 ± 0.1	55.3 ± 1.2	738.5 ± 6.3	12.0
25 ppm	23.0 ± 0.0	56.2 ± 1.2	741.3 ± 6.3	12.0
50 ppm	23.0 ± 0.0	55.4 ± 1.3	737.4 ± 6.2	12.0

APPENDIX C 1

CLINICAL OBSERVATION : MALE

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

PAGE : 1

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

PAGE : 2

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

PAGE : 3

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

PAGE : 4

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	7	7	8	9	9	10
	12.5 ppm	8	9	11	11	11	12
	25 ppm	10	11	12	13	13	13
	50 ppm	14	14	14	16	16	17
MORIBUND SACRIFICE	Control	4	4	4	4	4	5
	12.5 ppm	2	3	3	3	3	3
	25 ppm	3	3	3	3	3	3
	50 ppm	2	2	2	2	2	2
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	12.5 ppm	1	1	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	1	1	1	0	0	0
WASTING	Control	0	0	0	0	1	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	1	0	0	0
SOILED	Control	0	0	0	0	0	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
PILORECTION	Control	1	1	1	2	2	2
	12.5 ppm	3	2	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	1	1	1	0	0	0
TRAUMA	Control	0	0	1	1	2	2
	12.5 ppm	1	1	1	1	1	2
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 15

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
FROG BELLY	Control	4	4	4	4	4	4	4	4	4	4	4	5	5	5
	12.5 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	25 ppm	2	1	1	1	2	2	2	2	2	2	3	3	3	3
	50 ppm	1	1	1	2	1	1	1	3	3	3	3	4	3	2
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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	1	1	2	2	2
	12.5 ppm	1	2	2	2	2	2	1	2	2	2	2	2	2	2
	25 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50 ppm	1	1	2	3	3	3	3	3	3	3	4	4	4	4
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	1	2	2	2	2	2	2	2	2	2	2
EXTERNAL MASS	Control	1	1	1	1	1	1	1	0	1	1	1	0	0	0
	12.5 ppm	1	1	1	1	2	2	2	2	4	4	4	4	4	4
	25 ppm	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	50 ppm	0	0	0	0	0	1	1	1	0	1	1	1	1	1
INTERNAL MASS	Control	5	5	5	6	6	6	6	6	5	6	5	7	8	8
	12.5 ppm	2	2	2	3	3	3	1	1	1	1	1	2	2	2
	25 ppm	3	2	2	2	2	2	2	2	2	3	4	4	4	4
	50 ppm	7	6	6	7	7	6	6	6	5	4	5	5	4	4
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	2	2	2	2	2	2
	25 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
FROG BELLY	Control	5	5	5	5	6	6
	12.5 ppm	2	2	1	1	2	2
	25 ppm	2	2	1	1	1	1
	50 ppm	2	2	3	3	2	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	2	2	2	1	1	1
	12.5 ppm	2	2	2	2	2	2
	25 ppm	1	1	1	1	1	1
	50 ppm	4	4	4	3	3	3
GUM	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	2	2	2	1	1	1
EXTERNAL MASS	Control	0	0	0	0	1	1
	12.5 ppm	4	4	4	4	4	4
	25 ppm	2	2	2	2	2	2
	50 ppm	1	1	1	0	0	0
INTERNAL MASS	Control	8	6	6	7	8	7
	12.5 ppm	6	3	2	3	6	6
	25 ppm	3	3	1	1	1	2
	50 ppm	4	4	4	4	3	2
M. NOSE	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	1	1	1	1	1	1
	50 ppm	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0
	12.5 ppm	2	2	2	2	2	2
	25 ppm	1	1	1	1	1	1
	50 ppm	1	1	1	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 24

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. PERI-MOUTH	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

PAGE : 27

Clinical sign	Group Name	Administration Week-day						32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7														
REDDENING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	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	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	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	0	0	1
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	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	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0												

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Crj[Crlj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
REDDENING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	1	1	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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
REDDENING	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
EROSION	Control	2	2	2	3	3	2
	12.5 ppm	1	0	0	0	0	0
	25 ppm	1	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	12.5 ppm	2	2	2	2	2	2
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	1	1	1	1	1	0
	12.5 ppm	0	0	0	0	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	2	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	1	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	1	0	0	0

APPENDIX C 2

CLINICAL OBSERVATION : FEMALE

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Cxj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	4	5	6	8	8	8	8	9	9	9	9	13	13	15
	12.5 ppm	9	9	9	11	11	11	12	12	12	12	12	12	12	13
	25 ppm	9	10	11	11	11	11	11	11	11	11	11	11	13	14
	50 ppm	6	6	7	8	8	8	9	9	10	10	11	12	13	13
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	2	2	2	3	3	3	3	3
	12.5 ppm	2	2	2	2	2	2	2	2	3	3	3	3	4	6
	25 ppm	2	2	2	2	2	3	3	3	3	3	4	4	4	4
	50 ppm	0	0	0	0	0	1	2	2	2	2	2	2	2	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TREMOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
WASTING	Control	1	1	1	1	1	1	2	2	2	1	1	1	1	1
	12.5 ppm	1	2	1	1	1	1	1	1	3	3	2	2	2	1
	25 ppm	0	1	0	0	0	0	0	0	0	0	0	1	0	0
	50 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	1

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	15	15	17	18	19	19
	12.5 ppm	13	13	13	14	14	15
	25 ppm	15	17	17	18	19	19
	50 ppm	14	16	16	16	18	19
MORIBUND SACRIFICE	Control	3	3	3	3	3	3
	12.5 ppm	7	7	7	7	7	7
	25 ppm	4	4	4	4	5	5
	50 ppm	4	5	5	5	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	1	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
TREMOR	Control	0	0	0	0	0	0
	12.5 ppm	1	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
WASTING	Control	1	0	0	0	0	0
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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[illegible]

CLINICAL OBSERVATION (SUMMARY)
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[illegible]

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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Crj[Crl:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	1	1	0	0	0	0	0	0	0	2
	12.5 ppm	1	1	1	0	1	0	0	0	0	0	0	0	0	1
	25 ppm	0	0	0	0	0	1	1	3	1	2	2	3	3	4
	50 ppm	1	1	2	2	2	2	2	1	0	0	0	1	1	1
PROLAPSE OF ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50 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	1	1	1
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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	1
	12.5 ppm	0	0	0	0	0	0	0	0	1	1	1	2	2	2
	25 ppm	2	2	0	0	0	0	0	0	0	0	0	0	0	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	0	0	1	1	0	0	0	1	1	2	2	2
	12.5 ppm	1	3	3	3	3	1	1	1	1	2	2	1	2	3
	25 ppm	0	0	2	1	1	1	1	2	1	2	3	3	3	3
	50 ppm	3	3	2	2	3	2	2	1	0	0	2	2	2	2

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
SOILED	Control	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	1	1	0	0	0	1	0	0	0	1	1	1	0
	12.5 ppm	0	2	2	1	2	2	3	3	3	3	2	3	4	2
	25 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	1
	50 ppm	0	0	0	0	0	2	1	1	1	1	1	1	2	2
FROG BELLY	Control	2	1	1	0	0	0	2	1	1	1	3	1	1	1
	12.5 ppm	1	1	2	1	1	1	0	0	0	3	4	5	6	4
	25 ppm	2	2	2	2	2	1	1	1	1	4	3	3	3	3
	50 ppm	2	3	2	2	2	2	1	3	2	2	2	2	4	3
PROLAPSE OF ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12.5 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	1	1	2	2	2	2
	50 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
	12.5 ppm	0	0	0	0	1	1	1	1	1	1	0	1	1	2
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	2	2	2	2	2	3	3	3	2	2	2	2	2
	12.5 ppm	2	2	2	1	1	1	1	1	0	0	0	0	0	0
	25 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	0
	50 ppm	0	0	0	1	0	0	0	0	2	2	2	2	1	1
INTERNAL MASS	Control	2	1	1	1	1	2	2	3	4	7	7	4	4	3
	12.5 ppm	3	2	2	1	1	4	3	3	3	4	4	5	5	3
	25 ppm	1	1	1	1	1	0	0	0	1	2	2	4	4	5
	50 ppm	2	2	3	4	4	4	2	3	3	4	4	4	3	2

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
PILOERECTION	Control	0	1	0	0	1	1
	12.5 ppm	1	1	1	1	1	1
	25 ppm	0	1	1	0	1	1
	50 ppm	0	0	0	0	0	0
FROG BELLY	Control	2	3	4	3	3	3
	12.5 ppm	5	6	6	5	5	4
	25 ppm	2	2	2	2	1	1
	50 ppm	3	2	2	2	2	2
PROLAPSE OF ANUS	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	2	2	2	1	1	1
	50 ppm	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0
	12.5 ppm	1	0	0	0	1	0
	25 ppm	1	1	0	0	0	0
	50 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	2	2	2	1	1	1
	50 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2
	12.5 ppm	0	0	0	1	2	2
	25 ppm	0	0	0	0	0	0
	50 ppm	1	2	2	2	1	1
INTERNAL MASS	Control	4	4	3	3	3	3
	12.5 ppm	5	5	5	4	4	5
	25 ppm	4	2	2	2	1	1
	50 ppm	2	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	25 ppm	2	2	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	25 ppm	2	2	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	2	2	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. EYE	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	1	2	2	2	1	1
M. ABDOMEN	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	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	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	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	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	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	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	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	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	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	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. INTERSCAPULUM	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	1	1
M. HINDLIMB	Control	1	1	1	1	1	1
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	1	1	1
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	1	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	1
	12.5 ppm	1	1	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
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CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	1	1	0	0	0	0	0	0	0	0	0	0	2	2
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	2	2	0	0	0	0	0	0	0	0	0	0	0	0
	50 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
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	2	1	1	0	1	0	0	0
	12.5 ppm	0	0	1	0	0	0	0	1	1	1	1	1	1	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	2
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
TORTICOLLIS	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	1	1	1	1	1	0
IRREGULAR BREATHING	Control	0	1	0	0	0	0
	12.5 ppm	0	1	1	1	1	1
	25 ppm	2	0	1	0	1	1
	50 ppm	1	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	1	0	0	0	0	0
	50 ppm	1	0	0	0	0	0
SHALLOW BREATHING	Control	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0

APPENDIX D 1

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day						
	0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	23.2± 0.9	24.8± 1.1	25.8± 1.1	26.6± 1.3	27.4± 1.6	28.0± 1.5	28.5± 1.7
12.5 ppm	23.2± 0.9	24.6± 1.3	25.5± 1.8	26.3± 1.6	27.2± 1.7	27.6± 1.8	27.8± 2.0
25 ppm	23.2± 0.9	24.8± 1.1	25.9± 1.3	26.7± 1.5	27.1± 1.7	27.8± 1.7	28.3± 1.8
50 ppm	23.2± 0.9	24.6± 1.1	25.7± 1.0	26.5± 1.4	26.8± 1.7	27.5± 1.8	27.7± 2.1

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day						
	7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	28.9± 1.7	29.5± 1.8	30.1± 2.0	30.8± 1.9	31.2± 2.0	32.0± 2.1	32.5± 2.2
12.5 ppm	28.3± 2.2	28.9± 2.3	29.7± 2.6	30.3± 2.7	30.5± 2.9	31.5± 3.1	32.1± 3.1
25 ppm	28.6± 1.9	29.4± 2.1	30.1± 2.3	30.7± 2.4	31.1± 2.6	31.8± 2.7	32.3± 2.8
50 ppm	28.0± 1.9	28.6± 2.0	29.5± 2.2	30.0± 2.1	29.9± 2.2*	30.9± 2.5	31.4± 2.4

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day						
	17-7	21-7	25-7	29-7	33-7	37-7	41-7
Control	34.7± 2.5	36.6± 2.7	38.5± 3.0	40.0± 3.4	41.5± 3.8	42.8± 4.0	43.4± 4.2
12.5 ppm	34.4± 3.3	36.2± 3.7	38.0± 4.0	40.0± 4.5	41.0± 4.6	42.2± 5.0	43.4± 5.4
25 ppm	34.8± 3.2	36.5± 3.8	38.3± 4.2	39.9± 4.6	41.3± 4.9	42.7± 5.2	44.1± 5.3
50 ppm	33.7± 2.8	36.1± 2.8	37.6± 3.1	39.1± 3.5	40.6± 3.6	41.8± 3.7	43.2± 4.0

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day		53-7	57-7	58-7	62-7	66-7
	45-7	49-7					
Control	44.2± 5.0	45.4± 4.4	45.8± 4.3	46.4± 4.4	46.6± 4.5	47.0± 5.0	47.6± 5.0
12.5 ppm	44.5± 5.5	45.5± 5.3	46.3± 5.2	46.7± 5.2	46.8± 5.3	47.4± 5.6	48.3± 5.7
25 ppm	45.1± 5.6	46.0± 5.7	46.8± 5.7	46.9± 5.8	47.0± 5.9	48.0± 6.0	48.4± 5.9
50 ppm	44.0± 4.5	45.4± 4.0	45.7± 3.9	45.8± 4.1	45.9± 4.2	46.5± 4.7	47.2± 4.7
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week-day						
	70-7	74-7	78-7	82-7	86-7	90-7	94-7
Control	48.0± 5.0	48.8± 5.7	49.6± 5.6	49.6± 6.0	49.6± 7.0	49.5± 7.1	50.0± 6.0
12.5 ppm	48.8± 6.0	49.9± 5.9	50.6± 5.9	50.6± 5.6	50.7± 6.9	51.5± 6.2	51.4± 6.7
25 ppm	48.3± 6.0	48.7± 6.5	49.7± 6.8	50.1± 6.9	50.1± 7.5	49.9± 7.6	49.6± 7.7
50 ppm	47.5± 5.0	48.2± 4.9	49.2± 4.8	49.1± 5.2	49.0± 5.5	48.3± 6.5	48.1± 7.3
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day		
	98-7	102-7	104-7
Control	48.9± 7.2	47.7± 8.0	47.3± 8.1
12.5 ppm	49.8± 8.0	50.4± 7.3	49.9± 7.8
25 ppm	49.7± 7.4	49.0± 7.3	48.6± 7.3
50 ppm	48.4± 7.3	48.2± 6.4	48.0± 6.7
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			

(HAN260)

BAIS 4

APPENDIX D 2

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 7

Group Name	Administration week-day						
	0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	19.1± 0.8	20.2± 0.9	21.2± 0.9	21.6± 1.1	22.4± 1.1	22.7± 1.2	23.2± 1.1
12.5 ppm	19.1± 0.8	20.1± 0.9	20.9± 0.9	21.1± 0.9	21.9± 1.1	22.3± 1.1	22.8± 1.1
25 ppm	19.1± 0.8	20.1± 0.9	20.9± 0.8	21.4± 0.8	21.9± 1.0	22.5± 1.0	22.8± 1.0
50 ppm	19.1± 0.8	20.1± 1.0	20.9± 0.9	21.5± 1.1	21.9± 1.1*	22.6± 1.0	22.9± 1.1

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day						
	7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	23.7± 1.3	24.0± 1.2	24.0± 1.2	24.0± 1.2	24.5± 1.4	25.1± 1.3	25.1± 1.4
12.5 ppm	23.2± 1.2	23.4± 1.2	23.8± 1.0	23.9± 1.2	24.1± 1.2	24.5± 1.4	25.0± 1.6
25 ppm	23.4± 1.1	23.9± 1.1	24.1± 1.5	24.2± 1.3	24.4± 1.1	25.0± 1.6	25.2± 1.5
50 ppm	23.0± 1.0**	23.5± 1.4	24.0± 1.2	24.1± 1.3	23.8± 1.1*	24.6± 1.2	24.8± 1.4
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day						
	17-7	21-7	25-7	29-7	33-7	37-7	41-7
Control	26.2± 1.5	27.1± 1.7	28.1± 2.1	29.0± 2.5	29.2± 2.7	29.8± 2.6	30.1± 2.9
12.5 ppm	26.4± 1.8	27.1± 2.1	27.8± 2.2	28.9± 2.7	29.1± 2.7	29.9± 3.1	30.1± 3.2
25 ppm	26.1± 1.5	27.6± 1.9	28.4± 2.4	29.3± 2.6	29.5± 2.8	30.0± 3.1	30.8± 3.2
50 ppm	25.9± 1.5	27.0± 1.8	27.5± 2.0	28.6± 2.2	28.9± 2.4	29.3± 2.3	30.2± 2.7
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	33.0±	3.6	33.5±	3.7	34.4±	3.8	34.3±	4.3	34.6±	4.4	33.9±	4.5
12.5 ppm	32.5±	4.3	33.1±	4.6	33.7±	5.1	33.3±	4.9	33.7±	4.7	33.3±	4.9
25 ppm	34.0±	5.0	33.7±	4.3	35.0±	5.3	34.8±	4.4	34.8±	4.4	34.8±	4.3
50 ppm	32.0±	3.4	32.8±	3.8	33.6±	3.7	33.4±	3.7	33.8±	3.8	33.7±	4.6
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett												

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day		
	98-7	102-7	104-7
Control	34.0± 4.4	35.3± 4.2	35.4± 4.7
12.5 ppm	33.5± 5.4	35.1± 5.6	34.4± 5.2
25 ppm	34.9± 4.1	34.8± 3.5	34.0± 3.9
50 ppm	33.8± 4.9	34.3± 4.1	35.0± 4.6
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			

(HAN260)

BAIS 4

APPENDIX E 1

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7(6)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	4.1± 0.3	4.1± 0.3	4.1± 0.3	4.2± 0.4	4.2± 0.3	4.3± 0.3	4.3± 0.3
12.5 ppm	4.1± 0.4	4.0± 0.5	4.1± 0.3	4.3± 0.4	4.2± 0.4	4.3± 0.4	4.4± 0.4
25 ppm	4.2± 0.3	4.2± 0.3	4.3± 0.6	4.2± 0.5	4.2± 0.4	4.3± 0.4	4.3± 0.4
50 ppm	4.2± 0.4	4.1± 0.4	4.1± 0.4	4.2± 0.4	4.2± 0.5	4.2± 0.5	4.3± 0.5

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	17-7(7)
Control	4.4± 0.4	4.4± 0.4	4.4± 0.3	4.5± 0.3	4.5± 0.3	4.5± 0.3	4.5± 0.3
12.5 ppm	4.5± 0.4	4.5± 0.4	4.6± 0.4	4.5± 0.3	4.6± 0.3	4.5± 0.3	4.6± 0.3
25 ppm	4.4± 0.4	4.4± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.3
50 ppm	4.4± 0.4	4.5± 0.4	4.4± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	21-7(7)	25-7(7)	29-7(7)	33-7(7)	37-7(7)	41-7(7)	45-7(7)
Control	4.5± 0.3	4.5± 0.2	4.6± 0.3	4.7± 0.3	4.7± 0.3	4.7± 0.4	4.7± 0.4
12.5 ppm	4.6± 0.3	4.6± 0.3	4.8± 0.4	4.8± 0.4	4.9± 0.3	4.8± 0.4	4.8± 0.4
25 ppm	4.5± 0.4	4.6± 0.4	4.7± 0.4	4.8± 0.4	4.8± 0.4	4.8± 0.3	4.8± 0.4
50 ppm	4.6± 0.3	4.6± 0.3	4.7± 0.3	4.8± 0.3	4.9± 0.3	4.8± 0.3	4.8± 0.7

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)						
	49-7(7)	53-7(7)	57-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	4.8± 0.4	4.8± 0.3	4.8± 0.4	4.9± 0.3	5.0± 0.5	5.0± 0.3	5.1± 0.3
12.5 ppm	4.9± 0.4	4.9± 0.3	4.9± 0.3	4.9± 0.4	5.0± 0.4	5.0± 0.3	5.1± 0.4
25 ppm	4.8± 0.4	4.9± 0.4	4.9± 0.4	4.9± 0.4	5.0± 0.4	5.0± 0.4	5.1± 0.5
50 ppm	4.8± 0.3	4.8± 0.3	4.9± 0.3	4.9± 0.3	4.9± 0.4	5.0± 0.4	5.1± 0.4
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group 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	5.2± 0.4	5.1± 0.4	5.2± 0.6	5.1± 0.5	5.1± 0.5	5.0± 0.5	4.9± 0.6
12.5 ppm	5.2± 0.4	5.1± 0.4	5.2± 0.5	5.1± 0.7	5.4± 0.5	5.1± 0.6	4.9± 1.0
25 ppm	5.3± 0.5	5.1± 0.6	5.2± 0.7	5.3± 0.5	5.3± 0.4	5.2± 0.5	5.1± 0.4
50 ppm	5.2± 0.6	5.1± 0.4	5.2± 0.5	5.2± 0.4	5.2± 0.6	5.2± 0.6	5.1± 0.6

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

(HAN260)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	5.0± 0.7	4.9± 0.7
12.5 ppm	5.2± 0.5	5.2± 0.5
25 ppm	5.1± 0.7	5.1± 0.6
50 ppm	5.1± 0.5	5.2± 0.5
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS 4

APPENDIX E 2

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration 1-7(6)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.5± 0.2	3.5± 0.2	3.6± 0.2	3.8± 0.2	3.8± 0.3	3.9± 0.3	4.1± 0.3
12.5 ppm	3.6± 0.2	3.5± 0.1	3.6± 0.2	3.9± 0.2*	3.9± 0.2	4.0± 0.3	4.2± 0.3
25 ppm	3.5± 0.2	3.5± 0.2	3.6± 0.3	3.8± 0.2	3.8± 0.2	4.1± 0.7	4.1± 0.3
50 ppm	3.6± 0.9	3.5± 0.2	3.6± 0.2	3.8± 0.2	3.8± 0.2	3.9± 0.2	4.0± 0.3

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	17-7(7)
Control	4.2± 0.3	4.2± 0.7	4.2± 0.3	4.2± 0.3	4.3± 0.3	4.2± 0.3	4.2± 0.3
12.5 ppm	4.3± 0.3	4.2± 0.2	4.3± 0.3	4.3± 0.3	4.3± 0.3	4.2± 0.3	4.4± 0.3*
25 ppm	4.1± 0.3	4.1± 0.3	4.2± 0.3	4.2± 0.3	4.2± 0.3	4.1± 0.3	4.3± 0.3
50 ppm	4.2± 0.3	4.2± 0.2	4.1± 0.3	4.2± 0.2	4.2± 0.2	4.2± 0.3	4.2± 0.2

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)						
	21-7(7)	25-7(7)	29-7(7)	33-7(7)	37-7(7)	41-7(7)	45-7(7)
Control	4.3± 0.4	4.4± 0.3	4.6± 0.4	4.5± 0.4	4.5± 0.4	4.4± 0.5	4.6± 0.4
12.5 ppm	4.4± 0.3	4.4± 0.4	4.6± 0.4	4.6± 0.4	4.7± 0.5	4.5± 0.5	4.7± 0.4
25 ppm	4.3± 0.3	4.3± 0.3	4.5± 0.4	4.6± 0.4	4.6± 0.4	4.5± 0.5	4.6± 0.4
50 ppm	4.3± 0.3	4.3± 0.4	4.5± 0.4	4.6± 0.4	4.6± 0.4	4.5± 0.4	4.4± 0.4

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	49-7(7)	53-7(7)	57-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	4.5± 0.4	4.4± 0.4	4.5± 0.3	4.4± 0.4	4.5± 0.5	4.6± 0.4	4.6± 0.5
12.5 ppm	4.5± 0.4	4.5± 0.4	4.4± 0.4	4.4± 0.4	4.5± 0.4	4.5± 0.5	4.6± 0.4
25 ppm	4.5± 0.4	4.4± 0.5	4.4± 0.4	4.3± 0.4	4.6± 0.4	4.5± 0.5	4.7± 0.5
50 ppm	4.5± 0.4	4.4± 0.3	4.4± 0.4	4.4± 0.4	4.5± 0.4	4.6± 0.4	4.5± 0.4
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day(effective)						
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	4.7± 0.5	4.6± 0.5	4.7± 0.7	4.7± 0.5	4.6± 0.7	4.6± 0.6	4.6± 0.6
12.5 ppm	4.6± 0.5	4.4± 0.7	4.5± 0.9	4.7± 0.6	4.8± 0.5	4.8± 0.6	4.6± 0.5
25 ppm	4.8± 0.5	4.6± 0.5	4.8± 0.6	4.6± 0.6	4.7± 0.5	4.8± 0.7	4.5± 0.7
50 ppm	4.7± 0.5	4.6± 0.5	4.6± 0.4	4.7± 0.5	4.8± 0.4	4.8± 0.6	4.7± 0.6

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	4.8± 0.5	4.9± 0.7
12.5 ppm	5.0± 0.7	4.9± 0.7
25 ppm	5.0± 0.7	4.7± 0.6
50 ppm	4.8± 0.7	4.9± 0.5
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS 4

APPENDIX F 1

HEMATOLOGY : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	33	9.04±	1.33	12.8±	1.9	41.7±	5.4	46.4±	2.6	14.1±	0.6	30.5±	1.2	1562±	463
12.5 ppm	35	9.53±	1.00	13.6±	1.5	43.6±	4.7	45.8±	1.8	14.2±	0.5	31.1±	0.6	1626±	230
25 ppm	34	9.28±	1.34	13.2±	1.6	42.9±	4.4	46.7±	3.8	14.3±	0.7	30.7±	1.1	1587±	457
50 ppm	29	9.55±	0.76	13.5±	1.1	43.8±	2.8	45.9±	1.7	14.2±	0.5	30.9±	0.8	1635±	256

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %
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Control	33	3.4± 2.2
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12.5 ppm	35	2.4± 1.0
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25 ppm	34	3.5± 4.4
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50 ppm	29	2.8± 2.1
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Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	33	6.27±	9.44	1±	3	33±	17	2±	2	0±	0	3±	2	56±	17	5±	15
12.5 ppm	35	4.39±	2.49	1±	1	31±	14	3±	6	0±	0	4±	2	60±	17	1±	2
25 ppm	34	3.39±	1.71	1±	1	30±	12	2±	1	0±	0	4±	2	62±	13	2±	5
50 ppm	29	3.71±	1.69	1±	1	27±	11	2±	1	0±	0	4±	2	66±	11	1±	2

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

APPENDIX F 2

HEMATOLOGY : FEMALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 1 O ⁶ /μℓ		HEMOGLOBIN g/dℓ		HEMATOCRIT %		MCV f ℓ		MCH p g		MCHC g/dℓ		PLATELET 1 O ³ /μℓ	
Control	26	9.30±	1.89	13.2±	2.5	42.5±	6.9	46.3±	4.0	14.3±	0.7	31.0±	1.4	1026±	368
12.5 ppm	27	9.05±	1.59	12.7±	2.3	41.0±	6.6	45.4±	2.9	13.9±	0.7	30.7±	1.1	989±	279
25 ppm	24	9.76±	0.71	13.9±	0.9	44.2±	2.6	45.4±	1.8	14.2±	0.4	31.4±	0.6	951±	256
50 ppm	25	9.14±	1.44	13.2±	2.0	42.4±	5.5	46.9±	3.7	14.5±	0.6	31.0±	1.6	999±	336

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0515

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	26	4.6±	5.5
12.5 ppm	27	3.9±	3.6
25 ppm	24	2.5±	0.7
50 ppm	25	5.0±	6.6**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	WBC 1 O ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	26	4.36±	3.73	1±	2	26±	11	2±	2	0±	0	4±	2	63±	18	5±	12
12.5 ppm	27	4.84±	3.47	1±	1	31±	18	1±	1	0±	0	3±	2	57±	20	7±	12
25 ppm	24	3.08±	1.92	1±	1	20±	9	2±	1	0±	0	4±	3	67±	11	6±	10
50 ppm	25	10.12±	20.46	1±	1	22±	12	2±	2	0±	0	4±	2	58±	19	13±	25

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

APPENDIX G 1

BIOCHEMISTRY : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	33	5.0±	0.6	2.5±	0.4	1.1±	0.2	0.13±	0.03	167±	44	100±	32	43±	24
12.5 ppm	34	5.1±	0.3	2.6±	0.1	1.1±	0.1	0.12±	0.01	171±	38	99±	15	42±	16
25 ppm	34	5.1±	0.6	2.6±	0.4	1.1±	0.2	0.14±	0.04	177±	30	105±	45	50±	27
50 ppm	30	5.2±	0.5	2.6±	0.3	1.0±	0.2	0.13±	0.01	185±	34	113±	32	52±	25

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	33	174±	53	104±	116	68±	123	367±	250	130±	52	1±	1	85±	106
12.5 ppm	34	177±	26	68±	22	31±	22	294±	148	140±	48	1±	1	58±	26
25 ppm	34	188±	65	103±	147	57±	100	400±	450	131±	44	1±	1	61±	36
50 ppm	30	193±	44	166±	516	73±	164	397±	598	148±	47	1±	1	65±	47

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	33	28.0±	19.6	154±	3	4.3±	0.5	123±	4	8.8±	0.5	6.3±	1.0
12.5 ppm	34	23.7±	12.2	154±	2	4.3±	0.4	122±	3	8.8±	0.3	6.2±	0.9
25 ppm	34	22.9±	2.8	153±	2	4.4±	0.4	122±	2	8.7±	0.4	6.2±	0.8
50 ppm	30	21.3±	5.2	153±	1	4.3±	0.3	122±	2	8.9±	0.5	6.0±	0.8

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX G 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g /dl		ALBUMIN g /dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	27	5.2±	0.8	2.7±	0.4	1.1±	0.3	0.15±	0.07	122±	43	86±	39	31±	23
12.5 ppm	27	5.1±	0.8	2.6±	0.3	1.1±	0.3	0.13±	0.02	120±	36	78±	28	50±	46
25 ppm	24	5.1±	0.4	2.7±	0.2	1.2±	0.2	0.13±	0.03	138±	30	77±	36	38±	22
50 ppm	25	5.2±	1.0	2.7±	0.3	1.1±	0.3	0.14±	0.03	131±	30	73±	22	46±	34

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0515

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	27	146±	63	157±	129	67±	58	770±	1203	199±	94	2±	2	134±	156
12.5 ppm	27	144±	54	148±	162	48±	25	560±	783	209±	148	1±	1	188±	369
25 ppm	24	142±	55	226±	641	105±	333	421±	677	176±	65	1±	1	71±	36
50 ppm	25	133±	32	139±	96	57±	45	497±	438	204±	79	1±	1	85±	43

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	27	27.7±	45.6	152±	3	4.3±	0.8	122±	4	9.0±	0.5	6.4±	2.5
12.5 ppm	27	20.3±	13.9	153±	3	4.0±	0.4	122±	3	9.1±	0.5	6.5±	1.2
25 ppm	24	15.6±	2.5	152±	2	4.0±	0.5	122±	2	8.9±	0.5	6.0±	1.7
50 ppm	25	17.7±	7.5	152±	2	4.1±	0.3	122±	2	9.1±	0.7	6.1±	0.7

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX H 1

URINALYSIS : MALE

STUDY NO. : 0515

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	
Control	37	0	7	6	11	7	5	1		0	14	19	4	0	0		37	0	0	0	0	0		24	9	4	0	0	0		35	0	0	1	1	
12.5 ppm	36	0	4	4	11	13	3	1		0	14	18	3	1	0		36	0	0	0	0	0		23	7	6	0	0	0		33	0	0	2	1	
25 ppm	34	0	2	8	12	8	3	1		0	14	16	4	0	0		34	0	0	0	0	0		18	8	8	0	0	0		32	0	2	0	0	
50 ppm	32	0	3	7	7	8	7	0		0	11	15	6	0	0		32	0	0	0	0	0		18	8	6	0	0	0		29	1	0	2	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0515

URINALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	37	37	0	0	0	0	0
12.5 ppm	36	36	0	0	0	0	0
25 ppm	34	34	0	0	0	0	0
50 ppm	32	32	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BATS 4

APPENDIX H 2

URINALYSIS : FEMALE

STUDY NO. : 0515

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH_____								CHI	Protein_____						CHI	Glucose_____						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5	—		±	+	2+	3+	4+	—		±	+	2+	3+	4+	—		±	+	2+	3+	4+	—		±	+	2+	3+		
Control	28	0	1	1	2	14	8	2		0	10	11	4	3	0		28	0	0	0	0	0		13	13	2	0	0	0		25	0	0	1	2		
12.5 ppm	29	0	2	1	6	8	10	2		0	12	10	5	2	0		29	0	0	0	0	0		12	13	4	0	0	0		25	1	0	0	3		
25 ppm	26	0	1	1	1	4	19	0	*	0	7	11	8	0	0		26	0	0	0	0	0		9	17	0	0	0	0		23	0	0	0	3		
50 ppm	27	0	2	4	2	1	16	2	**	0	5	13	8	1	0		27	0	0	0	0	0		6	17	3	1	0	0		26	0	0	1	0		

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0515

URINALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	28	28	0	0	0	0	0
12.5 ppm	29	29	0	0	0	0	0
25 ppm	26	26	0	0	0	0	0
50 ppm	27	27	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 4

APPENDIX I 1

GROSS FINDINGS : MALE

ALL ANIMALS

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		1	(2)	0	(0)	1	(2)	0	(0)
	erosion		3	(6)	4	(8)	1	(2)	0	(0)
	scab		1	(2)	2	(4)	0	(0)	2	(4)
subcutis	edema		0	(0)	2	(4)	2	(4)	0	(0)
	mass		1	(2)	3	(6)	3	(6)	2	(4)
lung	white zone		1	(2)	0	(0)	0	(0)	1	(2)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		10	(20)	11	(22)	8	(16)	10	(20)
lymph node	enlarged		5	(10)	7	(14)	5	(10)	4	(8)
spleen	enlarged		2	(4)	3	(6)	6	(12)	1	(2)
	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	black zone		0	(0)	2	(4)	0	(0)	1	(2)
	nodule		2	(4)	1	(2)	1	(2)	2	(4)
heart	white zone		1	(2)	0	(0)	0	(0)	0	(0)
salivary gl	nodule		3	(6)	0	(0)	0	(0)	0	(0)
forestomach	nodule		0	(0)	1	(2)	0	(0)	0	(0)
gl stomach	erosion		0	(0)	1	(2)	0	(0)	0	(0)
stomach	red zone		0	(0)	0	(0)	0	(0)	1	(2)
small intes	nodule		2	(4)	1	(2)	0	(0)	0	(0)
liver	enlarged		0	(0)	1	(2)	1	(2)	0	(0)
	pale		1	(2)	0	(0)	0	(0)	0	(0)
	white zone		3	(6)	3	(6)	5	(10)	3	(6)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	red zone		2	(4)	1	(2)	2	(4)	2	(4)
	nodule		15	(30)	11	(22)	20	(40)	22	(44)
	cyst		2	(4)	0	(0)	1	(2)	0	(0)
	nodular		0	(0)	1	(2)	0	(0)	0	(0)
pancreas	nodule		1	(2)	0	(0)	1	(2)	0	(0)
kidney	enlarged		1	(2)	1	(2)	0	(0)	0	(0)
	atrophic		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	hydronephrosis		10	(20)	10	(20)	6	(12)	9	(18)
urin bladd	white		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	0	(0)
	urine:marked retention		2	(4)	4	(8)	2	(4)	1	(2)
urethra	dilated		0	(0)	1	(2)	0	(0)	0	(0)
pituitary	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
	red		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		1	(2)	1	(2)	0	(0)	0	(0)
adrenal	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
testis	white		1	(2)	0	(0)	0	(0)	0	(0)
epididymis	nodule		5	(10)	1	(2)	3	(6)	1	(2)
	adhesion		0	(0)	0	(0)	1	(2)	0	(0)
prostate	nodule		0	(0)	1	(2)	0	(0)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	0	(0)	2	(4)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
eye	turbid		0	(0)	0	(0)	0	(0)	2	(4)
Harder gl	enlarged		2	(4)	2	(4)	1	(2)	4	(8)
muscle	nodule		1	(2)	0	(0)	0	(0)	0	(0)
bone	nodule		1	(2)	0	(0)	0	(0)	0	(0)
pleura	nodule		1	(2)	0	(0)	0	(0)	0	(0)
mediastinum	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	mass		0	(0)	0	(0)	0	(0)	1	(2)
peritoneum	mass		0	(0)	0	(0)	1	(2)	0	(0)
retroperit	mass		1	(2)	1	(2)	0	(0)	1	(2)
abdominal c	hemorrhage		0	(0)	0	(0)	1	(2)	0	(0)
	ascites		3	(6)	4	(8)	6	(12)	6	(12)
mesenterium	nodule		1	(2)	0	(0)	0	(0)	0	(0)
thoracic ca	pleural fluid		3	(6)	2	(4)	2	(4)	4	(8)
other	ear:nodule		0	(0)	1	(2)	0	(0)	0	(0)

(HPT080)

BAIS 4

APPENDIX I 2

GROSS FINDINGS : MALE DEAD AND MORIBUND ANIMALS

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	12.5 ppm	25 ppm	50 ppm
			15 (%)	15 (%)	16 (%)	19 (%)
skin/app	nodule		1 (7)	0 (0)	0 (0)	0 (0)
	erosion		1 (7)	2 (13)	1 (6)	0 (0)
	scab		0 (0)	0 (0)	0 (0)	2 (11)
subcutis	edema		0 (0)	2 (13)	2 (13)	0 (0)
	mass		0 (0)	2 (13)	3 (19)	1 (5)
lung	red zone		0 (0)	0 (0)	0 (0)	1 (5)
	nodule		4 (27)	1 (7)	3 (19)	2 (11)
lymph node	enlarged		1 (7)	2 (13)	2 (13)	3 (16)
spleen	enlarged		0 (0)	2 (13)	5 (31)	1 (5)
	black zone		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		0 (0)	1 (7)	0 (0)	1 (5)
salivary gl	nodule		1 (7)	0 (0)	0 (0)	0 (0)
stomach	red zone		0 (0)	0 (0)	0 (0)	1 (5)
small intes	nodule		1 (7)	1 (7)	0 (0)	0 (0)
liver	enlarged		0 (0)	1 (7)	1 (6)	0 (0)
	pale		1 (7)	0 (0)	0 (0)	0 (0)
	white zone		1 (7)	2 (13)	1 (6)	2 (11)
	red zone		1 (7)	1 (7)	0 (0)	1 (5)
	nodule		4 (27)	4 (27)	8 (50)	7 (37)
	cyst		0 (0)	0 (0)	1 (6)	0 (0)
	nodular		0 (0)	1 (7)	0 (0)	0 (0)
pancreas	nodule		0 (0)	0 (0)	1 (6)	0 (0)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	12.5 ppm	25 ppm	50 ppm
			15 (%)	15 (%)	16 (%)	19 (%)
kidney	enlarged		0 (0)	1 (7)	0 (0)	0 (0)
	white zone		0 (0)	0 (0)	1 (6)	0 (0)
	hydronephrosis		4 (27)	5 (33)	5 (31)	6 (32)
urin bladd	nodule		0 (0)	0 (0)	1 (6)	0 (0)
	urine:marked retention		1 (7)	4 (27)	2 (13)	1 (5)
pituitary	red		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (7)	0 (0)	0 (0)	0 (0)
adrenal	enlarged		1 (7)	0 (0)	0 (0)	0 (0)
epididymis	nodule		2 (13)	0 (0)	1 (6)	1 (5)
periph nerv	nodule		0 (0)	0 (0)	0 (0)	2 (11)
eye	turbid		0 (0)	0 (0)	0 (0)	1 (5)
Harder gl	enlarged		1 (7)	0 (0)	0 (0)	1 (5)
bone	nodule		1 (7)	0 (0)	0 (0)	0 (0)
pleura	nodule		1 (7)	0 (0)	0 (0)	0 (0)
mediastinum	nodule		1 (7)	0 (0)	0 (0)	0 (0)
	mass		0 (0)	0 (0)	0 (0)	1 (5)
retroperit	mass		1 (7)	1 (7)	0 (0)	0 (0)
abdominal c	hemorrhage		0 (0)	0 (0)	1 (6)	0 (0)
	ascites		3 (20)	3 (20)	6 (38)	5 (26)
thoracic ca	pleural fluid		2 (13)	2 (13)	2 (13)	4 (21)

APPENDIX I 3

GROSS FINDINGS : MALE SACRIFICED ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			35	(%)	35	(%)	34	(%)	31	(%)
skin/app	nodule		0	(0)	0	(0)	1	(3)	0	(0)
	erosion		2	(6)	2	(6)	0	(0)	0	(0)
	scab		1	(3)	2	(6)	0	(0)	0	(0)
subcutis	mass		1	(3)	1	(3)	0	(0)	1	(3)
lung	white zone		1	(3)	0	(0)	0	(0)	1	(3)
	nodule		6	(17)	10	(29)	5	(15)	8	(26)
lymph node	enlarged		4	(11)	5	(14)	3	(9)	1	(3)
spleen	enlarged		2	(6)	1	(3)	1	(3)	0	(0)
	white zone		1	(3)	0	(0)	0	(0)	0	(0)
	black zone		0	(0)	1	(3)	0	(0)	1	(3)
	nodule		2	(6)	0	(0)	1	(3)	1	(3)
heart	white zone		1	(3)	0	(0)	0	(0)	0	(0)
salivary gl	nodule		2	(6)	0	(0)	0	(0)	0	(0)
forestomach	nodule		0	(0)	1	(3)	0	(0)	0	(0)
gl stomach	erosion		0	(0)	1	(3)	0	(0)	0	(0)
small intes	nodule		1	(3)	0	(0)	0	(0)	0	(0)
liver	white zone		2	(6)	1	(3)	4	(12)	1	(3)
	red zone		1	(3)	0	(0)	2	(6)	1	(3)
	nodule		11	(31)	7	(20)	12	(35)	15	(48)
	cyst		2	(6)	0	(0)	0	(0)	0	(0)
pancreas	nodule		1	(3)	0	(0)	0	(0)	0	(0)
kidney	enlarged		1	(3)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			35	(%)	35	(%)	34	(%)	31	(%)
kidney	atrophic		0	(0)	0	(0)	0	(0)	1	(3)
	hydronephrosis		6	(17)	5	(14)	1	(3)	3	(10)
urin bladd	white		1	(3)	0	(0)	0	(0)	0	(0)
	urine:marked retention		1	(3)	0	(0)	0	(0)	0	(0)
urethra	dilated		0	(0)	1	(3)	0	(0)	0	(0)
pituitary	enlarged		0	(0)	0	(0)	1	(3)	0	(0)
	nodule		0	(0)	1	(3)	0	(0)	0	(0)
testis	white		1	(3)	0	(0)	0	(0)	0	(0)
epididymis	nodule		3	(9)	1	(3)	2	(6)	0	(0)
	adhesion		0	(0)	0	(0)	1	(3)	0	(0)
prostate	nodule		0	(0)	1	(3)	0	(0)	0	(0)
eye	turbid		0	(0)	0	(0)	0	(0)	1	(3)
Harder gl	enlarged		1	(3)	2	(6)	1	(3)	3	(10)
muscle	nodule		1	(3)	0	(0)	0	(0)	0	(0)
peritoneum	mass		0	(0)	0	(0)	1	(3)	0	(0)
retroperit	mass		0	(0)	0	(0)	0	(0)	1	(3)
abdominal c	ascites		0	(0)	1	(3)	0	(0)	1	(3)
mesenterium	nodule		1	(3)	0	(0)	0	(0)	0	(0)
thoracic ca	pleural fluid		1	(3)	0	(0)	0	(0)	0	(0)
other	ear:nodule		0	(0)	1	(3)	0	(0)	0	(0)

APPENDIX I 4

GROSS FINDINGS : FEMALE

ALL ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	scab		0	(0)	0	(0)	1	(2)	0	(0)
subcutis	edema		1	(2)	3	(6)	6	(12)	6	(12)
	mass		4	(8)	6	(12)	2	(4)	2	(4)
lung	red		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	0	(0)	2	(4)	0	(0)
	red zone		0	(0)	2	(4)	1	(2)	1	(2)
	nodule		4	(8)	2	(4)	2	(4)	2	(4)
lymph node	enlarged		6	(12)	13	(26)	12	(24)	8	(16)
thymus	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
spleen	enlarged		5	(10)	11	(22)	13	(26)	13	(26)
	yellow zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		1	(2)	0	(0)	4	(8)	1	(2)
	deformed		2	(4)	2	(4)	0	(0)	0	(0)
tongue	nodule		0	(0)	1	(2)	0	(0)	0	(0)
gl stomach	erosion		1	(2)	1	(2)	0	(0)	1	(2)
small intes	nodule		1	(2)	2	(4)	0	(0)	1	(2)
cecum	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
liver	enlarged		3	(6)	3	(6)	6	(12)	9	(18)
	pale		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		4	(8)	3	(6)	4	(8)	6	(12)
	red zone		6	(12)	2	(4)	3	(6)	3	(6)

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	nodule		12	(24)	12	(24)	7	(14)	7	(14)
	cyst		1	(2)	1	(2)	0	(0)	0	(0)
	rough		1	(2)	0	(0)	0	(0)	1	(2)
	adhesion		0	(0)	1	(2)	0	(0)	0	(0)
pancreas	nodule		1	(2)	1	(2)	2	(4)	0	(0)
kidney	atrophic		1	(2)	1	(2)	0	(0)	0	(0)
	pale		0	(0)	0	(0)	0	(0)	2	(4)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	deformed		0	(0)	1	(2)	0	(0)	0	(0)
	hydronephrosis		3	(6)	3	(6)	1	(2)	1	(2)
urin bladd	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	urine:marked retention		1	(2)	1	(2)	1	(2)	1	(2)
pituitary	enlarged		6	(12)	5	(10)	2	(4)	3	(6)
	red zone		7	(14)	1	(2)	0	(0)	2	(4)
	nodule		1	(2)	3	(6)	4	(8)	2	(4)
thyroid	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
ovary	enlarged		5	(10)	3	(6)	1	(2)	3	(6)
	nodule		0	(0)	0	(0)	1	(2)	0	(0)
	cyst		6	(12)	5	(10)	7	(14)	7	(14)
uterus	nodule		7	(14)	13	(26)	14	(28)	12	(24)
vagina	nodule		0	(0)	0	(0)	1	(2)	0	(0)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
brain	red zone		1	(2)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
periph nerv	nodule		0	(0)	0	(0)	2	(4)	0	(0)
eye	turbid		1	(2)	0	(0)	1	(2)	0	(0)
Harder gl	enlarged		1	(2)	0	(0)	2	(4)	0	(0)
muscle	nodule		0	(0)	0	(0)	1	(2)	0	(0)
pleura	nodule		0	(0)	0	(0)	1	(2)	0	(0)
mediastinum	mass		4	(8)	6	(12)	3	(6)	3	(6)
peritoneum	nodule		1	(2)	1	(2)	0	(0)	0	(0)
	adhesion		1	(2)	0	(0)	0	(0)	0	(0)
	thick		0	(0)	0	(0)	1	(2)	0	(0)
retroperit	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	mass		1	(2)	0	(0)	0	(0)	0	(0)
abdominal c	hemorrhage		2	(4)	3	(6)	0	(0)	1	(2)
	ascites		6	(12)	10	(20)	12	(24)	11	(22)
mesenterium	nodule		0	(0)	0	(0)	0	(0)	1	(2)
thoracic ca	hemorrhage		1	(2)	1	(2)	1	(2)	0	(0)
	pleural fluid		6	(12)	12	(24)	13	(26)	10	(20)
other	hindlimb:nodule		0	(0)	0	(0)	0	(0)	1	(2)
whole body	anemic		1	(2)	0	(0)	0	(0)	0	(0)

APPENDIX I 5

GROSS FINDINGS : FEMALE DEAD AND MORIBUND ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			22	(%)	22	(%)	24	(%)	24	(%)
skin/app	scab		0	(0)	0	(0)	1	(4)	0	(0)
subcutis	edema		1	(5)	3	(14)	6	(25)	5	(21)
	mass		1	(5)	4	(18)	1	(4)	1	(4)
lung	red		0	(0)	0	(0)	0	(0)	1	(4)
	red zone		0	(0)	2	(9)	1	(4)	1	(4)
	nodule		1	(5)	0	(0)	1	(4)	1	(4)
lymph node	enlarged		6	(27)	7	(32)	8	(33)	5	(21)
thymus	enlarged		0	(0)	0	(0)	0	(0)	1	(4)
spleen	enlarged		4	(18)	6	(27)	9	(38)	8	(33)
	yellow zone		0	(0)	0	(0)	1	(4)	0	(0)
	nodule		0	(0)	0	(0)	2	(8)	1	(4)
	deformed		2	(9)	1	(5)	0	(0)	0	(0)
tongue	nodule		0	(0)	1	(5)	0	(0)	0	(0)
small intes	nodule		0	(0)	1	(5)	0	(0)	0	(0)
liver	enlarged		3	(14)	3	(14)	6	(25)	9	(38)
	pale		0	(0)	0	(0)	0	(0)	1	(4)
	white zone		4	(18)	3	(14)	4	(17)	5	(21)
	red zone		2	(9)	2	(9)	2	(8)	1	(4)
	nodule		4	(18)	4	(18)	3	(13)	2	(8)
	rough		1	(5)	0	(0)	0	(0)	1	(4)
	adhesion		0	(0)	1	(5)	0	(0)	0	(0)
pancreas	nodule		0	(0)	1	(5)	2	(8)	0	(0)

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	12.5 ppm	25 ppm	50 ppm
			22 (%)	22 (%)	24 (%)	24 (%)
kidney	pale		0 (0)	0 (0)	0 (0)	1 (4)
	nodule		1 (5)	0 (0)	0 (0)	0 (0)
	deformed		0 (0)	1 (5)	0 (0)	0 (0)
	hydronephrosis		0 (0)	1 (5)	1 (4)	0 (0)
urin bladd	red zone		0 (0)	0 (0)	1 (4)	0 (0)
	urine:marked retention		1 (5)	1 (5)	0 (0)	1 (4)
pituitary	enlarged		2 (9)	2 (9)	0 (0)	2 (8)
	red zone		3 (14)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	1 (5)	2 (8)	0 (0)
thyroid	enlarged		1 (5)	0 (0)	0 (0)	0 (0)
ovary	enlarged		3 (14)	2 (9)	1 (4)	2 (8)
	cyst		1 (5)	0 (0)	3 (13)	1 (4)
uterus	nodule		3 (14)	8 (36)	10 (42)	8 (33)
brain	red zone		1 (5)	1 (5)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (4)
periph nerv	nodule		0 (0)	0 (0)	1 (4)	0 (0)
Harder gl	enlarged		0 (0)	0 (0)	1 (4)	0 (0)
muscle	nodule		0 (0)	0 (0)	1 (4)	0 (0)
mediastinum	mass		3 (14)	5 (23)	2 (8)	3 (13)
peritoneum	nodule		0 (0)	1 (5)	0 (0)	0 (0)
	thick		0 (0)	0 (0)	1 (4)	0 (0)
retroperit	mass		1 (5)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		12.5 ppm		25 ppm		50 ppm	
			22	(%)	22	(%)	24	(%)	24	(%)
abdominal c	hemorrhage		2	(9)	2	(9)	0	(0)	0	(0)
	ascites		3	(14)	7	(32)	8	(33)	9	(38)
mesenterium	nodule		0	(0)	0	(0)	0	(0)	1	(4)
thoracic ca	hemorrhage		1	(5)	1	(5)	0	(0)	0	(0)
	pleural fluid		6	(27)	11	(50)	11	(46)	9	(38)
other	hindlimb:nodule		0	(0)	0	(0)	0	(0)	1	(4)
whole body	anemic		1	(5)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 4

APPENDIX I 6

GROSS FINDINGS : FEMALE SACRIFICED ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	12.5 ppm	25 ppm	50 ppm
			28 (%)	28 (%)	26 (%)	26 (%)
subcutis	edema		0 (0)	0 (0)	0 (0)	1 (4)
	mass		3 (11)	2 (7)	1 (4)	1 (4)
lung	white zone		0 (0)	0 (0)	2 (8)	0 (0)
	nodule		3 (11)	2 (7)	1 (4)	1 (4)
lymph node	enlarged		0 (0)	6 (21)	4 (15)	3 (12)
spleen	enlarged		1 (4)	5 (18)	4 (15)	5 (19)
	nodule		1 (4)	0 (0)	2 (8)	0 (0)
	deformed		0 (0)	1 (4)	0 (0)	0 (0)
gl stomach	erosion		1 (4)	1 (4)	0 (0)	1 (4)
small intes	nodule		1 (4)	1 (4)	0 (0)	1 (4)
cecum	white zone		0 (0)	0 (0)	1 (4)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (4)
liver	white zone		0 (0)	0 (0)	0 (0)	1 (4)
	red zone		4 (14)	0 (0)	1 (4)	2 (8)
	nodule		8 (29)	8 (29)	4 (15)	5 (19)
	cyst		1 (4)	1 (4)	0 (0)	0 (0)
pancreas	nodule		1 (4)	0 (0)	0 (0)	0 (0)
kidney	atrophic		1 (4)	1 (4)	0 (0)	0 (0)
	pale		0 (0)	0 (0)	0 (0)	1 (4)
	hydronephrosis		3 (11)	2 (7)	0 (0)	1 (4)
urin bladd	nodule		0 (0)	1 (4)	0 (0)	0 (0)
	urine:marked retention		0 (0)	0 (0)	1 (4)	0 (0)

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	12.5 ppm	25 ppm	50 ppm
			28 (%)	28 (%)	26 (%)	26 (%)
pituitary	enlarged		4 (14)	3 (11)	2 (8)	1 (4)
	red zone		4 (14)	1 (4)	0 (0)	2 (8)
	nodule		1 (4)	2 (7)	2 (8)	2 (8)
ovary	enlarged		2 (7)	1 (4)	0 (0)	1 (4)
	nodule		0 (0)	0 (0)	1 (4)	0 (0)
	cyst		5 (18)	5 (18)	4 (15)	6 (23)
uterus	nodule		4 (14)	5 (18)	4 (15)	4 (15)
vagina	nodule		0 (0)	0 (0)	1 (4)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	1 (4)	0 (0)
eye	turbid		1 (4)	0 (0)	1 (4)	0 (0)
Harder gl	enlarged		1 (4)	0 (0)	1 (4)	0 (0)
pleura	nodule		0 (0)	0 (0)	1 (4)	0 (0)
mediastinum	mass		1 (4)	1 (4)	1 (4)	0 (0)
peritoneum	nodule		1 (4)	0 (0)	0 (0)	0 (0)
	adhesion		1 (4)	0 (0)	0 (0)	0 (0)
retroperit	nodule		1 (4)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		0 (0)	1 (4)	0 (0)	1 (4)
	ascites		3 (11)	3 (11)	4 (15)	2 (8)
thoracic ca	hemorrhage		0 (0)	0 (0)	1 (4)	0 (0)
	pleural fluid		0 (0)	1 (4)	2 (8)	1 (4)

APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	35	42.7± 8.6	0.012±	0.002	0.221±	0.048	0.215±	0.026	0.243±	0.135	1.699±	4.171
12.5 ppm	35	45.9± 7.7	0.012±	0.002	0.218±	0.034	0.219±	0.027	0.221±	0.113	0.816±	0.861
25 ppm	34	43.8± 7.6	0.012±	0.004	0.213±	0.040	0.221±	0.028	0.197±	0.026	0.865±	1.168
50 ppm	31	43.6± 6.8	0.012±	0.003	0.209±	0.032	0.229±	0.033	0.234±	0.098	0.754±	0.390

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	35	0.301±	0.881	1.698±	0.506	0.451±	0.016
12.5 ppm	35	0.103±	0.070	1.574±	0.189	0.452±	0.015
25 ppm	34	0.162±	0.455	1.779±	0.539	0.451±	0.017
50 ppm	31	0.103±	0.078	1.790±	0.516	0.445±	0.017

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

Test of Dunnett

(HCL040)

BAIS 4

APPENDIX J 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	28	31.3± 4.5	0.015±	0.002	0.392±	1.513	0.178±	0.028	0.208±	0.043	0.540±	0.311
12.5 ppm	28	30.4± 5.2	0.015±	0.003	0.054±	0.036	0.184±	0.039	0.202±	0.033	0.525±	0.236
25 ppm	26	29.8± 3.7	0.015±	0.002	0.052±	0.051	0.181±	0.034	0.220±	0.110	0.456±	0.050
50 ppm	26	30.5± 4.7	0.015±	0.003	0.247±	0.803	0.185±	0.025	0.221±	0.073	0.501±	0.108

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	28	0.213±	0.269	1.540±	0.378	0.478±	0.015
12.5 ppm	28	0.439±	0.875	1.774±	0.666	0.474±	0.016
25 ppm	26	0.297±	0.356	1.518±	0.248	0.474±	0.014
50 ppm	26	0.236±	0.161	1.697±	0.526	0.478±	0.016
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							
(HCL040)							

BAIS 4

APPENDIX K 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	42.7± 8.6	0.030± 0.011	0.531± 0.127	0.528± 0.163	0.608± 0.414	3.883± 8.364
12.5 ppm	35	45.9± 7.7	0.027± 0.006	0.483± 0.085	0.490± 0.104	0.530± 0.504	1.829± 1.996
25 ppm	34	43.8± 7.6	0.029± 0.011	0.500± 0.122	0.516± 0.099	0.461± 0.081	2.120± 3.317
50 ppm	31	43.6± 6.8	0.028± 0.009	0.486± 0.083	0.544± 0.165	0.563± 0.301	1.792± 1.039

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	35	0.908± 3.031	4.126± 1.452	1.104± 0.254
12.5 ppm	35	0.234± 0.170	3.503± 0.585	1.017± 0.197
25 ppm	34	0.386± 1.122	4.173± 1.544	1.059± 0.175
50 ppm	31	0.253± 0.213	4.283± 1.925	1.047± 0.181

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

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX K 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	28	31.3± 4.5	0.049± 0.008	1.126± 4.125	0.582± 0.139	0.678± 0.175	1.818± 1.491
12.5 ppm	28	30.4± 5.2	0.050± 0.010	0.187± 0.131	0.608± 0.084	0.676± 0.113	1.747± 0.811
25 ppm	26	29.8± 3.7	0.050± 0.008	0.177± 0.169	0.617± 0.142	0.776± 0.554	1.552± 0.236
50 ppm	26	30.5± 4.7	0.051± 0.010	0.784± 2.444	0.611± 0.082	0.729± 0.217	1.649± 0.288

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	28	0.665± 0.734	4.975± 1.073	1.560± 0.227
12.5 ppm	28	1.360± 2.573	5.772± 1.511	1.597± 0.240
25 ppm	26	0.976± 1.142	5.146± 0.894	1.617± 0.218
50 ppm	26	0.763± 0.495	5.525± 1.197	1.594± 0.197

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

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX L 1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
ALL ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Control				12.5 ppm				25 ppm				50 ppm			
		50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																	
skin/app		<50>				<50>				<50>				<50>			
	ulcer	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation	0	3	1	0	2	0	0	0	0	1	0	0	1	1	1	0
		(0)	(6)	(2)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(2)	(0)
	hyperkeratosis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scab	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis		<50>				<50>				<50>				<50>			
	inflammation	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	epidermal cyst	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																	
nasal cavit		<50>				<50>				<50>				<50>			
	exudate	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0
		(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<50>				<50>			
	mineralization	11 (22)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)
	inflammation	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:gland	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium	15 (30)	1 (2)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	13 (26)	0 (0)	0 (0)	0 (0)	13 (26)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium	5 (10)	1 (2)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	17 (34)	2 (4)	0 (0)	0 (0)	8 (16)	5 (10)	0 (0)	0 (0)	17 (34)	1 (2)	0 (0)	0 (0)	17 (34)	1 (2)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	7 (14)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	16 (32)	0 (0)	0 (0)	0 (0)	16 (32)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium	28 (56)	0 (0)	0 (0)	0 (0)	32 (64)	0 (0)	0 (0)	0 (0)	31 (62)	0 (0)	0 (0)	0 (0)	31 (62)	0 (0)	0 (0)	0 (0)	32 (64)	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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Control				12.5 ppm				25 ppm				50 ppm			
		50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																	
nasopharynx		<50>				<50>				<50>				<50>			
	eosinophilic change	2	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
lung		<50>				<50>				<50>				<50>			
	hemorrhage	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	edema	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	accumulation of foamy cells	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																	
bone marrow		<50>				<50>				<50>				<50>			
	hemorrhage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study				Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																					
bone marrow		<50>				<50>				<50>				<50>				<50>			
	granulation	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	erythropoiesis:increased	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)	(2)	(0)	(0)	(0)
	granulopoiesis:increased	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node		<50>				<50>				<50>				<50>				<50>			
	follicular hyperplasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen		<50>				<50>				<50>				<50>				<50>			
	deposit of melanin	1	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis	6	2	2	0	7	4	0	0	5	6	1	0	5	1	1	0	5	1	1	0
		(12)	(4)	(4)	(0)	(14)	(8)	(0)	(0)	(10)	(12)	(2)	(0)	(10)	(2)	(2)	(0)	(10)	(2)	(2)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12.5 ppm				25 ppm				50 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Hematopoietic system}																		
spleen																		
			<50>				<50>				<50>				<50>			
follicular hyperplasia			0	0	0	0	3	0	0	0	3	1	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(6)	(0)	(0)	(0)
{Circulatory system}																		
heart																		
			<50>				<50>				<50>				<50>			
mineralization			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<50>				<50>				<50>				<50>			
inflammatory cell nest			0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<50>				<50>				<50>				<50>			
myocardial fibrosis			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
			<50>				<50>				<50>				<50>			
arteritis			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort																		
			<50>				<50>				<50>				<50>			
arteritis			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
tooth	dysplasia		<50>				<50>				<50>				<50>			
		21 (42)	15 (30)	2 (4)	0 (0)	20 (40)	17 (34)	0 (0)	0 (0)	20 (40)	12 (24)	0 (0)	0 (0)	26 (52)	9 (18)	0 (0)	0 (0)	
tongue	arteritis		<50>				<50>				<50>				<49>			
		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
salivary gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
stomach	squamous cell hyperplasia		<50>				<50>				<50>				<49>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	ulcer:forestomach		<50>				<50>				<50>				<49>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	erosion:glandular stomach		<50>				<50>				<50>				<49>			
		10 (20)	2 (4)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	
	ulcer:glandular stomach		<50>				<50>				<50>				<49>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)		
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Control				12.5 ppm				25 ppm				50 ppm			
		50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
stomach		<50>				<50>				<50>				<49>			
	hyperplasia:glandular stomach	32	8	0	0	35	4	0	0	36	7	0	0	38	5	0	0
		(64)	(16)	(0)	(0)	(70)	(8)	(0)	(0)	(72)	(14)	(0)	(0)	(78)	(10)	(0)	(0)
large intes		<50>				<50>				<50>				<50>			
	focal hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	xanthogranuloma	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
liver		<50>				<50>				<50>				<50>			
	angiectasis	0	2	0	0	0	0	0	0	1	1	0	0	1	0	0	0
		(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	necrosis:central	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	2	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)	(0)	(2)	(0)	(0)	(0)
	fatty change:central	1	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	inflammatory cell nest		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	clear cell focus		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	basophilic cell focus		0	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	bile duct hyperplasia		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<50>				<50>				<50>				<50>			
	hyperplasia		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	cyst		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	leucocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	scar		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	inflammatory polyp		2	4	3	0	2	6	3	0	0	3	2	0	0	5	5	0
			(4)	(8)	(6)	(0)	(4)	(12)	(6)	(0)	(0)	(6)	(4)	(0)	(0)	(10)	(10)	(0)
	hydronephrosis		0	0	10	0	0	1	10	0	0	0	8	0	0	0	10	0
			(0)	(0)	(20)	(0)	(0)	(2)	(20)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(20)	(0)
	dilatation:tubular lumen		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	regeneration:proximal tubule		10	0	0	0	10	0	0	0	11	0	0	0	9	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(18)	(0)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : Q515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	eosinophilic droplet:proximal tubule		<50>				<50>				<50>				<50>			
			0	1	1	0	0	1	1	0	0	1	3	0	0	0	1	0
			(0)	(2)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(6)	(0)	(0)	(0)	(2)	(0)
urin bladd	dilatation		<50>				<50>				<49>				<50>			
			1	1	0	0	2	0	2	0	1	0	1	0	1	0	0	0
			(2)	(2)	(0)	(0)	(4)	(0)	(4)	(0)	(2)	(0)	(2)	(0)	(2)	(0)	(0)	(0)
	inflammation		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	angiectasis		<50>				<50>				<49>				<49>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	hyperplasia		<50>				<50>				<49>				<49>			
			0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	spindle-cell hyperplasia		<50>				<50>				<50>				<50>			
			11	0	1	0	14	0	0	0	11	0	0	0	9	0	0	0
			(22)	(0)	(2)	(0)	(28)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	hyperplasia:cortical cell		7	0	0	0	7	0	0	0	2	0	0	0	3	0	0	0
			(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Reproductive system}																		
testis	mineralization		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
epididymis	cyst		<50>				<50>				<50>				<50>			
			0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	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 > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Reproductive system}																		
epididymis																		
			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma		0	0	0	0	3	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
semin ves																		
			<50>				<50>				<50>				<50>			
	mineralization		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate																		
			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Reproductive system}																		
prostate	hyperplasia		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl	duct ectasia		<50>				<50>				<50>				<50>			
		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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	keratitis		<50>				<50>				<50>				<50>			
		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)	(2)	(0)	(0)	(0)
	degeneration:cornea		3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
Harder gl	hyperplasia		<50>				<50>				<50>				<50>			
		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name				Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study				50				50				50				50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		

{Body cavities}

retroperit		<50>				<50>				<50>				<50>			
arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

APPENDIX L 2

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<15>				<15>				<16>				<19>			
	inflammation		0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0
			(0)	(0)	(7)	(0)	(7)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(5)	(5)	(0)
	scab		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis			<15>				<15>				<16>				<19>			
	inflammation		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)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
	epidermal cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<15>				<15>				<16>				<19>			
	exudate		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		3	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0
			(20)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(16)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 15				12.5 ppm 15				25 ppm 16				50 ppm 19			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<15>				<15>				<16>				<19>			
	eosinophilic change:olfactory epithelium	3 (20)	0 (0)	0 (0)	0 (0)	5 (33)	0 (0)	0 (0)	0 (0)	5 (31)	0 (0)	0 (0)	0 (0)	2 (11)	0 (0)	0 (0)	0 (0)	
	eosinophilic change:respiratory epithelium	2 (13)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	
	respiratory metaplasia:olfactory epithelium	3 (20)	1 (7)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	5 (31)	0 (0)	0 (0)	0 (0)	3 (16)	0 (0)	0 (0)	0 (0)	
	respiratory metaplasia:gland	3 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	
	atrophy:olfactory epithelium	8 (53)	0 (0)	0 (0)	0 (0)	8 (53)	0 (0)	0 (0)	0 (0)	11 (69)	0 (0)	0 (0)	0 (0)	13 (68)	0 (0)	0 (0)	0 (0)	
nasopharynx			<15>				<15>				<16>				<19>			
	eosinophilic change	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
lung			<15>				<15>				<16>				<19>			
	hemorrhage	0 (0)	1 (7)	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)	

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<15>				<15>				<16>				<19>			
	edema		0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<15>				<15>				<16>				<19>			
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulopoiesis:increased		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<15>				<15>				<16>				<19>			
	deposit of melanin		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<15>				<15>				<16>				<19>			
	extramedullary hematopoiesis		2	2	2	0	5	4	0	0	4	5	1	0	3	1	1	0
			(13)	(13)	(13)	(0)	(33)	(27)	(0)	(0)	(25)	(31)	(6)	(0)	(16)	(5)	(5)	(0)
{Circulatory system}																		
heart			<15>				<15>				<16>				<19>			
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myocardial fibrosis		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)	(5)	(0)	(0)	(0)
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort			<15>				<15>				<16>				<19>			
	arteritis		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth			<15>				<15>				<16>				<19>			
	dysplasia		6	4	0	0	3	6	0	0	4	0	0	0 *	6	2	0	0
			(40)	(27)	(0)	(0)	(20)	(40)	(0)	(0)	(25)	(0)	(0)	(0)	(32)	(11)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/CrIj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study				Control 15				12.5 ppm 15				25 ppm 16				50 ppm 19			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
tongue	arteritis	<15>				<15>				<16>				<18>							
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration	<15>				<15>				<16>				<19>							
		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)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	erosion:glandular stomach	<15>				<15>				<16>				<18>							
		2	0	0	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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:glandular stomach	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)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
liver	hyperplasia:glandular stomach	9	0	0	0	5	3	0	0	11	0	0	0	12	0	0	0	0	0	0	0
		(60)	(0)	(0)	(0)	(33)	(20)	(0)	(0)	(69)	(0)	(0)	(0)	(67)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central	<15>				<15>				<16>				<19>							
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crlj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	cyst		<15>				<15>				<16>				<19>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	inflammation	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	1	1	2	0	1	3	2	0	0	3	2	0	0	3	3	0	0
(7)		(7)	(13)	(0)	(7)	(20)	(13)	(0)	(0)	(19)	(13)	(0)	(0)	(16)	(16)	(0)	(0)	
	hydronephrosis	0	0	4	0	0	1	5	0	0	0	6	0	0	0	6	0	0
		(0)	(0)	(27)	(0)	(0)	(7)	(33)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(32)	(0)	(0)
	dilatation:tubular lumen	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)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic droplet:proximal tubule	0	1	1	0	0	1	1	0	0	1	2	0	0	0	1	0	0
		(0)	(7)	(7)	(0)	(0)	(7)	(7)	(0)	(0)	(6)	(13)	(0)	(0)	(0)	(5)	(0)	(0)
urin bladd	dilatation		<15>				<15>				<16>				<19>			
		0	1	0	0	2	0	2	0	1	0	1	0	1	0	0	0	0
			(0)	(7)	(0)	(0)	(13)	(0)	(13)	(0)	(6)	(0)	(6)	(0)	(5)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	angiectasis		<15>				<15>				<15>				<18>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<15>				<15>				<15>				<18>			
	thrombus		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		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)	(6)	(0)	(0)	(0)
	Rathke pouch		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<15>				<15>				<16>				<19>			
	spindle-cell hyperplasia		1	0	0	0	3	0	0	0	3	0	0	0	1	0	0	0
			(7)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	hyperplasia:cortical cell		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
epididymis			<15>				<15>				<16>				<19>			
	spermatogenic granuloma		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	15				15				16				19			
Organ_____	Findings_____	Grade	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
prostate			<15>				<15>				<16>				<19>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl			<15>				<15>				<16>				<19>			
	duct ectasia		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)	(13)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<15>				<15>				<16>				<19>			
	degeneration:cornea		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
{Body cavities}																		
retroperit			<15>				<15>				<16>				<19>			
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

APPENDIX L 3

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<35>				<35>				<34>				<31>			
	ulcer		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(9)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	hyperkeratosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scab		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis			<35>				<35>				<34>				<31>			
	epidermal cyst		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<35>				<35>				<34>				<31>			
	exudate		0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0
		(0)	(3)	(0)	(0)	(3)	(0)	(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 : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	mineralization		<35>				<35>				<34>				<31>			
		8	0	0	0	7	0	0	0	7	0	0	0	8	0	0	0	
		(23)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	
	inflammation	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
	hyperplasia:gland	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	
	eosinophilic change:olfactory epithelium	12	1	0	0	14	0	0	0	8	0	0	0	8	0	0	0	
		(34)	(3)	(0)	(0)	(40)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	
eosinophilic change:respiratory epithelium	3	1	0	0	7	0	0	0	4	2	0	0	5	0	0	0		
	(9)	(3)	(0)	(0)	(20)	(0)	(0)	(0)	(12)	(6)	(0)	(0)	(16)	(0)	(0)	(0)		
respiratory metaplasia:olfactory epithelium	14	1	0	0	8	3	0	0	12	1	0	0	7	0	0	0		
	(40)	(3)	(0)	(0)	(23)	(9)	(0)	(0)	(35)	(3)	(0)	(0)	(23)	(0)	(0)	(0)		
respiratory metaplasia:gland	4	0	0	0	8	0	0	0	14	0	0	0 *	1	0	0	0		
	(11)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(41)	(0)	(0)	(0)	(3)	(0)	(0)	(0)		
atrophy:olfactory epithelium	20	0	0	0	24	0	0	0	20	0	0	0	19	0	0	0		
	(57)	(0)	(0)	(0)	(69)	(0)	(0)	(0)	(59)	(0)	(0)	(0)	(61)	(0)	(0)	(0)		

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasopharynx			<35>				<35>				<34>				<31>			
	eosinophilic change		2	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<35>				<35>				<34>				<31>			
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
				(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
		bronchiolar-alveolar cell hyperplasia		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<35>				<35>				<34>				<31>			
	hemorrhage		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		increased hematopoiesis		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<35>				<35>				<34>				<31>			
	erythropoiesis:increased		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	granulopoiesis:increased		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<35>				<35>				<34>				<31>			
	follicular hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<35>				<35>				<34>				<31>			
	deposit of melanin		0	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	extramedullary hematopoiesis		4	0	0	0	2	0	0	0	1	1	0	0	2	0	0	0
			(11)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(6)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	3	0	0	0	3	1	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(9)	(3)	(0)	(0)	(10)	(0)	(0)	(0)
(Circulatory system)																		
heart			<35>				<35>				<34>				<31>			
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<35>				<35>				<34>				<31>			
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth			<35>				<35>				<34>				<31>			
	dysplasia		15	11	2	0	17	11	0	0	16	12	0	0	20	7	0	0
			(43)	(31)	(6)	(0)	(49)	(31)	(0)	(0)	(47)	(35)	(0)	(0)	(65)	(23)	(0)	(0)
tongue			<35>				<35>				<34>				<31>			
	arteritis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl			<35>				<35>				<34>				<31>			
	lymphocytic infiltration		1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
stomach			<35>				<35>				<34>				<31>			
	squamous cell hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<35>				<35>				<34>				<31>			
	ulcer:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		8	2	0	0	4	0	0	0	4	0	0	0	5	0	0	0
			(23)	(6)	(0)	(0)	(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	hyperplasia:glandular stomach		23	8	0	0	30	1	0	0 *	25	7	0	0	26	5	0	0
			(66)	(23)	(0)	(0)	(86)	(3)	(0)	(0)	(74)	(21)	(0)	(0)	(84)	(16)	(0)	(0)
large intes			<35>				<35>				<34>				<31>			
	focal hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	xanthogranuloma		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
liver			<35>				<35>				<34>				<31>			
	angiectasis		0	2	0	0	0	0	0	0	1	1	0	0	1	0	0	0
			(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(3)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Digestive system}																		
liver			<35>				<35>				<34>				<31>			
	fatty change:central		1	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	clear cell focus		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
	basophilic cell focus		0	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	bile duct hyperplasia		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<35>				<35>				<34>				<31>			
	hyperplasia		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
{Urinary system}																		
kidney			<35>				<35>				<34>				<31>			
	cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Urinary system}

kidney

leucocytic infiltration

<35>

0000

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

<35>

1000

(3) (0) (0) (0)

<34>

0000

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

<31>

0000

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

lymphocytic infiltration

<35>

1000

(3) (0) (0) (0)

<35>

1000

(3) (0) (0) (0)

<34>

1000

(3) (0) (0) (0)

<31>

1000

(3) (0) (0) (0)

scar

<35>

0000

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

<35>

0000

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

<34>

1000

(3) (0) (0) (0)

<31>

1000

(3) (0) (0) (0)

inflammatory polyp

<35>

1310

(3) (9) (3) (0)

<35>

1310

(3) (9) (3) (0)

<34>

0000

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

<31>

0220

(0) (6) (6) (0)

hydronephrosis

<35>

0060

(0) (0) (17) (0)

<35>

0050

(0) (0) (14) (0)

<34>

0020

(0) (0) (6) (0)

<31>

0040

(0) (0) (13) (0)

regeneration:proximal tubule

<35>

1000

(29) (0) (0) (0)

<35>

1000

(29) (0) (0) (0)

<34>

1100

(32) (0) (0) (0)

<31>

9000

(29) (0) (0) (0)

eosinophilic droplet:proximal tubule

<35>

0000

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

<35>

0000

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

<34>

0010

(0) (0) (3) (0)

<31>

0000

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

urin bladd

dilatation

<35>

1000

(3) (0) (0) (0)

<35>

0000

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

<33>

0000

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

<31>

0000

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

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
urin bladd			<35>				<35>				<33>				<31>			
	inflammation		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<35>				<35>				<34>				<31>			
	cyst		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<35>				<35>				<34>				<31>			
	spindle-cell hyperplasia		10	0	1	0	11	0	0	0	8	0	0	0	8	0	0	0
			(29)	(0)	(3)	(0)	(31)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(26)	(0)	(0)	(0)
	hyperplasia:cortical cell		6	0	0	0	7	0	0	0	2	0	0	0	3	0	0	0
			(17)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

		Group Name	Control				12.5 ppm				25 ppm				50 ppm				
		No. of Animals on Study	35				35				34				31				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Reproductive system}																			
testis	mineralization		<35>				<35>				<34>				<31>				
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
epididymis	cyst		<35>				<35>				<34>				<31>				
		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
semin ves	spermatogenic granuloma		0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		<35>				<35>				<34>				<31>				
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	35				35				34				31			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
semin ves			<35>				<35>				<34>				<31>			
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate			<35>				<35>				<34>				<31>			
	hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<35>				<35>				<34>				<31>			
	keratitis		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	degeneration:cornea		2	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)	(0)	(3)	(0)	(0)	(0)
Harder gl			<35>				<35>				<34>				<31>			
	hyperplasia		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				12.5 ppm 35				25 ppm 34				50 ppm 31			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Musculoskeletal system}

bone	osteosclerosis	<35>				<35>				<34>				<31>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

APPENDIX L 4

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
ALL ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
subcutis			<50>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	exudate		1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)
	mineralization		2	0	0	0	5	0	0	0	3	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	inflammation		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		20	0	0	0	18	2	0	0	23	0	0	0	12	1	0	0
			(40)	(0)	(0)	(0)	(36)	(4)	(0)	(0)	(46)	(0)	(0)	(0)	(24)	(2)	(0)	(0)
	eosinophilic change:respiratory epithelium		35	11	0	0	34	8	0	0	37	9	0	0	33	11	0	0
			(70)	(22)	(0)	(0)	(68)	(16)	(0)	(0)	(74)	(18)	(0)	(0)	(66)	(22)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	respiratory metaplasia:olfactory epithelium		15 (30)	0 (0)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	16 (32)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		20 (40)	0 (0)	0 (0)	0 (0)	28 (56)	0 (0)	0 (0)	0 (0)	24 (48)	0 (0)	0 (0)	0 (0)	28 (56)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium		32 (64)	0 (0)	0 (0)	0 (0)	39 (78)	0 (0)	0 (0)	0 (0)	34 (68)	0 (0)	0 (0)	0 (0)	30 (60)	1 (2)	0 (0)	0 (0)
nasopharynx	eosinophilic change		6 (12)	3 (6)	0 (0)	0 (0)	8 (16)	4 (8)	0 (0)	0 (0)	4 (8)	7 (14)	0 (0)	0 (0)	8 (16)	4 (8)	0 (0)	0 (0)
lung	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				12.5 ppm 50				25 ppm 50				50 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
lung	bronchiolar-alveolar cell hyperplasia	<50>				<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																					
bone marrow	increased hematopoiesis	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node	deposit of amyloid	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
spleen	thrombus	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of amyloid	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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study				Control				12.5 ppm				25 ppm				50 ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
spleen		<50>				<50>				<50>				<50>				<50>			
	deposit of hemosiderin	7 (14)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	8 (16)	1 (2)	1 (2)	0 (0)
	deposit of melanin	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fibrosis:focal	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	extramedullary hematopoiesis	4 (8)	3 (6)	5 (10)	0 (0)	4 (8)	5 (10)	4 (8)	0 (0)	6 (12)	2 (4)	5 (10)	0 (0)	6 (12)	2 (4)	5 (10)	0 (0)	6 (12)	6 (12)	7 (14)	0 (0)
	follicular hyperplasia	3 (6)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

(Circulatory system)

heart		<50>				<50>				<50>				<50>				<50>			
	thrombus	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12.5 ppm				25 ppm				50 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	inflammatory cell nest		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth	dysplasia		<50>				<50>				<50>				<50>			
			9	8	0	0	11	8	0	0	6	9	0	0	11	6	0	0
			(18)	(16)	(0)	(0)	(22)	(16)	(0)	(0)	(12)	(18)	(0)	(0)	(22)	(12)	(0)	(0)
salivary gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
			6	0	0	0	3	0	0	0	6	0	0	0	7	0	0	0
			(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
stomach	squamous cell hyperplasia		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	erosion:forestomach		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	ulcer:forestomach		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study				Control				12.5 ppm				25 ppm				50 ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
stomach		<50>				<50>				<50>				<50>				<50>			
	erosion:glandular stomach	4	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:glandular stomach	1	0	0	0	1	2	0	0	1	2	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(4)	(0)	(0)	(2)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach	33	2	0	0	35	2	0	0	28	4	0	0	30	4	0	0	60	8	0	0
		(66)	(4)	(0)	(0)	(70)	(4)	(0)	(0)	(56)	(8)	(0)	(0)	(60)	(8)	(0)	(0)				
small intes		<50>				<50>				<50>				<50>				<50>			
	deposit of amyloid	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver		<50>				<50>				<50>				<50>				<50>			
	angiectasis	3	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	1	0	0
		(6)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(2)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	necrosis:focal	1	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest	8	1	0	0	4	1	0	0	5	1	0	0	5	0	0	0	10	0	0	0
		(16)	(2)	(0)	(0)	(8)	(2)	(0)	(0)	(10)	(2)	(0)	(0)	(10)	(0)	(0)	(0)				

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	clear cell focus		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	biliary cyst	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
gall bladd	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Urinary system}																		
kidney	cyst		<50>				<50>				<50>				<50>			
		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	deposit of amyloid	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	lymphocytic infiltration	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study				Control				12.5 ppm				25 ppm				50 ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney	scar	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	2	0	0	1	1	0	0	0	1	0	0	0	1	0	0	1	1	0	0
		(0)	(4)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(2)	(0)	(2)	(2)	(0)	(0)
	hydronephrosis	0	0	4	0	0	2	2	0	1	0	2	0	0	0	2	0	0	0	2	0
		(0)	(0)	(8)	(0)	(0)	(4)	(4)	(0)	(2)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)
	eosinophilic droplet:proximal tubule	4	4	1	0	0	4	3	0	0	7	2	0	3	9	2	0	3	9	2	0
		(8)	(8)	(2)	(0)	(0)	(8)	(6)	(0)	(0)	(14)	(4)	(0)	(6)	(18)	(4)	(0)	(6)	(18)	(4)	(0)
urin bladd	dilatation	<50>				<50>				<50>				<50>				<50>			
		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	3	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																					
pituitary	angiectasis	<50>				<50>				<50>				<50>				<50>			
		6	2	0	0	2	2	0	0	0	3	0	0 *	2	0	0	0	2	0	0	0
		(12)	(4)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<50>				<50>				<50>				<50>			
	cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		3	2	0	0	8	2	0	0	3	5	2	0	4	2	1	0
			(6)	(4)	(0)	(0)	(16)	(4)	(0)	(0)	(6)	(10)	(4)	(0)	(8)	(4)	(2)	(0)
	Rathke pouch		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid			<50>				<50>				<50>				<50>			
	follicular hyperplasia		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<50>				<50>				<50>				<50>			
	fatty metamorphosis		0	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	spindle-cell hyperplasia		33	14	0	0	39	7	0	0	39	6	0	0	35	11	0	0
			(66)	(28)	(0)	(0)	(78)	(14)	(0)	(0)	(78)	(12)	(0)	(0)	(70)	(22)	(0)	(0)
	focal fatty change:cortex		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Control				12.5 ppm				25 ppm				50 ppm			
		50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																	
ovary	angiectasis	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst	2	0	0	0	6	0	0	0	8	0	0	0	5	0	0	0
		(4)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	mineralization	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	1	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)	(2)	(0)	(0)	(0)
uterus	necrosis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	decidual change	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia	26	9	1	0	12	23	3	0 **	12	14	2	0 *	12	24	3	0 **
		(52)	(18)	(2)	(0)	(24)	(46)	(6)	(0)	(24)	(28)	(4)	(0)	(24)	(48)	(6)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain			<50>				<50>				<50>				<50>			
	hemorrhage		1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<50>				<50>				<50>				<50>			
	keratitis		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration:cornea		1	0	0	0	5	0	0	0	2	0	0	0	5	0	0	0
			(2)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
Harder gl			<50>				<50>				<50>				<50>			
	inflammatory infiltration		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle			<50>				<50>				<50>				<50>			
	mineralization		0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

APPENDIX L 5

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 9

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
subcutis			<22>				<22>				<24>				<24>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<22>				<22>				<24>				<24>			
	exudate		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		8	0	0	0	4	1	0	0	12	0	0	0	4	1	0	0
			(36)	(0)	(0)	(0)	(18)	(5)	(0)	(0)	(50)	(0)	(0)	(0)	(17)	(4)	(0)	(0)
	eosinophilic change:respiratory epithelium		13	6	0	0	16	2	0	0	15	7	0	0	15	7	0	0
			(59)	(27)	(0)	(0)	(73)	(9)	(0)	(0)	(63)	(29)	(0)	(0)	(63)	(29)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		5	0	0	0	8	0	0	0	6	0	0	0	6	0	0	0
			(23)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
	respiratory metaplasia:gland		7	0	0	0	11	0	0	0	10	0	0	0	11	0	0	0
			(32)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(46)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	atrophy:olfactory epithelium		<22>				<22>				<24>				<24>			
		14	0	0	0	18	0	0	0	13	0	0	0	17	1	0	0	
		(64)	(0)	(0)	(0)	(82)	(0)	(0)	(0)	(54)	(0)	(0)	(0)	(71)	(4)	(0)	(0)	
nasopharynx	eosinophilic change		<22>				<22>				<24>				<24>			
		3	2	0	0	1	2	0	0	3	5	0	0	4	2	0	0	
		(14)	(9)	(0)	(0)	(5)	(9)	(0)	(0)	(13)	(21)	(0)	(0)	(17)	(8)	(0)	(0)	
lung	hemorrhage		<22>				<22>				<24>				<24>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory infiltration		<22>				<22>				<24>				<24>			
0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	bronchiolar-alveolar cell hyperplasia		<22>				<22>				<24>				<24>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Hematopoietic system}																		
bone marrow	increased hematopoiesis		<22>				<22>				<24>				<24>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study				Control 22				12.5 ppm 22				25 ppm 24				50 ppm 24			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
bone marrow		<22>				<22>				<24>				<24>				<24>			
	erythropoiesis:increased	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node		<22>				<22>				<24>				<24>				<24>			
	deposit of amyloid	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)
spleen		<22>				<22>				<24>				<24>				<24>			
	deposit of amyloid	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	4	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(18)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	fibrosis:focal	0	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)	(4)	(0)	(0)
	extramedullary hematopoiesis	0	2	5	0	2	4	4	0	5	2	5	0	3	5	7	0	3	5	7	0
		(0)	(9)	(23)	(0)	(9)	(18)	(18)	(0)	(21)	(8)	(21)	(0)	(13)	(21)	(29)	(0)	(13)	(21)	(29)	(0)
	follicular hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<22>				<22>				<24>				<24>			
	thrombus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth			<22>				<22>				<24>				<24>			
	dysplasia		3	2	0	0	5	3	0	0	2	4	0	0	2	3	0	0
		(14)	(9)	(0)	(0)	(23)	(14)	(0)	(0)	(8)	(17)	(0)	(0)	(8)	(13)	(0)	(0)	
salivary gl			<22>				<22>				<24>				<24>			
	lymphocytic infiltration		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<22>				<22>				<24>				<24>			
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 13

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<22>				<22>				<24>				<24>			
	ulcer:forestomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	ulcer:glandular stomach		0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(9)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		7	1	0	0	13	0	0	0	11	0	0	0	7	1	0	0
			(32)	(5)	(0)	(0)	(59)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(29)	(4)	(0)	(0)
liver			<22>				<22>				<24>				<24>			
	angiectasis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(9)	(5)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<22>				<22>				<24>				<24>			
	deposit of amyloid		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<22>				<22>				<24>				<24>			
	inflammatory polyp		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(4)	(0)	(8)	(0)	(0)	(0)	(0)	(0)
	eosinophilic droplet:proximal tubule		2	3	1	0	0	4	2	0	0	7	2	0	2	8	2	0
			(9)	(14)	(5)	(0)	(0)	(18)	(9)	(0)	(0)	(29)	(8)	(0)	(8)	(33)	(8)	(0)
urin bladd			<22>				<22>				<24>				<24>			
	dilatation		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<22>				<22>				<24>				<24>			
	angiectasis		4	1	0	0	1	1	0	0	0	3	0	0	0	0	0	0 *
			(18)	(5)	(0)	(0)	(5)	(5)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		1	0	0	0	3	0	0	0	1	2	2	0	0	0	0	0
			(5)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(8)	(8)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<22>				<22>				<24>				<24>			
	follicular hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<22>				<22>				<24>				<24>			
	fatty metamorphosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		16	3	0	0	17	2	0	0	19	2	0	0	20	0	0	0
			(73)	(14)	(0)	(0)	(77)	(9)	(0)	(0)	(79)	(8)	(0)	(0)	(83)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<22>				<22>				<24>				<23>			
	angiectasis		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	22				22				24				24			
Organ	Findings	Grade	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary	hyperplasia		<22>				<22>				<24>				<23>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
uterus	necrosis		<22>				<22>				<24>				<24>			
		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
				(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia		12	2	0	0	6	8	1	0	1	5	1	0 **	6	9	0	0 *
			(55)	(9)	(0)	(0)	(27)	(36)	(5)	(0)	(4)	(21)	(4)	(0)	(25)	(38)	(0)	(0)
{Nervous system}																		
brain	hemorrhage		<22>				<22>				<24>				<24>			
		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	degeneration:cornea		<22>				<22>				<24>				<24>			
		0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				12.5 ppm 22				25 ppm 24				50 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Musculoskeletal system}

muscle	mineralization	<22>				<22>				<24>				<24>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(4)	(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

(HPT150)

BAIS4

APPENDIX L 6

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				12.5 ppm				25 ppm				50 ppm				
		No. of Animals on Study	28				28				26				26				
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}																			
nasal cavit			<28>				<28>				<26>				<26>				
	exudate		1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	mineralization		1	0	0	0	4	0	0	0	3	0	0	0	2	0	0	0	
			(4)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
	inflammation		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
eosinophilic change:olfactory epithelium		12	0	0	0	14	1	0	0	11	0	0	0	8	0	0	0		
		(43)	(0)	(0)	(0)	(50)	(4)	(0)	(0)	(42)	(0)	(0)	(0)	(31)	(0)	(0)	(0)		
eosinophilic change:respiratory epithelium		22	5	0	0	18	6	0	0	22	2	0	0	18	4	0	0		
		(79)	(18)	(0)	(0)	(64)	(21)	(0)	(0)	(85)	(8)	(0)	(0)	(69)	(15)	(0)	(0)		
respiratory metaplasia:olfactory epithelium		10	0	0	0	11	0	0	0	10	0	0	0	8	0	0	0		
		(36)	(0)	(0)	(0)	(39)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(31)	(0)	(0)	(0)		
respiratory metaplasia:gland		13	0	0	0	17	0	0	0	14	0	0	0	17	0	0	0		
		(46)	(0)	(0)	(0)	(61)	(0)	(0)	(0)	(54)	(0)	(0)	(0)	(65)	(0)	(0)	(0)		

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[Crl:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<28>				<28>				<26>				<26>			
	atrophy:olfactory epithelium		18	0	0	0	21	0	0	0	21	0	0	0	13	0	0	0
			(64)	(0)	(0)	(0)	(75)	(0)	(0)	(0)	(81)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
nasopharynx			<28>				<28>				<26>				<26>			
	eosinophilic change		3	1	0	0	7	2	0	0	1	2	0	0	4	2	0	0
			(11)	(4)	(0)	(0)	(25)	(7)	(0)	(0)	(4)	(8)	(0)	(0)	(15)	(8)	(0)	(0)
lung			<28>				<28>				<26>				<26>			
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
spleen			<28>				<28>				<26>				<26>			
	thrombus		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		3	0	0	0	2	0	0	0	3	0	0	0	6	1	1	0
			(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(23)	(4)	(4)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 28				12.5 ppm 28				25 ppm 26				50 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<28>				<28>				<26>				<26>			
	deposit of melanin		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		4	1	0	0	2	1	0	0	1	0	0	0	3	1	0	0
		(14)	(4)	(0)	(0)	(7)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(12)	(4)	(0)	(0)	
	follicular hyperplasia		3	1	0	0	0	0	0	0	3	0	0	0	2	0	0	0
			(11)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
{Digestive system}																		
tooth			<28>				<28>				<26>				<26>			
	dysplasia		6	6	0	0	6	5	0	0	4	5	0	0	9	3	0	0
		(21)	(21)	(0)	(0)	(21)	(18)	(0)	(0)	(15)	(19)	(0)	(0)	(35)	(12)	(0)	(0)	
salivary gl			<28>				<28>				<26>				<26>			
	lymphocytic infiltration		5	0	0	0	1	0	0	0	6	0	0	0	7	0	0	0
			(18)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(27)	(0)	(0)	(0)
stomach			<28>				<28>				<26>				<26>			
	erosion:forestomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Crj[BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<28>				<28>				<26>				<26>			
	ulcer:forestomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		3	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:glandular stomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hyperplasia:glandular stomach		26	1	0	0	22	2	0	0	17	4	0	0 *	23	3	0	0
			(93)	(4)	(0)	(0)	(79)	(7)	(0)	(0)	(65)	(15)	(0)	(0)	(88)	(12)	(0)	(0)
small intes			<28>				<28>				<26>				<26>			
	deposit of amyloid		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<28>				<28>				<26>				<26>			
	angiectasis		2	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0
			(7)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(4)	(4)	(0)	(0)	(0)	(4)	(0)	(0)
	inflammatory cell nest		8	1	0	0	4	1	0	0	5	0	0	0	5	0	0	0
			(29)	(4)	(0)	(0)	(14)	(4)	(0)	(0)	(19)	(0)	(0)	(0)	(19)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<28>				<28>				<26>				<26>			
	clear cell focus		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
	biliary cyst		0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	
			(0)	(4)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
gall bladd			<28>				<28>				<26>				<26>			
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Urinary system}																		
kidney			<28>				<28>				<26>				<26>			
	cyst		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
	lymphocytic infiltration		3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
			(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)		
	scar		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)		

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<28>				<28>				<26>				<26>			
	inflammatory polyp		0	2	0	0	1	1	0	0	0	0	0	0	1	1	0	0
			(0)	(7)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)
	hydronephrosis		0	0	4	0	0	2	1	0	0	0	0	0	0	0	2	0
			(0)	(0)	(14)	(0)	(0)	(7)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)
	eosinophilic droplet:proximal tubule		2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0
			(7)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)
urin bladd			<28>				<28>				<26>				<26>			
	lymphocytic infiltration		3	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0
			(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<28>				<28>				<26>				<26>			
	angiectasis		2	1	0	0	1	1	0	0	0	0	0	0	2	0	0	0
			(7)	(4)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

		Group Name	Control				12.5 ppm				25 ppm				50 ppm				
		No. of Animals on Study	28				28				26				26				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Endocrine system}																			
pituitary			<28>				<28>				<26>				<26>				
	hyperplasia		2 (7)	2 (7)	0 (0)	0 (0)	5 (18)	2 (7)	0 (0)	0 (0)	2 (8)	3 (12)	0 (0)	0 (0)	4 (15)	2 (8)	1 (4)	0 (0)	
	Rathke pouch		1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
thyroid			<28>				<28>				<26>				<26>				
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
adrenal			<28>				<28>				<26>				<26>				
	fatty metamorphosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	
		spindle-cell hyperplasia		17 (61)	11 (39)	0 (0)	0 (0)	22 (79)	5 (18)	0 (0)	0 (0)	20 (77)	4 (15)	0 (0)	0 (0)	15 (58)	11 (42)	0 (0)	0 (0)
		focal fatty change:cortex		1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
{Reproductive system}																			
ovary			<28>				<28>				<26>				<26>				
	angiectasis		0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

		Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary			<28>				<28>				<26>				<26>			
	cyst		2	0	0	0	6	0	0	0	5	0	0	0	4	0	0	0
			(7)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
	mineralization		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
uterus			<28>				<28>				<26>				<26>			
	decidual change		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia		14	7	1	0	6	15	2	0	11	9	1	0	6	15	3	0 *
			(50)	(25)	(4)	(0)	(21)	(54)	(7)	(0)	(42)	(35)	(4)	(0)	(23)	(58)	(12)	(0)
{Nervous system}																		
brain			<28>				<28>				<26>				<26>			
	hemorrhage		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ_____	Findings_____	Group Name	Control				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	28				28				26				26			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye	keratitis		<28>				<28>				<26>				<26>			
		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
degeneration:cornea	1	0	0	0	3	0	0	0	0	0	0	0	5	0	0	0		
	(4)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(19)	(0)	(0)	(0)		
Harder gl	inflammatory infiltration		<28>				<28>				<26>				<26>			
		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
hyperplasia	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)		
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

(HPT150)

BAIS4

APPENDIX M 1

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Time-related Weeks	Items	Group Name	Control	12.5 ppm	25 ppm	50 ppm
0 - 52	NO. OF EXAMINED ANIMALS		2	2	2	3
	NO. OF ANIMALS WITH TUMORS		0	0	1	1
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	1	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	1	1
	NO. OF TOTAL TUMORS		0	0	1	1
53 - 78	NO. OF EXAMINED ANIMALS		1	4	2	3
	NO. OF ANIMALS WITH TUMORS		1	4	2	2
	NO. OF ANIMALS WITH SINGLE TUMORS		1	4	2	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	1	1	0
	NO. OF MALIGNANT TUMORS		1	3	1	2
	NO. OF TOTAL TUMORS		1	4	2	2
79 - 104	NO. OF EXAMINED ANIMALS		12	9	12	13
	NO. OF ANIMALS WITH TUMORS		11	6	11	11
	NO. OF ANIMALS WITH SINGLE TUMORS		8	5	5	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	1	6	7
	NO. OF BENIGN TUMORS		5	0	4	7
	NO. OF MALIGNANT TUMORS		11	7	15	14
	NO. OF TOTAL TUMORS		16	7	19	21
105 - 105	NO. OF EXAMINED ANIMALS		35	35	34	31
	NO. OF ANIMALS WITH TUMORS		23	21	24	24
	NO. OF ANIMALS WITH SINGLE TUMORS		10	10	15	13
	NO. OF ANIMALS WITH MULTIPLE TUMORS		13	11	9	11
	NO. OF BENIGN TUMORS		19	13	22	24
	NO. OF MALIGNANT TUMORS		20	22	15	17
	NO. OF TOTAL TUMORS		39	35	37	41

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Time-related Weeks	Items	Group Name	Control	12.5 ppm	25 ppm	50 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		35	31	38	38
	NO. OF ANIMALS WITH SINGLE TUMORS		19	19	23	20
	NO. OF ANIMALS WITH MULTIPLE TUMORS		16	12	15	18
	NO. OF BENIGN TUMORS		24	14	27	31
	NO. OF MALIGNANT TUMORS		32	32	32	34
	NO. OF TOTAL TUMORS		56	46	59	65
(HPT070)			BAIS4			

APPENDIX M 2

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Time-related Weeks	Items_____	Group Name	Control	12.5 ppm	25 ppm	50 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		4	8	5	3
	NO. OF ANIMALS WITH TUMORS		3	8	5	3
	NO. OF ANIMALS WITH SINGLE TUMORS		3	6	4	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	2	1	0
	NO. OF BENIGN TUMORS		0	1	0	0
	NO. OF MALIGNANT TUMORS		3	9	6	3
	NO. OF TOTAL TUMORS		3	10	6	3
79 - 104	NO. OF EXAMINED ANIMALS		17	14	19	21
	NO. OF ANIMALS WITH TUMORS		17	13	19	20
	NO. OF ANIMALS WITH SINGLE TUMORS		9	11	16	10
	NO. OF ANIMALS WITH MULTIPLE TUMORS		8	2	3	10
	NO. OF BENIGN TUMORS		8	6	6	7
	NO. OF MALIGNANT TUMORS		18	12	17	25
	NO. OF TOTAL TUMORS		26	18	23	32
105 - 105	NO. OF EXAMINED ANIMALS		28	28	26	26
	NO. OF ANIMALS WITH TUMORS		25	24	19	21
	NO. OF ANIMALS WITH SINGLE TUMORS		8	10	5	7
	NO. OF ANIMALS WITH MULTIPLE TUMORS		17	14	14	14
	NO. OF BENIGN TUMORS		26	18	20	17
	NO. OF MALIGNANT TUMORS		18	27	20	25
	NO. OF TOTAL TUMORS		44	45	40	42

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Time-related Weeks	Items	Group Name	Control	12.5 ppm	25 ppm	50 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		45	45	43	44
	NO. OF ANIMALS WITH SINGLE TUMORS		20	27	25	20
	NO. OF ANIMALS WITH MULTIPLE TUMORS		25	18	18	24
	NO. OF BENIGN TUMORS		34	25	26	24
	NO. OF MALIGNANT TUMORS		39	48	43	53
	NO. OF TOTAL TUMORS		73	73	69	77

(HPT070)

BAIS4

APPENDIX N 1

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	1 (2%)	1 (2%)
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
	plasmacytoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		3 (6%)	3 (6%)	4 (8%)	4 (8%)
	bronchiolar-alveolar carcinoma		8 (16%)	8 (16%)	5 (10%)	8 (16%)
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
lymph node			<50>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	malignant lymphoma		4 (8%)	7 (14%)	6 (12%)	4 (8%)

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

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
(Hematopoietic system)						
lymph node	mastcytoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
spleen	hemangioma		<50> 3 (6%)	<50> 0 (0%)	<50> 2 (4%)	<50> 4 (8%)
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	malignant lymphoma		4 (8%)	3 (6%)	2 (4%)	1 (2%)
	hemangiosarcoma		1 (2%)	1 (2%)	1 (2%)	2 (4%)
(Digestive system)						
salivary gl	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	histiocytic sarcoma		4 (8%)	0 (0%)	0 (0%)	0 (0%)
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)
liver	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)	<50> 3 (6%)
	hepatocellular adenoma		12 (24%)	7 (14%)	13 (26%)	12 (24%)
	histiocytic sarcoma		2 (4%)	1 (2%)	2 (4%)	1 (2%)
	hemangiosarcoma		2 (4%)	5 (10%)	5 (10%)	5 (10%)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Crj[Crlj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Digestive system}						
liver			<50>	<50>	<50>	<50>
	hepatocellular carcinoma		3 (6%)	2 (4%)	5 (10%)	3 (6%)
pancreas			<50>	<50>	<50>	<50>
	adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
{Urinary system}						
urin bladd			<50>	<50>	<49>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<50>	<49>	<49>
	adenoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma:malignant		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Reproductive system}						
testis			<50>	<50>	<50>	<50>
	interstitial cell tumor		0 (0%)	0 (0%)	1 (2%)	0 (0%)
epididymis			<50>	<50>	<50>	<50>
	xanthoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	3 (6%)	1 (2%)
prostate			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ_____	Findings_____	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	glioma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
periph nerv			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<50>
	adenoma		2 (4%)	1 (2%)	1 (2%)	5 (10%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Body cavities}						
mediastinum			<50>	<50>	<50>	<50>
	hemangiosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
peritoneum			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
retroperit			<50>	<50>	<50>	<50>
	hemangiosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)

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

(HPT085)

BAIS4

APPENDIX N 2

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Crj[Crl:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Integumentary system/appandage}						
subcutis	hemangioma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	2 (4%)
	trichoepithelioma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	melanoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
{Respiratory system}						
nasal cavit	schwannoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
lung	bronchiolar-alveolar adenoma		<50> 3 (6%)	<50> 2 (4%)	<50> 3 (6%)	<50> 2 (4%)
	bronchiolar-alveolar carcinoma		0 (0%)	1 (2%)	2 (4%)	1 (2%)
{Hematopoietic system}						
bone marrow	hemangioma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
lymph node			<50>	<50>	<50>	<50>
	malignant lymphoma		16 (32%)	25 (50%)	22 (44%)	20 (40%)
<div> <div>< a ></div> <div>a : Number of animals examined at the site</div> </div> <div> <div>b (c)</div> <div>b : Number of animals with neoplasm</div> </div> <div> <div>c : b / a * 100</div> </div>						

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Hematopoietic system}						
lymph node	mastcytoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
spleen	hemangioma		<50> 3 (6%)	<50> 3 (6%)	<50> 1 (2%)	<50> 1 (2%)
	malignant lymphoma		6 (12%)	4 (8%)	3 (6%)	7 (14%)
	mastcytoma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Digestive system}						
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
large intes	leiomyoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
liver	hemangioma		<50> 1 (2%)	<50> 2 (4%)	<50> 3 (6%)	<50> 2 (4%)
	hepatocellular adenoma		10 (20%)	7 (14%)	4 (8%)	7 (14%)
	histiocytic sarcoma		3 (6%)	2 (4%)	1 (2%)	4 (8%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	2 (4%)
pancreas	adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Endocrine system}						
pituitary	adenoma		<50> 7 (14%)	<50> 7 (14%)	<50> 8 (16%)	<50> 4 (8%)

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
thyroid			<50>	<50>	<50>	<50>
	C-cell carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Reproductive system}						
ovary			<50>	<50>	<50>	<49>
	adenoma		5 (10%)	0 (0%)	0 (0%)	3 (6%)
uterus			<50>	<50>	<50>	<50>
	leiomyoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	endometrial stromal polyp		1 (2%)	1 (2%)	2 (4%)	1 (2%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<50>
	adenoma		3 (6%)	0 (0%)	3 (6%)	1 (2%)
{Body cavities}						
pleura			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)

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

APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	3/50(6.0)	4/50(8.0)	4/50(8.0)
Adjusted rates(b)	8.57	8.57	10.00	10.26
Terminal rates(c)	3/35(8.6)	3/35(8.6)	3/34(8.8)	3/31(9.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2993			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6395			
Fisher Exact test(e)		P = 0.6611	P = 0.5000	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	8/50(16.0)	5/50(10.0)	8/50(16.0)
Adjusted rates(b)	11.63	20.00	11.76	19.35
Terminal rates(c)	4/35(11.4)	7/35(20.0)	4/34(11.8)	6/31(19.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8077			
Prevalence method(d)	P = 0.2906			
Combined analysis(d)	P = 0.4777			
Cochran-Armitage test(e)	P = 0.9189			
Fisher Exact test(e)		P = 0.6071	P = 0.2768	P = 0.6071
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	11/50(22.0)	9/50(18.0)	12/50(24.0)
Adjusted rates(b)	20.00	28.57	20.59	29.03
Terminal rates(c)	7/35(20.0)	10/35(28.6)	7/34(20.6)	9/31(29.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8077			
Prevalence method(d)	P = 0.2201			
Combined analysis(d)	P = 0.3694			
Cochran-Armitage test(e)	P = 0.8386			
Fisher Exact test(e)		P = 0.5952	P = 0.4016	P = 0.5000

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	7/50(14.0)	6/50(12.0)	4/50(8.0)
Adjusted rates(b)	11.43	14.29	8.82	3.23
Terminal rates(c)	4/35(11.4)	5/35(14.3)	3/34(8.8)	1/31(3.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0703			
Prevalence method(d)	P = 0.9170			
Combined analysis(d)	P = 0.5265			
Cochran-Armitage test(e)	P = 0.7849			
Fisher Exact test(e)		P = 0.2623	P = 0.3703	P = 0.6425
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	2/50(4.0)	4/50(8.0)
Adjusted rates(b)	7.89	0.0	4.65	10.81
Terminal rates(c)	2/35(5.7)	0/35(0.0)	1/34(2.9)	2/31(6.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1623			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3270			
Fisher Exact test(e)		P = 0.1212	P = 0.5000	P = 0.5000
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	11.43	5.71	5.88	3.23
Terminal rates(c)	4/35(11.4)	2/35(5.7)	2/34(5.9)	1/31(3.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5808			
Prevalence method(d)	P = 0.8881			
Combined analysis(d)	P = 0.9063			
Cochran-Armitage test(e)	P = 0.1539			
Fisher Exact test(e)		P = 0.5000	P = 0.3389	P = 0.1811

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	1/50(2.0)	3/50(6.0)	6/50(12.0)
Adjusted rates(b)	10.53	2.86	4.76	13.51
Terminal rates(c)	3/35(8.6)	1/35(2.9)	1/34(2.9)	3/31(9.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1228			
Prevalence method(d)	P = 0.1929			
Combined analysis(d)	P = 0.1021			
Cochran-Armitage test(e)	P = 0.2232			
Fisher Exact test(e)		P = 0.1811	P = 0.5000	P = 0.3703
SITE : salivary gland TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	0/50(0.0)	0/50(0.0)	0/50(0.0)
Adjusted rates(b)	5.71	0.0	0.0	0.0
Terminal rates(c)	2/35(5.7)	0/35(0.0)	0/34(0.0)	0/31(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9739 ?			
Prevalence method(d)	P = 0.9751 ?			
Combined analysis(d)	P = 0.9977			
Cochran-Armitage test(e)	P = 0.0168*			
Fisher Exact test(e)		P = 0.0587	P = 0.0587	P = 0.0587
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	0/50(0.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	2.86	0.0	5.88	8.33
Terminal rates(c)	1/35(2.9)	0/35(0.0)	2/34(5.9)	2/31(6.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0559			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1232			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3087

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	12/50(24.0)	7/50(14.0)	13/50(26.0)	12/50(24.0)
Adjusted rates(b)	28.95	17.14	32.43	32.26
Terminal rates(c)	10/35(28.6)	6/35(17.1)	11/34(32.4)	10/31(32.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8744			
Prevalence method(d)	P = 0.1679			
Combined analysis(d)	P = 0.2585			
Cochran-Armitage test(e)	P = 0.6443			
Fisher Exact test(e)		P = 0.1540	P = 0.5000	P = 0.5924
SITE : liver TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	5/50(10.0)	5/50(10.0)	5/50(10.0)
Adjusted rates(b)	0.0	8.57	8.33	9.09
Terminal rates(c)	0/35(0.0)	3/35(8.6)	1/34(2.9)	2/31(6.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4697			
Prevalence method(d)	P = 0.0872			
Combined analysis(d)	P = 0.1539			
Cochran-Armitage test(e)	P = 0.3681			
Fisher Exact test(e)		P = 0.2180	P = 0.2180	P = 0.2180
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	7.50	5.71	9.52	6.45
Terminal rates(c)	2/35(5.7)	2/35(5.7)	2/34(5.9)	2/31(6.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1222			
Prevalence method(d)	P = 0.5623			
Combined analysis(d)	P = 0.3631			
Cochran-Armitage test(e)	P = 0.8085			
Fisher Exact test(e)		P = 0.5000	P = 0.3575	P = 0.6611

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	5/50(10.0)	7/50(14.0)	8/50(16.0)
Adjusted rates(b)	2.86	8.57	13.89	16.67
Terminal rates(c)	1/35(2.9)	3/35(8.6)	3/34(8.8)	4/31(12.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4697			
Prevalence method(d)	P = 0.0185*			
Combined analysis(d)	P = 0.0457*			
Cochran-Armitage test(e)	P = 0.1072			
Fisher Exact test(e)		P = 0.3575	P = 0.1589	P = 0.0999
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	15/50(30.0)	9/50(18.0)	16/50(32.0)	14/50(28.0)
Adjusted rates(b)	35.00	22.86	36.84	35.48
Terminal rates(c)	12/35(34.3)	8/35(22.9)	12/34(35.3)	11/31(35.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4619			
Prevalence method(d)	P = 0.2997			
Combined analysis(d)	P = 0.3031			
Cochran-Armitage test(e)	P = 0.7878			
Fisher Exact test(e)		P = 0.1207	P = 0.5000	P = 0.5000
SITE : epididymis TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	0/50(0.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	0.0	0.0	5.88	0.0
Terminal rates(c)	0/35(0.0)	0/35(0.0)	2/34(5.9)	0/31(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3638			
Prevalence method(d)	P = 0.3642			
Combined analysis(d)	P = 0.3220			
Cochran-Armitage test(e)	P = 0.7019			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.7525

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	1/50(2.0)	1/50(2.0)	5/50(10.0)
Adjusted rates(b)	5.26	2.86	2.94	15.15
Terminal rates(c)	1/35(2.9)	1/35(2.9)	1/34(2.9)	4/31(12.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0362*			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0945			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.2180
SITE : Harderian gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	2/50(4.0)	1/50(2.0)	5/50(10.0)
Adjusted rates(b)	5.26	5.71	2.94	15.15
Terminal rates(c)	1/35(2.9)	2/35(5.7)	1/34(2.9)	4/31(12.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0579			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1539			
Fisher Exact test(e)		P = 0.6913	P = 0.5000	P = 0.2180

(HPT360A)

BAIS4

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

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	5/50(10.0)	1/50(2.0)	5/50(10.0)	8/50(16.0)
Adjusted rates(b)	13.16	2.86	9.30	21.62
Terminal rates(c)	4/35(11.4)	1/35(2.9)	3/34(8.8)	5/31(16.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3906			
Prevalence method(d)	P = 0.0497*			
Combined analysis(d)	P = 0.0497*			
Cochran-Armitage test(e)	P = 0.1119			
Fisher Exact test(e)		P = 0.1022	P = 0.6297	P = 0.2768
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	10/50(20.0)	8/50(16.0)	5/50(10.0)
Adjusted rates(b)	22.86	20.00	14.71	6.45
Terminal rates(c)	8/35(22.9)	7/35(20.0)	5/34(14.7)	2/31(6.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1073			
Prevalence method(d)	P = 0.9750			
Combined analysis(d)	P = 0.7962			
Cochran-Armitage test(e)	P = 0.2758			
Fisher Exact test(e)		P = 0.3976	P = 0.6071	P = 0.2768

(HPT360A)

BAIS4

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	5/50(10.0)	6/50(12.0)	9/50(18.0)
Adjusted rates(b)	5.71	8.57	8.33	16.67
Terminal rates(c)	2/35(5.7)	3/35(8.6)	1/34(2.9)	4/31(12.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2711			
Prevalence method(d)	P = 0.0423*			
Combined analysis(d)	P = 0.0456*			
Cochran-Armitage test(e)	P = 0.1056			
Fisher Exact test(e)		P = 0.5000	P = 0.3703	P = 0.1168

(HPT360A)

BAIS4

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

APPENDIX O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS : FEMALE

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	3/50(6.0)	2/50(4.0)
Adjusted rates(b)	10.71	7.14	10.00	7.14
Terminal rates(c)	3/28(10.7)	2/28(7.1)	2/26(7.7)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5960			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7421			
Fisher Exact test(e)		P = 0.5000	P = 0.6611	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	3/50(6.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	10.71	8.57	13.33	10.71
Terminal rates(c)	3/28(10.7)	2/28(7.1)	3/26(11.5)	2/26(7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4612			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9254			
Fisher Exact test(e)		P = 0.6611	P = 0.3575	P = 0.6611
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	16/50(32.0)	25/50(50.0)	22/50(44.0)	20/50(40.0)
Adjusted rates(b)	28.57	50.00	38.46	35.29
Terminal rates(c)	8/28(28.6)	14/28(50.0)	10/26(38.5)	9/26(34.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5094			
Prevalence method(d)	P = 0.2825			
Combined analysis(d)	P = 0.3611			
Cochran-Armitage test(e)	P = 0.7160			
Fisher Exact test(e)		P = 0.0517	P = 0.1515	P = 0.2661

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	3/50(6.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	5.56	7.14	3.85	3.85
Terminal rates(c)	1/28(3.6)	2/28(7.1)	1/26(3.8)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8742			
Prevalence method(d)	P = 0.7456			
Combined analysis(d)	P = 0.8851			
Cochran-Armitage test(e)	P = 0.2225			
Fisher Exact test(e)		P = 0.6611	P = 0.3087	P = 0.3087
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	4/50(8.0)	3/50(6.0)	7/50(14.0)
Adjusted rates(b)	10.71	14.29	11.54	23.08
Terminal rates(c)	3/28(10.7)	4/28(14.3)	3/26(11.5)	6/26(23.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6593			
Prevalence method(d)	P = 0.2004			
Combined analysis(d)	P = 0.2840			
Cochran-Armitage test(e)	P = 0.6326			
Fisher Exact test(e)		P = 0.3703	P = 0.2435	P = 0.5000
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	2/50(4.0)	3/50(6.0)	2/50(4.0)
Adjusted rates(b)	3.57	7.14	6.90	7.69
Terminal rates(c)	1/28(3.6)	2/28(7.1)	1/26(3.8)	2/26(7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4065			
Prevalence method(d)	P = 0.3194			
Combined analysis(d)	P = 0.3102			
Cochran-Armitage test(e)	P = 0.6256			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.5000

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS--INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	7/50(14.0)	4/50(8.0)	7/50(14.0)
Adjusted rates(b)	30.00	17.86	15.38	19.23
Terminal rates(c)	8/28(28.6)	5/28(17.9)	4/26(15.4)	5/26(19.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5792			
Prevalence method(d)	P = 0.7740			
Combined analysis(d)	P = 0.7991			
Cochran-Armitage test(e)	P = 0.4084			
Fisher Exact test(e)		P = 0.2977	P = 0.0739	P = 0.2977
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	1/50(2.0)	4/50(8.0)
Adjusted rates(b)	0.0	7.14	0.0	4.55
Terminal rates(c)	0/28(0.0)	2/28(7.1)	0/26(0.0)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5508			
Prevalence method(d)	P = 0.1659			
Combined analysis(d)	P = 0.3041			
Cochran-Armitage test(e)	P = 0.5834			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.5000
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	2/50(4.0)	3/50(6.0)	4/50(8.0)
Adjusted rates(b)	7.14	7.14	6.90	11.54
Terminal rates(c)	2/28(7.1)	2/28(7.1)	1/26(3.8)	3/26(11.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4065			
Prevalence method(d)	P = 0.1679			
Combined analysis(d)	P = 0.1673			
Cochran-Armitage test(e)	P = 0.3192			
Fisher Exact test(e)		P = 0.6913	P = 0.5000	P = 0.3389

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS--INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	7/50(14.0)	8/50(16.0)	4/50(8.0)
Adjusted rates(b)	17.86	17.86	26.92	7.69
Terminal rates(c)	5/28(17.9)	5/28(17.9)	7/26(26.9)	2/26(7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7870			
Prevalence method(d)	P = 0.6979			
Combined analysis(d)	P = 0.8030			
Cochran-Armitage test(e)	P = 0.3555			
Fisher Exact test(e)		P = 0.6129	P = 0.5000	P = 0.2623
SITE : ovary TUMOR : adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	0/50(0.0)	0/50(0.0)	3/49(6.1)
Adjusted rates(b)	17.24	0.0	0.0	11.54
Terminal rates(c)	4/28(14.3)	0/28(0.0)	0/26(0.0)	3/26(11.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6763			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6401			
Fisher Exact test(e)		P = 0.0281*	P = 0.0281*	P = 0.3689
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	13/50(26.0)	13/50(26.0)	13/50(26.0)
Adjusted rates(b)	17.86	18.18	15.38	15.38
Terminal rates(c)	5/28(17.9)	5/28(17.9)	4/26(15.4)	4/26(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1435			
Prevalence method(d)	P = 0.6402			
Combined analysis(d)	P = 0.2845			
Cochran-Armitage test(e)	P = 0.5595			
Fisher Exact test(e)		P = 0.3176	P = 0.3176	P = 0.3176

STUDY No. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : Harderian gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	7.89	0.0	10.34	3.85
Terminal rates(c)	2/28(7.1)	0/28(0.0)	2/26(7.7)	1/26(3.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7056			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5583			
Fisher Exact test(e)		P = 0.1212	P = 0.6611	P = 0.3087

(HPT360A)

BAIS4

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

STUDY No. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	12.5 ppm	25 ppm	50 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	11.11	14.29	10.71	11.54
Terminal rates(c)	3/28(10.7)	4/28(14.3)	2/26(7.7)	3/26(11.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7315			
Prevalence method(d)	P = 0.6798			
Combined analysis(d)	P = 0.7706			
Cochran-Armitage test(e)	P = 0.4522			
Fisher Exact test(e)		P = 0.6297	P = 0.6297	P = 0.3575
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	22/50(44.0)	29/50(58.0)	25/50(50.0)	27/50(54.0)
Adjusted rates(b)	39.29	64.29	50.00	57.69
Terminal rates(c)	11/28(39.3)	18/28(64.3)	13/26(50.0)	15/26(57.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5608			
Prevalence method(d)	P = 0.1355			
Combined analysis(d)	P = 0.2725			
Cochran-Armitage test(e)	P = 0.5185			
Fisher Exact test(e)		P = 0.1150	P = 0.3444	P = 0.2119

(HPT360A)

BAIS4

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

APPENDIX P 1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	1	0
	metastasis:subcutis tumor		0	1	0	0
	metastasis:peripheral nerve tumor		0	0	0	1
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	3	2	1
	metastasis:liver tumor		0	1	1	3
	metastasis:subcutis tumor		0	1	0	0
	metastasis:epididymis tumor		0	0	1	0
	metastasis:salivary gland tumor		1	0	0	0
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	2	2	0
	metastasis:liver tumor		0	0	1	0
	metastasis:lung tumor		1	0	0	0
	metastasis:epididymis tumor		0	0	1	1
	metastasis:salivary gland tumor		1	0	0	0
	metastasis:lymph node tumor		0	0	0	1
lymph node			<50>	<50>	<50>	<50>
	metastasis:salivary gland tumor		1	0	0	0

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Group Name No. of Animals on Study		Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
Organ	Findings				
{Hematopoietic system}					
spleen		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	4	4	2
	metastasis:liver tumor	0	1	0	0
	metastasis:lung tumor	1	0	0	0
	metastasis:lymph node tumor	0	0	0	1
{Circulatory system}					
heart		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	1	0
	metastasis:liver tumor	1	1	0	0
	metastasis:subcutis tumor	0	1	0	0
	metastasis:lung tumor	1	0	0	0
	metastasis:salivary gland tumor	1	0	0	0
{Digestive system}					
salivary gl		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	0	2	0
stomach		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
	metastasis:liver tumor	1	0	0	0
small intes		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	2	0	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
{Digestive system}						
small intes	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:salivary gland tumor		1	0	0	0
liver	leukemic cell infiltration		<50> 4	<50> 3	<50> 5	<50> 0
	metastasis:pancreas tumor		0	0	0	1
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:subcutis tumor		0	1	0	1
	metastasis:spleen tumor		0	0	1	0
	metastasis:urinary bladder tumor		0	0	1	0
	metastasis:epididymis tumor		1	0	3	1
	metastasis:salivary gland tumor		2	0	0	0
gall bladd	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
pancreas	leukemic cell infiltration		<50> 3	<50> 0	<50> 0	<50> 0
	metastasis:liver tumor		1	0	1	0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 2	<50> 3	<50> 3	<50> 1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	1	0	0
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:subcutis tumor		0	1	0	0
	metastasis:lung tumor		1	0	0	0
	metastasis:salivary gland tumor		3	0	0	0
urin bladd	metastasis:lymph node tumor		0	0	0	1
	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<50> 0
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	metastasis:peripheral nerve tumor		0	0	0	2
adrenal			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	1	1	0
	metastasis:peritoneum tumor		0	0	1	0
{Reproductive system}						
epididymis			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	0	0	0
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:salivary gland tumor		1	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name No. of Animals on Study	Control 50	12.5 ppm 50	25 ppm 50	50 ppm 50
Organ	Findings					
{Reproductive system}						
semin ves			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	0
	metastasis:peritoneum tumor		0	0	1	0
prostate			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	0
	metastasis:liver tumor		1	0	0	0
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:epididymis tumor		0	0	1	0
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
	metastasis:peripheral nerve tumor		0	0	0	1
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<50>
	metastasis:salivary gland tumor		1	0	0	0
{Musculoskeletal system}						
muscle			<50>	<50>	<50>	<50>
	metastasis:lung tumor		1	0	0	0
bone			<50>	<50>	<50>	<50>
	metastasis:lung tumor		1	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0515
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ_____	Findings_____					
{Body cavities}						
pleura			<50>	<50>	<50>	<50>
	metastasis:lung tumor		1	0	0	0
peritoneum			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	1	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
(JPT150)						BAIS4

APPENDIX P 2

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

FEMALE

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	1	0
	metastasis:lymph node tumor		0	0	0	1
subcutis			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	2	6	0
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		1	0	1	0
	metastasis:pancreas tumor		0	0	1	0
	metastasis:preputial/clitoral gland tumor		0	1	0	0
	metastasis:lymph node tumor		0	0	0	1
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	4	2
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	0	1	0
	metastasis:lymph node tumor		0	0	0	1
nasopharynx			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
larynx			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	3	4
< a >		a : Number of animals examined at the site				
b		b : Number of animals with lesion				

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Respiratory system}						
larynx			<50>	<50>	<50>	<50>
	metastasis:thyroid tumor		1	0	0	0
trachea			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	1
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		13	13	14	18
	metastasis:liver tumor		1	0	1	2
	metastasis:uterus tumor		3	4	2	3
	metastasis:lymph node tumor		0	0	0	1
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		7	6	9	5
	metastasis:liver tumor		3	0	0	0
	metastasis:uterus tumor		1	1	5	2
	metastasis:subcutis tumor		0	0	0	2
lymph node	metastasis:lymph node tumor		0	0	0	1
			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	1	1
	metastasis:uterus tumor		0	1	3	0
	metastasis:pancreas tumor		0	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 9

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Hematopoietic system}						
lymph node			<50>	<50>	<50>	<50>
	metastasis:subcutis tumor		0	1	0	0
thymus			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		10	21	21	14
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	0	4	0
	metastasis:pancreas tumor		0	0	1	0
	metastasis:lymph node tumor		0	0	0	1
{Circulatory system}						
heart			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	11	6	12
	metastasis:uterus tumor		0	1	0	0
	metastasis:pancreas tumor		0	0	1	0
{Digestive system}						
tongue			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	2	5	6
	metastasis:spleen tumor		0	0	1	0
salivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		13	11	11	14

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Digestive system}						
salivary gl			<50>	<50>	<50>	<50>
	metastasis:pancreas tumor		0	0	1	0
stomach			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	2	0
small intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	1	1
large intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	1
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		9	14	15	18
	metastasis:uterus tumor		5	6	9	8
	metastasis:subcutis tumor		0	0	0	1
	metastasis:spleen tumor		0	0	1	0
	metastasis:lymph node tumor		0	0	0	1
gall bladd			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	0	1
pancreas			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	4	6	5
	metastasis:uterus tumor		1	3	2	0
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		8	11	8	14
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 11

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		1	2	4	1
	metastasis:pancreas tumor		0	0	1	0
	metastasis:lymph node tumor		0	0	0	1
urin bladd			<50>	<50>	<50>	<50>
	leukemic cell infiltration		6	15	14	14
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	1	2	0
	metastasis:subcutis tumor		1	0	0	0
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	0	1	0
thyroid			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	2	2
	metastasis:lymph node tumor		0	0	0	1
adrenal			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	3	0
	metastasis:uterus tumor		0	1	0	0
	metastasis:pancreas tumor		0	0	1	0
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	8	9	3

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 12

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		2	1	5	7
	metastasis:pancreas tumor		0	0	1	0
uterus			<50>	<50>	<50>	<50>
	leukemic cell infiltration		7	8	8	5
vagina			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	7	7	6
	metastasis:uterus tumor		1	1	1	0
	metastasis:subcutis tumor		1	0	0	0
mammary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	4	5	2
	metastasis:lymph node tumor		0	0	0	1
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	1	1
spinal cord			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0
periph nerv			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	0	1	0
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	3	4

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

STUDY NO. : 0515
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 13

		Group Name	Control	12.5 ppm	25 ppm	50 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Special sense organs/appendage}						
Harder gl	metastasis:uterus tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<50> 2	<50> 3	<50> 6	<50> 5
bone	metastasis:uterus tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Body cavities}						
mediastinum	leukemic cell infiltration		<50> 0	<50> 2	<50> 1	<50> 1
peritoneum	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<50> 1
	metastasis:uterus tumor		1	0	0	1
	metastasis:pancreas tumor		0	0	1	0
retroperit	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<50> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS4

APPENDIX Q

METHODS, UNITS AND DECIMAL PLACE FOR
HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR
INHALATION STUDY OF PROPIONONITRILE

METHODS, UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Item	Method	Unit	Decimal place
Hematology			
Red blood cell (RBC)	Light scattering method ¹⁾	$\times 10^6/\mu\text{L}$	2
Hemoglobin(Hgb)	Cyanmethemoglobin method ¹⁾	g/dL	1
Hematocrit(Hct)	Calculated as $\text{RBC} \times \text{MCV}/10$ ¹⁾	%	1
Mean corpuscular volume(MCV)	Light scattering method ¹⁾	fL	1
Mean corpuscular hemoglobin(MCH)	Calculated as $\text{Hgb}/\text{RBC} \times 10$ ¹⁾	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as $\text{Hgb}/\text{Hct} \times 100$ ¹⁾	g/dL	1
Platelet	Light scattering method ¹⁾	$\times 10^3/\mu\text{L}$	0
Reticulocyte	Light scattering method ¹⁾	%	1
White blood cell(WBC)	Light scattering method ¹⁾	$\times 10^3/\mu\text{L}$	2
Differential WBC	Pattern recognition method ²⁾ (Wright staining)	%	0
Biochemistry			
Total protein(TP)	Biuret method ³⁾	g/dL	1
Albumin (Alb)	BCG method ³⁾	g/dL	1
A/G ratio	Calculated as $\text{Alb}/(\text{TP} - \text{Alb})$ ³⁾	—	1
T-bilirubin	Alkaline azobilirubin method ³⁾	mg/dL	2
Glucose	GlcK·G-6-PDH method ³⁾	mg/dL	0
T-cholesterol	CE·COD·POD method ³⁾	mg/dL	0
Triglyceride	LPL·GK·GPO·POD method ³⁾	mg/dL	0
Phospholipid	PLD·ChOD·POD method ³⁾	mg/dL	0
Aspartate aminotransferase (AST)	JSCC method ³⁾	IU/L	0
Alanine aminotransferase (ALT)	JSCC method ³⁾	IU/L	0
Lactate dehydrogenase (LDH)	SFBC method ³⁾	IU/L	0
Alkaline phosphatase (ALP)	GSCC method ³⁾	IU/L	0
γ -Glutamyl transpeptidase (γ -GTP)	JSCC method ³⁾	IU/L	0
Creatine kinase (CK)	JSCC method ³⁾	IU/L	0
Urea nitrogen	Urease·GLDH method ³⁾	mg/dL	1
Sodium	Ion selective electrode method ³⁾	mEq/L	0
Potassium	Ion selective electrode method ³⁾	mEq/L	1
Chloride	Ion selective electrode method ³⁾	mEq/L	0
Calcium	OCPC method ³⁾	mg/dL	1
Inorganic phosphorus	PNP·XOD·POD method ³⁾	mg/dL	1

1) Automatic blood cell analyzer (ADVIA120 : Bayer Corporation)

2) Automatic blood cell differential analyzer (MICROX HEG-120NA : OMRON Corporation)

3) Automatic analyzer (Hitachi 7080 : Hitachi,Ltd.)