グリオキサルのマウスを用いた経口投与によるが ん 原 性 試 験 (混 水 試 験)報告書

試験番号:0268

APPENDIX

APPENDIXES

APPENDIX A 1 CLINICAL OBSERVATION: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX A 2 CLINICAL OBSERVATION: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX B 1 BODY WEIGHT CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX B 2 BODY WEIGHT CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX C 1 WATER CONSUMPTION CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX C 2 WATER CONSUMPTION CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX D 1 FOOD CONSUMPTION CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX D 2 FOOD CONSUMPTION CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX E 1 CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX E 2 CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX F 1 HEMATOLOGY: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX F 2 HEMATOLOGY: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY) APPENDIX G 1 BIOCHEMISTRY: SUMMARY, MOUSE: MALE (2-YEAR STUDY) APPENDIX G 2 BIOCHEMISTRY: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

APPENDIXES (CONTINUED)

APPENDIX H 1	URINALYSIS: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX H 2	URINALYSIS: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX I 1	GROSS FINDINGS: SUMMARY, MOUSE: MALE: ALL ANIMALS
AFFENDIATI	(2-YEAR STUDY)
APPENDIX I 2	,
APPENDIA 12	GROSS FINDINGS: SUMMARY, MOUSE: MALE
APPENDIX I 3	: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY) GROSS FINDINGS: SUMMARY, MOUSE: MALE
AFFENDIA 15	·
APPENDIX I 4	: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIA 14	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE
ADDENIOUS I F	: ALL ANIMALS (2-YEAR STUDY)
APPENDIX I 5	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE
A DDEN IDIX I a	: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX I 6	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE
	: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX J 1	ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: MALE
	(2-YEAR STUDY)
APPENDIX J 2	ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: FEMALE
	(2-YEAR STUDY)
APPENDIX K 1	ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: MALE
	(2-YEAR STUDY)
APPENDIX K 2	ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: FEMALE
THE ENDING 1	(2-YEAR STUDY)
	(2-1EARO10D1)
APPENDIX L 1	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS:
	SUMMARY, MOUSE: MALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX L 2	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS:
	SUMMARY, MOUSE: MALE: DEAD AND MORIBUND ANIMALS
	(2-YEAR STUDY)
APPENDIX L 3	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS:
· · · · · · · · · · · · · · · · · · ·	SUMMARY, MOUSE: MALE: SACRIFICED ANIMALS
	(2-YEAR STUDY)
	\=,

APPENDIXES (CONTINUED)

- APPENDIX L 4 HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE: ALL ANIMALS (2-YEAR STUDY)
- APPENDIX L 5 HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE:

 DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
- APPENDIX L 6 HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE: SACRIFICED ANIMALS (2-YEAR STUDY)
- APPENDIX M 1 NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED, MOUSE: MALE (2-YEAR STUDY)
- APPENDIX M 2 NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED, MOUSE: FEMALE (2-YEAR STUDY)
- APPENDIX N 1 HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE : ALL ANIMALS (2-YEAR STUDY)
- APPENDIX N 2 HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE : ALL ANIMALS (2-YEAR STUDY)
- APPENDIX O 1 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: MALE (2-YEAR STUDY)
- APPENDIX O 2 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: FEMALE (2-YEAR STUDY)
- APPENDIX P 1 HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: MALE: ALL ANIMALS (2-YEAR STUDY)
- APPENDIX P 2 HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR:
 SUMMARY, MOUSE: MALE: DEAD AND MORIBUND ANIMALS
 (2-YEAR STUDY)
- APPENDIX P 3 HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: MALE: SACRIFICED ANIMALS (2-YEAR STUDY)

APPENDIXES (CONTINUED)

APPENDIX P 4	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR:
	SUMMARY, MOUSE: FEMALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX P 5	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR:
	SUMMARY, MOUSE: FEMALE:
	DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX P 6	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR:
	SUMMARY, MOUSE: FEMALE: SACRIFICED ANIMALS
	(2-YEAR STUDY)
A DIDENTINES O 4	
APPENDIX Q 1	IDENTITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY
APPENDIX Q 2	
AITENDIX Q2	STUDY
APPENDIX R 1	CONCENTRATION OF GLYOXAL IN FORMULATED WATER IN
	THE 2-YEAR DRINKING WATER STUDY
APPENDIX R 2	STABILITY OF GLYOXAL IN FORMULATED WATER IN THE 2-
	YEAR DRINKING WATER STUDY
APPENDIX S 1	METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND
AFFENDIASI	URINALYSIS IN THE 2-YEAR DRINKING WATER STUDY OF
	GLYOXAL
APPENDIX S 2	UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND
	BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF
	GLYOXAL
	when wanted

APPENDIX A 1

CLINICAL OBSERVATION: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration We	ek-dav				*****							
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
ORIBUND SACRIFICE	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö	ő	Ö
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ö	Ō	Ö	Õ	Ö	Ö	0	Õ	Ö	0
	1000 ppm	0	0	0	Ō	Ö	Ö	Ö	Ö	ő	Ö	Ö	Õ	Ö	0
	3000 ppm	0	0	0	0	0	0	0	-0	Ö	Ö	Ö	Ö	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ö	Ō	0	Ö	Ö	0	Ö	0	0	Ö
	1000 ppm	0	Ō	0	0	Ö	Ö	0	0	0	0	0	0	0	0
	3000 ppm	Ö	Ö	ő	, 0	ő	Ö	0	0	Ö	0	0	0	0	0
COTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ö	0	Ŏ	Õ	Ö	0	Ô	ő	0	0
	1000 ppm	Ö	Õ	Ö	Ö	Ö	Ö	0	Ö	0	0	0	0	0	0
	3000 ppm	0	Ö	Ö	Ö	Ö	Ö	0	Ö	0,	0	0	0	0	0
PILOERECTION	Control	0	0	0	1	0	0	0	1	1	1	1	1	0	0
	333 ppm	0	0	Ö	Ô	Ö	Ö	0	0	0	0	0	0	0	0
	1000 ppm	Ö	Ö	0	0	0	0	0	0	0	0	0	0	0	•
	3000 ppm	1	ő	Ö	0	0	Ö	0	1	1	1	1	0	0	0 0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	Ö	0	0	0	0	0	0	0	0	0	0	-	•
	1000 ppm	Ö	Ö	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ő	0	Ö	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ö	0	ő	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	Ö	0	0	0	0 .	0	0	0	0	0	•			•
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	JOVO PPIII	v	v	v	v	v	U	v	U	U	U	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day	-										
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EATH															
CAIN	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö	Ö	ő
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	Ŏ	Ö	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	Ö	0	0	0	Õ	ő	0	0
	3000 ppm	0	0	0	Ö	Ö	0	ő	Ö	0	0	Ö	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	Ö	Ö	Ö	Õ	o O	0	0	0	0	0	0
	1000 ppm	Ö	0	ő	Ŏ	0	0	0	0	0	0	0		-	
	3000 ppm	ő	Ö	Ö	o	0	0	0	0	0	0	0	0 0	0	0
OTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	Ö	Ö	Ö	Ö	0	0	0	0	0	0	0	0
	1000 ppm	Õ	Ö	ő	0	0	0	0	0	0	0	0			
	3000 ppm	ő	Ö	0	Ö	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	Ō	Ö	Ö	Ö	Ŏ	0	0	0	0	0	•	
	1000 ppm	Ö	0	ő	Ŏ	0	0	0	0	0	0	0	0	0	0
	3000 mag	Ö	Ö	0	Ö	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	^
	333 ppm	0	Ö	Ö	Ö	0	0	0	0	0	0	-	•	-	0
	1000 ppm	0	0	0	0	0	0	0	0	0		0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	•	-	0	0	0	0	0
	avvv ppili	V	U	V	v	U	U	U	0	0	0	0	0	0	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	stration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	ō	Ō	Õ
	3000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	Ô	Õ	Ö	0	0	Ö
	3000 ppm	0	0	0	0	ō	ō	Ö	ő	ő	ő	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ö	0	ő	0	0
	1000 ppm	0	Ö	Ö	Ŏ	0	Ö	Ö	0	0	0	0	0	0	0
	3000 ppm	0	0	0	Ö	Ö	ŏ	Ö	ő	0	Ö	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	Ö	0	Ö	Ô	Ö	0	Ŏ	0
	1000 ppm	0	0	Ō	0	Ö	Ŏ	Ö	Ö	0	0	0	0	0	0
	3000 ppm	0	0	Ō	Ô	ō	ŏ	ő	ő	Ō	0	0	0	0	0
OTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ô	0	Ô	Ŏ	ő
	1000 ppm	0	0	0	0	0	0	Ō	0	Ö	Ö	Ö	Ö	Õ	ő
	3000 ppm	0	0	0	0	0	0	0	Ō	Ō	Ö	Ö	ő	ő	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	0	ő
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	Ō	Ö	Ö	ŏ	ŏ	Ő	Ö	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	Ö	Ō	0	Ö	0	0	Ŏ	0	0
	1000 ppm	0	Ö	Ō	Ö	Ö	o O	Ő	0	0	0	0	0	0	0
	3000 ppm	0	0	Ō	Ö	ő	ő	ő	Ö	ő	0	0	0	0	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0 ·	0	0
	333 ppm	0	0	0	0	0	Ö	Ö	0	0	0	0	0	0	0
	1000 ppm	Ö	Ŏ	ő	Ö	0	0	0	0	0	0	0	0	0	
	3000 ppm	Ŏ	Ŏ	Ö	Ö	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE C-j:BDF1
REPORT TYPE : AI 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration W	eek-day											
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	•					_								
DEAIN	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	Ô	0	Ö	Ö	0	ő
	1000 ppm	0	0	0	0	0	Ö	Ŏ	Ŏ	Ö	0	Ö	0	Ö	0
	3000 ppm	0	0	0	0	Ō	0	Ö	Ö	Ö	Ö	Ö	Ö	0	0
HUNCHBACK POSITION	Control	0	0	0	^	0	٨	0	0	•	•	^	•	•	
IONOMBROA FUSITION	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm 1000 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	_	0	0	0	0	0	0	0	0	0	0
	ann hbw	U	U	U	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	Ō	0	0	0	Ö	0	Ö
	1000 ppm	0	0	0	0	Ō	Ŏ	Ö	Ŏ	Ö	ŏ	Õ	Ö	0	0
	3000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö	Ö	0
ILOERECTION	Control	0	0	0	0	0	1	7	1	1	1	,	0	0	
	333 ppm	0	0	0	0	0	1 0	1 0	1 0	1 0	1 0	1 0	0	0	0
	1000 ppm	0	0	0	0	0	0	1	1	1				0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	1 1	1 1	0 1	0 1	0 1
PAG DELLI												_	_	-	•
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ō	Ō	Õ	0	ő
	1000 ppm	0	0	0	0	0	0	0	Ō	Ö	Ö	Ö	0	0	0
	3000 ppm	0	0	0	0	0	0	0	Ō	0	Ö	Õ	Ö	Ö	ő

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

SEX : MAIF

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE					PAGE: 5	
Clinical sign	Group Name	Administration Week-day	· · · · · · · · · · · · · · · · · · ·	 		

Clinical sign	Group Name	Admini	stration W	leek-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
ЕАТН	Control	2	2	2	2	2	2	2	2	2	2	0	9	0	0
LATI	333 ppm	1	1	1	1	1	1	1	1	2	2	2 2	2 2	2	2
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	3000 ppm	1	1	1	1	1 .		1		-				7	1
	midd agos	1	1	1	1	1 .	1	1	2	2	2	2	2	3	3
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0 .	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ô	Ö	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	Ō	Ö	Ö
JNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ö	Ö	Ŏ	0	Ö	Ö	Ö	0	0	Ŏ	0	0	0	0
	1000 ppm	Ö	Ō	0	Õ	Ö	0	Ö	Ö	Ö	0	0	0	0	0
	3000 ppm	Ö	Ö	ŏ	Ö	Ö	ő	0	0	0	0	Ö	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	٥
AMBITIO GAII	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01111110	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
					_	-	·	·	v	v	· ·	v	v	v	Ū
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ö	Ö	Ŏ
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
DILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	Ö	Ô	0	0	0	0
	1000 ppm	0	0	0	0	Ö	Ö	ŏ	Ö	Ö	Ŏ	0	0	ő	0
	3000 ppm	Ö	Ö	0	Ö	0	Ö	Ŏ	Ö	0	Ŏ	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admin	istration W	eek-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
24 1771	2														
EATH	Control	2	2	2	2	2	2	2	3	3	3	4	4	5	5
	333 ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	1000 ppm	2	3	3	3	3	3	3	3	4	4	4	4	4	5
	3000 ppm	3	3	3	3	4	4	4	4	4	4	4	4	4	4
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	ő	ő
NUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ö	Ō	0	0	0
	1000 ppm	0	0	0	0	0	Õ	Ö	0	0	0	Ö	0	Ŏ	0
	3000 ppm	0	0	0	Ö	Ö	Ö	Ö	Ö	ő	Ö	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	Ô	0	Ö	Ö	0	0	0	Ö	0	0	0
	1000 ppm	0	0	Ō	Ō	Ö	Ŏ	0	Ö	0	0	0	0	0	0
	3000 ppm	0	ō	0	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0	0
OTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ō	Ŏ	ŏ	Ö	ő	Ö	Ö	0	0	0	0	0	0	0
	1000 ppm	0	0	Ö	0	0	0	0	0	0	0	0	0		-
	3000 ppm	ŏ	0	Ö	0.	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	٥	^	^	^	^	•					
12020201100	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	0	0			0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	٥	٥	٥	•	^	•		•				
MOG DEED!			•	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	istration W	eek-day											
		85-7	867	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	On the L	-	_	-											
DEATH	Control	5	5	5	8	9	9	11	12	13	14	14	14	14	14
	333 ppm	3	3	3	3	3	3	3	3	4	4	4	4	5	6
	1000 ppm	5	5	5	5	5	5	5	6	6	6	6	6	7	8
	3000 ppm	4	5	6	6	6	7	7	8	. 8	8	8	8	8	8
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	ĺ
	3000 ppm	0	0	0	0	0	0	0	0	0	0	ō	ō	ō	0
UNCHBACK POSITION	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	ō	0	Ŏ	Ŏ	0	0	0	0	0	0
	1000 ppm	0	0	0	0	Ō	Ö	Ö	ŏ	Ö	0	0	0	0	0
	3000 ppm	0	0	0	Ŏ	Ö	Ö	ő	Ö	ő	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ō	Ö	Ô	Õ	0	0	0	0	0	0
	1000 ppm	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0	0	0	0	0
	3000 ppm	Ö	Ö	ő	Ö	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
	333 ppm	Ö	0	Ö	Ö	Ö	Ö	0	0	0	0	0	0		
	1000 ppm	Ö	Ö	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ŏ	Ö	0	0	0	0	0	0	0	0	0	0	0	. 0
PILOERECTION	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	Ô	0	0	0	0	0	1	0	0	0	0 1	0	0
	1000 ppm	Ŏ	0	0	2	2	1	0	0	0		0	-	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0
ROG BELLY	Contral	0	0	0	0	0	1	0	0	0	0	0	0	٥	٥
	333 ppm	0	0	0	0	0	0	0	0	0		0	_	0	0
	1000 ppm	0	0	0	0	0	0	0	0		0	0	0	0	0
	3000 ppm	0	0	0	0					0	0	ŭ	0	0	0
	avvv ppin	V	U	U	U	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

linical sign	Group Name	Admin	istration	Wook-day					** ****		
	di Sop Namo	99-7	100-7	101-7	102-7	103-7	104-7	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
EATH	Control	14	15	16	16	16	16				
	333 ppm	7	7	7	7	7	8				
	1000 ppm	8	8	8	9	10	10				
	3000 ppm	8	8	9	9	10	10				
DRIBUND SACRIFICE	Control	0	0	0	0	1	1				
	333 ppm	0	Ö	Ö	Ö	1	i				
	1000 ppm	1	1	1	1	1	2				
	3000 ppm	ō	ō	0	0	0	0				
INCIDACY DOCUMEN											
UNCHBACK POSITION	Control	0	0	0	0	0	0				
	333 ppm	0	0	0	0	0	0				
	1000 ppm	0	0	0	0	0	0				
	3000 ppm	0	0	0	0	0	0				
ARALYTIC GAIT	Control	0	0	0	0	0	0				
	333 ppm	0	0	0	0	0	0				
	1000 ppm	0	0	0	0	0	Ō				
	3000 ppm	0	0	Ō	ō	Ö	Ō				
DTATING	Control	0	0	0	0	0	0				
	333 ppm	Ö	ŏ	0	0	0	0				
	1000 ppm	Ö	ŏ	0	0	0	0				
	3000 ppm	0	0	0	0	0					
	3000 ppiil	U	V	V	v	U	0				
ILOERECTION	Control	0	0	0	0	1	1				
	333 ppm	0	0	0	0	0	0				
	1000 ppm	0	0	0	0	0	1				
	3000 ppm	1	1	0	0	0	1				
ROG BELLY	Control	0	0	0	0	0	0			•	
	333 ppm	0	0	0	0	0	0				
	1000 ppm	0	Ō	Ŏ	0	Ö	Ö				
	3000 ppm	0	0	0	Ō	0	0				
DILED PERI GENITALIA	Control	0	0	0	0	0	0				
But Gantingin	333 ppm	0	0	0	0						
	1000 ppm	0		0		0	0				
	3000 ppm	0	0 0	0	0	0	0				
	and bhii	U	v	U	0	0	0				

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration We	eek-day								·			
		1-7	2-7	3-7	4-7	5-7	6-7	7–7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
									•						
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	Ō	Ŏ	0	Ô	0	0	0
	1000 ppm	0	0	0	0	0	0	0	Ō	Ö	Ö	0	Ö	0	Ő
	3000 ppm	0	0	0	0	0	0	Ō	0	0	Ö	Ö	Ö	Ö	ő
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	Ö	Ŏ	0	0	Ö	0	0
	1000 ppm	0	Ō	0	0	0	Ô	Ö	Ö	0	0	0	0	0	0
	3000 ppm	0	0	0	Ö	Ö	0	Ö	ŏ	Ö	ŏ	0	0	0	Ö
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	ò
	333 ppm	0	0	0	0	0	0	0	0	Ō	0	0	Ö	Ö	0
	1000 ppm	0	0	Ō	Ö	Ō	Ö	Ö	Ö	ő	Ö	0	0	0	0
	3000 ppm	0	0	0	0	Ō	Ö	Ö	0	Ö	Ö	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	Ö	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0	0
	1000 ppm	0	0	Ö	Ô	Ö	Ö	Ö	0	Ő	0	0	0	0	0
	3000 ppm	Ō	ŏ	Ö	Ö	Ö	ő	0	0	0	0	0	0	0	0
.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ō	Ŏ	Ö	Ö	Ö	0	Õ	0	0	0	0	0	0	0
	1000 ppm	Õ	Ŏ	ŏ	0	ő	Ö	0	0	Ŏ	0	0	0	0	0
	3000 ppm	Ö	ő	ő	Ö	Ö	0	0	0	0	0	0	0	0	0
.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	ő	Ô	Õ	0	Ö	0	0	0	0	0	0	0	0	0
	1000 ppm	Ö	0	0	0	0	0	0	0	0	-	0	_		•
	3000 ppm	0	0	0	0	0	0	0	0	0	0		0	0	0
	ovv ppili	v	v	v	U	U	v	v	U	U	U	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration W	eek-day											
	7 - 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	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
XOPHTHALMOS	Control	0	٥	0	0	۸	0	^	٨	0	•	•	•	•	
AUI IIIIIALIIUS	333 ppm	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	avvo ppin	U	U	U	U	0	0	0	0	0	0	0	0	0	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ
	1000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö	0
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	Ō	Ō	Ŏ	Ŏ	0	0	0	ő	0	0	0
	1000 ppm	0	0	0	0	0	0	Ō	Ů	Ö	Ŏ	ő	0	0	0
	3000 ppm	0	0	0	0	Ō	Ō	Ö	Ö	ŏ	Ö	Ö	Ŏ	Ö	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	Õ	Ö	Ö	0	0	0	0	0	0	0	0	0
	1000 ppm	Ö	0	0	0	ő	0	0	0	0	0	0	0	0	0
	3000 ppm	Ö	Ö	Ö	Ŏ	Ö	Ö	0	0	ō	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0
	1000 ppm	Ŏ	Ŏ	Õ	Ö	Ö	0	0	0	0	0	0	0	0	0
	3000 mag	Ö	Ö	ŏ	Ö	ŏ	ő	Ö	Ö	Ŏ	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	^
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0 .	0	•	0	•
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
.NOSE	Control	0	0	0	0	0	۸	۸	٥	٥	٥	0	^	•	0
	333 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEAD	Court I	0	0	0	•	۰		•	•		_	-		·	
1.HEAD	Control 333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		•	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	U	0	0	0	0	0	0	0	0	0	0	0

STUDY NO.: 0268
ANIMAL: MOUSE Crj:BDF1
REPORT TYPE: A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	istration W	eek-day											1 / 1. *
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
WODERLY VOC		_	_												
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	Ö	0	Ŏ	0	0	0	Õ	0	0
	1000 ppm	0	0	0	0	0	0	Ō	0	Ŏ	0	Ŏ	Ô	Ö	0
	3000 ppm	0	0	0	0	0	0	Ō	0	Ö	Ö	Ö	Ö	ő	Ö
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	Ö	Ō	o O	ŏ	0	Ŏ	0	0	0	Ö	0	0	0
	1000 ppm	Ô	ŏ	Ŏ	0	Ŏ	Ö	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	Ö	Ö	Ö	Ö	0	Ö	0	Ö	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	Ö	Ö	Ö	0	Ö	0	0	0	1	1	1	1
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	•
	3000 ppm	Ô	0	0	0	0	0	0	0	0	0	0	0	0	1
1.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	•	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
f.HEAD	Control	0	0	0	0	0	0	0	0	٥	0	0	0	0	
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	-	-	•	0	0	0	0	0	0
	3000 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	ann bbw	U	U	U	U	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE								····							PAGE: 12
Clinical sign	Group Name	Admin 43-7	istration (44–7	√eek-day _ 45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	E4 7	55.77	FC 7
		40-7	44-7	40-7	40-7	41-1	40-1	49-7	50-7	91-1			54-7	55-7	56-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ō	0	0
CORNEAL OPACITY	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0
	1000 ppm	0	0	0	0	0	0	Ŏ	0	0	Ö	0	0	0	0
	3000 ppm	0	0	0	0	ō	Ŏ	0	Ŏ	0	ŏ	Ö	ő	Ö	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	Ö	0	Ö	Ö	Ô	Ö	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	1000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	3000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	Õ	0	0	0	0	Ö
	1000 ppm	0	0	0	0	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Õ	0	Ö
	3000 ppm	0	0	ō	ő	Ö	ŏ	Ö	Ö	Ö	ő	Ö	0	0	0
M.HEAD	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ō	0	Ŏ	0	0	0	0	0	0	0
	1000 ppm	0	0	0	ō	Ö	Ö	Ŏ	Ö	ő	0	0	0	0	0
	3000 ppm	0	0	0	0	Ŏ	Ö	Ö	0	Ô	0	Ő	0	0	0
		-	-	-	-	•	•	•	J	v	v	v	v	v	V

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek~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
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0,	0	0	0	0	0	0	0	0	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Õ
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	. 0	Ö
	1000 ppm	0	0	0	0	0	0	0	0	Ö	0	Ô	0	. 0	0
	3000 ppm	Ö	Ö	Ö	Ö	Ö	ő	0	Ö	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ŏ	Ö	0	0	Ö	0	0	0	0	0	0	0	0	0
	1000 ppm	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	Ö	ŏ	ő	Ö	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
	333 ppm	0	0	Ö	Ö	Ŏ	Ŏ	Ö	Õ	ő	0	0	0	0	0
	1000 ppm	Ö	Ō	Ö	0	Ŏ	Ö	0	ő	0	0	0	0		-
	3000 ppm	Ö	0	Ö	0	0	0	0	0	0	0	0	0	0	0 0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	Ō	0	0	ō	Ō	1	î	1	0	Ô	0	0	Ô	0
	1000 ppm	0	Ō	Ö	0	Ŏ	Ō	Ô	ō	Ŏ	0	0	ě	0	Ő
	3000 ppm	0	0	0	Ö	0	Ö	0	Ö	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	1	1
	3000 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
1.NOSE	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ö	Ŏ	Ŏ	Ö	Ŏ	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	ő	0	Ö	0	0	0	0	0	0	0	0	-
	3000 ppm	Ö	ŏ	Ö	Ö	0	Ö	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
	333 ppm	ō	Ŏ	Ö	Ŏ	Ö	Ö	0	0	0	n	0	0	0	0
	1000 ppm	Ŏ	ŏ	ŏ	0	Ö	Ö	Ö	0	0	0	0	0.	0	-
	3000 ppm	0	Ö	ő	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration (√eek-day											
		71–7	72-7	73-7	747	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
					-12.7										
EXOPHTHALMOS	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	1	1	1	1	1	1	i	1	1	1	1	1	1	1
	1000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	ī	î
	3000 ppm	0	0	0	0	0	Ō	ō	ō	Ô	0	Ō	0	Ō	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	1	0	0	ō	Ô
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	Ö	. 0	ő	Ö	Ö
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	Ō	0	Ō	Ō	0	1	Ö	0	Ö	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	ő
	3000 ppm	0	0	0	0	0	0	Ō	Ō	Ö	Ö	Ö	ő	Ö	ő
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	. 0	0	1	1	1	1	1
	333 ppm	0	0	0	0	0	Ō	0	Ö	0	Ō	0	Ō	Ô	0
	1000 ppm	0	0	0	0	0	0	Ö	Ö	0	Ö	0	Ö	0	0
	3000 ppm	0	0	0	0	0	0	Ō	Ō	Ö	ŏ	Ö	ő	Ö	Ö
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	1	1	1	1	1	1	1	i	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	ō	Ō	Ô	0	Ō
INTERNAL MASS	Control	0	0	0	1	1	1	1	1	1	3	3	3	3	3
	333.ppm	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	Ô	0	0
	3000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
I.NOSE	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	333 ppm	0	0	Ö	0	Ö	Ŏ	0	0	0	0	0	0	0	0
	1000 ppm	Ö	Ō	Ö	Ō	Ö	Ö	0	0	Ö	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	Ō	0	Ö	Ö	Ö	0	0	0
1.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	ŏ	0
	1000 ppm	. 0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	Ō	0	ō	0	ō	ō	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration (Week-day			-								
	7.665 ·····	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
NADUTH I VAC	2	•	•	•											
EXOPHTHALMOS	Control	0.	0	0	1	1	1	1	1	1	1	2	2	2	2
	333 ppm	1	1	1	1	1	1	1	0	1	1	1	1	1	1
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0 .	0	0
YE OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	Ô	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
ORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	. 1
	333 ppm	0	0	ō	0	0	ō	ō	Õ	ō	ō	Ô	Ô	0	Ô
	1000 ppm	0	0	0	i	i	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	ō	ō	Ō	0	ō	0	Ō	Ō	0	Ô
EXTERNAL MASS	Control	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	ō	Ô	0	ō	Ô	Ô	0
	1000 ppm	1	1	i	1	1	i	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	ō	ō	ō	Ô	0	0	0	Ô
INTERNAL MASS	Control	3	4	4	3	3	4	3	2	0	0	0	1	1	2
	333 ppm	1	6	6	6	6	6	5	4	1	1	2	2	1	1
	1000 ppm	ō	2	2	2	2	2	1	0	Ô	0	1	1	1	1
	3000 ppm	2	1	0	0	0	0	0	0	Ŏ	0	0	0	0	0
1.NOSE	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	333 ppm	0	Ô	0	0	Ō	0	0	0	0	0	0	0	0	0
	1000 ppm	0	Ő	ő	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ŏ	ŏ	Ö	0	ŏ,	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
	333 ppm	Ŏ	Ö	Ö	0	Ö	0	0	0	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	Ō	0	0	Ō	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-day _					 	
		99-7	100-7	101-7	102-7	103-7	104-7			
XOPHTHALMOS	Control	2	2	2	2	2	2			
	333 ppm	1	1	1	1	1	2			
	1000 ppm	2	2	2	2	2	2			
	3000 ppm	0	0	0	0	0	0			
YE OPACITY	Control	1	1	1	1	1	1			
	333 ppm	0	0	0	0	0	0			
	1000 ppm	1	1	1	1	1	1			
	3000 ppm	0	0	0	0	0	0			
ATARACT	Control	0	0	0	0	0	0			
	333 ppm	0	0	0	0	0	0			
	1000 ppm	0	0	0	0	0	0			
	3000 ppm	0	0	0	0	0	0			
ORNEAL OPACITY	Control	1	1	1	1	1	1			
	333 ppm	0	0	0	0	0	ō			
	1000 ppm	1	1	1	1	1	1			
	3000 ppm	0	0	0	0	0	Ō			
XTERNAL MASS	Control	1	1	1	1	1	1			
	333 ppm	0	0	0	ō	Õ	ō			
	1000 ppm	1	1	1	1	i	1			
	3000 ppm	0	0	0	0	0	0			
NTERNAL MASS	Control	2	2	1	2	2	2			
	333 ppm	1	1	1	6	5	5			
	1000 ppm	1	1	1	2	2	1			
	3000 ppm	0	ō	ō	1	1	1			
.NOSE	Control	0	0	0	0	0	0			
	333 ppm	0	Õ	0	Ö	Ö	Ö			
	1000 ppm	Ŏ	Ö	Ö	Ŏ	Ö	Ŏ			
	3000 mqq	0	0	Ō	Ö	Ö	o ·			
I.HEAD	Control	0	0	0	0	0	0			
	333 ppm	Ŏ	Ö	Ö	0	0	Ö			
	1000 ppm	1	1	1	1	1	1			
	3000 ppm	Ô	Ô	0	0	0	0			

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		1-7	27	3-7	4-7	5-7	6-7	7–7	8-7	9–7	10-7	11-7	12-7	13-7	14-7
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0		0			•
	3000 ppm	0	0	0	0	0	0	0			0	•	0	0	0
	mdd aane	U	U	U	U	U	U	U	0	0	0	0	0	0	0
1. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	Ō	0	0	0	Ö	0	0	0	0	0	0
	3000 ppm	Ō	Ō	0	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	Ö	0	0	0	0	0	0	0	0	0	0	0	. 0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
		•	-	-	-	•	•	•	·	v	v	·	v	v	v
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	Ō	Ŏ	Ö	Ŏ	ő	0	0	0	0	0
	1000 ppm	0	0	Ö	Ö	Ŏ	Ö	Ö	0	Ö	0	. 0	Ö	0	0
	3000 ppm	0	0	Ō	Ŏ	ŏ	ő	Ö	0	Ö	0	0	0	0	0
TORTICOLLIS	Control 1			•											
10811001515	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	Ö	Ŏ	Ö	Ö	0	Ö	0	0	0	0	0
	1000 ppm	Ŏ	Ö	Ö	ŏ	ő	Ö	Ö	0	0	0	0	0	0	0
	3000 mag	Ö	Ö	0	Ö	ő	0	Ö	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	٨	٥	0	•	0	•	•	•				
DOUGHT REST HATTON	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	•	•	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	istration W	ek-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
.BREAST	Control	0	0	0	٨	•	•	•	•	•			_		
1. DILLAGI	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		•	-	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
1. ABDONEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	Ö	Ö	Ŏ	Ö	Ö	0	Ö	. 0	0	0	0	0	0
	1000 ppm	Õ	Ö	Ö	Ŏ	Õ	0	Ö	0	0	0	0	0	0	0
	3000 ppm	Ö	ő	Ö	0	0	0	Ö	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	•	^		•
	333 ppm	0	0	0	0	0	0	0	0	•	0	0	0	0	0
	1000 ppm	0	0	0		-	_	•	•	0	•	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mdd Anne	U	U	U	U	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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	Ö	Ö	0	Ö	ŏ	0	0	0	0	0	0
	1000 ppm	0	Ō	Ö	Ö	Ŏ	Ö	Ö	0	Ŏ	0	0	0	0	0
	3000 ppm	Ö	Ô	Ö	ő	Ö	0	Ö	0	0	0	Ö	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	^
	333 ppm	0	0	0	0	0	0	0	-	•	•	0	0	0	0
	1000 ppm	0	0	0	0	0		0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0		0	•	0	0	0	0	0	0	0
	avvv ppm	U	V	U	U	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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day								-			
-		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
N DDELCT	0	•	•	•	•		•								
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDONEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ö	Ŏ	Ö	ŏ	0	0	0	0	0	0	0	0	- 0	0
	1000 ppm	0	0	0	ő	ő	Ő	Ö	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	^	0	•				•		•
ENOSTON		0		-		. 0	0	0	0	0	0	0	0	0	0
	333 ppm	•	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	Õ	Ŏ	Õ	0	0	0
	3000 ppm	0	Ō	0	ő	Ö	Ŏ	0	ő	ŏ	Ö	ő	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0		0	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			-	-	-	-	•		Ť	·	v	V	v	v	V
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

Clinical sign	Group Name	Admini	stration W	eek-day											
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
												•			
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	Ō	Ö	0	Ö	Ö	Ö	Ö
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	Ō	0	0	0	Ŏ	Ŏ	0	0	Ŏ	Ō
	1000 ppm	0	0	0	0	Ö	0	Ô	Ŏ	ŏ	0	0	0	0	Ö
	3000 ppm	0	Ō	Ō	Ö	0	Ö	Ö	0	Ö	ő	Ö	Ö	Ö	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	Ŏ	0
	1000 ppm	0	0	0	0	0	0	0	0	Ö	Ŏ	0	ŏ	Ö	0
	3000 ppm	0	0	Ō	Ö	0	Ö	Ö	0	Ö	Ö	ő	Ö	Ö	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
	1000 ppm	0	Ö	0	Ö	Ŏ	Ö	Ŏ	Ŏ	Ŏ	Ö	0	ő	Ö	0
	3000 ppm	0	0	0	Ö	0	0	Ö	0	Ö	0	ő	0	Ö	. 0
TORTICOLLIS	Control	0	0	0	1	1	1	1	1	1	1	1	0	0	0
	333 ppm	0	Ö	Ö	ō	Ō	Ō	0	Ō	0	0	0	0	0	0
	1000 ppm	0	Ŏ	0	0	0	0	0	0	0	0	0	0	0	-
	3000 ppm	Ö	0	0	0	0	0	0	0	0	1	1	1	1	0 1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	. 0	Ö	Ö	ő	0	0	0	0	0	0	0	0	0
	1000 ppm	Ö	0	Ö	Ö	0	Ö	0	Ö	0	0	0	0	0	0
	3000 ppm	Ŏ	0	0	0	Ö	Ö	Ŏ	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	Ö	0	o o	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	Ö	0	0	0	0	0	0	0	0	0	0	-
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ovvo ppili	v	v	v	v	v	U	U	U	V	U	v	U	U	U

ANIMAL : MOUSE C-j:BDF1

REPORT TYPE : A1 104

SEX : MALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

PAGE: 21 Clinical sign Group Name Administration Week-day 57-7 58-7 59-7 60-7 61-7 62-7 63-7 64-7 65-7 66-7 67-7 68-7 69-7 70-7 M.BREAST Control 333 ppm 1000 ppm 3000 ppm M. ABDOMEN Control 333 ppm 1000 ppm 3000 ppm M.TAIL Control 333 ppm 1000 ppm 3000 ppm EROSION Control 333 ppm 1000 ppm 3000 ppm CRUSTA Control 333 ppm 1000 ppm 3000 ppm TORTICOLLIS Control 333 ppm 1000 ppm 3000 ppm IRREGULAR BREATHING Control 333 ppm 1000 ppm 3000 ppm ABNORMAL RESPIRATION Control 333 ppm 1000 ppm 3000 ppm

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	stration W	eek-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
	W														
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0	0	0
	3000 ppm	0	0	0	0	0	0	Ŏ	Ö	Ö	Ö	Ö	Ŏ	Ö	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	Ō	Ô	Ô	0	0	Ô	0	ő
	1000 ppm	Ö	Ö	ŏ	Ö	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.TAIL	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	_	_
	1000 ppm	0	0	0	0	0		0			-	-		0	0
							0		0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSION	Contral	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0
ORTICOLLIS	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	ō	0	0	Õ	Ŏ	Ö	0	0	0	0
	1000 ppm	Ŏ	Ö	ŏ	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ő	0	ŏ	ő	ŏ	ő	Ŏ	0	Ö	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gilliani	333 ppm	0	Ö	0	1	0	0	0	0	0		0		-	
	1000 ppm	0	0	0	0	0		0			0	-	0	0	0
		-	0	0			0		0	0	0	0	0	0	0
	mqq 000E	0	U	U	0	0	0	0	0	0	0	0	0	0	0
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

PAGE: 23 Clinical sign Group Name Administration Week-day 85-7 86-7 87-7 88-7 89-7 90-7 91-7 92-7 93-7 94-7 95-7 96-7 97-7 98-7 M.BREAST Control 333 ppm 1000 ppm 3000 ppm M. ABDOMEN Control 333 ppm 1000 ppm 3000 ppm M.TAIL Control 333 ppm 1000 ppm 3000 ppm EROS10N Control 333 ppm 1000 ppm 3000 ppm CRUSTA Control 333 ppm 1000 ppm 3000 ppm TORTICOLLIS Control 333 ppm 1000 ppm 3000 ppm IRREGULAR BREATHING Control 333 ppm Ω 1000 ppm 3000 ppm ABNORMAL RESPIRATION Control 333 ppm 1000 ppm 3000 ppm

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : Al 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-day			
	a cap namo	99-7	100-7	101-7	102-7	103-7	104-7
				104 1	100 1	100 1	101 (

M.BREAST	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
		· ·	J	ŭ	v	v	v
M. ABDOMEN	Control	0	0	0	0	0	0
	333 ppm	Ŏ	0	0 .	Õ	0	0
	1000 ppm	ő	Ŏ	0	Ö	0	0
	3000 ppm	0	0	0	0	0	0
	avvv phili	v	v	V	U	U	0
M.TAIL	Control	1	1	1	1	1	4
H. INIL	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
EDOCTON	2	•	•			_	_
EROSION	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
CDUCTI	~ . ,	_	_				
CRUSTA	Control	0	0	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	1
	3000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	333 ppm	0	0	Ö	0	Ö	Ö
	1000 ppm	Ö	ő	Õ	Ö	ő	Ö
	3000 ppm	1	1	0	Ö	0	0
	2444 65411	•	•	•	v	v	V
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	1	1	0	0	0	0
	and bhii	1	1	v	V	v	v

ANIMAL : MOUSE Crj:BDF1

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

REPORT TYPE : A1 104

SEX : MALE

PAGE: 25

Control	1-7	2-7	37	4-7	5-7	6-7	7-7	0.7	^ ~					
							1-1	8–7	9–7	10-7	11-7	12-7	13-7	14-7
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3000 ppm	0	0	0	0	0	0	0	Ö	Ō	Ō	0	Ö	ŏ	0
Control	0	0	0	0	0	0	0	0	0	0	0	. 1	0	0
333 ppm	0	0	0	0	0	0	0		0	0	0	0	Ô	0
1000 ppm	1	0	0	0	0	0	0		-	Õ	Ô	n	0	ñ
3000 ppm	ī	1	0	0	0	Ô	Ů			٥	1	n	2	n
3 10	133 ppm 100 ppm	333 ppm 0 000 ppm 1	33 ppm 0 0 000 ppm 1 0	33 ppm 0 0 0 000 ppm 1 0 0	33 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	033 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 100 ppm 1 0 0 0 0 0 0 0	033 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100 ppm 1 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE: 26

Clinical sign	Group Name	Admini	stration W	leek-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
										,					
IEMATURIA	Control	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 000E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DL1G0-STOOL	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	Ō	Ö	Ö	0	o o	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ô	Ö	Ö	ñ

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE: 27

Clinical sign	Group Name	Admini	stration W	eek-day _											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
											••				
HEMATURIA	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0 .	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

PAGE: 28

Clinical sign	Group Name	Admini	stration W	eek-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
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
OLIGO-STOOL	Control	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	Ö	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	2	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	Õ	0	0	ō	1	0	0	0	1

(HAN190)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE: 29

Clinical sign	Group Name	Admini	stration W	eek-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
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
MALL STOOL	Control	0	0	0	0	0	.0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	ō	ō	Ō
LIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	Ô	0	1	1
	1000 ppm	1	2	2	2	2	2	1	1	0	Ö	0	0	2	2
	3000 ppm	1	1	1	1	1	1	ī	ō	Õ	Ö	0	1	0	۸

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE: 30

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	
IEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0	
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	333 ppm	0	0	0	1	0	0	0	0	0	Ö	Ō	0	0	0	
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ô	

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE: 31

Clinical sign	Group Name	Admini	stration W	eek-day											
		85-7	86-7	877	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
HEMATURIA	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	1000 ppm	0	1	1	0	0	2	2	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
OLIGO-STOOL	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	1	0	1	Ö	1	1	0
	1000 ppm	0	1	1	1	0	2	2	1	1	1	0	0	1	0
	3000 ppm	0	0	0	1	1	0	0	0	0	0	0	0	ī	1

(HAN190)

BAIS 3

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

PAGE: 32

Clinical sign	Group Name	Admin	istration	Week-day			
		99-7	100-7	101-7	102-7	103-7	104-7
HEMATURIA	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0
	333 ppm	0	Ō	Ö	Õ	Ö	0
	1000 ppm	0	0	1	0	Ō	0
	3000 ppm	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	2	2	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	1	0	1	1
	3000 ppm	1	1	0	0	0	1
(HAN190)							

(HAN190)

BAIS 3

APPENDIX A 2

CLINICAL OBSERVATION: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Adminis	stration W	eek-day											
		1-7	2-7	3-7	4-7	5-7	6-7	7–7	8-7	9-7	10-7	11-7	12-7	137	14-7
DELET			_												
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0.	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	Ö	0	Ō	Ö	Ö	Ö	0
LOCONOTOR MOVEMENT DECR	Control	0	.0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö	0
	3000 ppm	0	0	0	0	0	Ō	0	0	Ö	0	0	0	0	Ö
	6000 ppm	Ō	0	0	0	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ö	0	Ŏ	Ö	0	0	0	0	0
	3000 ppm	Ö	0	Ŏ	ő	Ö	Ö	0	0	0	0	0	0	0	· ·
	6000 ppm	Ö	Ö	ŏ	Ö	Ö	Ö	0	0	0	0	0	0	0	0 0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	Ŏ	Ö	0	Õ	0	0	Ö
	3000 ppm	0	Ö.	Ö	0	Ö	ŏ	ő	ŏ	Õ	0	0	1	1	0
	6000 ppm	Ō	Ö	Ö	Ö	ő	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	Ō	0	Õ	0	Ô	0	0	0	0
	3000 ppm	0	0	Ō	Ö	Ŏ	ŏ	Ö	Ö	0	0	0	0	0	0
	6000 ppm	Ō	Ŏ	Ö	Ö	ŏ	ŏ	Ö	Ö	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	Ö	Ö	0	0	0	0	0	0		•	-
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
WASTING	Contral	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0		-		•	-	0	0	0
	3000 ppm	0	0					0	0	0	0	0	0	0	0
		_		0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	eek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
БЕАТН	Comban		0	•	٨	•	•								
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ô	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	Ö	Ö	ő	Ö	Ö
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vwal	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	Ŏ	Ŏ	Ŏ	. 0	0	Ő	0	0	0	0	0	0	0	-
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				•	·	·	v	v	ŭ	v	v	v	v	V	v
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0 .	0	0	0
	1500 ppm	0	0	Ô	Ō	Ö	Ŏ	0	0	Õ	0	0	0	0	0
	3000 ppm	ō	Ŏ	ŏ	Ö	ŏ	ŏ	Ŏ	0	Ö	0	0	0	0	0
	6000 ppm	0	Ō	Ö	ŏ	Ö	Ö	Ö	Ö	Ŏ	ő	0	0	0	0
ATAXIC GAIT	Control	0	0	^	^	٥			^						
0.111	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		•		-	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ŏ	Ö	0	0
	3000 ppm	0	0	0	Ō	0	Ō	Ŏ	0	Ö	Õ	Ŏ	0	Ô	0
	mqq 0003	0	0	0	Ō	Ō	0	Ö	Ö	ŏ	0	Ö	Ö	Ö	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	^	^	^
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	-	•	•	•	0	0	0
	6000 ppm	0	0	0	0	0			0	0	0	0	0	0	0
	OVVV PPIII	U	U	U	υ	U	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	Ō	0	Ŏ	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	o ·	Ö	ő	Ö
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ö	0	ő
	6000 ppm	0	0	0	0	0	0	0	0	0	Ō	Ō	Ō	Ö	0
ARALYTIC GAIT	Control	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	ő
	3000 ppm	0	0	0	0	0	Ō	Ō	Ö	Ŏ	Ŏ	Ŏ	Ö	Ö	0
	6000 ppm	0	0	0	0	0	Ō	0	0	Ö	Ö	Ö	Ö	ő	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	Ö	Ō	0	Ô	0	0	0
	3000 ppm	0	0	0	Ō	Ö	Ŏ	0	0	0	0	0	0	0	0
	6000 ppm	0	Ŏ	Õ	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-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
									- T			· · · · · · · · · · · · · · · · · · ·			
EATH	Control	0	0	1	2	2	2	2	2	3	3	3	3	3	3
	1500 ppm	0	0	0	0	0	0	0	0	0	Ö	. 0	0	0	0
	3000 ppm	0	0	0	0	0	0	Ö	Ö	0	Ö	Ö	0	0	0
	6000 ppm	0	0	1	1	1	1	1	1	1	1	2	2	2	2
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	Ö	Ö	Ö	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	ō	Ö	ō
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	Ö	0	Ô	Ö	Ö	Ö	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	Ö
TAXIC GAIT	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mag 0003	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ö	Ö
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ô	Ö
	3000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	0	Ŏ	Ö
	mqq 0008	0	0	0	0	0	0	0	0	Ō	Ö	Ö	0	Ö	Ö
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Ō	Ö	Ŏ	Ö	0	0
	3000 ppm	0	0	0	0	0	0	0	0	Ō	0	ő	Ö	0	0
	6000 ppm	0	0	0	0	0	0	Ó	0	Ō	0	Ö	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign Group Name Administration Week-day 57-7 58-7 59-7 60-7 61-7 62-7 63-7 64-7 65-7 66-7 67-7 68-7 69-7 70-7 DEATH Control 1500 ppm 3000 ppm 6000 ppm

(HAN190)

WASTING

3000 ppm

6000 ppm

Control

1500 ppm

3000 ppm

6000 ppm

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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
EATH	Contral	8	8	8	8	8	8	8	8	8	8	9	9	10	11
	1500 ppm	1	1	2	3	4	5	5	5	5	5	5	5	6	6
	3000 ppm	1	1	1	1	1	1	. 2	2	3	5	5	6	6	6
	mqq 0008	3	3	3	3	3	3	3	3	3	3	3	4	5	5
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	Ŏ	Ö	ŏ
	6000 ppm	0	0	0	0	0	0	0	Ō	Ö	ō	Ö	0	Ö	ő
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ō	0	o o	Ŏ	Ô	Ö	Ö	0	Ö	Ő
	3000 ppm	Ö	Ō	Ŏ	Ö	0	Ö	Ö	0	0	0	0	0	0	0
	mqq 0000	Ö	ŏ	ŏ	Ö	0	. 0	0	0	0	0	0	0	0	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ō	Ö	Ö	Õ	Ö	Ö	0	0	0	0	0	0	0	_
	3000 ppm	Õ	Ŏ	Ö	0	0	0	0	0	0	0		0		0
	6000 ppm	Ö	0	0	Ö	0	0	0	0	0	0	0	0	0 0	0 0
UNCHBACK POSITION	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ö	Ŏ	0	0	Ŏ	0	0	0	0	0	0	0		
	3000 ppm	0	0	0	0	0	0	0	0				•	0	0
	mqq 0000	0	0	0	0	. 0	0	0	0	0	0 0	0	0 0	0 0.	0 0
TAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	Ó	0	0	0
	1500 ppm	Ŏ	0	0	0	0	0	0	0	-	-	•	-	-	-
	3000 ppm	0	0	0	0				•	0	0	0	0	0	0
	6000 ppm	0	0			0	0	0	0	0	0	0	0	0	0
	MAG DUUG	U	U	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	Ö	Ô	0	0	0	Ö	0	0	Ö
	3000 ppm	Ö	Ö	Ŏ	Ŏ	Ŏ	Ö	0	ő	0	0	0	0	0	0
	6000 ppm	0	Õ	Ö	Ö	Ö	Ŏ	ő	Ö	Ö	0	Ö	0	0	0
NASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0 .	Ö	Ŏ	ŏ	Õ	0	Ö	0	0	0	0	0	0
	3000 ppm	Ö	0	Ö	Ö	Ö	0	. 0	Ö	0	0	0			-
	6000 ppm	Ö	0	0	0	0	0	0	0				0	0	0
	OVVV PPIII	v	U	v	v	U	U	U	U	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-day			V	•							
-		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
OF LTH															
DEATH	Control	12	12	14	14	14	14	15	15	15	15	15	16	16	16
	1500 ppm	6	6	7	8	8	10	11	12	12	12	14	14	14	15
	3000 ppm	6	6	6	6	6	6	6	7	9	10	10	10	10	11
	6000 ppm	5	6	6	6	7	7	7	8	9	9	10	10	10	10
MORIBUND SACRIFICE	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	0	Ô
	6000 ppm	0	0	0	0	0	0	0	0	Ō	Ö	Ō	ŏ	ŏ	Ö
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	Ô	Ŏ	Ö	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	Ö	Ö	Ö	Ö	ő	0	0	0	0	0
ATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ŏ	Ŏ	Ŏ	0	0	0	0	0	0 .
	3000 ppm	0	0	0	Ö	Ö	Ö	Ö	Ŏ	0	0	0	0	0	
	6000 ppm	0	Ō	ō	Ö	ŏ	ő	0	Ö	Ö	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Ō	Ö	Õ	Ö	Ŏ	0	0	0	0	0	0	0
	3000 ppm	Ö	Ö	Ŏ	Ŏ	Ö	Ö	Ö	0	0	0	0	.0	•	
	6000 ppm	Ō	Ö	Ö	Ö	ŏ	Ö	Ö	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	ő	Ö	ŏ	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ŏ	Õ	Ö	0	0	0	0	-	•	U	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	•		-	
	1500 ppm	0	0	0	0	0	-	-	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0 0	0 0	0	0 0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	^	•	•	•	-	·	-	·	-
	1500 ppm	0	0	0	-	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	-	0	-	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ann bbill	U	U	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

Clinical sign G DEATH MORIBUND SACRIFICE LOCOMOTOR MOVEMENT DECR	Control 1500 ppm 3000 ppm 6000 ppm Control 1500 ppm 3000 ppm 6000 ppm Control 1500 ppm	99-7 16 16 12 10 0 1 0 0	17 16 13 10 0 1 1 0	101-7 18 16 13 10 1 1	102-7 18 17 13 10 1 2	103-7 18 17 15 10	18 19 16 10			
NORIBUND SACRIFICE LOCOMOTOR MOVEMENT DECR	1500 ppm 3000 ppm 6000 ppm Control 1500 ppm 3000 ppm 6000 ppm	16 12 10 0 1 0 0	16 13 10 0 1	16 13 10 1 1 1	17 13 10	17 15 10	19 16		·	
RIBUND SACRIFICE COMOTOR MOVEMENT DECR	1500 ppm 3000 ppm 6000 ppm Control 1500 ppm 3000 ppm 6000 ppm	16 12 10 0 1 0 0	16 13 10 0 1	16 13 10 1 1 1	17 13 10	17 15 10	19 16			
OCOMOTOR MOVEMENT DECR	3000 ppm 6000 ppm Control 1500 ppm 3000 ppm 6000 ppm	12 10 0 1 0 0	13 10 0 1 1	13 10 1 1 1	17 13 10	17 15 10	19 16			
OCOMOTOR MOVEMENT DECR	Control 1500 ppm 3000 ppm 6000 ppm	10 0 1 0 0	13 10 0 1 1	13 10 1 1 1	13 10	10	16			
OCOMOTOR MOVEMENT DECR	Control 1500 ppm 3000 ppm 6000 ppm	10 0 1 0 0	10 0 1 1	10 1 1 1	10	10				
OCOMOTOR MOVEMENT DECR	1500 ppm 3000 ppm 6000 ppm Contral	1 0 0	1	1 1						
OCOMOTOR MOVEMENT DECR	1500 ppm 3000 ppm 6000 ppm Contral	1 0 0	1	1 1		2	2			
	3000 ppm 6000 ppm Control	0	1	1		2	2			
	6000 ppm Control	0			1	2	2			
		•		0	ō	2	0			
		0	0	1	0	0	0			
ATERAL	TOT + 1-1-11	Ö	Ö	Ô	0	Ö	Ö			
ATERAL	3000 ppm	Ŏ	ŏ	0	Ö	Ö	0			
ATERAL	6000 ppm	ŏ	Ö	ő	ő	Ö	0			
	Control	0	0	1	0	0	0			
	1500 ppm	0	0	ō	ŏ	Ö	Ö			
	3000 ppm	Ō	0	0	0	Ö	Ö			
	mqq 0000	ŏ	0	Ö	ő	Ö	0			
UNCHBACK POSITION	Control	0	0	0	0	0	0			
	1500 ppm	0	0	0	0	0	Ō			
	3000 ppm	0	0	Ō	Ö	Õ	Ö			
	mqq 0000	0	0	Õ	Ö	Ö	Ö			
TAXIC GAIT	Control	0	0	0	0	0	0			
	1500 ppm	0	0	0	Ö	Ŏ	Ö			
	3000 ppm	Ŏ	Ŏ	Ö	0	0	0			
	mqq 0008	ő	ő	Ő	0	0	0			
ARALYTIC GAIT	Control	0	0	0	0	0	0			
	1500 ppm	Ö	0	0	0	0	0			
	3000 ppm	0	Ŏ	Ö	Ö	0	0			
	6000 ppm	ő	0	0	1	1	1			
ASTING	Control	0	0	0	0	0	0			
	1500 ppm	Ö	0	0	0	0	0			
	3000 ppm	0	0	0	1	0	0			
	6000 ppm	0	0	0	0	0	0			

ANIMAL : MOUSE Crj:BDF1

Group Name

Control

1500 ppm

3000 ppm

6000 ppm

Control

1500 ppm

3000 ppm

6000 ppm

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

4-7

5-7

6-7

7-7

8-7

9-7

10-7

11-7

12-7

13-7

Administration Week-day

2-7

3-7

1-7

SEX : FEMALE
Clinical sign

SOILED Control 1500 ppm 3000 ppm 6000 ppm PILOERECTION Control 1500 ppm 3000 ppm 6000 ppm FROG BELLY Control 1500 ppm 3000 ppm 6000 ppm SOILED PERI GENITALIA Control 1500 ppm 3000 ppm 6000 ppm **EXOPHTHALMOS** Control 1500 ppm 3000 ppm 6000 ppm EYE OPACITY Control 1500 ppm 3000 ppm mag 0008

CATARACT

CORNEAL OPACITY

PAGE: 41

14-7

ANIMAL : MOUSE C-j:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name		istration W	JUIN UUT											
		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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	1	1	1	0	0	0	1	1	1	1
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	ō	Ō
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	mqq 0008	0	0	0	0	0	0	0	0	0	Ō	Ö	Ö	0	Ŏ
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ŏ	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	0	0	Ö
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Õ	Ö	ŏ	ő
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Õ	0	0	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ŏ	Ö	0
	3000 ppm	0	0	0	0	0	0	0	Ö	0	0	0	Ö	0	0
	6000 ppm	0	0	0	Ö	0	ō	Ö	0	Ö	ŏ	Ö	0	0	- 0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	1500 ppm	Ō	0	Ô	Õ	Ŏ	0	Ö	0	0	0	0	0	0	. 0
	3000 ppm	Ŏ	Ŏ	Õ	ŏ	Ŏ	0	0	0	0	0	0	0	0	0
	6000 ppm	ŏ	ő	Ö	0	ő	Ô	0	0	Ö	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Õ	ŏ	Ŏ	Ö	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	•
	6000 ppm	•					-	-	-						0
	mqq 0008	0	0	0	0	0	0	0	0	Ö	Ö	0	Ö	0	

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
500															
DILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	Ö	0	0	0	Ö	ő
	6000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	Ö	0	Ö
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	Ö	0
	3000 ppm	1	1	1	1	Ô	Ö	Ö	1	Ö	0	Ö	Ö	0	0
	6000 ppm	0	ì	2	2	6	5	2	î	1	1	1	1	1	1
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Ö	Ŏ	0	Ŏ	0	Ö	Ö	0	0	0	0	0
	3000 ppm	0	0	0	Ō	Õ	0	Ö	Ö	0	0	0	0	0	0
	6000 ppm	0	0	ō	Ō	Ö	Ö	Ö	Ö	ő	Ö	0	0	0	0
DILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	. 0	0	0	0	0	Ö	Ŏ	0	Ö	Ö
	3000 ppm	0	0	0	0	0	0	0	Ŏ	0	Ö	0	0	0	0
	6000 ppm	0	0	0	0	0	0	Ö	Ö	Ö	ő	o o	0	o o	0
KOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	ŏ	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö	ő
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	Ö	Ŏ	ő
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ	0

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	ek-day _							,				
		43-7	44-7	45-7	46-7	477	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
)															
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	0	0	1	1	1	1	1	2	1	ĺ	1	ì
FROG BELLY	Control	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Ô	Ō	Ō	0	Ö	0	Ŏ	0	o o	0	0	0
	3000 ppm	0	0	Ō	0	Ŏ	0	0	Ö	Ö	0	0	0	0	0
	6000 ppm	0	0	Ö	ŏ	Ö	Ö	Ö	ő	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0 .	0	0	0	Ō	0	0	0	0	0	Ö
	3000 ppm	Ö	ō	Ö	0	Ö	Ö	0	0	0	0	0	0	0	0
	6000 ppm	Ō	Ŏ	Ö	ŏ	Ö	ő	0	Ö	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1500 ppm	0	0	0	0	Ō	Ō	Ö	0	0	0	0	0	0	0
	3000 ppm	Ö	Ŏ	Ö	Ö	Ŏ	Ŏ	0	0	0	0	0	0	0	0
	mqq 0006	Ō	Ö	Ö	ŏ	Ö	0	Ö	0	0	0	0	0	0	0
EYE OPACITY	Cantrol	0	0	0	0	0	0	0	0	0	0	٥	0	0	0
	1500 ppm	Õ	Ô	0	0	0	0	0	0	0	0	0	•	•	0
	3000 ppm	0	Ŏ	0	Ö	0	0	0	0	0	•	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	^	•	^
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	-	0	0	0	0	0	0
	6000 ppm	0	0	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	٥	•	•
	1500 ppm	n	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	-				•	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0 .	0	0	0	0	0	0	0	0
	anna hhiti	U	U	U	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-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
														•	
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	1	1	1	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	3000 ppm	0	0	0	Ö	Ō	0	0	Ö	Ŏ	0	Ö	Ŏ	Ö	0
	6000 ppm	0	0	Ö	Ö	1	1	i	1	i	Ö	ő	ő	Ö	Ő
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ô	0	Ö	ō	Ö	0	Ŏ	Ö	Ŏ	Õ	0	0	0	0
	3000 ppm	0	0	0	0	Ō	Ö	Ö	Ö	Ö	Õ	0	0	Ŏ	0
	6000 ppm	0	0	0	Ö	0	ő	Ö	ő	1	Ö	ő	ő	Ö	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ô	0	0	Õ	0	Ô	Ö	0	0
	3000 ppm	Ö	Ö	Ô	0	Ŏ	ő	0	0	0	0	0	0	0	0
	6000 ppm	Ö	ŏ	Ö	Ö	Ö	ő	Ö	ő	Ö	0	Ö	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	Ö	0	ō	ō	ō	ō	ō	Ō	0	0	0	0	0
	3000 ppm	Ō	Ö	Ö	Ŏ	Ŏ	Ö	ŏ	Ö	Ö	Ŏ	0	Ö	0	0
	6000 ppm	Ö	Ö	Ö	Ö	ő	Ö	Ö	0	Ö	0	Ŏ	0	0	0
YE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Ő	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	Õ	Ö	0	0	0	0	0	0	0	0	0	0	0	0
	mag 0006	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	1500 ppm	Ŏ	ů	Ö	0	ŏ	Ö	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	Ŏ	0	0	0	0	0	0	0	0	0
	6000 ppm	ő	0	0	0	0	0	0	0	0	0	0	0	0	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Ô	ŏ	Ŏ	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	Ô	0	0	0	0	0	0	0	٥	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	0	1	0	0	0	0	0	0	0	0	Ó	0
	3000 ppm	0	0	0	0	0	2	1	1	i	0	Ŏ	0	ő	Ö
	6000 ppm	0	0	0	0	0	0	0	0	Ō	1	2	Ĭ	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ŏ	ő
	3000 ppm	0	0	0	0	0	1	0	0	Ô	0	0	Ô	Ö	ő
	6000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	Ő	Ô
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0 .	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Õ
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
EYE OPACITY	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ô	0	ő
	6000 ppm	0	0	0	0	0	Ō	0	Ö	Ö	Ö	Ö	ŏ	ő	0
CATARACT	Control	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	Ō	ō	0	0	0	0	Ŏ	0
	3000 ppm	0	0	0	Ō	Ö	Ö	Ŏ	Ö	Ö	0	0	0	0	0
	6000 ppm	0	0	0	Ö	0	Ö	Ö	ő	Ö	0	0	0	Ö	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	ō	0	0	0	0	ō	0	0	0
	3000 ppm	0	Ô	Ō	Ö	Ŏ	Ö	Ö	Ŏ	Ö	0	0	- 0	Ŏ	0
	6000 ppm	0	Ô	Ô	0	Ö	0	0	Ö	0	0	0	0	0	0

STUDY NO.: 0268
ANIMAL: MOUSE Crj:BDF1
REPORT TYPE: A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-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
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	3000 ppm	0	0	0	0	0	0	2	2	1	$\bar{1}$	1	1	2	3
	6000 ppm	1	1	1	1	1	1	1	Ō	Õ	ō	Ô	ō	0	Ö
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ö	0	Ŏ	Ö	Ô	0	1	1	0
	3000 ppm	0	0	0	0	0	Ö	1	1	0	0	0	1	1	2
	6000 ppm	1	0	Ö	ŏ	Ö	Ö	0	0	ő	0	0	Ô	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	Ō	0	Ŏ	Ö	0	Ö	0	0	0	0
	6000 ppm	0	ŏ	Ö	ŏ	Ö	Ö	Ö	Ö	Ö	0	0	0	0	Ö
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	ō	ō	Ō	Ô	0	0
	3000 ppm	0	0	Ö	Ŏ	Ŏ	Ö	Ŏ	ő	0	0	0	0	0	0
	6000 ppm	0	Ō	Ō	Ö	Ö	Ö	ŏ	Ö	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	ō	0	ō	ō	Ô	0	ō	0	0	0	0	. 0	0
	3000 ppm	Õ	Ŏ	0	0	0	0	0	0	0	0	0	0	-	0
	6000 ppm	0	0	0	ő	0	0	Ö	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Ö	Ŏ	ŏ	Ŏ	Ŏ	Õ	0	0	0	0	0	0	0
	3000 ppm	Ö	ő	ŏ	0	0	0	0	0	0	0	0	0	0	. 0
	6000 ppm	0	0	Ö	ő	Ö	Ö	Ö	Ö	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	ō	ō	Ō	ō	Ō	Ō	Ô	0	Ô	0	0	0	0
	3000 ppm	Ö	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0	0	0	0
	6000 ppm	Ö	ŏ	Ö	Õ	Õ	0	0	0	0	0	0	0	0	0
	3000 ppiil	v	v	v	v	v	V	v	U	v	U	U	V	U	U

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admin	istration	Week-day						
		99-7	100-7	101-7	102-7	103-7	104-7	 	*****	
								 N 10 110		
DILED	Control	0	0	0	٥	^	0			
OTELD	1500 ppm	0	0	0	0	0	0			
	3000 ppm	0			0	0	0			
			1	1	1	0	0			
	mqq 0008	0	0	0	0	0	0			
LOERECTION	Control	0	0	1	1	2	1			
	1500 ppm	0	0	0	0	0	1			
	3000 ppm	3	3	3	3	1	1			
	6000 ppm	0	0	0	0	0	0			
ROG BELLY	Control	0	0	0	0	0	0			
	1500 ppm	ő	ő	1	0	0	0			
	3000 ppm	1	ő	Ō	0	0	0			
	6000 ppm	ō	Ö	Ö	ő	0	0			
DILED PERI GENITALIA	Control	0	0	0	^	^	0			
TEED TERT CERTIFIETS	1500 ppm	0	0	0	0	0	0			
	3000 ppm	0			0	0	0			
	6000 ppm	0	0	0	0	0	0			
KOPHTHALMOS	0									
AOPHINALMOS	Control	1	1	1	1	1	1			
	1500 ppm	0	0	0	0	0	0			
	3000 ppm	0	0	0	0	0	0			
	6000 ppm	0	0	0	0	0	0			
E OPACITY	Control	1	1	1	1	1	2			
	1500 ppm	0	0	0	0	0	0			
	3000 ppm	0	0	0	0	0	0			
	maa 0000	0	0	0	0	0	0			
TARACT	Control	0	0	0	0	0	0			
	1500 ppm	Ö	Ō	Ö	0	Ö	0			
	3000 ppm	Ŏ	ő	Ö	Ö	Ö	ő			
•	6000 ppm	0	Ö	Ö	Ö	0	0			
ORNEAL OPACITY	Control	1	1	1	1	,	0			
or not 11	1500 ppm	0	0	1	1 0	1	2			
	3000 ppm	0	0	0		0	0			
	6000 ppm	0	0	0	0	0	0			
	mdd nona	U	U	U	0	0	0			

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration We	ek-day					•						
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	0	Ö
.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	Ō	Ö	Ö	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ō	Ö	Ö
. ABDOMEN	Control	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Õ	ŏ

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W	eek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.NOSE	Control	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ō	0	0	Ö	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö
1.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ	0
	3000 ppm	0	0	0	0	0	0	Ō	Ō	0	Õ	Ö	Ö	Ö	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ō	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ö	Õ	Ŏ	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	Ö	Ŏ	0	ő	0	0	0	Ő	0
	6000 ppm	0	0	0	0	0	0	0	Ö	ŏ	ő	Ő	0	Ö	0
I.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ō	0	Ö	Ö	Õ	0	0	Ö	0	0	0	0	0	n
	3000 ppm	0	Õ	Ö	ŏ	Ö	Ö	ŏ	ő	0	0	0	0	0	0
	6000 ppm	0	0	0	0	Ŏ	ŏ	0	ŏ	ő	ő	ő	0	0	0
I. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	Ö	Ŏ	Ö	Ŏ	Õ	Õ	0	0	0	0	0
	3000 ppm	0	0	Ö	Ö	Ö	Ö	Ö	Ö	Õ	0	0	0	0	0
	6000 ppm	Ō	Ô	Ŏ	Ŏ	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	eek-day											
		29–7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	Ō	ō
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö	ő
I.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ō	0
	3000 ppm	0	0	0	0	0	0	0	Ō	Ö	0	Ö	0	0	0
	mqq 0008	0	0	0	0	0	0	Ō	0	0	Ö	0	0	0	ŏ
1.MANDIBULAR	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	Ō	Ō	Õ	Ö	Ô	ŏ	0	0	Ö
	6000 ppm	0	0	0	0	0	Ŏ	Ö	Ö	0	Ö	Ö	Ö	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Ö	Ö	Ö	0	Ö	0	0	0	0	0	0	0
	3000 ppm	ŏ	ő	0	Ő	0	0	0	0	0	0	0	0	0	0
	6000 ppm	ō	ő	Ŏ	Ö	0	0	0	0	0	0	0	0	0	0
1.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	Ŏ	0	0	0	0	0	0	0	0	0	0		-
	6000 ppm	ŏ	0	Ö	0	0	ŏ	0	o	0	0	0	0	0	0 0
1. ABDONEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	•		-
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ovov pplii	v	v	v	V	v	v	U	U	U	U	U	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE															PAGE: 52
Clinical sign	Group Name		istration (***************************************										
		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
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	1	1	1	1	2	2	2	2	2	2	2	2	2
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 mag	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M.EYE	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	.0	0	0	0	0	0
	3000 ppm	0	0	0	0 .	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO.: 0268
ANIMAL: MOUSE Cr-j:BDF1
REPORT TYPE: A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	leek-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
										- 0 ····					
KTERNAL MASS	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	ō	Õ	Ō	0	Ö	Ö
	3000 ppm	0	0	0	0	0	0	0	0	Ō	0	Ö	0	Ö	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1500 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	ō	ō	0	1	1	0	0	0	0	0
	6000 ppm	2	3	3	3	3	3	4	4	4	3	3	3	3	3
I.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ō	0	Ŏ	ŏ	0	0	0	0	0
	3000 ppm	0	0	0	0	Ö	Ō	Ö	ŏ	ő	0	Ŏ	0	0	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
I.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Ŏ	Ö	0	0	0	0
	3000 ppm	0	Ö	Ô	0	Ö	ŏ	Ö	0	Ö	. 0	0	0	0	0
	mqq 0000	0	0	Ō	Ö	Ö	ő	ő	ő	0	0	0	0	0	0
MANDIBULAR	Contrai	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Õ	Ö	0
	3000 ppm	0	0	0	0	Ō	Ö	0	ŏ	Ŏ	Ö	0	0	0	0
	6000 ppm	0	0	0	0	Ō	Ö	Ö	Ö	0	0	0	0	0	0
I.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	Ö	Ö	0	0	0	0	0	0	0	0
	3000 ppm	Ö	Õ	Ö	Ö	0	0	0	0	0	0	0	0	-	
	6000 ppm	ő	ő	ŏ	Ö	Ö	0	0	0	0	0	0	0	0	0
I.BREAST	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	1500 ppm	0	0	0	0	0	ō	0	0	0	0	0	0	0	
	3000 ppm	Ŏ	ŏ	Ö	Ö	ő	0	0	0	0	0	0		-	0
	6000 ppm	0	Ö	Ö	Ö	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ö	o o	Ô	Ö	Ö	0	0	0	0	0	0	0		0
	3000 ppm	0	0	0	0	0	Ö	0	0	0	0	0	•	0	Û
	6000 ppm	0	0	0	0	0	0				•		0	0	U
	avv ppili	v	v	v	U	v	U	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-day					7						
-		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
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	3000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
NTERNAL MASS	Control	0	0	0	0	0	1	1	1	1	1	0	0	2	2
	1500 ppm	1	2	3	2	2	2	2	2	2	2	5	5	4	4
	3000 ppm	0	0	0	0	0	1	1	1	1	0	1	1	2	4
	6000 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	4
1.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	3000 ppm	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	mqq 0008	1	1	1	1	1	1	1	1	1	1	1	1	1	1
f.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö
I.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
	3000 ppm	0	0	0	0	0	0	0	Ö	Õ	0	Ŏ	0	0	0
	6000 ppm	0	0	0	0	0	0	Ō	Ō	Ö	Ö	Ö	1	1	1
I.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Ŏ	0	0	Ö	0	0
	3000 ppm	0	0	0	0	Ö	Ŏ	Ŏ	Ö	ŏ	Ô	0	0	0	0
	6000 ppm	0	0	0	0	0	Ö	ŏ	Ö	ő	Ö	Ö	Ö	0	0
1. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Ö	Ŏ	Ö	Ö	0	Ö
	3000 ppm	0	0	0	0	0	Ö	0	Ö	ő	ő	0	0	0 -	0
	6000 ppm	0	0	0	Ō	Ö	0	0	Ö	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	eek-day											
	5. Cu. 1. Cu.	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	957	96-7	97-7	98-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0 .	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	2	2	2	2	2	2	2	1	1	1	1	1	1	1
NTERNAL MASS	Control	2	2	0	0	0	0	1	1	1	1	2	1	1	1
	1500 ppm	4	4	4	4	4	2	2	2	2	3	2	2	2	2
	3000 ppm	4	4	3	3	3	3	4	3	4	4	4	4	4	4
	6000 ppm	4	3	2	2	1	1	3	3	3	3	2	2	2	2
1.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Õ	Ö	Ö	0	0	Ö	0	0	0	0	0	0	0
	3000 ppm	0	Ô	0	Ö	Ö	0	0	Ö	0	0	0	0	0	0
	mqq 0000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
i.eye	Control	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
	1500 ppm	ň	0	0	0	0	0	0	0	0	0	0	•	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	-	0	0	0
	mqq 0000	Ö	Ö	Ŏ	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	٥	^
	1500 ppm	0	Ô	Ö	0	0	Ö	0	0	0	•	•	· -	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	Ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0
.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Õ	Õ	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	Ô	0	0	0	0	0	0	0	0	0	0	-		0
	6000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
1.BREAST	Control	0	0	0	0	0	0	0	0	0	٥	^	۸	^	
	1500 ppm	0	0	0	0	0		0		0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	-	0	V	0	0	0	0	0
	9000 ppm	0	0	0	0	0	0	0	0 0	0	0	0	. 0	0	0
1. ABDOMEN	Control	0	0	0	0	0	۸	۸	^	^	•		•		
· · · · · · · · · · · · · · · · · · ·	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0

0

0

0

0

0

0

0

0

0

0

0

1500 ppm

3000 ppm

6000 ppm

0

0

0

0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration	Week-day				
		99-7	100-7	101-7	102-7	103-7	104-7	
EXTERNAL MASS	Control	0	0	0	1	3	2	
	1500 ppm	0	0	3		3	2	
	3000 ppm	0			3		2	
	6000 ppm		1	1	1	1	1	
	avvv ppm	1	1	1	1	1	1	
INTERNAL MASS	Control	1	1	1	1	1	1	
	1500 ppm	3	3	3	2	2	2	
	3000 ppm	4	3	3	3	3	3	
	6000 ppm	2	2	2	2	2	2	
	OUUU PPIII		4	4	4	4	4	
M.NOSE	Control	0	0	0	0	0	0	
	1500 ppm	0	Ŏ	0	Ö	Ŏ	ŏ	
	3000 ppm	0	0	0	Ö	Ö	Ö	
	6000 ppm	1	1	1	1	1	1	
			-	-	•	•	•	
M.EYE	Control	0	0	0	0	1	1	
	1500 ppm	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	Ō	
	6000 ppm	0	0	0	Ō	0	0	
N MINDIDIU ID			_					
M.MANDIBULAR	Control	0	0	0	1	1	0	
	1500 ppm	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	
	6000 ppm	0	0	0	0	0	0	
M.NECK	Control	٥	٥	•	^	•		
II + II LOII	1500 ppm	0	0	0	0	0	0	
				1	1	1	1	
	3000 ppm	0	0	0	0	0	0	
	mqq 0008	0	0	0	0	0	0	
M.BREAST	Control	0	0	0	0	٥	٥	
	1500 ppm	0	0			0	0	
	3000 ppm			1	1	1	1	
	3000 ppm 6000 ppm	0	0	0	0	0	0	
	ann bbil	U	U	0	0	0	0	
M. ABDONEN	Control	0	0	0	0	0	0	
	1500 ppm	ŏ	Ŏ	0	0	0	0	
	3000 ppm	Ö	0	0	ő	0	0	
	6000 ppm	0	0	0	0	0	0	
	ovvo ppiii	v	v	v	v	v	V	

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX: FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day							•				
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9–7	10-7	11-7	12-7	13-7	14-7
.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	٥
	1500 ppm	ŏ	Ö	Ö	Ö	Ö	Ö	Ö	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	Ö	0	Ŏ	Ŏ	Ŏ	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
.GENITALIA	Cantral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILCER	Control	0	0	0	0	0	0	0	0	0	0	Λ	Ω	0	٥

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	leek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	۸	٥	٥	•	٥	۰	•
	1500 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	-		-	0	0	0	0	0	0
	3000 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	ovv ppili	U	V	U	U	0	0	0	0	0	0	0	0	0	0
I.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	Ō	Ö	Ö	0	0	ő	0	0	0
	3000 ppm	0	Ó	0	0	Ō	Õ	Ö	Ö	Ö	0	0	0	0	0
	6000 ppm	0	Ō	Ŏ	Ö	Ö	Ö	Ö	ő	0	Ö	0	0	0	0
ULCER	Control	0	0	0	0	0	٥	0	^	٥	•	0	•		
000011	1500 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	3000 ppm	0	0			0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	U	U	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	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ô	0	ō
	3000 ppm	0	0	0	0	0	0	Ō	Ö	0	Ŏ	Ŏ	0	0	Ö
	6000 ppm	0	0	0	0	0	ō	Ö	ŏ	ő	Ö	0	0	ő	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Ö	Ö	Ö	Ö	0	0	0	0	0	0	0	-	
	3000 ppm	Ŏ	Ö	Ö	Ö	0	Ŏ	0	0	0	0	0	0	0	0
	6000 ppm	Ö	Ö	Ŏ	Ö	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	•	•	•			_				_	·	·	
ADNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	Ö	Ö	0	0	0	0	0	0	0	0	0
	3000 ppm	0	ŏ	0	0	0	0	0	0	0	0	0	0	0	-
	6000 ppm	Ö	Ö	ő	Ö	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	^
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	-	•	ŭ	•	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OVV PPIII	v	v	U	U	U	U	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.GENITALIA	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0
ILCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	0	Ŏ
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ	Ö
CORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0 .	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	Ŏ
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	Ö	0
	3000 ppm	0	0	0	0	0	0	0	0	Ō	0	0	Ŏ	Õ	0
	6000 ppm	0	0	0	0	1	1	0	0	0	0	ō	0	Ô	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Ŏ	Ŏ	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	Ö	Ŏ
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day											
= 7, VAIL- A		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
I.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	1	1	0	0	0	0	0	0	0	0	. 0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0 .	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
UNIT TOODDID	1500 ppm	0	0	0	0	0	0	0	0	0	Ô	Ô	Ö	0	Ö
	3000 ppm	0	0	0	0	0	Ō	Ö	Ö	Ö	0	Ö	Ŏ	Ŏ	Ö
	6000 ppm	0	0	0	0	0	0	0	0	0	0	ō	Ö	Ŏ	Ö
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	Ō	Ö	Ö	Ō	Ö	Ö	Ŏ	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ö	Ö	Ö
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ô
	3000 ppm	0	0	0	0	0	0	Ö	Ö	Ö	Ŏ	0	0	Ö	Ö
	mag 0008	0	0	0	0	ō	0	Ō	Ö	ŏ	Ö	ŏ	ŏ	Ŏ	Ö
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	n	0
	1500 ppm	0	0	Ö	0	Ö	Ŏ	0	0	0	0	0	0	0	0
	3000 ppm	Ŏ	Ö	Ö	Ö	0	0	0	Ö	Ö	0	0	0	0	0
	6000 ppm	Ō	0	Ö	ŏ	ŏ	Ö	Ö	ő	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	. 0	0	0	0	0	0	0	0		0
	1500 ppm	0	0	Ö	0	. 0	0	Ŏ	0	0	0	0	0	0	n
	3000 ppm	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-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
								•							
.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	Ō	Ō	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö
LCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	Ō	Ö	Ö	0	Ö
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	6000 ppm	0	. 0	0	0	0	0	0	0	0	0	0	Ö	Ö	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1500 ppm	0	0	0	1	1	1	1	1	1	1	ī	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	ō	0	ō	0
	6000 ppm	0	0	0	0	0	0	0	0	0	Ö	Ō	Ö	Ö	o o
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0-	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mag 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ō	0	0	Ö
	3000 ppm	0	0	0	0	0	Ö	Ö	Ö	Ŏ	Õ	Ö	0	Ö	ő
	6000 ppm	0	0	0	0	0	Ö	Ō	0	0	Ö	ő	0	Ö	0
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Ō	Ö	0	Ô	0	0
	3000 ppm	0	0	0	0	0	0	Ö	Ŏ	ŏ	Ö	Ö	0	0	Ŏ
	6000 ppm	0	0	0	0	0	Ŏ	Ö	0	Õ	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration W	eek-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
.ANTERIOR.DORSUM	Control	0	0	^		٥	^	•	•	•	•				
. ANTERTOR. DORSON	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0		0	0	0	0	0	0	0	0	0	0	0
	mqq 0006 mqq 0006	-	0	0	0	0	0	0	1	0	0	0	0	0	0
	Med non	0	U	0	0	0	0	0	0	0	0	0	0	0	0
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JLCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	ŏ	Ö	Ö	Ö	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	Ō	Ō	0	Ö	Ŏ	Ö	Ö	0	0	0	0	0	0
	6000 ppm	0	Õ	Ö	Ö	Ö	Ö	ő	Ö	0	Ŏ	0	Ö	Ŏ	0
ORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	7	1	1
	1500 ppm	1	î	Ô	ō	Ô	0	0	0	0	0	0	0	0	0
	3000 ppm	ō	0	Ö	Ö	0	0	0	0	0	0	0	0	0	0
	6000 ppm	Ö	Ö	Ö	o	0	0	0	0	0	0	0	1	1	1
RREGULAR BREATHING	Control	0	0	0	0	0	۸	٨	0	۸	۸	0	^	٥	
MALGOLAN DALATITAG	1500 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
	3000 ppm	0	0			0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	add bhii	V	V	V	U	v	U	U	0	0	0	0	0	0	0
BNORMAL RESPIRATION	Control	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	maq 0008	0	0	0	0	0	0	0	0	0	0	0	0	ō	Ö
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	ő	0	Ö	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	•
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	^	^	^	0	^		•	•	
AMDO OTOOL	1500 ppm	٨	0	0	0		0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0
	3000 ppm mag 0008	0	0		0	0	0	0	0	0	0	0	0	0	0
	auvu ppm	U	U	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration V	leek-day											
		85-7	86-7	87-7	88-7	897	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	1	1	1	1	1	1	1	0	0	0	0	0	0	0
I.GENITALIA	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Ō	Ō	Ö	Ô
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	Ö	0	Ö	0	Ö	0	Ô	Ö	0
	3000 ppm	0	0	0	0	0	0	0	Ō	0	0	Ö	0	0	ő
	6000 ppm	0	0	Ō	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	Ō	ō	0	Ō	ō	Ô	ō	0	0	ō
	3000 ppm	0	0	0	Ö	Ö	Ŏ	Ŏ	ŏ	0	Ö	0	0	0	0
	6000 ppm	1	1	i	1	1	1	1	1	1	1	1	1	1	1
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	Ō	i	1	Ŏ	1	1	1	1	0	1	1
	3000 ppm	Ō	Ŏ	Ŏ	Ö	Ō	ō	Ö	0	0	Ô	0	0	0	0
	6000 ppm	Ö	0	Ö	0	ŏ	Ö	Ö	Ö	0	0	0	0	0	0
ABNORMAL RESPIRATION	Contral	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ö	Ŏ	0	Ö	i	1	0	1	1	1	1	0	1	1
	3000 ppm	Õ	Ŏ	Ö	0	0	0	Ö	0	0	0	0	0	0	0
	6000 ppm	0	Ô	ő	ő	Ö	0	Ŏ	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	٨
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	0
	3000 ppm	0	0	0	0	0	0	0	0	0	•	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Court	^	•	•					_	-	-	-	•	-	
SMALL SIGUL	Control	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3000 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration	Week-day			,
		99-7	100-7	101-7	102-7	103-7	104-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	1	1
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	1	1	1	1	1
	6000 ppm	0	0	0	0	0	0
M OPNITALL		^	•	•			
M.GENITALIA	Control	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
III CED	Constant	۸	•	^	0	^	•
ULCER	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1
	6000 ppm	0	0	0	0	0	0
TORTICOLLIS	Contral	1	1	1	1	1	1
10111001110	1500 ppm	0	0	Ô	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1
	OUU PPIII	•	1	•	1	1	
IRREGULAR BREATHING	Contral	0	0	0	0	1	0
	1500 ppm	Ô	0	1	Ö	Ô	Ö
	3000 ppm	1	0	1	1	0	0
	6000 ppm	Ô	0	Ô	Ô	0,	0
	COOO PPIII	v	v	v	v	٧.	v
ABNORMAL RESPIRATION	Control	0	0	1	0	1	0
	1500 ppm	0	0	1	0	0	0
	3000 ppm	1	0	1	1	0	0
	6000 ppm	0	0	0	0	0	0
	oooo ppiii	•	•	v	V	v	V
BRADYPNEA	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	Ŏ
	3000 ppm	0	0	0	0	ő	Ŏ
	6000 ppm	Ŏ	0	Ö	0	0	Ŏ
	(-)	•	•	•	·	•	•
SMALL STOOL	Control	0	0	1	1	1	0
	1500 ppm	0	0	1	0	. 0	0
	3000 ppm	1	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

PAGE: 65

Clinical sign	Group Name	Admini	stration W	ek-day											
		1-7	2-7	3-7	4-7	5-7	6-7	7–7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
OLIGO-STOOL	Combine	0	٥		^	٥	0	٥	٥	0	•	0	•	•	•
JL160-3100L	Control	0	0	0	0	0	U	0	0	0	0	0	0	0	0
	1500 ppm	U	U	U	U	0	U	U	0	0	U	U	U	U	U
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0 .	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ô	0	0	0
	6000 ppm	0	0	0	0	0	0	0	Ô	0	0	0	0	0	0

(HAN190)

BAISS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : Al 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 66

Clinical sign	Group Name	Admini	stration W	eek-day											
		15-7	16-7	17-7	18-7	19–7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DLIGO-STOOL	Contral	0	0	٥	0	0	0	0	٥	0	0	٥	0	•	•
)F100-2100F	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	U	Û	0
	3000 ppm	1	1	1	1	1	1	1	0		0	U	0	0	0
	6000 ppm	0	0	, ,	^	0	0	1	•	0	0	1	0	Ü	0
	cooo ppiii	v	v	V	v	V	U	0	0	0	U	U	U	0	Ü
UBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	Ö	0	0	0	ñ	ñ	

(HAN190)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 67

Clinical sign	Group Name	Admini	stration W	leek-day _											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
OLIGO-STOOL	Contral	0	0	1	1	1	1	1	1	0	0	0	0	. 0	٥
)L160-S100L	1500 ppm	0	0	1	Ô	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	i	2	1	Ö	1	1	1	0	0	0	0	0	0
	6000 ppm	0	0	1	1	1	1	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	Ô	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	Õ	Ô	0	0

(HAN190)

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

PAGE: 68

Clinical sign	Group Name	Admini	stration W	eek-day _											
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	537	54-7	55-7	56-7
N ICO CTOOL	Control	٥	٥			•	٥	۰	٠		•	•			
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	6000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
UBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	Ö	0	0	0	Ô	Ö	Ö	Ŏ	Ö	0	0	0	Ô	n

(HAN190)

BAISS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE: 69

Clinical sign	Group Name	Admini	stration W	eek-day					·						
	Pro P 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	687	69-7	70-7
DLIGO-STOOL	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	n
0L160~3100L	1500 ppm	0	Ö	Ö	Ö	Ö	Ö	Ŏ	Ô	Ŏ	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	Ü	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 70

Clinical sign	Group Name	Admini	stration W	eek-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
DLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	•		
)F1@0-2100F	1500 ppm	0	0	0	2	0	0	0	0	0	0	0	1	0	0
	3000 ppm	Ŏ	Ö	0	0	0	0	1	0	0	0	1	1	0	0
	6000 ppm	0	0	0	Ö	Ö	Ö	Ō	ő	Ö	ő	0	0	0	0
UBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	٥
	1500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0	Ō	0	Ö	Ŏ	Ő	Ô	Ô	0

(HAN190)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

PAGE: 71

Clinical sign	Group Name	Admini	stration W	eek-day		*									
		85-7	86-7	877	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
N ICA_CTON	Control	٥	0	0	٥		0	٥	•	0					
DLIGO-STOOL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Ü	0	0	1	0	1	1	1	1	0	0	0	1
	3000 ppm	0	0	0	0	0	0	2	1	3	1	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
UBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

STUDY NO.: 0268
ANIMAL: MOUSE Crj:BDF1 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 72

inical sign	Group Name	Admin	istration	Week-day			
		99-7	100-7	101-7	102-7	103-7	104-7
OLIGO-STOOL	Control	1	1	1	1	1	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	1	0	0	0	0	0
	mqq 0008	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0
	maq 0008	0	0	0	0	0	0
•	6000 ppm	0	0	0 .	0	0	0

(HAN190)

BAISS

APPENDIX B 1

BODY WEIGHT CHANGES :SUMMARY, MOUSE : MALE (2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES ALL ANIMALS (SUMMARY)

oup Name	Administration	n week		· · · · · · · · · · · · · · · · · · ·			
	0	1	2	3	4	5	6
Control	23.1± 0.7	23.9± 0.8	24.9± 0.8	25.4± 1.2	26.2± 1.3	26.6± 1.5	27.2± 1.7
333 pom	23.1± 0.7	23.9± 0.8	24.7± 0.9	25.2± 1.0	25.9± 1.6	26.8± 1.3	27.3± 1.3
1000 ppm	23.1± 0.7	23.8± 1.1	24.7± 0.9	25.4± 0.9	25.8± 1.0	26.5± 1.0	27.1± 1.2
3000 ppm	23.1± 0.7	23.2± 1.0**	24.0± 1.1**	24.5± 1.0**	25.1± 1.0**	25.9± 1.3*	26.0± 1.2**
Significant difference;	*: P ≤ 0.05	** : $P \le 0.01$		Test of Dunnett			

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

; g

REPORT TYPE : A1 104 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)

ALL ANIMALS

Group Name Administration week_ 7 8 9 10

11 12 13 Control 28.1± 1.6 28.3± 1.9 28.8± 2.1 29.3± 1.9 30.2± 2.5 30.8± 2.6 31.8± 2.3 333 ppm 28.2± 1.4 28.7± 1.6 29.2± 1.7 29.6± 2.0 30.5± 1.9 31.1± 2.2 31.8± 2.3 1000 ppm 27.7± 1.2 28.4± 1.5 28.8± 1.6 29.2± 1.7 30.1± 1.8 30.5± 2.0 31.3± 2.1 3000 ppm 26.5± 1.2** 26.8 1.8 ** 27.1± 1.8** 27.3± 1.8** 27.9± 2.2** 28.5± 1.4** 28.8生 1.7**

PAGE: 2

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

(HAN260) BAIS3

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES

(SUMMARY) ALL ANIMALS

14	18	22				
			26	30	34	38
32.3± 2.7	35.4± 2.7	38.2± 2.5	39.7± 3.0	42.2± 3.2	44.6± 3.4	46.1± 3.4
32.4± 2.5	35.4± 2.9	37.6± 3.1	38.8± 3.4	41.6± 3.7	43.4± 4.2	44.9± 4.2
31.8± 2.1	34.8± 2.5	36.8± 2.7*	38.1± 2.9*	40.3± 3.3*	41.9± 3.8**	43.4± 3.7**
29.1± 1.8**	31.1± 2.0**	32.3± 2.3**	33.1± 2.4**	34.6± 2.9**	35.8± 3.2**	36.8± 3.2**

$*: P \leq 0.05$	** : P ≤ 0.01		Test of Dunnett			
-	32.4± 2.5 31.8± 2.1 29.1± 1.8**	32.4± 2.5 35.4± 2.9 31.8± 2.1 34.8± 2.5 29.1± 1.8** 31.1± 2.0**	32.4± 2.5 35.4± 2.9 37.6± 3.1 31.8± 2.1 34.8± 2.5 36.8± 2.7* 29.1± 1.8** 31.1± 2.0** 32.3± 2.3**	32.4± 2.5 35.4± 2.9 37.6± 3.1 38.8± 3.4 31.8± 2.1 34.8± 2.5 36.8± 2.7* 38.1± 2.9* 29.1± 1.8** 31.1± 2.0** 32.3± 2.3** 33.1± 2.4**	32.4± 2.5 35.4± 2.9 37.6± 3.1 38.8± 3.4 41.6± 3.7 31.8± 2.1 34.8± 2.5 36.8± 2.7* 38.1± 2.9* 40.3± 3.3* 29.1± 1.8** 31.1± 2.0** 32.3± 2.3** 33.1± 2.4** 34.6± 2.9**	32.4± 2.5 35.4± 2.9 37.6± 3.1 38.8± 3.4 41.6± 3.7 43.4± 4.2 31.8± 2.1 34.8± 2.5 36.8± 2.7* 38.1± 2.9* 40.3± 3.3* 41.9± 3.8** 29.1± 1.8** 31.1± 2.0** 32.3± 2.3** 33.1± 2.4** 34.6± 2.9** 35.8± 3.2**

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)

ALL ANIMALS

p Name	Administrati	on week					·-····································
	42	46	50	54	58	62	66
Control	47.3± 3.2	48.1± 3.1	48.7± 4.2	49.0± 2.6	49.5± 3.0	50.1± 3.3	50.8± 4.1
333 ppm	45.8± 4.1	47.0± 4.0	47.5± 3.9	47.5± 3.9	47.9± 3.8	48.7± 4.0	49.1± 4.8
1000 ppm	43.9± 3.9**	44.6± 4.4**	45.4± 4.6**	45.1± 5.0**	45.5± 5.4**	46.6± 5.8**	46.9± 6.1**
3000 ppm	37.3± 3.4**	38.1± 3.5**	38.5± 3.5**	38.4± 4.1**	38.3± 4.1**	39.0± 4.3**	39.7± 3.7**
Significant difference;	*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

oup Name	Administration	week					
	70	74	78	82	86	90	94
Control	51.4± 4.3	51.6± 5.5	52.5± 5.2	53.2± 4.9	52.5± 6.0	52.9± 5.4	53.8± 5.1
333 ppm	50.2± 5.2	50.9± 5.0	51.8± 4.5	52.1± 4.5	51.7± 5.0	51.6± 5.7	52.1± 6.6
1000 ppm	48.2± 6.5*	50.1± 3.7	50.5± 3.7	50.2± 4.5**	49.7± 5.3*	49.4± 6.8*	50.0± 6.1*
3000 ppm	41.2± 3.8**	41.8± 3.9**	42.5± 3.8**	42.5± 4.0**	41.8± 4.4**	41.5± 4.4**	42.1± 4.4**
Significant difference;	*: P ≤ 0.05	** : $P \leq 0.01$		Test of Dunnett			

(HAN260)

BAIS3

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES

(SUMMARY)

ALL ANIMALS

Froup Name	Administration	week			M
· · · · · · · · · · · · · · · · · · ·	98	102	104		
Control	52.3± 5.7	51.1± 7.5	49.6± 8.7		
333 ppm	51.1± 6.5	50.2± 6.6	49.0± 6.2		
1000 ppm	49.4± 5.4	48.8± 6.0	48.2± 6.2		
3000 ppm	40.9± 5.1**	40.8± 4.5**	40.3± 4.7**		
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01	Test of Dun	nnett	
(HAN260)	W74-2-				BAIS3

APPENDIX B 2

BODY WEIGHT CHANGES: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

oup Name	Administrati	on week		· · · · · · · · · · · · · · · · · · ·			
	0	1	2	3	4	5	6
Control	18.6± 0.6	19.4± 0.7	19.9± 0.7	20.6± 0.8	21.1± 0.9	21.5± 1.1	21.7± 1.1
1500 ppm	18.6± 0.6	19.5± 0.6	20.1± 0.9	20.7± 0.8	21.3± 0.8	21.5± 0.8	21.7± 0.9
3000 ppm	18.6± 0.6	18.9± 0.8**	19.4± 0.7**	20.2± 0.8*	20.5± 1.0**	20.8± 0.9*	21.0± 0.9**
maq 0003	18.7± 0.6	18.4± 0.7**	18.5± 0.7**	19.1± 0.7**	19.5± 0.7**	19.9± 0.7**	20.4± 0.8**
				- Am			
Significant difference;	*: P ≤ 0.05	**: P ≦ 0.01		Test of Dunnett			
AN260)							

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104

BODY WEIGHT CHANGES

(SUMMARY)

ALL ANIMALS

up Name	Administrat	ion week	-70				
	7	8	9	10	11	12	13
Control	22.3± 1.0	22.8± 1.3	23.1± 1.1	23.5± 1.1	23.7± 1.3	24.2± 1.4	24.3± 1.1
1500 ppm	22.3± 0.9	22.4± 1.0	23.1± 1.0	23.3± 1.0	23.3± 1.1	23.7± 1.1	24.2± 1.2
3000 ppm	21.4± 1.0**	21.5± 1.1**	22.0± 1.1**	22.0± 1.1**	22.5± 1.2**	22.3± 1.3**	22.6± 1.5**
6000 ppm	20.7± 0.8**	20.7± 0.8**	21.2± 0.8**	21.3± 0.8**	21.6± 0.8**	22.0± 0.8**	22.2± 0.8**
Significant difference;	* : $P \le 0.05$	** : P ≤ 0.01		Test of Dunnett			•

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

coup Name	Administration	week	·		· ,	·	
	14	18	22	26	30	34	38
Control	24.2± 1.4	25.9± 1.6	27.5± 2.5	27.8± 2.5	29.0± 3.3	30.2± 3.3	31.3± 3.4
1500 ppm	24.0± 1.3	25.2± 1.5	26.2± 1.7	26.9± 1.8	28.0± 2.2	29.2± 2.5	29.5± 2.9
3000 ppm	22.8± 1.2**	23.6± 1.3**	24.1± 1.4**	24.9± 1.7**	25.3± 1.5**	25.7± 1.4**	26.0± 1.8**
mqq 0000	22.0± 0.9**	22.9± 1.0**	23,2± 1,1**	23.7± 1.0**	23.7± 1.4**	24.3± 1.5**	24.4± 1.0**
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett			
AN260)			· · · · · · · · · · · · · · · · · · ·		····		

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

p Name	Administration week							
	42	46	50	54	58	62	66	
Control	32.5± 3.7	33.3± 3.5	33.6± 3.8	34.1± 4.2	34.1± 4.0	34.2± 4.0	35.6± 4.5	
1500 ppm	30.5± 2.9	30.9± 2.9	31.1± 2.7	31.0± 3.2	31.2± 3.1	31.5± 3.0	32.2± 3.1	
3000 mag 0008	26.9± 1.6**	26.9± 1.9**	26.9± 1.7**	27.0± 1.7**	27.3± 2.0**	27.2± 1.8**	27.5± 2.2**	
6000 ppm	24.4± 1.5**	25.0± 1.2**	25.2± 1.2**	24.7± 1.2**	25.0± 1.2**	25.1± 1.3**	25.1± 1.7**	
Significant difference;	*: P ≦ 0.05	**: P ≤ 0.01		Test of Dunnett				

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

up Name	Administration	week					
	70	74	78	82	86	90	94
Control	36.2± 5.1	36.7± 4.4	37.7± 4.8	37.8± 5.2	37.8± 5.2	37.7± 5.1	38.1± 4.5
1500 ppm	33.0± 3.2	33.0± 3.2*	33.8± 3.4*	34.2± 3.6	34.0± 3.2	33.2± 3.5*	33.7± 4.2
3000 ppm	27.8± 2.3**	28.1± 2.4**	28.7± 2.8**	28.9± 3.1**	28.6± 3.1**	28.9± 3.2**	28.7± 2.6**
6000 ppm	25.4± 1.9**	25.5± 2.4**	26.1± 2.6**	26.1± 2.9**	25.7± 2.0**	25.9± 3.3**	25.8± 1.6**
Significant difference	; *: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
IAN260)		,					

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES

(SUMMARY)

ALL ANIMALS

SEX : FEMALE				PAGE: 12
Group Name	Administration	week		
16.19	98	102	104	
Control	36.9± 4.4	36.6± 4.5	36.1± 5.3	
1500 ppm	32.8± 3.4	32.8± 3.5	32.4± 4.1	
3000 ppm	28.5± 3.4**	27.8± 3.1**	28.0± 2.3**	
6000 ppm	25.2± 1.9**	25.2± 2.2**	25.7± 2.2**	
Significant difference;	*: P ≦ 0.05	**: P ≤ 0.01	Test of Dunnett	
(HAN260)				BAISS

APPENDIX C 1

WATER CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE (2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

PAGE: 1

oup Name	Administration	week					
- the h	1	2	3	4	5	6	7
Control	4.3± 0.9	4.4± 0.9	4.2± 0.8	4.3± 0.8	4.2± 1.0	4.3± 0.9	4.1± 0.8
333 ppm	4.0± 0.7	3.9± 0.6	3.9± 0.6	4.0± 0.6	3.8± 0.8	3.7± 0.5**	3.5± 0.5*
1000 ppm	3.5± 0.7**	3.4± 0.5**	3.4± 0.4**	3.5± 0.4**	3.4± 0.6**	3.4± 0.7**	3.3± 0.9**
3000 ppm	2.9± 0.5**	2.6± 0.5**	2.6± 0.6**	2.4± 0.4**	2.6± 0.4**	2.4土 0.4**	2.3± 0.3**
Significant difference;	*: P ≤ 0.05	** : P ≤ 0,01		Test of Dunnett	1784.4		

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

up Name	Admini	istration	week					
	8		9	10	11	12	13	14
Control	4.0±	0.9	4.1± 0.9	4.0± 0.9	4.1± 1.1	4.0± 0.9	3.7± 0.8	3.8± 1.4
333 ppm	3.5±	0.4	3.5± 0.6**	3.5± 0.6*	3.6± 0.6	3.5± 0.7*	3.4± 0.5	3.4± 0.6
1000 ppm	3.2±	0.9**	3.2± 0.6**	3.1± 0.5**	3.3± 0.8**	3.1± 0.7**	3.1± 0.6**	3.1± 0.9**
3000 ppm	2.2±	0.3**	2.3± 0.5**	1.9± 0.4**	2.3± 0.4**	2.3± 0.4**	2.1± 0.5**	2.2± 0.6**

Significant differe	nce; *:P≦0	0.05	**: $P \leq 0.01$		Test of Dunnett			

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Control 3.7± 1.4 3.2± 0.4 3.4± 0.4 3.3 ± 0.5 3.6 ± 0.4 3.6± 0.7 3.5 ± 0.3 333 ppm 3.4± 1.2 3.1 ± 0.5 3.4 ± 1.0 3.4± 0.9 3.3± 0.9** 3.4 ± 0.5 3.4± 0.8 1000 ppm 3.1± 0.8** 2.7± 0.6** 2.9± 0.5** 2.9± 0.4** 2.9± 0.3** 2.9± 0.3** 2.9± 0.4** 3000 ppm 2.1± 0.3** 2.0± 0.3** 2.1± 0.3** 2.0± 0.3** 2.2± 0.2** 2.2± 0.2**

PAGE: 3

Significant difference; $*:P \le 0.05$ $**:P \le 0.01$ Test of Dunnett BAIS 3

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

oup Name	Administratio	Administration week								
	46	50	54	58	62	66	70			
Control	3.6± 0.5	3.5± 0.4	3.7± 0.4	3.8± 0.4	3.8± 0.4	4.1± 0.6	4.0± 0.7			
333 ppm	3.5± 0.5	3.4± 0.4	3.7± 0.6	3.7± 0.3	3.8± 1.1	3.9± 0.3	3.8± 0.8			
1000 ppm	3.0± 0.5**	3.0± 0.8**	3.3± 1.0**	3.2± 1.0**	3.2± 1.1**	3.3± 0.9**	3.3± 0.7**			
3000 ppm	2.2± 0.2**	2.2± 0.3**	2.4± 0.3**	2.4± 0.4**	2.4生 0.4**	2.3± 0.4**	2.4士 0.3**			
Significant differe	ence; *:P≦0.05	**: P ≤ 0.01		Test of Dunnett	· · · · · · · · · · · · · · · · · · ·					

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

up Name	Administration	week				*** **	
	74	78	82	86	90	94	98
Control	3.9± 0.5	4.3± 0.9	4.4± 0.8	4.3± 0.7	4.3± 0.6	4.3± 1.0	4.4± 1.0
333 ppm	3.7± 0.6	4.0± 0.5	4.0± 0.5	4.0± 0.4	4.0± 0.6	4.1± 0.6	3.9± 0.6
1000 ppm	3.3± 0.4**	3.3± 0.5**	3.5± 0.4**	3.5± 0.5**	3.5± 0.7**	3.6± 0.7**	3.5± 0.6**
3000 ppm	2.4± 0.3**	2.6± 0.3**	2.6± 0.3**	2.6± 0.2**	2.6± 0.3**	2.7± 0.3**	2.4生 0.2**
The states							
Significant differen	nce; *: P ≤ 0.05 *	* : P ≤ 0.01		Test of Dunnett			
AN260)							

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	week		
	102	104		
Control	4.8± 1.6	5.0± 1.2		
333 ppm	4.0 ± 0.7	4.1± 0.7*		
1000 ppm	3.5± 0.6**	3.8± 1.1**		
3000 ppm	2.4± 0.4**	2.4± 0.3**		
Significant differe	ence; *: P ≦ 0.05	* : P ≤ 0.01	Test of Dunnett	

APPENDIX C 2

WATER CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE (2-YEAR STUDY)

STUDY NO.: 0268
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	Administration week								
	1	2	3	4	5	6	7			
Control	3.8± 0.4	4.1± 0.6	4.3± 0.8	4.4± 1.2	4.5± 1.5	4.6± 1.4	4.5± 0.8			
1500 ppm	3.1± 0.3**	3.2± 0.4**	3.2± 0.3**	3.1± 0.4**	3.2± 0.4**	3.3± 0.5**	3.3± 0.5**			
3000 ppm	2.5± 0.3**	2.4± 0.4**	2.6± 0.3**	2.4± 0.6**	2.5± 0.4**	2.5± 0.5**	2.5± 0.5**			
6000 ppm	2.0± 0.3**	1.7± 0.3**	1.9± 0.2**	1.7± 0.3**	1.8± 0.4**	1.7± 0.4**	1.8± 0.5**			
Significant differe	ence; *: P ≦ 0.05	**: P ≤ 0.01	- W 1-1/16	Test of Dunnett	1-1-11-11-11-11-11-11-11-11-11-11-11-11					

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration week								
	8	9	10	11	12	13	14		
Control	4.8± 1.7	4.3± 0.6	4.4± 0.7	4.0± 0.5	4.3± 1.1	4.1± 0.9	4.4± 1.3		
1500 ppm	3.1± 0.6**	3.3± 0.6**	3.2± 0.8**	3.1± 0.6**	3.1± 0.7**	3.0± 0.5**	3.1± 0.5**		
3000 ppm	2.5± 0.7**	2.4± 0.7**	2.4± 0.7**	2.4± 0.3**	2.4± 0.4**	2.4± 0.4**	2.5± 0.4**		
6000 ppm	1.8± 0.4**	2.0± 0.5**	1.8± 0.5**	1.8± 0.4**	1.9± 0.4**	1.9± 0.5**	1.9± 0.4**		
Circle Alexander						ere en			
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett					
AN260)							I		

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

iroup Name	Administration week							
	18	22	26	30	34	38	42	
Control	4.0± 0.9	4.2± 0.9	3.9± 1.0	3.8± 1.0	4.3± 1.8	3.8± 0.6	3.8± 0.6	
1500 ppm	3.0± 0.6**	2.8± 0.3**	2.8± 0.5**	2.8± 0.6**	2.8± 0.4**	2.9± 0.4**	2.7± 0.4**	
3000 ppm	2.4± 0.6**	2.2± 0.5**	2.3± 0.4**	2.2± 0.4**	2.4± 0.6**	2.3± 0.5**	2.3± 0.4**	
6000 ppm	1.8± 0.3**	1.7生 0.3**	1.7生 0.4**	1.8± 0.4**	1.9± 0.3**	1.8± 0.5**	1.7± 0.6**	

BAIS 3

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Administration week							
62 6	6 70						
3.9± 0.7 4.4	1± 1.2 3.9± 1.0						
2.8± 0.4** 3.1	± 0.9** 2.8± 0.9**						
2.4± 0.4** 2.4	1± 0.6** 2.4± 0.5**						
1.8± 0.3** 1.8	3± 0.4** 1.8± 0.3**						
1.8	± 0.3** 1.8						

(HAN260)

BAIS3

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

TOUR Name	Administration week							
	74	78	82	86	90	94	98	
Control	4.2± 0.8	4.0± 0.9	3.9± 1.0	3.8± 0.5	3.9± 0.6	4.0± 0.6	3.9± 0.6	
1500 ppm	2.8± 0.6**	2.8± 0.5**	3.0± 0.6**	2.9± 0.5**	2.8± 0.6**	2.8± 0.6**	2.8± 0.7**	
3000 ppm	2.5± 0.5**	2.4± 0.6**	2.5± 0.4**	2.5± 0.4**	2.5± 0.5**	2.5± 0.7**	2.5± 0.7**	
6000 pom	1.9± 0.4**	1.9± 0.4**	1.9± 0.3**	1.9± 0.3**	1.9± 0.3**	1.8± 0.3**	1.8± 0.3**	
			/- W	VII		***************************************		
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett				
AN260)								

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

iroup Name	Administration	Administration week						
	102	104						
	· · · · · · · · · · · · · · · · · · ·							
Control	3.9± 0.9	4.1± 0.7						
1500 ppm	2.9± 0.7*	3.1± 0.6**						
3000 ppm	2.7± 0.9**	2.7± 0.7**						
6000 ppm	1.8± 0.4**	2.0± 0.4**						
				77-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7				
Significant differen	nce; *: P ≤ 0.05 *	**: P ≤ 0.01	Test of Dunnett					
IAN260)				BAIS				

APPENDIX D 1

FOOD CONSUMPTION CHANGES: SUMMARY, MOUSE: MALE
(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

up Name	Administration	week			/**t		
	1	2	3	4	5	6	7
Contral	3.4± 0.2	3.5± 0.2	3.4± 0.3	3.5± 0.3	3.5± 0.3	3.5± 0.3	3.6± 0.2
333 ppm	3.4± 0.2	3.4± 0.2	3.3± 0.3	3.5± 0.3	3.5± 0.2	3.5± 0.2	3.6± 0.2
1000 ppm	3.4± 0.3	3.4± 0.3	3.4± 0.2	3.5± 0.3	3.5± 0.2	3.5± 0.2	3.6± 0.2
3000 ppm	3.1± 0.3**	3.3± 0.3*	3.3± 0.2	3.4± 0.3	3.3± 0.3*	3.3± 0.2**	3.4士 0.2**
Significant difference	; *: P ≦ 0.05	**: P ≤ 0.01		Test of Dunnett			

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 2

oup Name	Administration	week			· · · · · · · · · · · · · · · · · · ·		
	8	9	10	11	12	13	14
Control	3.5± 0.3	3.6± 0.3	3.6± 0.3	3.8± 0.3	3.8± 0.3	3.9± 0.3	3.8± 0.3
333 ppm	3.5± 0.2	3.6± 0.2	3.6± 0.2	3.7± 0.2	3.7± 0.2	3.8± 0.2*	3.8± 0.3
1000 ppm	3.6± 0.2	3.6± 0.3	3.6± 0.3	3.6± 0.2**	3.7± 0.2	3.7± 0.2**	3.7± 0.3
3000 ppm	3.3± 0.3**	3.4± 0.3**	3.3± 0.2**	3.4± 0.2**	3.5± 0.2**	3.4± 0.3**	3.4± 0.2**
THE ASSESSMENT							
Significant differer	nce; *:P≦0.05 *	*: P ≤ 0.01		Test of Dunnett			

(HAN260)

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1 UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 3

TOUR Name	Administration	week					
	18	22	26	30	34	38	42
Control	3.9± 0.3	3.9± 0.3	4.0± 0.3	4.1± 0.3	4.2± 0.3	4.3± 0.3	4.3± 0.3
333 ppm	3.9± 0.2	3.8± 0.3	3.9± 0.2	4.0± 0.2	4.0± 0.3*	4.2± 0.2*	4.1± 0.3*
1000 ppm	3.8± 0.3	3.8± 0.3	3.8± 0.3*	3.9± 0.3*	4.0± 0.3**	4.0± 0.3**	4.0± 0.3**
3000 ppm	3.5± 0.2**	3.5± 0.2**	3.5± 0.2**	3.6± 0.2**	3.6± 0.2**	3.7± 0.3**	3.6± 0.3**
P*************************************			<u></u>			, , , , , , , , , , , , , , , , , , , ,	· ·
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett			
N260)							I

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

roup Name	Administration	week					
	46	50	54	58	62	66	70
Control	4.2± 0.4	4.4± 0.4	4.4± 0.3	4.5± 0.4	4.6± 0.3	4.5± 0.4	4.4± 0.4
333 ppm	4.1± 0.3	4.3± 0.3	4.2± 0.3	4.4± 0.3	4.4± 0.3*	4.3± 0.5	4.2± 0.3*
1000 ppm	4.1± 0.7**	4.3± 0.8	4.2± 0.5**	4.4± 0.4	4.3± 0.4**	4.1± 0.5**	4.1± 0.5*
3000 ppm	3.7± 0.3**	3.8± 0.3**	3.8± 0.3**	3.9± 0.3**	3.9± 0.3**	3.8± 0.3**	3.8± 0.3**
					and the second of		
Significant difference	e; $*: P \leq 0.05$	**: P ≤ 0.01		Test of Dunnett			

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	week					
	74	78	82	86	90	94	98
Control	4.4± 0.5	4.8± 0.5	4.7± 0.4	4.7± 0.4	4.7± 0.6	4.8± 0.6	4.4± 0.7
333 ppm	4.3± 0.7	4.6± 0.4	4.6± 0.4	4.5± 0.4	4.5± 0.5	4.5± 0.5	4.3± 0.5
1000 ppm	4.4± 0.3	4.5± 0.5**	4.6± 0.6	3.7± 0.5**	4.6± 0.6	4.6± 0.5	4.4± 0.4
3000 ppm	3.9± 0.4**	4.0± 0.3**	4.2± 0.3**	4.1± 0.4**	4.3± 0.4**	4.2± 0.3**	4.0± 0.4**
Significant difference;	*: P ≤ 0.05	**: P ≤ 0.01		Test of Dunnett		W-4 - 11 - 1	

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

Group Name	Administration	week		
	102	104		
Control	4.5± 0.9	4.6± 0.7		
333 ppm	4.3± 0.6	4.4± 0.5		
1000 ppm	4.4± 0.5	4.4± 0.6		
3000 ppm	3.9± 0.4**	4.0± 0.4**		
Significant differe	ence; *: P ≤ 0.05 ×	**: P ≤ 0.01	Test of Dunnett	
(HAN260)				BAIS 3

APPENDIX D 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE (2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

Group Name		ek					
	1	9	2	Α	=	^	

	1	2	3	4	5	6	7
Control	2.8± 0.2	2.9± 0.2	3.1± 0.2	3.1± 0.2	3.2± 0.2	3.2± 0.2	3.3± 0.2
1500 ppm	2.8± 0.2	2.8± 0.2	3.0± 0.2*	3.1± 0.2	3.1± 0.2	3.2± 0.2	3.2± 0.2
3000 ppm	2.6± 0.3*	2.7± 0.2**	2.9± 0.2**	2.9± 0.2**	3.0± 0.2**	3.0± 0.2**	3.1± 0.2**
6000 ppm	2.4± 0.3**	2.5± 0.2**	2.7± 0.2**	2.7± 0.2**	2.8± 0.2**	2.9± 0.2**	2.9± 0.3**

(HAN260)

BAIS 3

PAGE: 7

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

up Name	Administration week									
· · · · · · · · · · · · · · · · · · ·	8	9	10	11	12	13	14			
Control	3.3± 0.2	3.4± 0.2	3.4± 0.2	3.2± 0.3	3.5± 0.4	3.4± 0.3	3.4± 0.3			
1500 ppm	3.2± 0.3*	3.3± 0.2	3.3± 0.3*	2.8± 0.3**	3.4± 0.3	3.3± 0.3	3.4± 0.3			
3000 ppm	3.0± 0.2**	3.1± 0.2**	3.0± 0.3**	3.1± 0.3	3.1± 0.2**	3.1± 0.4**	3.3± 0.3**			
Mqq 0000	2.9士 0.2**	3.0± 0.2**	2.9± 0.2**	3.0± 0.2**	3.1± 0.3**	3.1± 0.3**	3.1± 0.3**			
	the column to th		to a distance of the second							

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administra	ation week					····
WHAT	18	22	26	30	34	38	42
Control	3.6± 0.3	3.7± 0.4	3.7± 0.6	3.8± 0.5	4.0± 0.4	4.1± 0.5	4.2± 0.5
1500 ppm	3.4± 0.3	* 3.5± 0.3	3.7± 0.3	3.7± 0.3	3.8± 0.4	3.8± 0.5*	3.9± 0.5*
3000 ppm	3.2± 0.2		3.4± 0.3**	3.4± 0.3**	3.5± 0.4**	3.7± 0.4**	3.7± 0.3**
mqq 0000	3.1± 0.3	** 3.1± 0.3**	3.2± 0.4**	3.2± 0.4**	3.5± 0.4**	3.5± 0.4**	3.4± 0.3**
Significant difference :	*: P ≤ 0.05	**: P ≦ 0.01		Test of Dunnett	· · · · · · · · · · · · · · · · · · ·		

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

oup Name	Administration	week			70 My 100 M		
	46	50	54	58	62	66	70
Control	4.2± 0.5	4.1± 0.5	4.0± 0.6	4.0± 0.5	4.0± 0.5	4.1± 0.6	4.4± 0.5
1500 ppm	4.1± 0.4	4.0± 0.3	3.7± 0.4	3.8± 0.4	3.8± 0.4	3.7± 0.5**	3.9± 0.5**
3000 ppm	3.7± 0.4**	3.6± 0.4**	3.5± 0.4**	3.7± 0.4**	3.6± 0.3**	3.4± 0.4**	3.7± 0.5**
mqq 0000	3.6± 0.4**	3.6± 0.4**	3.4± 0.4**	3.5± 0.5**	3.5± 0.3**	3.2± 0.5**	3.5± 0.4**

Significant differend	ce; *:P≦0.05 *	*: P ≤ 0.01		Test of Dunnett			
AN260)							

PAGE: 10

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

oup Name	Administration	week						
	74	78	82	86	90	94	98	
Control	4.4± 0.6	4.2± 0.6	4.2± 0.8	4.1± 0.6	4.2± 0.5	4.3± 0.5	3.9± 0.5	
1500 ppm	3.9± 0.7**	3.8± 0.6*	4.1± 0.6	3.9± 0.6	4.0± 0.5	4.0± 0.7*	3.9± 0.5	
3000 ppm	3.8± 0.4**	3.6± 0.5**	3.9± 0.6*	3.8± 0.5	3.9± 0.5**	3.9± 0.5**	3.7± 0.6*	
6000 ppm	3.7± 0.4**	3.7± 0.5**	3.7± 0.5**	3.9± 0.5	3.7± 0.5**	3.6± 0.4**	3.4± 0.4**	

(HAN260)

BAIS 3

PAGE: 11

ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Control 4.1± 0.8			
1500 ppm 3.9± 0.4			
	3.8± 0.6**		
3000 ppm 3.7± 0.6	** 3.8± 0.5**		
6000 ppm 3.3± 0.4	** 3.7± 0.5**		
And the second s	W		
Significant difference; *: P ≤ 0.05	** : P ≤ 0.01	Test of Durnett	

APPENDIX E 1

CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY)

ANIMAL: MOUSE C-j:BDF1
UNIT: g/kg/day
REPORT TYPE: A1 104
SEX: MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE: 1

iroup Name	Administration	(weeks)					
	1	2	3	4	5	6	7
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
333 ppm	0.251± 0.045	0.239± 0.037	0.231± 0.037	0.232± 0.034	0.212± 0.043	0.202± 0.031	0.186± 0.028
1000 ppm	0.444± 0.086	0.416± 0.061	0.406± 0.051	0.401± 0.053	0.388± 0.064	0.373± 0.076	0.356± 0.101
3000 ppm	0.734± 0.137	0.638± 0.115	0.635± 0.139	0.583± 0.083	0.594± 0.094	0.554± 0.087	0.524± 0.077

(HAN300)

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration	(weeks)					
	8	9	10	11	12	13	14
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
333 ppm	0.185± 0.026	0.182± 0.030	0.179± 0.032	0.178± 0.031	0.169± 0.037	0.162± 0.031	0.161± 0.034
1000 ppm	0.337± 0.103	0.332± 0.071	0.322± 0.055	0.330± 0.089	0.310± 0.073	0.300± 0.068	0.290± 0.095
3000 ppm	0.505± 0.091	0.516± 0.126	0.427± 0.104	0.492± 0.085	0.474± 0.075	0.440± 0.111	0.452± 0.122

(HAN300)

ANIMAL : MOUSE Crj:BDF1 UNIT : g/kg/d a y REPORT TYPE : Al 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 3

roup Name	Administration (weeks)								
	18	22	26	30	34	38	42		
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
333 ppm	0.147± 0.056	0.125± 0.025	0.132± 0.042	0.122± 0.037	0.116± 0.035	0.115± 0.024	0.114± 0.036		
1000 ppm	0.271± 0.077	0.218± 0.055	0.231± 0.043	0.218± 0.035	0.210± 0.029	0.205± 0.028	0.201± 0.027		
3000 ppm	0.406± 0.067	0.373± 0.068	0.384± 0.049	0.354± 0.052	0.365± 0.049	0.352± 0.054	0.359± 0.049		

(HAN300)

ANIMAL : MOUSE Crj:BDF1 UNIT : g/kg/day REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

roup Name	Administration	(weeks)						
· · · · · · · · · · · · · · · · · · ·	46	50	54	58	62	66	70	
Contral	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	
333 ppm	0.114± 0.020	0.109± 0.021	0.118± 0.029	0.117± 0.017	0.119± 0.046	0.119± 0.019	0.116± 0.033	
1000 ppm	0.208± 0.066	0.204± 0.087	0.227± 0.142	0.222± 0.126	0.216± 0.135	0.217± 0.115	0.211± 0.095	
3000 ppm	0.350± 0.049	0.346± 0.048	0.377± 0.058	0.376± 0.079	0.371± 0.070	0.356± 0.074	0.358± 0.054	

(HAN300)

ANIMAL : MOUSE Crj:BDF1 UNIT : g/kg/day REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration	(weeks)	******				
	74	78	82	86	90	94	98
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
333 ppm	0.110± 0.022	0.115± 0.017	0.117± 0.021	0.116± 0.017	0.119± 0.025	0.118± 0.024	0.116± 0.023
1000 ppm	0.198± 0.024	0.198± 0.028	0.208± 0.023	0.211± 0.028	0.213± 0.039	0.220± 0.045	0.214± 0.056
3000 ppm	0.349± 0.049	0.372± 0.041	0.365± 0.046	0.375± 0.044	0.381 + 0.055	0.392+ 0.051	0.349+ 0.042

PAGE: 5

(HAN300) BAIS 3

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day

REPORT TYPE : A1 104 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

roup Name	Administration	weeks)	
*****	102	104	
Control	0.000± 0.000	0.000± 0.000	
333 ppm	0.122± 0.028	0.129± 0.034	
1000 ppm	0.219± 0.054	0.245± 0.088	
3000 ppm	0.359± 0.062	0.362± 0.054	

APPENDIX E 2

CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
UNIT : g /kg/day
REPORT TYPE : AI 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

SEX : FEMALE Group Name	Administration	(weeks)			1-10		PAGE:
	1	2	3	4	5	6	7
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.239± 0.023	0,236± 0,035	0.234± 0.023	0.217± 0.029	0.226± 0.030	0.226± 0.043	0.219± 0.034
3000 ppm	0.392± 0.052	0.373± 0.059	0.383± 0.047	0.351± 0.087	0.358± 0.054	0.352± 0.066	0.348± 0.077
6000 ppm	0.654± 0.096	0.544± 0.083	0.591± 0.072	0.515± 0.085	0.550± 0.109	0.513± 0.129	0.525± 0.132

(HAN300) BAIS 3

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/d a y
REPORT TYPE : A1 104

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

roup Name	Administratio	n (weeks)					
	8	9	10	11	12	13	14
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.209± 0.046	0.213± 0.045	0,209± 0,055	0.202± 0.042	0.199± 0.046	0.188± 0.028	0.192± 0.033
3000 ppm	0.353± 0.095	0.327± 0.094	0.332± 0.088	0.320± 0.042	0.320± 0.051	0.314± 0.054	0.328± 0.055
6000 ppm	0.534± 0.101	0.561± 0.146	0.516± 0.128	0.496± 0.093	0.523± 0.094	0.510± 0.114	0.519± 0.107

(HAN300)

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 9

roup Name	Administration	(weeks)					
-10-10-10-10-10-10-10-10-10-10-10-10-10-	18	22	26	30	34	38	42
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.180± 0.035	0.162± 0.023	0.154± 0.030	0.151± 0.036	0.147± 0.029	0.149± 0.028	0.136± 0.027
3000 ppm	0.304± 0.083	0.272± 0.072	0.278± 0.057	0.267± 0.049	0.283± 0.083	0.271± 0.056	0.260± 0.053
6000 ppm	0.485± 0.083	0.428± 0.077	0.443± 0.093	0.446± 0.082	0.473± 0.094	0.454± 0.140	0.422± 0.216

(HAN300)

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 10

Group Name	Administration	(weeks)					
	46	50	54	58	62	66	70
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.134± 0.026	0.140± 0.023	0.137± 0.028	0.136± 0.029	0.133± 0.024	0.142± 0.041	0.130± 0.040
3000 ppm	0.258± 0.056	0.259± 0.060	0.268± 0.056	0.265± 0.087	0.262± 0.062	0.266± 0.079	0.258± 0.072
6000 ppm	0.413± 0.059	0.436± 0.085	0.458± 0.077	0.448± 0.065	0.438± 0.071	0.439± 0.087	0.432± 0.070

(HAN300)

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 11

Group Name	Administration	(weeks)					
	74	78	82	86	90	94	98
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.127± 0.026	0.127± 0.024	0.133± 0.025	0.129± 0.025	0.130± 0.033	0.126± 0.030	0.128± 0.035
3000 ppm	0.274± 0.073	0.256± 0.078	0.266± 0.059	0.266± 0.064	0.259± 0.060	0.268± 0.087	0.269± 0.094
6000 ppm	0.445± 0.086	0.447± 0.088	0.449± 0.071	0.455± 0.064	0.446± 0.060	0.420± 0.071	0.421± 0.059

(HAN300)

ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

			PAGE: 1
iroup Name		ueeks)	
	102	104	
Control	0.000± 0.000	0.000± 0.000	
1500 ppm	0.135± 0.030	0.144± 0.027	
3000 ppm	0.298± 0.129	0.288± 0.084	
6000 ppm	0.420± 0.084	0.458± 0.080	
(HAN300)			BAISS

APPENDIX F 1

HEMATOLOGY: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

SEX : MALE

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

MEASURE, TIME: 1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

oup Name	NO. of Animals			HEMOGLOBIN g/dl		HEMATOCRIT %		MCV f &			MCH pg		MCHC g∕dl		PAGE T
Control	31	9.11±	1.54	13.1±	2.1	41.3±	6.1	45.8±	3.4	14.4±	0.9	31.5±	1.4	1945±	464
333 ppm	41	9.57±	0.67	13.6±	0.9	43.0±	2.6	45.0±	1.5	14.3±	0.6	31.7±	0.8	1928±	498
1000 ppm	36	9.80±	1.66**	13.8±	1.7	43.9±	5.2*	45.2±	3.2	14.2±	1.2	31.5±	1.4	1954±	424
3000 ppm	40	9.71±	0.47	14.1±	0.6**	43.9±	2.2	45.2±	0.9	14.6±	0.7	32.3±	1.3	2169±	280*

(HCL070)

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

SEX : MALE

REPORT TYPE : A1

PAGE: 2

roup Name	NO. of Animals	WBC 1 O³/		Did N-BAND	fferentia	N-SEG	%)	EOSINO		BASO		ОИОМ		LYMPHO		OTHERS	
Control	31	2.58±	1,61	1±	3	31±	11	1±	1	0±	0	4±	2	61±	12	2±	3
333 ppm	41	2.91±	1.75	0±	0	26±	12	2±	4	0±	0	4±	2	65±	14	2±	7
1000 ppm	36	2,92±	1.65	0±	1	28±	16	1±	1	0±	0	4±	2	65±	16	2±	3
3000 ppm	40	2.47±	1.25	0±	1	22±	7**	1±	1	0±	0	4±	2	71±	8**	1±	2
Significant	difference;	*: P :	≦ 0.05	**: P ≦	0.01	U. II	<u></u>	Test	of Dunn	ett					-		
HCL070)					***		······································										BAISS

APPENDIX F 2

HEMATOLOGY: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

41.8±

MEASURE. TIME: 1

3000 ppm

SEX : FEMALE

REPORT TYPE : A1

32

Group Name NO. of RED BLOOD CELL HEMOGLOBIN HEMATOCRIT MCV MCH MCHC PLATELET Animals 106/Hl g/dl % f Q g/dl 1 03/με рg Control 29 9.17± 1.37 $13.5 \pm$ 2.0 $41.7 \pm$ 5.7 45.7± 2.2 $14.7 \pm$ 0.8 32.3± 1154± 1.4 305 1500 ppm 29 9.05 ± 1.52 $13.0 \pm$ 2.1 $41.4\pm$ 5.9 $46.2 \pm$ 3.4 $14.4 \pm$ 0.7 31.3± 1.5 $1145\pm$ 424

6000 ppm 36 9.06± 1.42 13.0± 1.7 40.9± 4.7 45.9± 5.6 14.6± 1.3 31.8± 2.0 1319± 327

3.5

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

9.33± 0.78

 $13.3 \pm$

1.3

Test of Dunnett

44.8±

1.4

 $14.3 \pm$

0.8

 $31.9 \pm$

1.2

 $1361 \pm$

299

(HCL070)

BAIS 3

PAGE: 3

ANIMAL : MOUSE C-j:BDF1
MEASURE. TIME : 1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

SEX : FEMALE

REPORT TYPE : A1

PAGE: 4

roup Name	NO. of Animals	WBC 1 О ³ /µя	Di- N-BAND	fferentia	L WBC (% N-SEG	6)	EOSINO		BASO		MONO		LYMPHO		OTHERS	
Control	29	2.84± 2.68	0±	1	27±	12	1±	1	0±	0	5±	2	57±	17	9±	13
1500 ppm	29	17.00± 73.61	1±	1	30±	16	1±	1	0±	0	5±	3	53±	21	11±	21
3000 ppm	32	1.63± 0.81*	1±	1	29士	13	1±	1	0±	0	4±	2	62±	15	4±	6
mqq 0008	36	1.24± 0.63**	1±	1	35±	16	1±	1	0±	0	4±	2	55±	16	4±	4
Significant	t difference	; *: P ≤ 0.05	** : P <u>≤</u>	0.01			Test	of Dunr	nett			·				
HCL070)											···					BAIS

APPENDIX G 1

BIOCHEMISTRY: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO.: 0268 ANIMAL: MOUSE Crj:BDF1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 1

roup Name NO. of Animals		TOTAL PROTEIN		g∕d% ALBUMIN		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	31	5.1±	0.6	2.8±	0.3	1.2±	0.1	0.17±	0.05	186±	37	113±	31	56±	25
333 ppm	41	5.4±	0.7	2.9±	0.4	1.2±	0.2	0.16±	0.03	188±	32	117±	40	43±	16
1000 ppm	36	5.3±	0.9	2.8±	0.5	1.2±	0.2	0.17±	0.04	186±	36	109±	47	46±	27
3000 ppm	40	4.9±	0.3*	2.7±	0.1	1.2±	0.1	0.16±	0.02	179±	25	85±	12**	38±	11**

ANIMAL : MOUSE Crj:BDF1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

MEASURE, TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 2

oup Name	NO. of Animals	GOT IU/s	2	GPT IU/G	GPT IU/Q		LDH IU/Q		ALP IU/Q		CPK IU/@		UREA NITROGEN mg∕dl		SODIUM mEq/l	
Control	31	87±	63	84±	140	508±	844	141±	40	51±	18	23.2±	9.2	153±	2	
333 ppm	41	86±	59	58±	67	438±	530	143±	37	56±	41	20.9±	3.0	153±	2	
1000 ppm	36	119±	162	70±	95	419±	419	150±	42	62±	89	27.7±	41.4	153±	2	
3000 ppm	40	56±	6**	17±	5**	245士	42**	141±	20	53±	14	20.2±	3.0*	153±	1	

(HCL074)

ANIMAL : MOUSE Crj:BDF1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

NO. of Group Name POTASSIUM CHLORIDE CALCIUM INORGANIC PHOSPHORUS Animals mEq/Q mEq/2mg/dl mg/dl Control 31 $9.0 \pm$ 6.7± 1.3 4.4± 0.6 $120\pm$ 3 0.4 333 ppm 41 4.3± 0.5 119± 3 $9.2 \pm$ 0.5 6.2± 0.7 1000 ppm 4.2± 119± 36 0.7 4 9.1± 0.8 6.8± 2.0 3000 ppm 40 4.2± 0.5 120土 2 8.7± 0.3** 6.7± 0.9 Significant difference; $*: P \leq 0.05$ **: $P \leq 0.01$ Test of Dunnett

(HCL074)

BAIS 3

APPENDIX G 2

BIOCHEMISTRY: SUMMARY, MOUSE: FEMALE

ANIMAL : MOUSE Crj:BDF1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX: FEMALE

REPORT TYPE : A1

NO. of Group Name TOTAL PROTEIN ALBUMIN A/G RATIO T-BILIRUBIN GLUCOSE T-CHOLESTEROL TRIGLYCERIDE Animals g/dl g/dl mg/dl mg/dl mg/dl mg/dl Control 29 $4.9 \pm$ 0.6 $2.8 \pm$ 0.4 $1.3 \pm$ 0.2 0.17± 0.04 130± 33 78± 51 $35 \pm$ 21 1500 ppm 29 4.9± 0.7 $2.7\pm$ 0.2 1.2± 0.2 0.18± 0.08 45 124士 22 63± 34± 25 3000 ppm 32 $5.0 \pm$ 0.6 $2.7\pm$ 0.2 $1.3\pm$ 0.2 0.16± 0.02 131± 20 $73\pm$ 20 $27\pm$ 15 6000 ppm 36 4.6± 0.6 2.7± 0.3 1.4± 0.2 0.17± 0.08 132士 27 66± 11 $22\pm$ 8** Significant difference; $*: P \le 0.05$ **: $P \leq 0.01$ Test of Dunnett

(HCL074)

BAIS 3

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

SEX : FEMALE

REPORT TYPE : A1

PAGE: 5

TOUP Name	NO. of Animals	GOT I U / I	2	GPT IU/0		LDH IU/.	2	ALP IU/1)	I U / ũ	,	UREA N mg/dl		SODIUM mEq/Q	
Control	29	133±	89	45±	26	455±	412	221±	95	89±	86	19.2±	10.9	152±	2
1500 ppm	29	149±	166	40±	35	703±	1105	266±	133	97±	85	22.4±	20.6	153±	3
3000 ppm	32	86±	46**	25±	24**	284±	141**	260±	90	87±	84	19.5±	9.3	152±	2
6000 ppm	36	79±	34**	19士	. 15**	521±	984	266±	78	112±	98	23.1±	8.8**	154±	4

(HCL074)

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

SEX : FEMALE

REPORT TYPE : A1

oup Name	NO. of Animals	POTASSI mEq/		CHLORIDE mEq/Q		mg/dl mg/dl		INORGAN mg/dl	C PHOSPHORUS	
Control	29	4.3±	0.5	120±	3	9.2±	0.6	6.5±	1.1	
1500 ppm	29	4.3±	0.8	121±	4	9.0±	0.5	7.1±	2.2	
3000 ppm	32	4.1±	0.5	120±	3	9.1±	0.5	6.7±	1.2	
1000 maq	36	4.3±	0.5	121±	4	8.7±	0.3**	7.3±	1.3	
Significant	difference;	*: P ≤ (0.05	**: P ≤ 0.01				Test of Dun	ett	
CL074)										

APPENDIX H 1

URINALYSIS: SUMMARY, MOUSE: MALE

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

Group Name NO. of Protein____ Glucose__ Ketone body Occult blood Animals 5.0 6.0 6.5 7.0 7.5 8.0 8.5 CHI $-\pm + 2 + 3 + 4 + CHI$ - ± + 2+ 3+ 4+ CHI - ± + 2+ 3+ 4+ CHI $-\pm + 2 + 3 + CHI$ Control 0 4 12 12 3 1 0 0 2 25 5 0 0 32 0 0 0 0 0 16 15 1 0 0 0 27 0 0 4 1 333 ppm 41 3 19 17 2 0 0 0 26 14 1 0 41 0 0 0 0 0 15 25 1 0 0 0 36 0 2 1 2 1000 ppm 38 8 20 0 0 24 12 1 1 38 0 0 0 0 0 8 28 2 0 0 0 * 31 2 2 0 3 3000 ppm 0 7 31 2 0 0 0 ** 0 0 10 29 1 0 ** 40 0 0 0 0 0 1 17 19 3 0 0 ** 38 1 0 0 1

PAGE: 1

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

(HCL101) BAIS 3

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

coup Name	NO. of Animals	Urabilinogen ± + 2+ 3+ 4+ CHI		
Control	32	32 0 0 0 0		
333 ppm	41	41 0 0 0 0		
1000 ppm	38	38 0 0 0 0		
3000 ppm	40	40 0 0 0 0		
Significant	difference :	; *: P ≤ 0.05 **: P ≤ 0.01	Test of CHI SQUARE	
ICL101)				BAIS

APPENDIX H 2

URINALYSIS: SUMMARY, MOUSE: FEMALE

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 3

up Name	NO. of	_Hq								Pratein	Glucose	Ketone body	Occult blood
	Animals	5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	- ± + 2+ 3+ 4+ CHI	- ± + 2+ 3+ 4+ CHI	- ± + 2+ 3+ 4+ CHI	- ± + 2+ 3+ CHI
Control	30	0	3	4	5	5	13	0		0 4 16 9 1 0	30 0 0 0 0 0	4 22 3 1 0 0	23 3 1 1 2
1500 ppm	30	0	2	13	6	7	2	0	**	0 0 21 9 0 0	30 0 0 0 0 0	4 19 5 2 0 0	26 1 0 0 3
3000 ppm	32	0	2	9	11	7	3	0	*	0 0 15 16 1 0	32 0 0 0 0 0	2 22 6 2 0 0	32 0 0 0 0
6000 ppm	39	0	8	18	7	3	3	0	**	0 0 12 25 2 0 **	39 0 0 0 0 0	1 15 15 7 1 0 **	36 2 0 0 1
Significant	difference	; *:	: P ≦	€ 0.05	 5	** :	P ≦	0.01		Test	of CHI SQUARE		

URINALYSIS

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

SEX : FEMALE	REPORT	TYPE: A1		PAGE: 4
Group Name	NO. of Animals	Urabilinagen ± + 2+ 3+ 4+ CHI		
Control	30	30 0 0 0 0		
1500 ppm	30	30 0 0 0 0		
3000 ppm	32	32 0 0 0 0		
mqq 0008	39	39 0 0 0 0		
Significan	t difference	; *: P ≤ 0.05 **: P ≤ 0.01	Test of CHI SQUARE	
(HCL101)				RAIS 3

APPENDIX I 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE : ALL ANIMALS

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX : MALE

rgan	Findings	Group Name Control NO. of Animals 50 (%)	333 ppm 50 (%)	1000 ppm 50 (%)	3000 ppm 50 (%)
ubcutis	edema	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	1 (2)	0 (0)	0 (0)	0 (0)
	mass	0 (0)	1 (2)	0 (0)	0 (0)
nua	red	1 (2)	0 (0)	0 (0)	0 (0)
	nodule	13 (26)	9 (18)	13 (26)	6 (12)
vmph nade	enlarged	2 (4)	5 (10)	3 (6)	1 (2)
hymus	enlarged	1 (2)	1 (2)	0 (0)	0 (0)
oleen	enlarged	6 (12)	7 (14)	2 (4)	1 (2)
	black zone	1 (2)	0 (0)	1 (2)	0 (0)
	nodule	1 (2)	3 (6)	1 (2)	0 (0)
ceth	nodule	0 (0)	1 (2)	0 (0)	0 (0)
orestomach	nodule	1 (2)	0 (0)	1 (2)	0 (0)
l stomach	thick	5 (10)	4 (8)	3 (6)	1 (2)
mall intes	nodule	1 (2)	0 (0)	2 (4)	0 (0)
ecum	nodule	0 (0)	0 (0)	0 (0)	1 (2)
iver	enlarged	1 (2)	1 (2)	3 (6)	1 (2)
	pale	1 (2)	0 (0)	1 (2)	0 (0)
	white zone	0 (0)	1 (2)	0 (0)	2 (4)
	red zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	25 (50)	23 (46)	16 (32)	5 (10)
	cyst	1 (2)	0 (0)	0 (0)	0 (0)
idney	atrophic	0 (0)	0 (0)	0 (0)	3 (6)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE PAGE: 2

Organ	Findings_	Group Name Control NO. of Animals 50 (%)	333 ppm 50 (%)	1000 ppm 50 (%)	3000 ppm 50 (%)
kidney	white zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	0 (0)	1 (2)	0 (0)	2 (4)
	hydronephrosis	3 (6)	4 (8)	3 (6)	0 (0)
ureter	dilated	0 (0)	0 (0)	1 (2)	0 (0)
urin bladd	urine:marked retention	0 (0)	2 (4)	1 (2)	0 (0)
pituitary	nodule	1 (2)	1 (2)	0 (0)	1 (2)
testis	atrophic	0 (0)	0 (0)	1 (2)	0 (0)
epididymis	adhesion	1 (2)	0 (0)	0 (0)	0 (0)
prep/cligl	nodule	0 (0)	1 (2)	0 (0)	0 (0)
еуе	white	1 (2)	1 (2)	1 (2)	0 (0)
Harder gl	enlarged	2 (4)	1 (2)	2 (4)	0 (0)
	nodule	2 (4)	2 (4)	1 (2)	0 (0)
muscle	nodule	0 (0)	0 (0)	1 (2)	0 (0)
bone	thick	1 (2)	0 (0)	0 (0)	1 (2)
mediastinum	mass	0 (0)	2 (4)	0 (0)	1 (2)
retroperit	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	mass	0 (0)	1 (2)	0 (0)	0 (0)
abdominal c	hemorrhage	1 (2)	0 (0)	0 (0)	1 (2)
	ascites	2 (4)	1 (2)	1 (2)	3 (6)
thoracic ca	hemorrhage	1 (2)	0 (0)	1 (2)	0 (0)
	pleural fluid	4 (8)	4 (8)	4 (8)	1 (2)
other	tail:nodule	0 (0)	0 (0)	1 (2)	0 (0)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : MALE GROSS FINDINGS (SUMMARY) ALL ANIMALS (0-105W)

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	333 ppm 50 (%)	1000 ppm 50 (%)	3000 ppm 50 (%)
other	hindlimb:nodule		0 (0)	1 (2)	0 (0)	0 (0)
(HPT080)				***************************************		BAIS

APPENDIX I 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE
DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

: MOUSE Crj:BDF1 ANIMAL

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

REPORT TYPE : A1 : MALE

Group Name Control 333 ppm 1000 ppm 3000 ppm Organ_ Findings_ NO. of Animals 17 (%) 9 (%) 12 (%) 10 (%) 0 (0) subcutis edema 1 (11) 0 (0) 0 (0) 0 (0) 1 (11) 0 (0) mass 0 (0) lung red 1 (6) 0 (0) 0 (0) 0 (0) nodule 3 (18) 2 (22) 4 (33) 1 (10) Lymph node enlarged 1 (6) 2 (22) 0 (0) 0 (0) thymus enlarged 1 (6) 0 (0) 0 (0) 0 (0) spleen enlarged 5 (29) 2 (22) 0 (0) 1 (8) black zone 0 (0) 0 (0) 1 (8) 0 (0) nodule 1 (6) 1 (11) 0 (0) 0 (0) small intes nodule 1 (6) 0 (0) 1 (8) 0 (0) COCUM nodule 0 (0) 0 (0) 0 (0) 1 (10) Liver enlarged 1 (6) 1 (11) 2 (17) 1 (10) pale 1 (6) 0 (0) 0 (0) 1 (8) white zone 0 (0) 1 (11) 0 (0) 2 (20) red zone 0 (0) 1 (11) 0 (0) 0 (0) nodule 10 (59) 5 (56) 2 (17) 2 (20) kidney atrophic 0 (0) 0 (0) 0 (0) 1 (10) white zone 0 (0) 1 (11) 0 (0) 0 (0) nadule 0 (0) 0 (0) 0 (0) 2 (20) hydronephrosis 3 (18) 1 (11) 2 (17) 0 (0) ureter dilated 0 (0) 0 (0) 1 (8) 0 (0) urin bladd urine:marked retention 0 (0) 1 (11) 0 (0) 0 (0)

ANIMAL : MOUSE C-j:BDF1
REPORT TYPE : A1

: MALE SEX

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

PAGE: 2

Organ	Findings	Group Name Control NO. of Animals 17 (%)	333 ppm 9 (%)	1000 ppm 12 (%)	3000 ppm 10 (%)
pituitary	nodule	0 (0)	1 (11)	0 (0)	1 (10)
epididymis	adhesion	1 (6)	0 (0)	0 (0)	0 (0)
nuscle	nodule	0 (0)	0 (0)	1 (8)	0 (0)
nediastinum	mass	0 (0)	2 (22)	0 (0)	1 (10)
bdominal c	hemorrhage	1 (6)	0 (0)	0 (0)	1 (10)
	ascites	2 (12)	1 (11)	1 (8)	3 (30)
horacic ca	hemorrhage	1 (6)	0 (0)	1 (8)	0 (0)
	ploural fluid	3 (18)	4 (44)	4 (33)	1 (10)

APPENDIX I 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE : SACRIFICED ANIMALS

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

SEX : MALE

Organ	Findings	Group Name Control NO. of Animals 33 (%)	333 ppm 41 (%)	1000 ppm 38 (%)	3000 ppm 40 (%)
subcutis	nodule	1 (3)	0 (0)	0 (0)	0 (0)
tung	nodule	10 (30)	7 (17)	9 (24)	5 (13)
lymph node	enlarged	1 (3)	3 (7)	3 (8)	1 (3)
thymus	enlarged	0 (0)	1 (2)	0 (0)	0 (0)
spleen	enlarged	1 (3)	5 (12)	1 (3)	1 (3)
	black zone	1 (3)	0 (0)	0 (0)	0 (0)
	nodule	0 (0)	2 (5)	1 (3)	0 (0)
tooth	nodule	0 (0)	1 (2)	0 (0)	0 (0)
forestomach	nodule	1 (3)	0 (0)	1 (3)	0 (0)
al stomach	thick	5 (15)	4 (10)	3 (8)	1 (3)
small intes	nodule	0 (0)	0 (0)	1 (3)	0 (0)
Liver	enlarged	0 (0)	0 (0)	1 (3)	0 (0)
	nodule	15 (45)	18 (44)	14 (37)	3 (8)
	cyst	1 (3)	0 (0)	0 (0)	0 (0)
kidney	atrophic	0 (0)	0 (0)	0 (0)	2 (5)
	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	hydronephrasis	0 (0)	3 (7)	1 (3)	0 (0)
urin bladd	urine:marked retention	0 (0)	1 (2)	1 (3)	0 (0)
pituitary	nadule	1 (3)	0 (0)	0 (0)	0 (0)
testis	atrophic	0 (0)	0 (0)	1 (3)	0 (0)
prep/cligl	nadule	0 (0)	1 (2)	0 (0)	0 (0)
еуе	white	1 (3)	1 (2)	1 (3)	0 (0)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 SEX : MALE

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

PAGE: 2

0rgan	Findings	Group Name Control NO. of Animals 33 (%)	333 ppm 41 (%)	1000 ppm 38 (%)	3000 ppm 40 (%)
Harder gl	enlarged	2 (6)	1 (2)	2 (5)	0 (0)
	nodule	2 (6)	2 (5)	1 (3)	0 (0)
one	thick	1 (3)	0 (0)	0 (0)	1 (3)
etroperit	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	mass	0 (0)	1 (2)	0 (0)	0 (0)
horacic ca	pleural fluid	1 (3)	0 (0)	0 (0)	0 (0)
other	tail:nodule	0 (0)	0 (0)	1 (3)	0 (0)
	hindlimb:nodule	0 (0)	1 (2)	0 (0)	0 (0)

(HPT080)

APPENDIX I 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

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

gan	Findings	Group Name Control No. of Animals 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)	6000 ppm 49 (%)
in/app	nodule	0 (0)	0 (0)	1 (2)	1 (2)
	ulcer	1 (2)	0 (0)	0 (0)	0 (0)
bcutis	edema	0 (0)	7 (14)	2 (4)	0 (0)
	mass	1 (2)	2 (4)	0 (0)	0 (0)
ng	red	1 (2)	0 (0)	1 (2)	1 (2)
	edema	0 (0)	1 (2)	1 (2)	0 (0)
	nodule	1 (2)	1 (2)	1 (2)	3 (6)
mph node	enlarged	7 (14)	7 (14)	4 (8)	2 (4)
	nodule	0 (0)	0 (0)	1 (2)	0 (0)
vinus	enlarged	0 (0)	2 (4)	0 (0)	0 (0)
leen	enlarged	8 (16)	9 (18)	5 (10)	0 (0)
	nodule	0 (0)	0 (0)	0 (0)	1 (2)
	deformed	0 (0)	0 (0)	0 (0)	1 (2)
livary gl	nodule	0 (0)	0 (0)	1 (2)	0 (0)
restomach	nodule	0 (0)	2 (4)	1 (2)	1 (2)
stomach	ulcer	1 (2)	0 (0)	1 (2)	0 (0)
	thick	1 (2)	0 (0)	0 (0)	0 (0)
omach	nodule	0 (0)	1 (2)	1 (2)	0 (0)
all intes	nodule	0 (0)	0 (0)	1 (2)	0 (0)
ver	enlarged	2 (4)	3 (6)	1 (2)	1 (2)
	white zone	2 (4)	1 (2)	1 (2)	0 (0)
	red zone	1 (2)	0 (0)	2 (4)	0 (0)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

gan	Findings	Group Name Control NO. of Animals 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)	6000 ppm 49 (%)
ver	nodule	6 (12)	4 (8)	2 (4)	4 (8)
	nodular	0 (0)	0 (0)	1 (2)	0 (0)
	adhesion	0 (0)	1 (2)	0 (0)	0 (0)
idney	enlarged	0 (0)	2 (4)	0 (0)	0 (0)
	atrophic	0 (0)	0 (0)	3 (6)	1 (2)
	nodute	0 (0)	1 (2)	1 (2)	0 (0)
	hydronephrosis	0 (0)	2 (4)	6 (12)	4 (8)
in bladd	urine:marked retention	2 (4)	0 (0)	0 (0)	0 (0)
ituitary	enlarged	3 (6)	2 (4)	2 (4)	0 (0)
	red zane	1 (2)	0 (0)	0 (0)	0 (0)
	nodule	1 (2)	2 (4)	1 (2)	0 (0)
ary	enlarged	2 (4)	2 (4)	4 (8)	4 (8)
	red	0 (0)	1 (2)	0 (0)	0 (0)
	cyst	10 (20)	11 (22)	12 (24)	10 (20)
terus	enlarged	0 (0)	1 (2)	1 (2)	0 (0)
	nodule	8 (16)	7 (14)	3 (6)	8 (16)
	mass	0 (0)	1 (2)	0 (0)	0 (0)
ain	red zane	1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage	0 (0)	2 (4)	0 (0)	0 (0)
oinal cord	red zone	1 (2)	0 (0)	0 (0)	0 (0)
/ e	white	2 (4)	0 (0)	0 (0)	0 (0)
arder gl	enlarged	1 (2)	0 (0)	0 (0)	0 (0)

ANIMAL : MOUSE C-j:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

PAGE: 6

Organ	Findings	Group Name Control NO. of Animals 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)	6000 ppm 49 (%)
larder st	nodule	2 (4)	1 (2)	0 (0)	1 (2)
Zymbal gl	nodule	1 (2)	0 (0)	0 (0)	0 (0)
xane	nodule	1 (2)	0 (0)	0 (0)	0 (0)
nediastinum	mass	4 (8)	3 (6)	4 (8)	0 (0)
peritoneum	nodule	2 (4)	0 (0)	0 (0)	0 (0)
	thick	2 (4)	2 (4)	0 (0)	0 (0)
bdominal c	hemorrhage	1 (2)	0 (0)	2 (4)	0 (0)
	ascites	8 (16)	14 (28)	4 (8)	9 (18)
thoracic ca	pleural fluid	12 (24)	13 (26)	10 (20)	3 (6)
hale bady	anemic	1 (2)	1 (2)	0 (0)	0 (0)

(HPT080)

APPENDIX I 5

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

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

Organ	Findings	Group Name Control NO. of Animals 20 (%)	1500 ppm 21 (%)	3000 ppm 18 (%)	6000 ppm 10 (%)
skin/app	ulcer	1 (5)	0 (0)	0 (0)	0 (0)
subcutis	edema	0 (0)	7 (33)	2 (11)	0 (0)
	mass	0 (0)	2 (10)	0 (0)	0 (0)
lung	red	1 (5)	0 (0)	1 (6)	0 (0)
	edema	0 (0)	1 (5)	1 (6)	0 (0)
	nodule	1 (5)	0 (0)	0 (0)	0 (0)
lymph node	enlarsed	5 (25)	4 (19)	4 (22)	1 (10)
	nodule	0 (0)	0 (0)	1 (6)	0 (0)
spleen	enlarged	3 (15)	5 (24)	2 (11)	0 (0)
	deformed	0 (0)	0 (0)	0 (0)	1 (10)
stomach	nodule	0 (0)	1 (5)	0 (0)	0 (0)
small intes	nodule	0 (0)	0 (0)	1 (6)	0 (0)
liver	enlarged	2 (10)	3 (14)	1 (6)	0 (0)
	white zone	2 (10)	1 (5)	1 (6)	0 (0)
	nodulo	3 (15)	2 (10)	0 (0)	2 (20)
	nodular	0 (0)	0 (0)	1 (6)	0 (0)
kidney	enlarged	0 (0)	2 (10)	0 (0)	0 (0)
	atrophic	0 (0)	0 (0)	1 (6)	0 (0)
	nodule	0 (0)	1 (5)	0 (0)	0 (0)
	hydronephrosis	0 (0)	1 (5)	0 (0)	2 (20)
pituitary	enlarged	1 (5)	1 (5)	1 (6)	0 (0)
ovary	entarged	2 (10)	2 (10)	4 (22)	1 (10)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : FEMALE

Organ	Findings		Control (%)	1500 ppm 21 (%)	3000 ppm 18 (%)	6000 ppm 10 (%)
DUary	cyst	1	(5)	0 (0)	1 (6)	0 (0)
uterus	enlarged	0	(0)	1 (5)	1 (6)	0 (0)
	nodule	4	(20)	2 (10)	2 (11)	2 (20)
	mass	0	(0)	1 (5)	0 (0)	0 (0)
rain	red zone	1	(5)	0 (0)	0 (0)	0 (0)
	hemorrhage	0	(0)	2 (10)	0 (0)	0 (0)
pinal cord	red zone	1	(5)	0 (0)	0 (0)	0 (0)
one	nodule	1	(5)	0 (0)	0 (0)	0 (0)
nediastinum	mass	4	(20)	2 (10)	4 (22)	0 (0)
eritoneum	nodute	1	(5)	0 (0)	0 (0)	0 (0)
	thick	2	(10)	2 (10)	0 (0)	0 (0)
bdominal c	hemorrhage	1	(5)	0 (0)	2 (11)	0 (0)
	ascites	6	(30)	11 (52)	4 (22)	5 (50)
thoracic ca	pleural fluid	10	(50)	9 (43)	10 (56)	2 (20)
hole body	anemic	1	(5)	1 (5)	0 (0)	0 (0)

(HPT080)

APPENDIX I 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm Findings_ Organ_ NO. of Animals 30 (%) 29 (%) 32 (%) 39 (%) skin/app nodule 0 (0) 0 (0) 1 (3) 1 (3) subcutis mass 1 (3) 0 (0) 0 (0) 0 (0) lung red 0 (0) 0 (0) 0 (0) 1 (3) nodule 0 (0) 1 (3) 1 (3) 3 (8) lymph node enlarged 2 (7) 3 (10) 0 (0) 1 (3) thymus enlarged 0 (0) 2 (7) 0 (0) 0 (0) spleen enlarged 5 (17) 4 (14) 3 (9) 0 (0) nodule 0 (0) 0 (0) 0 (0) 1 (3) salivary gl nodule 0 (0) 0 (0) 1 (3) 0 (0) forestomach nodule 0 (0) 2 (7) 1 (3) 1 (3) gl stomach ulcer 1 (3) 0 (0) 1 (3) 0 (0) thick 1 (3) 0 (0) 0 (0) 0 (0) stomach nodule 0 (0) 0 (0) 1 (3) 0 (0) Liver enlarged 0 (0) 0 (0) 0 (0) 1 (3) red zone 1 (3) 0 (0) 2 (6) 0 (0) nodule 3 (10) 2 (7) 2 (6) 2 (5) adhesion 0 (0) 1 (3) 0 (0) 0 (0) kidney atrophic 0 (0) 0 (0) 2 (6) 1 (3) nodule 0 (0) 0 (0) 1 (3) 0 (0) hydronephrosis 0 (0) 1 (3) 6 (19) 2 (5) urin bladd urine:marked retention 2 (7) 0 (0) 0 (0) 0 (0) pituitary enlarged 2 (7) 1 (3) 1 (3) 0 (0)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

: FEMALE SEX

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

PAGE: 4

rgan	Findings	Group Name NO. of Animals	Control 30 (%)	1500 ppm 29 (%)	3000 ppm 32 (%)	6000 ppm 39 (%)
pituitary	red zone		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		1 (3)	2 (7)	1 (3)	0 (0)
uary	enlarged		0 (0)	0 (0)	0 (0)	3 (8)
	red		0 (0)	1 (3)	0 (0)	0 (0)
	cyst		9 (30)	11 (38)	11 (34)	10 (26)
terus	nodule		4 (13)	5 (17)	1 (3)	6 (15)
ve	white		2 (7)	0 (0)	0 (0)	0 (0)
rder gl	enlarged		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		2 (7)	1 (3)	0 (0)	1 (3)
mbal gl	nodute		1 (3)	0 (0)	0 (0)	0 (0)
diastinum	mass		0 (0)	1 (3)	0 (0)	0 (0)
eritoneum	nodule		1 (3)	0 (0)	0 (0)	0 (0)
odominal c	ascites		2 (7)	3 (10)	0 (0)	4 (10)
noracic ca	pleural fluid		2 (7)	4 (14)	0 (0)	1 (3)

(HPT080)

APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: MALE

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE UNIT: g

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

PAGE: 1

oup Name	NO. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	32	46.1± 7.9	0.014± 0.008	0.245± 0.047	0.223± 0.023	0.224± 0.046	0.633± 0.048
333 ppm	41	45.2± 6.4	0.014± 0.004	0.236± 0.040	0.214± 0.019	0.227± 0.089	0.708± 0.377
1000 ppm	38	44.2± 6.4	0.013± 0.003	0.239± 0.043	0.222± 0.031	0.235± 0.057	0.648± 0.078
3000 ppm	40	37.5± 4.6**	0.012± 0.003	0.218± 0.037*	0.190± 0.020**	0.197± 0.032**	0.580± 0.052**

(HCL040)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

PAGE: 2

TOUR Name	NO. of Animals	SPL	EEN	LIVI	ER	BRA	IN
Control	32	0.104±	0.062	2.049±	0.759	0.449±	0.015
333 ppm	41	0.180±	0.345	1.789±	0.499	0.452±	0.013
1000 ppm	38	0.116±	0.095	1.924±	0.890	0.453±	0.016
3000 ppm	40	0.076±	0.075**	1.317±	0.152**	0.448±	0.015

(HCL040)

APPENDIX J 2

ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: FEMALE

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

REPORT TYPE : AT SEX : FEMALE UNIT: g

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

PAGE: 3

roup Name	NO. of Animals	Bady Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	30	32.5± 6.0	0.014± 0.002	0.058± 0.061	0.172± 0.031	0.206± 0.034	0.432± 0.049
1500 ppm	29	29.3± 3.8	0.014± 0.003	0.145± 0.435	0.157± 0.023	0.205± 0.051	0.455± 0.160
3000 ppm	32	25.2± 2.1**	0.014± 0.003	0.094± 0.195	0.148± 0.015**	0.191± 0.018	0.494± 0.259
6000 ppm	39	23.8± 2.2**	0.012± 0.002	0.104± 0.204	0.139± 0.020**	0.196± 0.053	0.447± 0.292**

(HCL040)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1
SEX: FEMALE
UNIT: g

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

Control	30	0.243±	0.299	1.457±	0.298	0.473±	0.022
1500 ppm	29	0.213±	0.270	1.382±	0.303	0.468±	0.010
3000 ppm	32	0.126±	0.114	1.180±	0.339**	0.462±	0.015*
mqq 0000	39	0.093±	0.069**	1.126±	0.365**	0.451±	0.015**

BAIS3

APPENDIX K 1

ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE UNIT: %

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

PAGE: 1

oup Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	32	46.1± 7.9	0.030± 0.014	0.547± 0.150	0.495± 0.094	0.499± 0.128	1.410± 0.244
333 ppm	41	45.2± 6.4	0.031± 0.009	0.532± 0.110	0.482± 0.074	0.518± 0.244	1.602± 0.882
1000 ppm	38	44.2± 6.4	0.029± 0.009	0.543± 0.075	0.515± 0.132	0.547± 0.170	1.488± 0.216
3000 ppm	40	37.5± 4.6**	0.033± 0.009	0.587± 0.112*	0.512± 0.068	0.532± 0.094	1.560± 0.154**

(HCL042)

BAIS 3

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE UNIT: %

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

UNIT: %					PAGE: 2
Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	32	0.241± 0.170	4.754± 2.582	1.004± 0.189	
333 ppm	41	0.412± 0.849	4.033± 1.322	1.023± 0.174	
1000 ppm	38	0.283± 0.271	4.526± 2.540	1.047± 0.162	
3000 ppm	40	0.202± 0.180	3.528± 0,299	1.212± 0.159**	
Significan	t difference;	*: P ≤ 0.05 **:	P ≤ 0.01	Test of Dunnett	
(HCL042)					BAIS3

APPENDIX K 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1
SEX: FEMALE
UNIT: %

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

PAGE: 3

oup Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	30	32.5± 6.0	0.044± 0.011	0.176± 0.153	0.549± 0.149	0.656± 0.173	1.373± 0.303
1500 ppm	29	29.3± 3.8	0.050± 0.011	0.488± 1.421	0.540± 0.082	0.710± 0.209	1.559± 0.510
3000 ppm	32	25.2± 2.1**	0.054± 0.009**	0.359± 0.729	0.590± 0.062**	0.762± 0.085**	1.950± 0.978**
6000 ppm	39	23.8± 2.2**	0.053± 0.009**	0.423± 0.843	0.586± 0.073**	0.830± 0.221**	1.894± 1.287**

(HCL042)

BAIS 3

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

REPORT TYPE : A SEX : FEMALE UNIT: % ORGAN WEIGHT: RELATIVE (SUMMARY) SURVIVAL ANIMALS (105W)

PAGE: 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN		
Control	30	0.772± 1.007	4.583± 1.059	1.511± 0.336		
1500 ppm	29	0.745± 0.965	4.731± 0.940	1.622± 0.212		
3000 ppm	32	0.492± 0.431	4.676± 1.320	1.841± 0.162**		
6000 ppm	39	0.381± 0.239	4.671± 1.026	1.905± 0.158**		
Significant	: difference ;	*: P ≤ 0.05 **:	P ≤ 0.01	Test of Dunnett	•	
(HCL042)						RAI

BAIS3

APPENDIX L 1

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

0rgan		Froup Name Control to. of Animals on Study 50 Frade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
Integumentar	y system/appandage]				
kin/app	hyperplasia:epidermis	(50) 0 1 0 0 (0) (2) (0) (0		<50> 0 0 0 0 (0) (0) (0) (0)	\(\frac{\\$50\>}{0} \) \(0 \) \(0 \) \(0 \) \(0 \) \(0 \)
ubcutis	xanthogranuloma	(50) 0 1 0 0 (0) (2) (0) (0		<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
Respiratory	system]				
asal cavit	goblet cell hyperplasia	<50> 2 0 0 0 (4) (0) (0) (0		<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	easinophilic change:alfactory epitheli	um 22 1 0 0 (44)(2)(0)(0		35 0 0 0 * (70) (0) (0) (0)	35 0 0 0 ** (70) (0) (0) (0)
	eosinophilic change:respiratory epithe	15 0 0 0 0 (30) (0) (0) (0)		13 0 0 0 (26) (0) (0) (0)	9 0 0 0 0 (18) (0) (0) (0)
	inflammation:foreign body	0 0 0 0 0 (0) (0) (0		1 0 0 0 (2) (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)
rade a > b c) ignificant d	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤				

SEX

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 : MALE HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

Organ	Group No. of Crade Findings	Animals on Study 50 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Respiratory	system]				
nasal cavit	respiratory metaplasia:olfactory epithelium	7 0 0 0 (14) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)	(50) 18 0 0 0 * (36) (0) (0) (0)	\(\lambda 50 \rangle \) 17
	respiratory metaplasia:gland	22 0 0 0 (44) (0) (0) (0)	18 0 0 0 (36) (0) (0) (0)	32 0 0 0 (64) (0) (0) (0)	23 0 0 0 (46) (0) (0) (0)
	squamous cell metaplasia:respiratory epithelin	1 0 0 0 (2)(0)(0)(0)	1 0 0 0 0 (2) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	xanthogranuloma	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	(0) (0) (0) (0)
ung	congestion	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> · 0 0 0 0 (0) (0) (0) (0)
	cdema	2 0 0 0 0 (4) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	inflammation	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0)
	lymphocytic infiltration	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)

(a) a: Number of animals examined at the site

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

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

(HPT150)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1
SEX : MALE

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	Control 50 2 3 4 (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Respiratory	system]					
lung	accumulation of foamy cells	1 (2)	<50> 0 0 0 (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (· 0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
	bronchiptar-alveptar cell hyperplasia		0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
[Hematopoieti	c system]					
bone marrrow	atrophy	0 (0)	(50) 0 0 0 (0) (0) (0)	<pre></pre>	<50> 1 1 0 0 (2) (2) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	angiectasis	3 (6)	1 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	granulation	1 (2)	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	megakaryocyte:increased	(2)	0 0 0 0 (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	granulopolesis:increased	(2)	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
Grade <a>> b <a>c)	1: Slight 2: Moderate a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100					

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

		Group Name Control No. of Animals on Study 50 Grade 1 2 3 4	333 ppm 50 1 2 3 4	1000 ppm 50 1 2 3 4	3000 ppm 50 1 2 3 4
gan	Findings	Grade 1 2 3 4 (%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%)	(%) (%) (%) (%)
ematopoie	rtic system]				
nymus	karyorrhexis	(50) 1 0 0 0 (2) (0) (0) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
spleen	atrophy	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)
	congestion	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 1 0 0 (2) (2) (0) (0)	0 0 0 0 0 (0) (0)
	deposit of melanin	4 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)
	fibrosis	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)
	extramedullary hematopoiesis	7 7 0 0 (14) (14) (0) (0)	10 1 1 0 (20) (2) (2) (0)	10 5 3 0 (20) (10) (6) (0)	2 4 0 0 (4) (8) (0) (0)
	megakaryocyte:increased	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	hyperplasia:vascular	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)

a : Number of animals examined at the site (a)

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

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

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

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

PAGE: 5

0rgan	Group Nam No. of Ar Grade Findings	e Control imals on Study 50	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Hematopoi	otic system]				
spleen	follicular hyperplasia	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
[Circulato	ry system]				
heart	thrombus	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	mineralization	1 1 0 0 (2) (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)
	arteritis	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0)	0 0 1 0 (0) (2) (0)
	hyperplasia:vascular	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
[Digestive	system]				
tooth	dysplasia	<50> 20 3 0 0 (40) (6) (0) (0)	23 2 0 0 (46) (4) (0) (0)	(50) 18 0 0 0 (36) (0) (0) (0)	\(\lambda 50 \rangle \) 18
Grade <a>> b (c) Significan	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 t difference: *: P ≤ 0.05 **: P ≤ 0.01	4 : Severe Test of Chi Square			***************************************

(HPT150)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

PAGE: 6

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Digestive sy	stem]				
tongue	basal cell hyperplasia	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
salivary gl	deseneration	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)
	lymphocytic infiltration	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	granulation	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
stomach	mineralization	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 3 0 0 0 (6) (0) (0) (0)
	inflammatory infiltration	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	basal cell hyperplasia	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)

b: Number of animals with lesion

b (c) c:b/a * 100

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

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

PAGE: 7

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Digestive sys	stem]				
stomach	erosion:forestomach	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
	ulcer:forestomach	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia:forestomach	0 1 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	0 1 0 0 (0) (0) (0)
	erosion:glandular stomach	9 0 0 0 (18) (0) (0) (0)	8 0 0 0 0 (16) (0) (0)	9 0 0 0 0 (18) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)
	hyperplasia:glandular stomach	3 0 0 0 (6) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	dilated glands	2 0 0 0 0 (4) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
large intes	mineralization	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<pre></pre>
liver	angiectasis	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0 0

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

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

ALL ANIMALS (0-105W)

SEX : MALE PAGE: 8 Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 50 50 50 50 Grade 3 3 2 3 2 3 Organ_ Findings (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) [Digestive system] Liver <50> <50> <50> necrosis: focal 2 0 0 0 0 3 1 0 0 0 0 0 0 (2)(4)(0)(0) (2)(0)(0)(0) (6)(2)(0)(0) (0)(0)(0)(0) fatty change (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) cyst 2 0 0 0 0 0 (4)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) inflammatory infiltration 0 (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0)

extramedullary hematopoiesis	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 (0) (0)		2 0 0 0 0 (4) (0) (0) (0)
clear cell focus	3 0 0 6) (0) (0)		1 1 0 0 (2) (2) (0) (0)	3 0 0 0 0 (6) (6) (0) (0) (0)

0

0

34

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

(68) (0) (0) (0)

0 0

0

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

(66) (0) (0) (0)

0 0 0 0

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

(54) (0) (0) (0)

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

lymphocytic infiltration

granulation

(HPT150)

BAIS3

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

(78) (0) (0) (0)

⁴ a : Number of animals examined at the site
b : Number of animals with lesion

b b: Number of animals (c) c:b/a * 100

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

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findines	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Digestive sy	stem]				
liver	acidophilic cell focus	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	basophilic cell focus	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	vacuolated cell focus	0 0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	mixed cell focus	0 1 0 0 (0) (0)	0 0 0 0	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 0 (0) (0)
	bile ductular proliferation	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)
	biliary cyst	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 0 (0) (0)
gall bladd	hyperplasia	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
pancreas	atrophy	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 1 0 0 0 (2) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 difference: *: P ≤ 0.05 **: P				

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 : MALE SEX

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

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Urinary sy	stem]				
kidney	infarct	(50) 1 · 0 0 0 (2) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)
	hvaline droplet	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 0 0 (2) (2) (0) (0)	3 3 0 0 (6) (6) (0) (0)	0 2 0 0 (0) (4) (0) (0)
	basophilic change	13 0 0 0 (26) (0) (0) (0)	37 0 0 0 *** (74) (0) (0) (0)	33 0 0 0 *** (66) (0) (0) (0)	32 0 0 0 ** (64) (0) (0) (0)
	hyaline cast	0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0	0 0 0 0 0 (0) (0)
	lymphocytic infiltration	5 0 0 0 (10) (0) (0) (0)	10 0 0 0 0 (20) (0) (0)	12 0 0 0 (24) (0) (0) (0)	5 1 0 0 (10) (2) (0) (0)
	inflammatory polyp	0 0 0 0 0 (0)	0 1 1 0 (0) (2) (2) (0)	0 0 0 0 0 0 (0) (0)	0 0 2 0 (0) (4) (0)
	hydronephrasis	0 1 2 0 (0) (2) (4) (0)	0 1 2 0 (0) (2) (4) (0)	0 1 2 0 (0) (2) (4) (0)	0 2 3 0 (0) (4) (6) (0)

Grade

1: Slight 2 : Moderate 3 : Marked

(HPT150)

BAIS3

^{4 :} Severe

⁽a) a: Number of animals examined at the site

b b: Number of animals with lesion

⁽c) c:b/a * 100

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

STUDY NO. : 0268 ANIMAL

: MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

PAGE: 11

Organ	Findings_	Group Name No. of Animals on Study Grade 1 (%)	Control 50 2 3 4 (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Urinary syst	en]					
kidney	papillary necrosis	2 (4)	<50> 0 0 0 (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0). (0)	<50> 2 0 0 0 (4) (0) (0) (0)	(50) 4 0 0 0 (8) (0) (0) (0)
	mineralization:cortico-medullary jum	nction 0 (0)	0 0 0	5 0 0 0 (10) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0)
	mineralization:papilla	2 (4)	0 0 0 0 (0) (0)	5 0 0 0 (10) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0)
	mineralization:cortex	27 (54)	0 0 0 0 (0) (0)	36 0 0 0 (72) (0) (0) (0)	26 0 0 0 (52) (0) (0) (0)	17 0 0 0 (34) (0) (0) (0)
	glomerulosclerosis	0 (0)	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	desquamation:pelvis	0 (0)	0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	8 0 0 0 *** (16) (0) (0) (0)
urin bladd	inflammation	0 (0)	<50> 0 0 0 (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
(Endocrine sy	stem]					
pituitary	hemorrhage	(0)	<50> 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(50) 1 0 0 0 (2) (0) (0) (0)

Grade (a) b

2 : Moderate 3 : Marked

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

(c) c:b/a*100

1 : Slight

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

4 : Severe

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

: MALE SEX PAGE: 12

Organ		De Name Control of Animals on Study 50 de 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Endocrine sy	stem]				
pituitary	cyst	\(\frac{50}{0} \) \[\begin{array}{cccccccccccccccccccccccccccccccccccc	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<49> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	hyperplasia	1 0 0 0 (2) (0) (0) (0)	3 0 0 0 0 (6) (6) (70) (70)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	Rathke pouch	3 0 0 0 0 (6) (6) (7)	3 0 0 0 0 (6) (6) (0) (0)	1 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
thyroid	cyst	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	granulation	1 0 0 0 0 (2) (3) (4) (5)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
parathyroid	hyperplasia	21> 1 0 0 0 (5) (0) (0) (0)	<pre></pre>	<26> 0 0 0 0 (0) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
panc islet	hyperplasia	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
Grade (a) b (c) Significant d	1: Slight 2: Moderate 3: Marker of animals examined at the site b: Number of animals with lesion c: b / a * 100 lifference; *: $P \le 0.05$ **: $P \le 0$.				

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Endocrine	system]				
adrenal	cyst	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	extramedullary hematopoiesis	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
	spindle-cell hyperplasia	12 0 0 0 (24) (0) (0) (0)	16 0 0 0 (32) (0) (0) (0)	16 0 0 0 (32) (0) (0) (0)	12 0 0 0 (24) (0) (0) (0)
	hyperplasia:cortical cell	2 0 0 0 0 (4) (6) (6) (7)	2 0 0 0 0 (4) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)	6 0 0 0 (12) (0) (0) (0)
	hyperplasia:medulla	1 0 0 0 0 (2) (2) (3) (4) (5)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	accesory cortical nodule	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	focal fatty change:cortex	8 0 0 0 (16) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	(0) (0) (0) (0)	0 0 0 0 ***
[Reproduct	ive system]				
testis	aplasia	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 0 0 0 0 0 0 0
Grade <a>> b (c) Significan	1: Slight 2: Moderate a: Number of animals examined at 1 b: Number of animals with lesion c: b/a * 100 t difference; *: P ≤ 0.05 **:	3: Marked 4: Severe the site P ≤ 0.01 Test of Chi Square			

: MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

ANIMAL

Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 50 50 50 50 Grade 3 3 2 3 0rgan_ Findings_ (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) [Reproductive system] testis <50> <50> <50> mineralization 29 0 0 0 43 0 0 0 ** 37 0 0 0 0 0 (58) (0) (0) (0) (86) (0) (0) (0) (74) (0) (0) (0) (44) (0) (0) (0) interstitial cell hyperplasia 0 0 (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) hyperplasia:rete testis 1 0 (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) epididymis <50> <50> <50> <50> 0 dilatation 0 1 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) cyst 0 0 (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) mineralization 0 0 1 0 0 0 0 (0)(0)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) inflammatory infiltration 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) spermatogenic granuloma 12 5 0 0 0 0 (18) (0) (0) (0) (24) (0) (0) (0) (10) (0) (0) (0) (6)(0)(0)(0)

Grade

1: Slight

2 : Moderate

3 : Marked

4 : Severe

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

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

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

(HPT150)

BAIS3

268

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE PAGE : 15

Organ	No	coup Name Control . of Animals on Study 50 ade 1 2 3 4 (%) (%) (%) (%) (%)	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4
UI 9dil	riidiigs	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)
[Nervous syst	tem]				
brain	hemorrhage	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	mineralization	22 0 0 0 (44) (0) (0) (0)	21 1 0 0 (42) (2) (0) (0)	22 0 0 0 (44) (0) (0) (0)	25 0 0 0 (50) (0) (0) (0)
[Special sens	se organs/appendage]				
еуе	cataract	<50> 0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	keratitis	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)
	degeneration:cornea	4 0 0 0 0 (8) (0) (0) (0)	0 0 0 0 0 (0)	1 0 0 0 0 (2) (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	mineralization:cornea	5 0 0 0 (10) (0) (0) (0)	2 0 0 0 0 (4) (0) (0)	9 0 0 0 0 (18) (0) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Harder 9t	granulation	0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)
Grade <a>> b (c) Significant	a: Number of animals examined at the siteb: Number of animals with lesionc: b / a * 100				

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

HIS

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

REPORT TYPE : A1
SEX : MALE

0rgan	Group Name No. of Anim Grade	Control als on Study 50	333 ppm 50 1 2 3 4 (%) (%) (%) (%)	1000 ppm 50 1 2 3 4 (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
[Special sen	ise organs/appendage]				
Harder gl	hyperplasia	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
[Musculoskel	etal system]				
cone	fracture	\(\langle 50 \rangle \) 1 0 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	osteosis	0 1 0 0 (0) (2) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	asteasclerasis	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
[Body caviti	es]				·
peritaneum	inflammation	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) (0)(0)(0)(0)
Grade (a > b (c) Significant	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0.01$ Te	4 : Severe st of Chi Square			

APPENDIX L 2

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

Group Name 333 ppm Control 1000 ppm 3000 ppm No. of Animals on Study 17 9 12 10 Grade 2 3 (%) Findings (%) (%) (%) (%) (%) (%) [Integumentary system/appandage] subcutis <17> < 9> <10> xanthogranuloma 0 0 0 1 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(11)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) [Respiratory system] nasal cavit <17> < 9> <12> goblet cell hyperplasia 0 0 0 0 0 0 (6)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) eosinophilic change:plfactory epithelium 0 0 0 0 0 (29) (0) (0) (0) (67) (0) (0) (0) (58) (0) (0) (0) (50) (0) (0) (0) eosinophilic change:respiratory epithelium 4 0 0 0 0 0 0 -3 0 0 0 (24) (0) (0) (0) (11) (0) (0) (0) (25) (0) (0) (0) (30) (0) (0) (0) respiratory metaplasia:olfactory epithelium 0 0 0 1 0 (0)(0)(0)(0) (10) (0) (0) (0) (11) (0) (0) (0) (25) (0) (0) (0) respiratory metaplasia:gland 0 (35) (0) (0) (0) (0)(0)(0)(0) (50) (0) (0) (0) (40) (0) (0) (0) squamous cell metaplasia:respiratory epithelium 0 0 0 0 1 0 0 0 1 0 1 0 0 0 (0)(0)(0)(0) (11) (0) (0) (0) (8)(0)(0)(0) (10) (0) (0) (0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe

(HPT150)

(a)

b

(c)

a: Number of animals examined at the site

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

b: Number of animals with lesion

c:b/a*100

BAIS3

: MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

ANIMAL

Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 17 9 12 10 Grade 3 3 3 2 3 Findings (%) (%) (%) (%) (%) (%) (%) (%) (%) [Respiratory system] nasal cavit < 9> <10> xanthogranuloma 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(8)(0)(0) (0)(0)(0)(0) lung <17> < 9> <12> <10> congestion 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) edema 2 0 0 0 0 0 0 0 1 0 0 0 (12) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (10) (0) (0) (0) inflammation 0 (0)(6)(0)(0) (0)(0)(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) (0)(0)(0)(0) (10) (0) (0) (0) bronchiolar-alveolar cell hyperplasia 0 0 0 0 1 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (8)(0)(0)(0) (0)(0)(0)(0) [Hematopoietic system] bone marrow <17> < 9> <12> <10> atrophy 0 0 0 0 0 0 0 0 0 1 0 0 0 0 (0)(0)(0)(0) (0)(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 b: Number of animals with lesion (c) c:b/a*100Significant difference; $*:P \le 0.05$ $**:P \le 0.01$ Test of Chi Square

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

Organ	Findings	Group Name Control No. of Animals on Study 17 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 9 1 2 3 4 (%) (%) (%) (%)	1000 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Hematopoietio	c system]				
bone marrow	granulation	<17> 1 0 0 0 (6) (0) (0) (0		(12> 0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (10) (0) (0) (0)
	granulopoiesis:increased	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	1 0 0 0 0 (10) (0) (0)
thymus	karyorrhexis	<17> 1 0 0 0 (6) (0) (0) (0)		0 0 0 0 (0) (0) (0) (0)	<pre></pre>
spleen	atrophy	<17> 1 0 0 0 (6) (0) (0) (0		1 0 0 0 (8) (0) (0) (0)	2 0 0 0 (20) (0) (0) (0)
	congestion	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 0 0 (8) (8) (0) (0)	0 0 0 0 0 0 (0) (0)
	deposit of melanin	1 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 (8) (0) (0) (0)	0 0 0 0 0 0 (0) (0)
	fibrosis	1 0 0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)

b

(a)

c:b/a*100

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

a : Number of animals examined at the site

b: Number of animals with lesion

(HPT150)

BAIS3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

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

PAGE: 4 Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 17 9 12 10 3 3 3 2 3 Organ. Findings_ (%) (%) (%) (%) (%) (%) (%) (%) [Hematopoietic system] spleen < 9> <12> <10> extramedullary hematopoiesis 4 0 0 1 0 1 0 0 1 0 1 3 0 0 (0)(24)(0)(0) (11) (0) (11) (0) (0)(0)(8)(0) (10) (30) (0) (0) megakaryocyte:increased 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (10) (0) (0) (0) hyperplasia:vascular 0 1 0 0 0 0 0 0 (0)(0)(0)(0) (0)(6)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) [Circulatory system] heart <17> < 9> <12> <10> thrombus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 (12) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) mineralization 1 0 0 0 0 (0)(0)(0)(0) (11) (0) (0) (0) (17) (0) (0) (0) (10) (0) (0) (0) arteritis 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(10)(0) [Digestive system] tooth <17> <10> dysplasia 3 1 0 0 0 0 0 0 0 1 0 0 0 (18) (6) (0) (0) (33) (0) (0) (0) (8)(0)(0)(0) (10) (0) (0) (0)

Grade < a > 2 : Moderate

3 : Marked

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

(c) c:b/a*100

1 : Slight

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

^{4 :} Severe

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

DEAD AND MORIBUND ANIMALS (0-105W)

Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 17 9 12 10 Grade 2 3 3 3 2 3 Findings_ (%) (%) (%) (%) (%) (%) (%) (%) (%) [Digestive system] tongue < 9> <12> <10> basal cell hyperplasia 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) salivary gl <17> < 9> <12> <10> 0 0 0 0 0 degeneration 0 0 0 0 1 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(10)(0)(0) stomach <17> < 9> <10> ulcer:forestomach 0 0 0 1 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (11) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) erosion:glandular stomach 0 0 0 0 (6)(0)(0)(0) (22) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) <17> liver 〈 9> necrosis:focal 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 (6)(6)(0)(0) (11) (0) (0) (0) (0)(8)(0)(0) (0)(0)(0)(0) fatty change 0 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (8)(0)(0)(0) (0)(0)(0)(0) granulation 1 0 0 0 0 0 0 0 0 0 1 0 0 0 (6)(0)(0)(0) (0)(0)(0)(0) (8) (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 b: Number of animals with lesion (c) c:b/a * 100

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

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1
SEX : MALE

PAGE: 6

Organ	No	roup Name	333 ppm 9 1 2 3 4 (%) (%) (%) (%)	1000 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Digestive sy	vstem]				
liver	basophilic cell focus	<17> 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	<12> ' 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
	biliary cyst	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
gall bladd	hyperplasia	0 0 0 0 (0) (0) (0) (0)	<pre></pre>	1 0 0 0 (8) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
(Urinary syst	tem]				
kidney	hyaline droplet	1 1 0 0 (6) (6) (0) (0)	0 1 0 0 (0) (11) (0) (0)	(12> 1 2 0 0 (8) (17) (0) (0)	<pre></pre>
	basophilic change	1 0 0 0 0 (6) (6) (70)	2 0 0 0 0 (22) (0) (0) (0)	5 0 0 0 (42) (0) (0) (0)	2 0 0 0 0 (20) (0) (0)
	lymphocytic infiltration	1 0 0 0 0 (6) (6) (6)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade <a> b (c) Significant o	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0.05$				

(HPT150)

BAIS3

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

Organ		Group Name No. of Animals on Study Grade 1 (%)	Control 17 2 3 (%) (%) (333 ppm 9 4 %) 1 2 3 (%) (%) (%)	1000 ppm 12 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
Urinary syst	em]					
idney	inflammatory polyp	. 0	<17> 0 0 (0) (0) ((9> 0 0 0 0 0) (0) (0) (0) (0 0 0 0 0 0 0) (0) (0) (0) (0)	0 0 2 0 (0) (0) (20) (0)
	hydranephrasis	0 (0)	1 2 (6) (12) (0 0 1 1 0 1 1 (0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 (0) (20) (0)
	papillary necrosis	0 (0)	0 0 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)
	mineralization:cortico-medullary junct	tion 0 (0)	0 0 (0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)
	mineralization:papilla	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 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)
	mineralization:cortex	3 (18)	0 0 (0) (0 4 0 0 0) (44) (0) (0) (0 7 0 0 0 0) (58) (0) (0) (0)	2 0 0 0 0 (20) (0) (0) (0)
	glomerulosclerosis	0 (0)	0 0 (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)
rin bladd	inflammation	0 (0)	<17> 0 0 (0) (0) (0 1 0 0 0) (11) (0) (0) (0 0 0 0 0 0) (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)

(HPT150)

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

BAIS3

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 : MALE SEX

PAGE: 8

Organ	Findings	Group Name Control No. of Animals on Study 17 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 9 1 2 3 4 (%) (%) (%) (%)	1000 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
(Endocrine sys	stem]				
pituitary	hemorrhage	<17> 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 (0) (0) (0) (0)	(11) 0 0 0 0 (0) (0) (0) (0)	(10) 1 0 0 0 (10) (0) (0) (0)
	cyst	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
thyroid	granulation	1 0 0 0 (6) (0) (0) (0)	(8) 0	(12) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
parathyroid	hyperplasia	<pre></pre>	< 7> 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	< 6> 0 0 0 0 0 0 0 0 0 0 0
panc islet	hyperplasia	0 0 0 0 (0) (0) (0) (0)	(9) 1 0 0 0 (11) (0) (0) (0)	<12> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
adrenal	extramedullary hematopoiesis	0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<12> 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
	spindle-cell hyperplasia	1 0 0 0 (6) (0) (0) (0)	2 0 0 0 (22) (0) (0) (0)	2 0 0 0 (17) (0) (0) (0)	1 0 0 0 (10) (0) (0) (0)

⟨a⟩ a : Number of animals examined at the site

b: Number of animals with lesion b

(c) c:b/a*100

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

(HPT150)

BAIS3

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 17 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 9 1 2 3 4 (%) (%) (%) (%)	1000 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
(Endocrine sy	stem]				
adrena l	accesory cortical nodule	0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<12> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
[Reproductive	system]				
testis	mineralization	<17> 6 0 0 0 (35) (0) (0) (0)	<pre></pre>	8 0 0 0 (67) (0) (0) (0)	0 0 0 0 0 (0) (0) (0) (0)
	hyperplasia:rete testis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (8) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
epididymis	inflammatory infiltration	<17> 0 0 0 0 0 (0) (0) (0) (0)	(9) 1 0 0 0 (11) (0) (0) (0)	<12> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	spermatogenic granuloma	3 0 0 0 (18) (0) (0) (0)	2 0 0 0 0 (22) (0) (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (20) (0) (0) (0)
[Nervous syst	rem]				
brain	mineralization	6 0 0 0 (35) (0) (0) (0)	4 0 0 0 (44) (0) (0) (0)	3 0 0 0 (25) (0) (0) (0)	3 0 0 0 (30) (0) (0) (0)
Grade <a>> b <a>Coolerates	1: Slight 2: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:				

SEX

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 : MALE

PAGE: 10

Organ	I	Group Name Control vio. of Animals on Study 17 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 9 1 2 3 4 (%) (%) (%)	1000 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Special sens	se organs/appendage}				
өуө	degeneration:comea	1 0 0 0 (6) (0) (0) (0)	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	(10) 0 0 0 0 (0) (0) (0) (0)
	mineralization:cornea	4 0 0 0 0 (24) (0) (0) (0)	0 0 0 0 0	2 0 0 0 (17) (0) (0) (0)	0 0 0 0 0 0 (0) (0)
Harder gl	granulation	0 0 0 0 (0) (0) (0) (0)	(0) (0) (0) (0) (0) (0) (0) (0)	<12> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(10) 0 1 0 0 (0) (10) (0) (0)
[Musculoskele	etal system]				
bane	fracture	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	asteasclerasis	1 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade <a>> b (c) Significant (1: Slight 2: Moderate 3 a: Number of animals examined at the sib: Number of animals with lesion $c:b/a*100$ difference; $*:P \le 0.05$ **: $P \le 0.05$				

(HPT150)

BAIS3

APPENDIX L 3

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

REPORT TYPE : A1 SEX : MALE HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W)

PAGE: 1

0rgan	No	roup Name Control o. of Animals on Study 33 rade 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Integumentar	y system/appandage]				
skin/app	hyperplasia:epidermis	33> 0 1 0 0 (0) (3) (0) (0)	1 0 0 0 (2) (0) (0) (0)	<38> 0 0 0 0 0 0 0 0 0 0 0	<40> 0 0 0 0 (0) (0) (0) (0)
subcutis	xanthogranuloma	<33> 0 1 0 0 (0) (3) (0) (0)	<41> 0 0 0 0 0 0 0 0 0 0 0 0	<38> 0 0 0 0 0 0 0 0 0 0 0	<40> 0 0 0 0 (0) (0) (0) (0)
[Respiratory	system]				
asal cavit	goblet celi hyperplasia	333> 1 0 0 0 (3) (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)
	eosinophilic change:olfactory epithelium	17 1 0 0 (52) (3) (0) (0)	22 0 0 0 (54) (0) (0) (0)	28 0 0 0 (74) (0) (0) (0)	30 0 0 0 (75) (0) (0) (0)
	eosinophilic change:respiratory epithel	11 0 0 0 (33) (0) (0) (0)	20 0 0 0 (49) (0) (0) (0)	10 0 0 0 (26) (0) (0) (0)	6 0 0 0 (15) (0) (0) (0)
	inflammation:foreign body	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
Grade (a > b (c) Significant d	a: Number of animals examined at the siteb: Number of animals with lesionc: b / a * 100				

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Cri:BDF1

REPORT TYPE : A1 : MALE

SEX

SACRIFICED ANIMALS (105W)

Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 33 41 38 40 Grade 3 Findings_ (%) (%) Organ_ (%) (%) (%) (%) [Respiratory system] nasal cavit ⟨33⟩ <41> <40> respiratory metaplasia:olfactory epithelium 0 0 0 0 15 0 0 16 0 0 0 (21) (0) (0) (0) (10) (0) (0) (0) (39) (0) (0) (0) (40) (0) (0) (0) respiratory metaplasia:gland 18 26 (48) (0) (0) (0) (44) (0) (0) (0) (68) (0) (0) (0) (48) (0) (0) (0) squamous cell metaplasia:respiratory epithelium (3)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) lung <41> <38> <40> lymphocytic infiltration 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) accumulation of foamy cells 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) bronchiolar-alveolar cell hyperplasia 0 1 0 0 0 (0)(0)(0)(0) (2)(0)(0)(0) (3)(0)(0)(0) (3)(0)(0)(0) [Hematopoietic system]

⟨33⟩

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

0 0 0

<41>

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

0

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

atrophy

(HPT150)

bone marrow

BAIS3

0 0 0 0

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

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

⁽a) a: Number of animals examined at the site

b: Number of animals with lesion b

⁽c) c:b/a*100

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

: MOUSE Crj:BDF1

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

REPORT TYPE : A1

ANIMAL

SEX : MALE

Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 33 41 38 40 Grade 3 3 3 3 Organ_ Findings_ (%) (%) (%) (%) (%) (%) (%) (%) (%) [Hematopoietic system] bone marrow ⟨33⟩ (41) <40> angiectasis 1 0 0 0 0 0 0 0 0 0 0 0 (9)(3)(0)(0) (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) granulation 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) megakaryocyte:increased 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) granulopoiesis: increased 0 0 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) spleen <33> <41> ⟨38⟩ <40> deposit of melanin 0 0 0 0 0 0 0 (9)(0)(0)(0) (2)(0)(0)(0) (5)(0)(0)(0) (8)(0)(0)(0) extramedullary hematopoiesis 0 0 (21) (9) (0) (0) (22) (2) (0) (0) (26) (13) (5) (0) (3)(3)(0)(0) follicular hyperplasia 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) [Circulatory system] heart <33> <41> <40> mineralization 0 0 0 0 0 0 0 0 0 0 (3)(3)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe

(a) a: Number of animals examined at the site

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

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

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1
SEX : MALE

0rgan	N	roup Name o. of Animals on Study rade 1 (%)	Contro 33 2 3 (%) (%)	4	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
(Circulatory	system]						
heart	hyperplasia:uascular	(3) (<33> 0 0 0) (0)	0 (0)	(41) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<40> 0 0 0 0 0 0 0 0 0 0 0
[Digestive sy	stem]						
tooth	dysplasia	17 (52) (<33> 2 0 6) (0)	0 (0)	20 2 0 0 (49) (5) (0) (0)	.<38> 17 0 0 0 (45) (0) (0) (0)	<pre></pre>
salivary gl	lymphocytic infiltration	1 (3) (<33> 0 0 0) (0)	0 (0)	<41> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<38> 0 0 0 0 0 (0) (0) (0) (0)	<40> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	granulation	(3) (0 0	0 (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 0 (0) (0)
stomach	mineralization	(0) (<33> 0 0 0) (0)	0 (0)	<41> 1 0 0 0 (2) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (8) (0) (0) (0)
	inflammatory infiltration	2 (6) (0 0	0 (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
<a>> b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the sit b: Number of animals with lesion c: b/a * 100 ifference; $*: P \le 0.05$ **: $P \le 0.05$					7777	

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

REPORT TYPE : A1
SEX : MALE PAGE: 5

0rgan		up Name Control of Animals on Study 33 de <u>1 2 3 4</u> (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Digestive sy	stem]				
stomach	basal cell hyperplasia	<pre></pre>	(41) 1 0 0 0 (2) (0) (0) (0)	(0) (0) (0) (0)	<40> 0 0 0 0 0 0 0 0 0 0 0
	erosion:forestomach	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 (3) (0) (0)
	ulcer:forestomach	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	hyperplasia:forestomach	0 1 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	0 1 0 0 (0) (0)
	erosion:glandular stomach	8 0 0 0 (24) (0) (0) (0)	6 0 0 0 0 (15) (0) (0)	9 0 0 0 0 (24) (0) (0) (0)	5 0 0 0 (13) (0) (0) (0)
	hyperplasia:glandular stomach	3 0 0 0 0 (9) (0) (0)	2 0 0 0 0 0 5 (0) (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 0 (3) (0) (0)
	dilated glands	2 0 0 0 0 (6) (6) (0) (0)	2 0 0 0 0 (5) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
large intes	mineralization	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	38> 1 0 0 0 (3) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: Market a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 lifference; $*: P \le 0.05$ **: $P \le 0.05$				

ANIMAL : MOUSE C-j:BDF1 REPORT TYPE : A1 SEX : MALE

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

PAGE: 6

Organ	Findings	Group Name Control No. of Animals on Study 33 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Digestive	system]				
liver	angiectasis	<33> 0 0 0 0 (0) (0) (0) (0)	(41) 1 0 0 0 (2) (0) (0) (0)	38> 0 1 0 0 (0) (3) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	necrosis:focal	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)	3 0 0 0 0 (8) (0) (0) (0)	0 0 0 0 0 (0) (0)
	cyst	2 0 0 0 0 (6) (6) (7)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0	0 0 0 0 0 (0) (0)
	lymphocytic infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)
	granulation	26 0 0 0 (79) (0) (0) (0)	34 0 0 0 (83) (0) (0) (0)	32 0 0 0 (84) (0) (0) (0)	38 0 0 0 0 (95) (0) (0) (0)
	extramedullary hematopoiesis	2 0 0 0 0 (6) (6) (7) (7)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	2 0 0 0 0 (5) (6) (6)
	clear cell focus	3 3 0 0 (9) (9) (0) (0)	2 4 0 0 (0) (5) (10) (0) (0)	1 1 0 0 (3) (3) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)

Grade

1: Slight 2 : Moderate

3 : Marked

4 : Severe

(a)

a: Number of animals examined at the site

b

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)

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

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

REPORT TYPE : A1 : MALE SEX

0rgan	Findings	Group Name Control No. of Animals on Study 33 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Digestive s	system]				
liver	acidophilic cell focus	<33> 0 0 0 0 (0) (0) (0) (0)	(41) 1 0 0 0 (2) (0) (0) (0)	38> 1 0 0 0 (3) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	basophilic cell focus		0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (5) (0) (0) (0)
	vacuolated cell focus	0 0 0 0 0 (0) (0)	2 0 0 0 0 (5) (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0)
	mixed cell focus	0 1 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
	bile ductular proliferation	(0) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)
	biliary cyst	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)
pancreas	atrophy	<333> 0 0 0 0 (0) (0) (0) (0)	<41> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<38> 0 0 0 0 (0) (0) (0) (0)	(40> 1 0 0 0 (3) (0) (0) (0)
[Urinary sys	etem]				
kidney	infarct	333> 1 0 0 0 (3) (0) (0) (0)	(41) 1 0 0 0 (2) (0) (0) (0)	<38> 0 0 0 0 (0) (0) (0) (0)	0 1 0 0 (0) (3) (0) (0)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

SEX : MALE PAGE: 8

	Findings	No. of Animals on Study 33 Grade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
(Urinary syste	[ne				
kidney	hvaline droplet	(33> 0 0 0 0 (0) (0) (0) (0)	(41) 1 0 0 0 (2) (0) (0) (0)	<pre></pre>	<40> 0 0 0 0 (0) (0) (0) (0)
	basophilic change	12 0 0 0 (36) (0) (0) (0)	35 0 0 0 *** (85) (0) (0) (0)	28	30 0 0 0 *** (75) (0) (0) (0)
	hyaline cast	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0) (0)
	lymphocytic infiltration	4 0 0 0 (12) (0) (0) (0)	10 0 0 0 (24) (0) (0) (0)	12 0 0 0 (32) (0) (0) (0)	5 1 0 0 (13) (3) (0) (0)
	inflammatory polyp	0 0 0 0 0 (0) (0)	0 1 1 0 (0) (2) (2) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hydronephrosis	0 0 0 0 0 (0) (0)	0 1 1 0 (0) (2) (2) (0)	0 1 0 0 (0) (3) (0) (0)	0 2 1 0 (0) (5) (3) (0)
	papillary necrosis	2 0 0 0 0 (6) (6) (7)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	4 0 0 0 0 (10) (10) (10) (10)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe (a)

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

(c) c:b/a*100 Significant difference; $*:P \le 0.05$ $**:P \le 0.01$ Test of Chi Square

(HPT150)

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 SEX : MALE

Organ	No	Dup Name Control of Animals on Study 33 ade 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Urinary sys	tem]				
kidney	mineralization:cortico-medullary junctio	33> 0 0 0 0 (0) (0) (0) (0)	4 0 0 0 (10) (0) (0) (0)	<38> 0 0 0 0 0 0 0 0 0 0 0	<40> 1 0 0 0 (3) (0) (0) (0)
	mineralization:papilla	2 0 0 0 0 (6) (6) (0) (0) (0)	4 0 0 0 0 (10) (10) (10) (10)	2 0 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)
	mineralization:cortex	24 0 0 0 (73) (0) (0) (0)	32 0 0 0 (78) (0) (0) (0)	19 0 0 0 (50) (0) (0) (0)	15 0 0 0 *** (38) (0) (0) (0)
	desquamation:pelvis	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (3) (4) (5)	0 0 0 0 0 (0) (0)	8 0 0 0 *
[Endocrine s	ystem]				
pituitary	cyst	33> 0 0 0 0 0 0 0 0	<pre></pre>	38> 1 0 0 0 (3) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	hyperplasia	1 0 0 0 (3) (0) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0) (0)
	Rathke pouch	3 0 0 0 0 (9) (0) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	2 0 0 0 0 (5) (0) (0) (0)
Grade (a) b (c) Significant	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference: $*: P \le 0.05$ **: $P \le 0$				

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : MALE

PAGE: 10

Organ	Group Na No. of A Grade Findings	me Control nimals on Study 33 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Endocrine s	ystem]				
thyroid	oyst	<33> 0 0 0 0 (0) (0) (0) (0)	(41) 1 0 0 0 (2) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	(40) 1 0 0 0 (3) (0) (0) (0)
panc islet	hyperplasia	<33> 0 0 0 0 (0) (0) (0) (0)	<41> 0 0 0 0 (0) (0) (0) (0)	<38> 2 0 0 0 (5) (0) (0) (0)	\(\lambda 40 \rangle \) \(1 0 0 \\ (3) (0) (0) (0) (0) \)
adrenat	cyst	<33> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>	<38> 0 0 0 0 0 0 0 0 0 0 0 0	<40> 0 0 0 0 (0) (0) (0) (0)
	spindle-cell hyperplasia	11 0 0 0 (33) (0) (0) (0)	14 0 0 0 (34) (0) (0) (0)	14 0 0 0 (37) (0) (0) (0)	11 0 0 0 (28) (0) (0) (0)
	hyperplasia:cortical cell	2 0 0 0 0 (6) (6) (70) (70)	2 0 0 0 0 (5) (0) (0)	5 0 0 0 (13) (0) (0) (0)	6 0 0 0 (15) (0) (0) (0)
	hyperplasia:medulla	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0)	1 0 0 0 0 (3) (0) (0) (0)
	accesory cortical nodule	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	2 0 0 0 0 (5) (0) (0) (0)
Grade (a) b (c) Significant	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0.01$	d 4: Severe Test of Chi Square			

(HPT150)

SEX

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

: MALE

SACRIFICED ANIMALS (105W)

Organ		Group Name No. of Animals on Study Grade 1 (%)	Can 33 2 (%)	3 (%)	4 (%)	1 (%)		33 ppm 11 3 (%)	<u>4</u> (%)	<u>1</u> (%))	1000 38 2 (%)	3 (%)	<u>4</u> (%)		1 (%)	300 4 2 (%)	0 ppm 0 3 (%)	<u>4</u> (%)
(Endocrine s)	ystem]																		
adrenal	focal fatty change:cortex	8 (24)	<33 0 (0) (0	0 (0)	3 (7)	0		0 (0)	0 (0)		<38 0 0) (0 (0)	0 ** (0)	(0	<4 0 0)	0	0 ** (0)
[Reproductive	e system]																		
testis	aplasia	0 (0)	<33 0 (0) (0	0	0 (0)	0	0 (0)	0 (0)	0) (<38 1 3) (0 (0)	0	(0	0 0 0)	0	0 (0)
	mineralization	23 (70)	0 (0) (0 0)	0 (0)	36 (88)	0 (0)	0 (0)	0 (0)	29 (76) (0	0 (0)	0 (0)	(22 55) (0 0)	0 (0)	0 (0)
	interstitial cell hyperplasia	(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)
epididymis	dilatation	1 (3)	<33 0 (0) (0	0	0 (0)	0	0 (0)	0 (0)	0 (0) (<38 0 0) (0 (0)		(0	0	0 (0)	0 (0)
	cyst	0 (0)	0 (0) (0	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0) (0	0 (0)	0 (0)	(1 3) (0 0)	0 (0)	0 (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100 difference; *: P ≦ 0.05 **: P ≦																		

(HPT150)

BAIS3

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 33 Grade 1 2 3 4 (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Reproduction	ue system]				
epididymis	mineralization	<33> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<38> 0 0 0 0 0 0 0 0 0 0 0	<40> 0 0 0 0 (0) (0) (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	spermatogenic granuloma	6 0 0 0 (18) (0) (0) (0)	10 0 0 0 (24) (0) (0) (0)	5 0 0 0 (13) (0) (0) (0)	1 0 0 0 0 (3) (0) (0)
(Nervous sy	stem]				
brain	hemorrhage	\(\lambda 33 \rangle \) \(1 0 0 0 \) \(3) \(0) \(0) (0) (0) \)	\(\lambda 41 \rangle \) \(1 0 0 0 \) \(2) \((0) (0) (0) \)	38> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	mineralization	16 0 0 0 (48) (0) (0) (0)	17 1 0 0 (41)(2)(0)(0)	19 0 0 0 (50) (0) (0) (0)	22 0 0 0 (55) (0) (0) (0)
[Special sea	nse organs/appendage]				
еуе	cataract	33> 0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (5) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
Grade (a) b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:	3: Marked 4: Severe the site P ≤ 0.01 Test of Chi Square			

SEX : MALE

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

PAGE: 13

Organ		Dup Name Control . of Animals on Study 33 ade 1 2 3 4 (%) (%) (%) (%) (%) (%)	333 ppm 41 1 2 3 4 (%) (%) (%) (%)	1000 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 40 1 2 3 4 (%) (%) (%) (%)
[Special sens	ise organs/appendage]				
еуе	keratitis	<pre></pre>	\(\begin{pmatrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	38> 0 1 0 0 (0) (3) (0) (0)	<pre></pre>
	degeneration:comea	3 0 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	mineralization:cornea	1 0 0 0 0 (3) (0) (0)	2 0 0 0 0 (5) (0) (0)	7 0 0 0 (18) (0) (0) (0)	0 0 0 0 0 (0) (0)
Harder gl	hyperplasia	(33> 0 0 0 0 (0)(0)(0)(0)	<41> 0 0 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) (0)
[Musculaskel	etal system]				
bone	osteosis	(33> 0 1 0 0 (0) (3) (0) (0)	(41) 0 1 0 0 (0) (2) (0) (0)	38> 0 0 0 0 0 0 0 0 0 0 0 0	(40) 0 0 0 0 (0) (0) (0) (0)
	asteasclerasis	1 0 0 0 0 (3) (3) (0) (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade (a> b (c) Significant	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0$				

(HPT150)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX : MALE PAGE: 14

Organ	Findings	· · · · · · · · · · · · · · · · · · ·	Group Name No. of Animals Grade	on Study 1 (%)	Cont 33 2 (%)	3 4 (%) (%)	·	1 (%)	3 4 (%) (%)	1 (%)	1000 38 2 (%)	3 4 (%) (%)	<u>1</u> (%)	2	0 ppm 0 3 (%)	<u>4</u> (%)
[Body cavitie	es]															
peritoneum	inflammation			0 (0) (<33> 0 0) (0 0		0 (0) (0 0	1 (3)	<38> 0 (0) (0 0	0 (0)		0> (0) (0 0)
Grade <a>> b (c) Significant	1: Slight 2: a: Number of animals b: Number of animals c: b / a * 100 difference; *: P ≦	examined at the s with lesion		4: Severe	1											
(HPT150)			····						 							BAIS3

APPENDIX L 4

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

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

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

Organ	Group Name No. of Anima Grade	Control Is on Study 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Respiratory	system]				
nasal cavit	eosinophilic change:olfactory epithelium	<50> 8 0 0 0 (16) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)
	eosinophilic change:respiratory epithelium	28 3 0 0 (56) (6) (0) (0)	31 3 0 0 (62) (6) (0) (0)	38 5 0 0 * (76) (10) (0) (0)	36 9 0 0 ** (73) (18) (0) (0)
	respiratory metaplasia:olfactory epithelium	8 0 0 0 (16) (0) (0) (0)	4 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 * (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	respiratory metaplasia:gland	7 0 0 0 (14) (0) (0) (0)	8 0 0 0 (16) (0) (0) (0)	24 0 0 0 *** (48) (0) (0) (0)	37 0 0 0 *** (76) (0) (0) (0)
	squamous cell metaplasia:respiratory epithelium	2 0 0 0 0 (4) (6) (6)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
nasopharynx	eosinophilic change	<50> 4 0 0 0 (8) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	7 0 0 0 (14) (0) (0) (0)	449> 4 0 0 0 (8) (0) (0) (0)
	hyperplasia	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
lung	hemorrhage	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: $P \le 0.05$ **: $P \le 0.01$ Test	4: Severe t of Chi Square			

REPORT TYPE : A1 : FEMALE SEX

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

Organ	No	oup Name . of Animals on Study ade $\frac{1}{(\%)}$ $\frac{2}{(\%)}$	Control 50 3 4 (%)	1500 ppm 50 1 2 3 4 (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Respiratory s	system]					
lung	edema	0 1	<50> 0 0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	\(\lambda 49 \rangle \) \[1 0 0 0 (2) (0) \q
	inflammatory infiltration	0 0	0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)
	lymphocytic infiltration	3 0 (6)(0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	3 0 0 0 0 (6) (6) (0) (0)
	accumulation of foamy cells	1 0 (2) (0	0 0	0 0 0 0 0 0 (0)	2 0 0 0 0 (4) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)
	bronchiolar-alveolar cell hyperplasia	0 0 (0) (0)	0 0	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
Hematopoieti	c system]					
oone marrow	atrophy	0 0	<50> 0 0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 (0) (0) (0) (0)
	angiectasis	1 0 (2) (0	0 0	0 2 0 0 (0) (4) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Grade (a) b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 ifference; $*: P \le 0.05$ **: $P \le 0$					

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

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

: FEMALE SEX

PAGE: 19

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Hematopoietic	c system]				
bone marrow	granulation	<50> 6 0 0 0 (12) (0) (0) (0)	(50) 1 1 0 0 (2) (2) (0) (0)	(50) 0 1 0 0 * (0) (2) (0) (0)	2 1 0 0 (4) (2) (0) (0)
	erythropolesis:increased	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	granulopoiesis:increased	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
spleen	atrophy	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<48> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	deposit of hemosiderin	12 0 0 0 (24) (0) (0) (0)	4 0 0 0 0 (8) (0) (0) (0)	2 0 0 0 *** (4) (0) (0) (0)	3 0 0 0 * (6) (0) (0)
	deposit of melanin	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
	mineralization	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	lymphocytic infiltration	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)

<a>><a>

a: Number of animals examined at the siteb: Number of animals with lesion

(c)

c:b/a * 100

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

(HPT150)

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

REPORT TYPE : A1
SEX : FEMALE

PAGE: 20

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Hematopoie	otic system]				
spleen	fibrosis	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<48> 0 1 0 0 (0) (2) (0) (0)
	extramedullary hematopoiesis	6 4 1 0 (12) (8) (2) (0)	6 4 0 0 (12) (8) (0) (0)	4 3 0 0 (8) (6) (0) (0)	11 2 0 0 (23) (4) (0) (0)
	follicular hyperplasia	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
[Circulator	y system]				
heart	thrombus	(50) 2 0 0 0 (4) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)	(49) 0 0 0 0 (0) (0) (0) (0)
	myocarditis	0 0 1 0 (0) (2) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
[Digestive	system]				
tooth	dysplasia	3 0 0 0 (6) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	50> 5 0 0 0 (10) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **: F	3 : Marked 4 : Severe site ≤ 0.01 Test of Chi Square			

(HPT150)

BAISS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 : FEMALE SEX

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

PAGE: 21

Orsan	Findings	Group Name No. of Animals on Study Grade 1 (%)	Cont 50 2 (%)	rol 3 4 (%) (%	<u> </u>	1 (%)	1500 50 2 (%)		<u>4</u> (%)	<u>.</u>]	L (6)	3000 50 2 (%)		<u>4</u> (%)	(1(%)	6000 49 2 (%)	0 ppm 9 3 (%)	(%)
[Digestive sy	stem]																		
salivary gl	lymphocytic infiltration	0 (0)	<50> 0 (0) (0 0		0 (<50 0 0) (0	0 0))) (<50 0 0) (0	0 (0)		2 4) (<49 0 0)	9> 0 (0)	0 (0)
stomach	mineralization	2 (4)	<50> 0 (0) (0 0		0 (<50 0 0) (0	0 0)		1 2) (<50 0 0) (0	0 (0)		2 4) (<49 0 0)	9> 0 (0)	0 (0)
	inflammatory infiltration	1 (2)	0 (0) (0 0		0 (0) (0 (0	0) (0)	0	0	0 (0)	(2 4) (0 0)	0 (0)	(0)
	ulcer:forestomach	(0)	0 (0) (0 ()	1 (2) (0 (0 0) (0 0)	(0 0) (0	0	0 (0)	(0 (2 4)	0 (0)	0 (0)
	hyperplasia:forestomach	(0)	0 (0) (0 (1 (2) (0 (0 0) (0 (0)		o 0) (0.	0	0 (0)		0 (0 0)	0 (0)	0 (0)
	erosion:glandular stomach	5 (10)	0 (0) (0 ()	3 (6)(0 (0 0) (0 (0)	(3 6) (0	0	0	(2 4) (0 0)	0 (0)	
	ulcer:glandular stomach	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)
	hyperplasia:glandular stomach	(2)	0 (0) (0 ()	0 (0) (0 (0 0) (0 (0)		0 0) (0	0	0		0 (0 0)	0 (0)	0 (0)

Grade <a>>

a: Number of animals examined at the site
b: Number of animals with lesion
c: b / a * 100

b (c)

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

(HPT150)

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

REPORT TYPE : A1 SEX

: FEMALE

PAGE: 22

0rgan	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%)
[Digestive s	ystem]				
stomach	dilated glands	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0
liver	angiectasis	<50> 1 1 0 0 (2) (2) (0) (0)	<50> 3 0 0 0 (6) (0) (0) (0)	(50) 2 1 0 0 (4) (2) (0) (0)	4 0 0 0 (8) (0) (0) (0)
	necrosis:focal	0 1 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0) (0)
	necrosis:single cell	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	deposit of amyloid	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	inflammatory infiltration	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	lymphocytic infiltration	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 1 0 0 (4) (2) (0) (0)
	granulation	23 0 0 0 (46)(0)(0)(0)	18 0 0 0 (36) (0) (0) (0)	22 1 0 0 (44) (2) (0) (0)	27 1 0 0 (55) (2) (0) (0)

Grade

1: Slight

2 : Moderate

3 : Marked

4 : Severe

(a) b (c) a: Number of animals examined at the site b: Number of animals with Lesion

c:b/a*100

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

(HPT150)

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

PAGE: 23

Organ		oup Name Control of Animals on Study 50 de 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Digestive sys	stem]				
liver	extramedullary hematopoiesis	\$50> 5 1 0 0 (10) (2) (0) (0)	50> 5 0 0 0 (10) (0) (0) (0)	<pre></pre>	3 0 0 0 (6) (0) (0) (0)
	clear cell focus	3 1 0 0 (6) (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	2 1 0 0 (4) (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	acidophilic cell focus	1 0 0 0 0 (2) (3) (4) (5)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
	basophilic cell focus	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	bile ductular proliferation	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)
	biliary cyst	1 0 0 0 0 (2) (3) (4)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0	0 0 0 0 0 (0) (0)
	hepatocellular hypertrophy with atypia:ce	ontral 0 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
gall bladd	cyst	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0

(c) c:b/a*100 Significant difference; *: $P \le 0.05$ **: $P \le 0.01$ Test of Chi Square (HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

ALL ANIMALS (0-105W)

Organ	Group Name No. of Anim Grade Findinss	Control sals on Study 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Digestive sy	vstem]				
gall bladd	hyperplasia	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
pancreas	atrophy	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>
[Urinary syst	tem]				
idney	infarct	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(49) 1 0 0 0 (2) (0) (0) (0)
	cyst	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
	hyaline droplet	6 0 0 0 (12) (0) (0) (0)	11 0 0 0 (22) (0) (0) (0)	7 2 0 0 (14) (4) (0) (0)	7 2 0 0 (14) (4) (0) (0)
	basophilic change	2 0 0 0 0 (4) (0) (0) (0)	6 1 0 0 (12) (2) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
Grade (a > b (c) Significant (1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0.01$ To	4: Severe est of Chi Square			

(HPT150)

: MOUSE Crj:BDF1

ANIMAL REPORT TYPE : A1 : FEMALE SEX

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

4 : Severe

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 50 50 50 49 Grade 3 3 Organ_ Findings (%) (%) (%) (%) (%) (%) (%) (%) (%) [Urinary system] kidney <50> <50> <50> hyaline cast 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) (2)(0)(0)(0) lymphocytic infiltration 1 (8)(4)(0)(0) (4)(0)(0)(0) (6)(2)(0)(0) (14) (2) (0) (0) inflammatory polyp 0 1 1 1 0 (2)(0)(0)(0) (0)(8)(0)(0) (2) (12) (0) (0) (2)(2)(2)(0) hydronephrosis 0 0 0 1 5 0 0 * (0)(0)(0)(0) (2) (4) (0) (0) (4)(12)(0)(0) (2)(10)(0)(0) papillary necrosis 1 0 0 0 1 0 0 0 0 (2)(0)(0)(0) (2)(0)(0)(0) (14) (0) (0) (0) (16) (0) (0) (0) mineralization:cortico-medullary junction 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (2)(0)(0)(0) mineralization:papilla 0 0 0 0 * (14) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) mineralization:cortex 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(2)(0)(0) (0)(0)(0)(0)

Grade 1: Slight 2 : Moderate 3 : Marked (a)

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

(c) c:b/a*100

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

(HPT150)

BAIS3

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

REPORT TYPE : A1 : FEMALE SEX

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 6) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%)
[Urinary syst	tem]				
kidney	desquamation:pelvis	(50) 4 0 0 ((8) (0) (0) (0)	<50> 14 6 0 0 *** (28) (12) (0) (0)	<50> 12 0 0 0 (24) (0) (0) (0)	21 0 0 0 ** (43) (0) (0) (0)
urin bladd	lymphocytic infiltration	(50) 2 0 0 ((4) (0) (0) (6	<50> 0 0 0 0 0 0) (0) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	48> 1 0 0 0 (2) (0) (0) (0)
(Endocrine s)	vstem]				
pituitary	angiectasis	(49) 4 0 0 (8) (0) (0) (4	\(\lambda 49 \rangle \) \(1 \ 0 \ 0 \ 0 \) \(2) \((0) \(0) \((0) \) \)	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	cyst	2 0 0 (4) (4) (6) (6)	1 0 0 0	1 0 0 0 0 (2) (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	hyperplasia	4 2 0 (8) (4) (0) (3 1 1 0 0 (6) (2) (2) (0)	1 0 0 0 0 (2) (3) (6)	1 1 0 0 (2) (2) (0) (0)
	Rathke pouch	5 0 0 (10) (0) (0) (0 0 0 0 0 0	2 0 0 0 0 (4) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)
Grade (a> b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with losion c: b / a * 100 difference; *: P ≤ 0.05 **: P	3: Marked 4: Severe site ≤ 0.01 Test of Chi Square			

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

REPORT TYPE : A1

SEX : FEMALE

0rgan	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Endocrine sys	stem]				
thyroid	cyst	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
parathyroid	cyst	<25> 1 0 0 0 (4) (0) (0) (0)	<28> 0 0 0 0 0 0 0 0 0 0	<21> 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (5) (0) (0) (0)
	hyperplasia	3 0 0 0 (12) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
adrenal	spindle-cell hyperplasia	<50> 43 0 0 0 (86) (0) (0) (0)	<pre></pre>	(50) 47 1 0 0 (94) (2) (0) (0)	44 0 0 0 (90) (0) (0) (0)
	accesory cortical nodule	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	focal fatty change:cortex	2 0 0 0 0 (4) (0) (0) (0)	3 0 0 0 0 (6) (6) (7)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)
[Reproductive	system]				
DUATY	thrombus	<50> 0 0 1 0 (0) (0) (2) (0)	(50) 0 0 1 0 (0) (0) (2) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(49) 0 0 1 0 0 0) (2) (0)
Grade <a>> b (c) Significant d	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 ifference; *: P ≤ 0.05 ***: P	3: Marked 4: Severe site ≤ 0.01 Test of Chi Square			

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX

: FEMALE

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Reproductiv	pe system]				
ovary	oyst	9 0 0 0 (18) (0) (0) (0)	<50> 8 0 0 0 (16) (0) (0) (0)	(50) 14 2 0 0 (28) (4) (0) (0)	7 4 0 0 (14) (8) (0) (0)
	inflammation	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	xanthogranuloma	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)
uterus	angiectasis	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	endometrial hyperplasia	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
	cystic endometrial hyperplasia	33 0 0 0 (66) (0) (0) (0)	32 1 0 0 (64) (2) (0) (0)	34 0 0 0 (68) (0) (0) (0)	31 0 0 0 (63) (0) (0) (0)
mammary gl	duct ectasia	3 0 0 0 (6) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Grade (a > b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:	3: Marked 4: Severe me site P ≤ 0.01 Test of Chi Square			

(HPT150)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

ALL ANIMALS (0-105W)

Orsan	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
Reproductive	e system]				
ammary gl	galactocele	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	49> 1 0 0 0 (2) (0) (0) (0)
Nervous sys	tem]				
rain	hemorrhage	3 0 0 0 (6) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	mineralization	14 0 0 0 (28) (0) (0) (0)	· 25 0 0 0 * (50) (0) (0) (0)	16 0 0 0 (32) (0) (0) (0)	9 0 0 0 0 (18) (0) (0) (0)
	epidermal cyst	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 0 (0)
	dilatation:cerebral ventricle	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Special sen	se organs/appendage]				
уө	cataract	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX : FEMALE

PAGE: 30

Organ		up Name	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)	6000 ppm 49 1 2 3 4 (%) (%) (%) (%)
[Special ser	nse organs/appendage]				
өуө	degeneration:cornea	50> 5 0 0 0 (10) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	49> 1 0 0 0 (2) (0) (0) (0)
	mineralization:cornea	6 0 0 0 0 (12) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)	2 0 0 0 (4) (0) (0) (0)	6 0 0 0 (12) (0) (0) (0)
[Musculoskel	letal system]				
muscle	mineralization	\$50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	osseous metaplasia	0 0 0 0 0 0 (0)	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
bone	fracture	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0) (0) (0) (0)
	osteosclerosis	1 0 0 0 0 (2) (2) (3) (4)	2 1 0 0 (4) (2) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
Grade <a> b (c) Significant	1: Slight 2: Moderate 3: M a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0$.				

(HPT150)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 50 50 50 49 Grade 3 2 3 2 3 (%) Findings (%) (%) (%) (%) (%) (%) (%) [Body cavities] peritoneum <50> <50> inflammation 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) peritonitis 0 0 0 (0)(0)(0)(0) (0)(0)(2)(0) (0)(0)(0)(0) (0)(0)(0)(0) adipose ⟨50⟩ <50> (49) granulation 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 (2)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) Grade 1 : Slight 3 : Marked 2 : Moderate 4 : Severe (a) a: Number of animals examined at the site b b: Number of animals with lesion (c) c:b/a*100Significant difference; $*: P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

(HPT150)

BAIS3

APPENDIX L 5

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

Organ	Group Name No. of Animal Grade Findines	Contral s on Study 20 1 2 3 4 (%) (%) (%) (%)	1500 ppm 21 1 2 3 4 (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Respiratory :	system]				
nasal cavit	easinaphilic change:alfactory epithelium	20> 2 0 0 0 (10) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (6) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)
	eosinophilic change:respiratory epithelium	9 0 0 0 (45) (0) (0) (0)	11 0 0 0 (52) (0) (0) (0)	14 1 0 0 * (78) (6) (0) (0)	8 0 0 0 0 (80) (0) (0) (0)
	respiratory metaplasia:olfactory epithelium	4 0 0 0 0 (20) (0) (0)	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	respiratory metaplasia:gland	0 0 0 0 0 (0) (0)	2 0 0 0 0 (10) (0) (0)	6 0 0 0 * (33) (0) (0) (0)	5 0 0 0 ***
	squamous cell metaplasia:respiratory epithelium	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
nasopharynx	eosinophilic change	<20> 1 0 0 0 (5) (0) (0) (0)	21> 1 0 0 0 (5) (0) (0) (0)	\(\lambda 1 & 0 & 0 \\ (\ 6 \) (\ 0) (\ 0) (\ 0) \(\ 0 \)	<10> 2 0 0 0 (20) (0) (0) (0)
lung	hemorrhage	<20> 0 1 0 0 (0) (5) (0) (0)	<21> 0 0 0 0 0 0 0 0 0 0 0 0	<18> 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
Grade < a > b (c) Significant d	1: Slight 2: Moderate 3: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 lifference; *: $P \le 0.05$ **: $P \le 0.01$ Test	4 : Severe of Chi Square			

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

Organ	Findings	Group Name No. of Animals on Study Grade 1 2 (%) (%		1500 ppm 21 1 2 3 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Respiratory	system]					
lung	edema	0 1	<20> 0 0) (0) (0)	<21> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (6) (0) (0) (0)	1 0 0 0 (10) (0) (0) (0)
	accumulation of foamy cells	1 0 (5) (0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0) (0)	2 0 0 0 0 (20) (0) (0) (0)
[Hematopoieti	c system]					
oone marrow	atrophy	0 0	<20> 0 0 0 0 0 0 0 0	<pre></pre>	\(\langle 18 \rangle \) \(1 0 0 \\ (6) (0) (0) (0) \)	(10) 0 0 0 0 (0) (0) (0) (0)
	angiectasis	0 0	0 0	0 1 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0
	granulation	2 0 (10)(0	0 0	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0)	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	erythropoiesis:increased	0 0 (0) (0)	0 0 0	1 0 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0
spleen	atrophy	0 0	<20> 0 0 0 0 (0) (0) (0)	1 0 0 0 (5) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0	(9) 0 0 0 0 (0)(0)(0)(0)

(a)

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

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

c:b/a * 100

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

PAGE: 13 Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 20 21 18 10 Grade 3 3 (%) (%) Organ_ Findings_ (%) (%) (%) (%) (%) [Hematopoietic system] spleen <20> <21> <18> < 9> deposit of hemosiderin 0 0 0 0 0 0 0 0 0 0 0 0 0 (5)(0)(0)(0) (10) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) deposit of melanin 0 (5)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) lymphocytic infiltration 0 0 0 (0)(5)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) extramedullary hematopoiesis 1 3 1 0 0 1 1 0 0 (5)(15)(5)(0) (0)(5)(0)(0) (6) (11) (0) (0) (11) (11) (0) (0) [Circulatory system] heart <20> <21> <18> <10> thrombus 0 0 0 3 0 0 0 2 0 0 0 0 0 0 0 (5)(0)(0)(0) (14) (0) (0) (0) (11) (0) (0) (0) (0)(0)(0)(0) myocarditis 0 0 0 0 0 (0)(0)(5)(0) (0) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) [Digestive system] tooth <20> <10> 0 dysplasia 0 0 0 0 0 0 0 0 0 0 (5)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (0)(0)(0)(0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe

Test of Chi Square

(HPT150)

<a>>

b

(c)

a: Number of animals examined at the site

b: Number of animals with lesion

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

c:b/a*100

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

PAGE: 14

Organ	Findings	Group Name Control No. of Animals on Study 20 Grade 1 2 3 (%) (%) (%)	1500 ppm 21 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%)
[Digestive sy	stem]				
stomach	mineralization	20> 1 0 0 (5) (0) (0) (0 0 0 0 0 0) (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (10) (0) (0) (0)
	ulcer:forestomach	0 0 0 0 (0) (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (10) (0) (0)
	erosion:glandular stomach	0 0 0 0 (0) (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 (6) (6) (70) (70)	0 0 0 0 0 (0) (0)
liver	angiectasis	(20) 0 0 0 (0) (0) (0) (0 3 0 0 0 0) (14) (0) (0) (0)	<18> 0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (10) (0) (0)
	necrosis:focal	0 1 0 (5) (0) (0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) .
	necrosis:single cell	(0) (0) (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 0 (0) (0)
	deposit of amyloid	1 0 0 (5) (0) (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	1 0 0 (5) (0) (0) (0 0 0 0 0 0 0 0 0 0 0 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 (c)

b: Number of animals with lesion

c:b/a*100

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

(HPT150)

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

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

Organ	No	roup Name o. of Animals on Study	Cantrol s on Study 20		1500 ppm 21			3000 ppm 18					6000 ppm 10				
	Findings	1 (%)	2 3 (%) (%)	<u>4</u> (%)	(%)	(%)	(%)	<u>4</u> (%)	<u>1</u> (%)	(%)	(%)	(%)		(%)	2 (%)	(%)	(%)
[Digestive sy	ystem]																
liver	extramedullary hematopoiesis	1 (5)	<20> 0 0 (0) (0)	0 (0)	0 (0)	<21) 0 (0) (0	0 0)	0 (0)	0	0 (0)	0 (0)	(0 (<100 0 0) (0	0 (0)
	acidophilic cell focus	1 (5)	0 0 (0)	0 (0)	0 (0)	0 (0) (0	0	(0)	0 (0)	0 (0)	0 (0)	(0 (0	0 (0)	0 (0)
	hepatocellular hypertrophy with atypia:	central 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)
gall bladd	cyst	(0)	<20> 0 0 (0) (0)	0 (0)	0 (0)	<21: 0 (0) (0	0 0)	1 (6)		0 (0)	0 (0)		0 (<10 0 0) (0	0 (0)
pancreas	atrophy	1 (5)	<20> 0 0 (0) (0)	0 (0)	0 (0)	<211 0 (0) (0	0 0)	0 (0)	0	0 (0)	0 (0)	(0 0) (< 9 0 0) (0	0 (0)
[Urinary sys	tem]																
kidney	hyaline droplet	3 (15)	<20> 0 0 (0) (0)	0 (0)	8 (38)	<211 0 (0) (0	0 0)	6 (33)	2	0 (0)	0 (0)	(3 30) (<10 2 20) (0	0 (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0								,,			****					

(HPT150)

BAIS3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 : FEMALE SEX

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

PAGE: 16

Organ	_ Findings	Group Name Control No. of Animals on Study 20 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 21 1 2 3 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Urinary s	vstem]				
kidney	basophilic change	<20> 0 0 0 0 0 0 0 0 0 0 0 0 0	3 1 0 0 (14) (5) (0) (0)	(18) 2 0 0 0 (11) (0) (0) (0)	<10> 0 0 0 0 0 0 0 0 0 0 0
	hyaline cast	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0)
	lymphocytic infiltration	0 1 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory polyp	1 0 0 0 (5) (0) (0) (0)	0 1 0 0 (0) (5) (0) (0)	0 2 0 0 (0) (11) (0) (0)	0 0 1 0 (0) (10) (0)
	hydronephrosis	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (5) (0) (0)	1 0 0 0 0 (6) (6) (0) (0)	0 2 0 0 (0) (0) (0)
	papillary necrosis	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (6) (6) (7)	0 0 0 0 0 (0) (0)
	mineralization:papilla	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	desquamation:pelvis	0 0 0 0 0 (0) (0) (0)	9 0 0 0 *** (43) (0) (0) (0)	3 0 0 0 (17) (0) (0) (0)	6 0 0 0 *** (60) (0) (0) (0)

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

b b: Number of animals with lesion

(c) c:b/a*100

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

(HPT150)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1
SEX : FEMALE

Organ	Findings	Group Name Control No. of Animals on Study 20 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 21 1 2 3 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Endocrine sy	stem]				
pituitary	angiectasis	<19> 1 0 0 0 (5) (0) (0) (0)	<20> 0 0 0 0 0 0 0 0 0 0 0	<18> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
	cyst	2 0 0 0 (11) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyperplasia	1 0 0 0 (5) (0) (0) (0)	0 0 1 0 (0) (5) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	Rathke pouch	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0)	1 0 0 0 0 (6) (6) (70) (70)	2 0 0 0 0 (20) (0) (0) (0)
parathyroid	hyperplasia	<pre></pre>	<12> 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	<pre></pre>
adrenal	spindle-cell hyperplasia	<20> 13 0 0 0 (65) (0) (0) (0)	3 0 0 0 (62) (0) (0) (0)	(18) 16 0 0 0 (89) (0) (0) (0)	7 0 0 0 (70) (0) (0) (0)
	focal fatty change:cortex	0 0 0 0 0 (0) (0)	1 0 0 0 0 (5) (0) (0) (0)	1 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0)
Grade <a>> b (c) Significant d	a: Number of animals examined at the sb: Number of animals with lesionc: b / a * 100				

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

Organ	Findings	Group Name Control No. of Animals on Study 20 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 21 1 2 3 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
[Reproductive	system]				
ovary	thrombus	<pre></pre>	(21) 0 0 1 0 (0) (0) (5) (0)	0 0 0 0 (0) (0) (0) (0)	<10> 0 0 1 0 (0) (0) (10) (0)
	cyst	1 0 0 0 0 (5) (5) (0) (0)	0 0 0 0 0 0 (0) (0)	2 0 0 0 0 (11) (0) (0) (0)	0 1 0 0 (0) (10) (0)
	inflammation	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (5) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
uterus	endometrial hyperplasia	<20> 0 0 0 0 (0) (0) (0) (0)	221> 1 0 0 0 (5) (0) (0) (0)	(18) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	cystic endometrial hyperplasia	8 0 0 0 (40)(0)(0)(0)	8 1 0 0 (38) (5) (0) (0)	5 0 0 0 (28) (0) (0) (0)	2 0 0 0 0 (20) (0) (0) (0)
mammary gl	duct ectasia .	<20> 1 0 0 0 (5) (0) (0) (0)	21> 1 0 0 0 (5) (0) (0) (0)	1 0 0 0 (6) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)
[Nervous syst	tem]				
brain	hemorrhage	2 0 0 0 (10) (10) (10) (10)	<21> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(18) 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant o	1: Slight 2: Moderate a: Number of animals examined at th b: Number of animals with lesion c:b/a*100 difference; *: P ≤ 0.05 **:	3: Marked 4: Severe ne site P ≦ 0.01 Test of Chi Square			

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

ANIMAL

DEAD AND MORIBUND ANIMALS (0-105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 20 21 18 10 Grade 3 3 2 3 Findings (%) (%) (%) (%) (%) (%) (%) (%) [Nervous system] brain <20> <18> <10> mineralization 0 0 0 0 0 0 0 0 2 0 0 0 (20) (0) (0) (0) (19) (0) (0) (0) (22) (0) (0) (0) (20) (0) (0) (0) epidermal cyst 0 0 1 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (0)(0)(0)(0) [Special sense organs/appendage] eye <20> ⟨21⟩ degeneration:cornea 0 0 0 0 0 0 0 0 0 0 (20) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) mineralization:cornea 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) [Musculoskeletal system] muscle <20> <21> mineralization 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 b (c) c:b/a*100Significant difference; $*:P \le 0.05$ $**:P \le 0.01$ Test of Chi Square

SEX

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 : FEMALE

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

PAGE: 20

Findings	Group Name Control No. of Animals on Study 20 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 21 1 2 3 4 (%) (%) (%) (%)	3000 ppm 18 1 2 3 4 (%) (%) (%) (%)	6000 ppm 10 1 2 3 4 (%) (%) (%) (%)
tal system]				
ossebus metaplasia	<20> 0 0 0 0 (0) (0) (0) (0)	21> 1 0 0 0 (5) (0) (0) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10> 0 0 0 0 (0) (0) (0) (0)
osteosclerosis	<20> 0 0 0 0 0 0 0 0 0 0 0	(21) 0 0 0 0 (0) (0) (0) (0)	<18> 1 0 0 0 (6) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)
s]				
peritonitis	(20) 0 0 0 0 (0) (0) (0) (0)	(21) 0 0 1 0 (0) (0) (5) (0)	<18> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(10) 0 0 0 0 (0) (0) (0) (0)
a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100	site			
	ossecus metaplasia osteosclerosis s] peritonitis 1: Slight 2: Moderate a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100	No. of Animals on Study 20	No. of Animals on Study	No. of Animals on Study 20 21 18 18

BAIS3

APPENDIX L 6

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : FEMALE

Organ	Group No. o Grade Findinss	f Animals on Study 30	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
[Respiratory	system]				
nasal cavit	eosinophilic change:olfactory epithelium	(30) 6 0 0 0 (20) (0) (0) (0)	3 0 0 0 (10) (0) (0) (0)	2 0 0 0 (6) (0) (0) (0)	2 0 0 0 (5) (0) (0) (0)
	eosinophilic change:respiratory epithelium	19 3 0 0 (63) (10) (0) (0)	20 3 0 0 (69) (10) (0) (0)	24 4 0 0 (75) (13) (0) (0)	28 9 0 0 * (72) (23) (0) (0)
	respiratory metaplasia:olfactory epithelium	4 0 0 0 0 (13) (0) (0) (0)	3 0 0 0 0 (10) (10) (10) (10)	1 0 0 0 (3) (0) (0) (0)	2 0 0 0 0 (5) (0) (0)
	respiratory metaplasia:gland	7 0 0 0 (23) (0) (0) (0)	6 0 0 0 (21) (0) (0) (0)	18 0 0 0 * (56) (0) (0) (0)	32 0 0 0 ** (82) (0) (0) (0)
	squamous cell metaplasia:respiratory epithe	1 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
nasopharynx	eosinophilic change	3 0 0 0 (10) (0) (0) (0)	<29> 2 0 0 0 (7) (0) (0) (0)	<pre></pre>	<pre></pre>
	hyperplasia	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
lung	inflammatory infiltration	<30> 0 0 0 0 (0) (0) (0) (0)	<29> 0 0 0 0 0 0 0 0 0 0 0	<32> 0 0 0 0 (0) (0) (0) (0)	<39> 1 0 0 0 (3) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3: Mar a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; $*: P \le 0.05$ **: $P \le 0.01$				

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

SACRIFICED ANIMALS (105W)

Orsan	Findines	Group Name No. of Animals on Study Grade 1 (%)	Control 30 2 3 4 (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
Respiratory :	system]					
ung	lymphocytic infiltration	3 (10)	<30> 0 0 0 (0) (0) (0)	<29> 0 0 0 0 (0) (0) (0) (0)	32> 0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (8) (0) (0) (0)
	accumulation of foamy cells	(0)	0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)	2 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0)
	bronchiolar-alveolar cell hyperplasia		0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)
lematopoietio	c system]					
one marrow	atrophy	0 (0)	<30> 0 0 0 (0) (0) (0)	(29) 1 0 0 0 (3) (0) (0) (0)	<32> 0 0 0 0 (0) (0) (0) (0)	<39> 0 0 0 0 (0) (0) (0) (0)
	angiectasis	(3)	0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	granulation	(13)	0 0 0 0 0 (0)	1 1 0 0 (3) (3) (0) (0)	0 1 0 0 (0) (3) (0) (0)	2 0 0 0 0 (5) (0) (0) (0)
	granulopoiesis: increased	0 (0)	0 0 0 0 (0) (0)	2 0 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
rade a> b	1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100	: Marked 4 : Sever ite	е			

ANIMAL

SEX

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: MOUSE Crj:BDF1

REPORT TYPE : A1 : FEMALE SACRIFICED ANIMALS (105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 30 29 32 39 Grade 3 3 3 3 Findings (%) (%) (%) Organ_ (%) (%) (%) (%) [Hematopoietic system] spleen <30> deposit of hemosiderin 0 0 0 0 0 0 ** 3 0 0 0 ** (37) (0) (0) (0) (7)(0)(0)(0) (6)(0)(0)(0) (8) (0) (0) (0) deposit of melanin 0 (0)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (0)(0)(0)(0) mineralization (0)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) fibrosis 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(3)(0)(0) extramedullary hematopoiesis 5 1 0 0 6 3 0 0 0 (17) (3) (0) (0) (21) (10) (0) (0) (9)(3)(0)(0) (26) (3) (0) (0) follicular hyperplasia 0 0 0 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (6)(0)(0)(0) (0)(0)(0)(0) [Circulatory system] heart ⟨30⟩ thrombus 0 0 0 0 0. 0 0 0 0 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe (a) a: Number of animals examined at the site

(HPT150)

b

(c)

b: Number of animals with lesion

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

c:b/a*100

BAIS3

ANIMAL : MOUSE Crj:BDF1 HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 29 30 32 39 Grade 2 3 3 2 3 Findings_ (%) (%) (%) (%) (%) (%) (%) (%) (%) [Digestive system] tooth <30> ⟨29⟩ dysplasia 0 0 0 0 0 0 0 0 0 0 0 (7)(0)(0)(0) (10) (0) (0) (0) (13) (0) (0) (0) (5)(0)(0)(0) salivary gl <30> <29> ⟨39⟩ lymphocytic infiltration 0 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) stomach <30> mineralization 0 0 0 0 0 1 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) (3)(0)(0)(0) inflammatory infiltration 1 0 0 0 2 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) ulcer:forestomach 0 0 0 0 1 0 0 (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(3)(0)(0) hyperplasia: forestomach 0 0 (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) erosion:glandular stomach 0 0 2 0 (17) (0) (0) (0) (10) (0) (0) (0) (6)(0)(0)(0) (5)(0)(0)(0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe < a > a : Number of animals examined at the site b b: Number of animals with Lesion (c) c:b/a*100Significant difference; $*:P \le 0.05$ $**:P \le 0.01$ Test of Chi Square

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Cri:BDF1

REPORT TYPE : A1 SEX : FEMALE SACRIFICED ANIMALS (105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 30 29 32 39 Grade 3 3 3 0rgan Findings (%) (%) (%) (%) (%) (%) (%) (%) [Digestive system] stomach <30> <29> ulcer:glandular stomach 0 0 0 0 0 0 0 (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) hyperplasia:glandular stomach (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) dilated glands 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) liver <30> ⟨29⟩ <32> <39> angiectasis 1 0 0 0 0 0 0 (3)(3)(0)(0) (0)(0)(0)(0) (6)(3)(0)(0) (8)(0)(0)(0) necrosis:focal (0)(0)(0)(0) (0)(0)(0)(0) (9)(0)(0)(0) (0)(0)(0)(0) inflammatory infiltration 0 0 0 0 (0)(0)(0)(0) (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) lymphocytic infiltration 0 0 2 1 0 0 (7)(0)(0)(0) (0)(0)(0)(0) (3)(0)(0)(0) (5)(3)(0)(0) granulation 18 (77) (0) (0) (0) (62) (0) (0) (0) (69) (3) (0) (0) (69) (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

b (c) c:b/a*100

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

Test of Chi Square

(HPT150)

BAIS3

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 : FEMALE SEX

Organ	Group No. o Grade Findinas	Name Control F Animals on Study 30 1 2 3 4 (%) (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
(Digestive s	vstem]				
liver	extramedullary hematopoiesis	<30> 4 1 0 0 (13) (3) (0) (0)	<29> 5 0 0 0 (17) (0) (0) (0)	<32> 2 1 0 0 (6) (3) (0) (0)	3 0 0 0 (8) (0) (0) (0)
	clear cell focus	3 1 0 0 (10) (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	2 1 0 0 (6) (3) (0) (0)	1 0 0 0 (3) (0) (0) (0)
	basophilic cell focus	0 0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	bile ductular proliferation	1 0 0 0 0 (3) (3) (6)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
	biliary cyst	1 0 0 0 0 (3) (3) (6)	0 0 0 0 0 (0) (0)	0 0 0 0 0	0 0 0 0 0 (0) (0)
gall bladd	hyperplasia	(30) 1 0 0 0 (3) (0) (0) (0)	<29> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	<39> 0 0 0 0 0 0 0 0 0 0 0
[Urinary sys	tem]				
kidney	infarct	30> 1 0 0 0 (3) (0) (0) (0)	<29> 0 0 0 0 (0) (0) (0) (0)	32> 0 0 0 0 (0) (0) (0) (0)	39> 1 0 0 0 (3) (0) (0) (0)
Grade <a>> b (c)	1: Slight 2: Moderate 3: Mar a: Number of animals examined at the site b: Number of animals with lesion c:b/a*100 difference; *: P ≤ 0.05 **: P ≤ 0.01				

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

: FEMALE SEX PAGE: 21

0rgan	Findings	Group Name Control No. of Animals on Study 30 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
[Urinary sys	stem]				
kidney	cyst	<30> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	32> 1 0 0 0 (3) (0) (0) (0)	(39) 0 0 0 0 (0) (0) (0) (0)
	hyaline droplet	3 0 0 0 (10) (0) (0) (0)	3 0 0 0 0 (10) (0) (0)	1 0 0 0 (3) (0) (0) (0)	4 0 0 0 0 (10) (0) (0)
	basophilic change	2 0 0 0 0 (7) (0) (0) (0)	3 0 0 0 0 (10) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 (3) (0) (0) (0)
	hvaline cast	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	lymphocytic infiltration	4 1 0 0 (13) (3) (0) (0)	2 0 0 0 0 (7) (0) (0) (0)	3 1 0 0 (9) (3) (0) (0)	7 1 0 0 (18) (3) (0) (0)
	inflammatory polyp	0 0 0 0 0 (0) (0)	0 3 0 0 (0) (10) (0) (0)	1 4 0 0 (3) (13) (0) (0)	1 1 0 0
	hydranephrasis	0 0 0 0 0 (0) (0)	1 1 0 0 (3) (3) (0) (0)	1 6 0 0 * (3) (19) (0) (0)	1 3 0 0 (3) (8) (0) (0)
	papillary necrosis	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	6 0 0 0 * (19) (0) (0) (0)	8 0 0 0 * (21)(0)(0)(0)

Grade 1 : Slight (a)

2 : Moderate 3 : Marked

(HPT150)

BAIS3

^{4 :} Severe

a: Number of animals examined at the site

b b: Number of animals with lesion

⁽c) c: b/a * 100 Significant difference; *: $P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

Organ		Group Name Contro No. of Animals on Study 30 Grade 1 2 3 (%) (%) (9	3 4 1	1500 ppm 29 2 3 4 (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
[Urinary syst	tem]					
kidney	mineralization:cortico-medullary junct	ion (30) (0)(0)(0		<29> 0 0 0 0) (0) (0)	<pre></pre>	39> 1 0 0 0 (3) (0) (0) (0)
	mineralization:papilla	6 0 ((20) (0) ((0 0 0	0 0 0 *	0 0 0 0 *	0 0 0 0 *
	mineralization:cortex	0 0 (0 0 0 0	0 1 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
	desquamation:pelvis	4 0 ((13) (0) (0		6 0 0 * (21) (0) (0)	9 0 0 0 0 0 (28) (0) (0) (0)	15 0 0 0 * (38) (0) (0) (0)
urin bladd	lymphocytic infiltration	(30) 2 0 ((7) (0) (<29> 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 (6) (6) (70) (70) (70)	\(\lambda 38 \rangle \) \(1 0 0 0 \) \(3) \((0) (0) (0) (0) \)
[Endocrine sy	ystem]					
pituitary	angiectasis	3 0 ((10) (0) ((<29> 0 0 0 0 0 0 0) (0) (0)	32> 1 0 0 0 (3) (0) (0) (0)	39> 0 0 0 0 0 0) (0) (0) (0)
Grade <a>> b (c) Significant (1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤					

(HPT150)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : FEMALE

PAGE: 23

Organ	Findings	Group Name Control No. of Animals on Study 30 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
(Endocrine sys	stem]				
pituitary	oyst	(30) 0 0 0 0 (0) (0) (0) (0)	29> 1 0 0 0 (3) (0) (0) (0)	\(\frac{32}{3} \) (3) (0) (0) (0)	39> 1 0 0 0 (3) (0) (0) (0)
	hyperplasia	3 2 0 0 (10) (7) (0) (0)	3 1 0 0 (10) (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	1 1 0 0 (3) (3) (0) (0)
	Rathke pouch	5 0 0 0 (17) (0) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 (3) (0) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)
thyroid	cyst	<30> 0 0 0 0 (0) (0) (0) (0)	<29> 0 0 0 0 (0) (0) (0) (0)	32> 1 0 0 0 (3) (0) (0) (0)	<39> 0 0 0 0 (0) (0) (0) (0)
parathyroid	cyst	1 0 0 0 (6) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (6) (0) (0) (0)
	hyperplasia	2 0 0 0 (12) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
adrena l	spindle-cell hyperplasia	30 0 0 0 (100) (0) (0) (0)	<29> 27 0 0 0 (93) (0) (0) (0)	32> 31 1 0 0 (97) (3) (0) (0)	37 0 0 0 (95) (0) (0) (0)

(HPT150)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 : FEMALE SEX

Organ		up Name of Animals on Study de 1 (%)	Contr 30 2 (%) (al 3 4 %) (%)	1 (%)	1500 p 29 2 (%) (pm 3 4 %) (%)	1 (%)	3000 32 2 (%)	3	4 (%)	<u>1</u> (%)	2	39 39 3 (%)	4
(Endocrine s	system]														
adrena l	accesory cortical nodule	0 (0)	<30> 0 (0) (0 0 0) (0)	1 (3) (<29> 0 0) (0 0 0) (0)	0 (0)	<322 0 (0) (0	0 0)	0 (0)	0	<39> 0) (0)	
	focal fatty change:cortex	2 (7)	0 (0) (0 0 0) (0)	2 (7) (0	0 0 0) (0)	(0)	0 (0 (0 0)	0 (0	0 (0)	0 (0)	0 (0)
[Reproduction	ve system]														
ovary	cyst	8 (27)	<30> 0 (0) (0 0 0) (0)	8 (28) (<29> 0 0) (0 0 0) (0)	12 (38)	<32) 2 (6) (0 0) (0 0)	7 (18	3) (8)	<39> 0) (0)	
	xanthogranuloma	0 (0)	0 (0) (0 0 0	0 (0) (0	0 0 0 0 0) (0)	(0)	1 3) (0 (0 0)	(0)	0 (0)	0 (0)	0 (0)
uterus	angiectasis	0 (0)	<30> 0 (0) (0 0 0) (0)	1 (3) (<29> 0 0) (0 0 0) (0)	(0)		0	0 0)	0 (0)	0	<39> 0) (0)	
	cystic endometrial hyperplasia	25 (83)	0 (0) (0 0 0 0) (0)	24 (83) (0	0 0 0) (0)	29 (91)	0 (0	0 0)	29 (74)	0 (0)	0 (0)	0 (0)
Grade (a > b (c) Significant	1: Slight 2: Moderate 3: Ma: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: $P \le 0.05$ **: $P \le 0$														

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

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

Organ		Group Name Control No. of Animals on Study 30 Grade 1 2 3 4 (%) (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%)
[Reproductive	e system]				
mammary gl	duct ectasia	<30> 2 0 0 0 (7) (0) (0) (0)	29> 1 0 0 0 (3) (0) (0) (0)	32> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>
	galactocele	1 0 0 0 0 (3) (3) (6)	0 0 0 0 0 (0)	1 0 0 0 0 (3) (3) (6)	1 0 0 0 0 (3) (3) (0) (0) (0)
[Nervous sys	rtem]				
brain	hemorrhage	30> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>	32> 0 0 0 0 (0) (0) (0) (0)	(39) 0 0 0 0 (0) (0) (0) (0)
	mineralization	10 0 0 0 0 (33) (0) (0) (0)	21 0 0 0 *** (72) (0) (0) (0)	12 0 0 0 (38) (0) (0) (0)	7 0 0 0 (18) (0) (0) (0)
	dilatation:cerebral ventricle	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 0 (0) (0)	0 0 0 0 0	0 0 0 0 0 (0) (0)
[Special sens	ise organs/appendage]				
еуе	cataract	30> 2 0 0 0 (7) (0) (0) (0)	<pre></pre>	32> 0 0 0 0 (0) (0) (0) (0)	39> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c) Significant	1: Slight 2: Moderate 3 a: Number of animals examined at the sib: Number of animals with lesion c:b/a*100 difference: $*:P \le 0.05$ **: $P \le 0.05$				

STUDY NO. : 0268 ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

: FEMALE SEX

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	Control 30 2 3 4 (%) (%) (%)	1500 ppm 29 1 2 3 4 (%) (%) (%) (%)	3000 ppm 32 1 2 3 4 (%) (%) (%) (%)	6000 ppm 39 1 2 3 4 (%) (%) (%) (%)
[Special sens	e organs/appendage]					
эуө	degeneration:cornea	(3)	<30> 0 0 0 (0) (0) (0)	<29> 0 0 0 0 0 0 0 0 0 0 0	32> 1 0 0 0 (3) (0) (0) (0)	39> 1 0 0 0 (3) (0) (0) (0)
	mineralization:comea	6 (20)	0 0 0 0 (0) (0)	5 0 0 0 (17) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	6 0 0 0 (15) (0) (0) (0)
[Musculoskele	tal system]					
oone	fracture	1 (3)	<30> 0 0 0 (0) (0) (0)	<29> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	39> 0 0 0 0 (0) (0) (0) (0)
	osteosclerasis	(3)	0 0 0 0 (0) (0)	2 1 0 0 (7) (3) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0
Body cavitie	s]					
peritoneum	inflammation	0 (0)	<30> 0 0 0 (0) (0) (0)	29> 1 0 0 0 (3) (0) (0) (0)	32> 0 0 0 0 (0) (0) (0) (0)	39> 0 0 0 0 (0) (0) (0) (0)
Grade (a) b (c)	1: Slight 2: Moderate a: Number of animals examined at b: Number of animals with lesion c: b / a * 100 ifference: *: P < 0.05 ***	$3: Marked$ $4: Severe$ the site $P \le 0.01$ Test of Chi Square				

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 30 29 32 39 Grade 3 3 Findings_ (%) (%) (%) (%) (%) (%) [Body cavities] adipose <30> granulation 0 0 0 0 0 0 0 0 0 0 0 (3)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) Grade 1: Slight 2 : Moderate 3 : Marked 4 : Severe (a) a: Number of animals examined at the site b b: Number of animals with lesion (c) c : b / a * 100Significant difference; *: $P \le 0.05$ **: $P \le 0.01$ Test of Chi Square (HPT150)

BAIS3

APPENDIX M1

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

MOUSE: MALE

(2-YEAR STUDY)

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : MALE

STUDY NO. : 0268

SEX : MALE

ime-related Weeks	Items	Group Name	Control	333 ppm	1000 ppm	3000 ppm	· · · · · · · · · · · · · · · · · · ·
0 - 52	NO. OF EXAMINED ANIMALS		1	1	0	1	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
53 - 78	NO. OF EXAMINED ANIMALS		2	2	3	3	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		0 0 0	2 2 0	1 1 0	2 2 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 0 0	0 2 2	0 1 1	0 2 2	
79 - 104	NO. OF EXAMINED ANIMALS		14	6	9	6	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		13 5 8	6 2 4	9 6 3	4 1 3	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		8 16 24	4 11 15	3 10 13	1 6 7	
105 - 105	NO. OF EXAMINED ANIMALS		33	41	38	40	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		25 13 12	30 20 10	26 16 10	12 10 2	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		13 25 38	18 27 45	18 22 40	5 9 14	

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : MALE

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

PAGE: 2

Time-relatedWeeks	Items	Group Name	Control	333 ppm	1000 ppm	3000 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50	
	NO. OF ANIMALS WITH TUMORS		38	38	36	18	
	NO. OF ANIMALS WITH SINGLE TUMORS		18	24	23	13	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		20	14	13	5	
	NO. OF BENIGN TUMORS		21	22	21	e e	
	NO. OF MALIGNANT TUMORS		41	40	33	17	
	NO. OF TOTAL TUMORS		62	62	54	23	

(HPT070)

BAIS3

APPENDIX M2

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

MOUSE: FEMALE

(2-YEAR STUDY)

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

Time-related Weeks	Items	Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		3	0	0	1	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
53 - 78	NO. OF EXAMINED ANIMALS		5	5	2	2	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		5 4 1	5 5 0	2 2 0	2 2 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		2 5 7	0 5 5	0 2 2	0 2 2	
79 - 104	NO. OF EXAMINED ANIMALS		12	16	16	7	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		12 8 4	13 13 0	16 11 5	6 6 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		4 13 17	0 13 13	2 20 22	1 5 6	
105 - 105	NO. OF EXAMINED ANIMALS		30	29	32	39	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		20 14 6	21 11 10	14 10 4	20 16 4	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		11 16 27	17 17 34	6 13 19	5 20 25	

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : FEMALE

PAGE: 4

me-related Weeks	I tems	Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	49	
	NO. OF ANIMALS WITH TUMORS		37	39	32	28	
	NO. OF ANIMALS WITH SINGLE TUMORS		26	29	23	24	
NO	NO. OF ANIMALS WITH MULTIPLE TUMORS		11	10	9	4	
	NO. OF BENIGN TUMORS		17	17	8	6	
	NO. OF MALIGNANT TUMORS		34	35	35	27	
	NO. OF TOTAL TUMORS		51	52	43	33	

(HPT070)

BAIS3

APPENDIX N 1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY) ALL ANIMALS (0-105W) STUDY NO. : 0268

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

PAGE: 1 : MALE

ndage] ell carcinoma emalignant alveolar adenomaalveolar carcinoma		0 (<50> (0%) <50> (0%) <50> (2%) <50> (6%) (18%)	0 3	<50> (0%) <50> (0%) <50> (0%) <50> (6%)	. 0	<50> (2%) <50> (2%) <50> (0%) <50> (8%)	0	<50> (0%) <50> (2%) <50> (0%) <50> (0%)
smalignant G G alveolar adenoma		0 ((0%) (50> (0%) (50> (2%) (50> (6%)	0 3	(0%) <50> (0%) <50> (0%) <50> (6%)	. 0	<pre>(2%) <50> (2%) <50> (0%) <50></pre>	0	(0%) <50> (2%) <50> (0%) <50>
s alveolar adenoma		0 ((0%) <50> (2%) <50> (6%)	0	(0%) <50> (0%) <50> (6%)	. 0	(2%) <50> (0%) <50>	0	<50> (0%)
- alveolar adenoma		1 ((2%) <50> (6%)	3	(0%) <50> (6%)		(0%) <50>		(0%) <50>
- alveolar adenoma		1 ((2%) <50> (6%)	3	(0%) <50> (6%)		(0%) <50>		(0%) <50>
		3 ((6%)		(6%)	4		0	
alveolar carcinoma		9 ((18%)						
				6	(12%)	7	(14%)	6	(12%)
:benign				1	<50> (2%)	0	<50> (0%)	0	<50> (0%)
		0 ((0%)	1	(2%)	0	(0%)	0	(0%)
c sarcoma		1	(2%)	0	(0%)	0	(0%)	0	(0%)
rcona		0	(0%)	0	(0%)	1	(2%)	0	(0%)
Lymphoma				9	<50> (18%)	4	<50> (8%)	2	<50> (4%)
				0	<50> (0%)	1	<50> (2%)	0	<50> (0%)
a i	a:benign a:ic sarcoma arcoma : Lymphoma a or of animals examined at the site or of animals with neoplasm c:b/a*	a ic sarcoma arcoma Lymphoma a	asbenign 0 a 0 cic sarcoma 1 arcoma 0 c Lymphoma 7	a 0 (0%) ic sarcoma 1 (2%) arcoma 0 (0%) (50) tymphoma 7 (14%) a	asbenigh 0 (0%) 1 a 0 (0%) 1 sic sarcoma 1 (2%) 0 arcoma 0 (0%) 0	a benign 0 (0%) 1 (2%) a 0 (0%) 1 (2%) ic sarcoma 1 (2%) 0 (0%) arcoma 0 (0%) 0 (0%) cymphoma 500 500 7 (14%) 9 (18%) a 0 (0%) 0 (0%) or of animals examined at the site	a benign 0 (0%) 1 (2%) 0 0 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	a:benign 0 (0%) 1 (2%) 0 (0%) a 0 (0%) 1 (2%) 0 (0%) ic sarcoma 1 (2%) 0 (0%) 0 (0%) arcoma 0 (0%) 0 (0%) 1 (2%) \$\frac{50}{50} \frac{50}{50} \frac{50}{	a:benign 0 (0%) 1 (2%) 0 (0%)

(HPT085)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX

: MALE

	Findings	No. of animals on Study		50		333 5	0) ppm 50		000 pp 50	
[Hematopoietic s	system]												
spleen	malismant lymphoma	((50> (0%)	3		60> 6%)	:		(50> (2%)	1	<50>	
	hemangiosarcoma		5	(10%)	4	(8%)	:	L	(2%)	0	(()%)
[Digestive syste	em]												
tooth	odontoma	!	0	(50> (0%)	1		60> 2%)	((50> (0%)	0	<50) ((
salivary gl	histiocytic sarcoma			<50> (0%)	0		0%)	;		(50> (2 %)	0	<50X	
	mastcytoma:malignant		0	(0%)	1	(2%)	()	(0%)	0	(()%)
small intes	adenoma			<50> (0%)	0		60> 0%)	:		(50> (2%)	C	<50)	
	leiomyoma		0	(0%)	0	(0%)	:	1	(2%)	C	(()%)
	histiocytic sarcoma		1	(2%)	0	(0%)		0	(0%)	C	(()%)
cecum	adenoma			<50> (0%)	0		0%) 0%)	ı		(50> (0%)	1	<50)	
liver	hemangioma			<50> (2%)	1		50> 2%)	1		(50> (0%)	1	<50)	
	hepatocellular adenoma	1	LO	(20%)	11	. (22%)	1	0	(20%)	3	((6%)
	histiocytic sarcoma		5	(10%)	1	. (2%)	;	5	(10%)	5	((3%)

⁽HPT085)

ANIMAL

: MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Group Name Control 333 ppm 1000 ppm 3000 ppm Organ_ Findings_ No. of animals on Study 50 50 50 50 [Digestive system] liver <50> <50> <50> <50> 3 (6%) hemangiosarcoma 3 (6%) 2 (4%) 1 (2%) hepatocellular carcinoma 8 (16%) 11 (22%) 6 (12%) 2 (4%) hepatoblastoma 1 (2%) 0 (0%) 1 (2%) 0 (0%) [Urinary system] kidney <50> ⟨50⟩ <50> <50> hemangiosarcoma 0 (0%) 1 (2%) 0 (0%) 0 (0%) urin bladd <50> <50> <50> <50> leiomyosarcoma 0 (0%) 1 (2%) 0 (0%) 0 (0%) [Endocrine system] pituitary <50> **〈49〉** <49> <50> adenoma 1 (2%) 0 (0%) 0 (0%) 1 (2%) adrenal <50> <50> <50> <50> pheochromocytoma 1 (2%) 0 (0%) 0 (0%) 0 (0%) [Special sense organs/appendage] Harder at <50> <50> <50> <50> adenoma 4 (8%) 4 (8%) 4 (8%) 0 (0%) [Musculoskeletal system] bane <50> <50> ⟨50⟩ <50> osteosarcoma 0 (0%) 0 (0%) 0 (0%) 1 (2%)

⁽a) b (c)

a: Number of animals examined at the site

b: Number of animals with neoplasm

c:b/a*100

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name No. of animals on Study	Control 50	333 ppm 50	1000 ppm 50	3000 ppm 50
Body cavities	1					
ediastinum	Leiomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
eritoneum	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
<a>> (c)	a: Number of animals examined at the site b: Number of animals with neoplasm c:	b / a * 100		1490-1		
HPT085)				, <u>, , , , , , , , , , , , , , , , , , </u>		

APPENDIX N 2

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

Organ		up Name of animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Integumentar	ry system/appandage]					
skin/app	squamous celi papilloma	0	<50> (0%)	<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)
ubcutis	fibrosarcoma	1	<50> (2%)	<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)
	Leiomyosarcoma	1	(2%)	0 (0%)	0 (0%)	0 (0%)
	schwannoma:malignant	0	(0%)	0 (0%)	1 (2%)	0 (0%)
Respiratory	system]					
ung	bronchiolar-alveolar adenoma	0	<50> (0%)	<50> 2 (4%)	<50> 1 (2%)	<49> 1 (2%)
	bronchiptar-alveolar carcinoma	1	(2%)	0 (0%)	0 (0%)	2 (4%)
lematopoiet	ic system]					
vmph nade	malignant lymphoma	18	<50> (36%)	<50> 23 (46%)	<50> 19 (38%)	<49> 10 (20%)
hymus	malismant lymphoma	0	<50> (0%)	<50> 1 (2%)	<50> 1 (2%)	<49> 0 (0%)
pleen	hemangioma	0	<50> (0%)	<50> 0 (0%)	<50> 1 (2%)	<48> 0 (0%)
	malignant lymphoma	0	(0%)	0 (0%)	1 (2%)	0 (0%)
	hemangiosarcoma	1	(2%)	1 (2%)	0 (0%)	0 (0%)
(a) b (c)	a: Number of animals examined at the site b: Number of animals with neoplasm c:b/a*100					

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1
SEX : FEMALE

rgan	Findings	Group Name No. of animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
Circulatory s	eystem]					
neart	schwannoma:malignant		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)
Digestive sys	rtem]					
salivary gl	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
	mastcytoma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
small intes	adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
iver	hemangioma		<50> 1 (2%)	<50> 3 (6%)	<50> 0 (0%)	<49> 2 (4%)
	hepatocellular adenoma		2 (4%)	2 (4%)	0 (0%)	0 (0%)
	histiocytic sarcoma		2 (4%)	0 (0%)	0 (0%)	2 (4%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	hepatocellular carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
(Endocrine sys	etem]					
pituitary	adenoma		<49> 6 (12%)	<49> 4 (8%)	<50> 4 (8%)	<49> 0 (0%)

ANIMAL

: MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

Group Name Control 1500 ppm 3000 ppm 6000 ppm Findings_ 0rgan No. of animals on Study 50 50 50 49 [Endocrine system] pituitary <49> <49> <50> <49> adenocarcinoma 0 (0%) 0 (0%) 1 (2%) 0 (0%) [Reproductive system] DUALA ⟨50⟩ <50> <50> <49> cystadenoma 2 (4%) 3 (6%) 1 (2%) 1 (2%) hemangioma 0 (0%) 1 (2%) 0 (0%) 0 (0%) histiocytic sarcoma 0 (0%) 0 (0%) 0 (0%) 1 (2%) uterus <50> <50> ⟨50⟩ ⟨49⟩ hemangioma 1 (2%) 1 (2%) 0 (0%) 0 (0%) endometrial stromal polyp 2 (4%) 0 (0%) 0 (0%) 0 (0%) histiocytic sarcoma 6 (12%) 10 (20%) 9 (18%) 11 (22%) mammary gl <50> ⟨50⟩ ⟨50⟩ <49> adenoma 1 (2%) 0 (0%) 0 (0%) 0 (0%) [Special sense organs/appendage] Harder gl <50> ⟨50⟩ <50> <48> adenoma 2 (4%) 1 (2%) 0 (0%) 1 (2%) [Body cavities] peritoneum <50> ⟨50⟩ <50> <49> sarcoma:NOS 1 (2%) 0 (0%) 0 (0%) 0 (0%) (a) a: Number of animals examined at the site b (c) b: Number of animals with neoplasm c:b/a*100

⁽HPT085)

APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE: MALE

(2-YEAR STUDY)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

STUDY No. : 0268 ANIMAL : MOUSE Crj:BDF1

SEX : MALE

Group Name	Control	333 ppm	1000 ppm	3000 ppm	
	SITE : Lung				
	TUMOR : bronchiolar-alveola	ar adenoma			
umor rate					
Overall rates(a)	3/50(6.0)	3/50(6.0)	4/50(8.0)	0/50(0.0)	
Adjusted rates(b)	6.98	6.52	10.53	0.0	
Terminal rates(c) tatistical analysis	1/33(3.0)	1/41(2.4)	4/38(10.5)	0/40(0.0)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.9566				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.1039				
Fisher Exact test(e)		P = 0.3392	P = 0.4895	P = 0.1325	
Overall rates(a) Adjusted rates(b) Terminal rates(c) Itatistical analysis Peto test Standard method(d) Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e)	TUMOR : bronchiolar-alveola 9/50(18.0) 24.24 8/33(24.2) P = 0.6378 P = 0.6977 P = 0.7449 P = 0.5595	er carcinoma 6/50(12.0) 12.20 5/41(12.2) P = 0.3291	7/50(14.0) 10.53 4/38(10.5) P = 0.4234	6/50(12.0) 14.63 5/40(12.5) P = 0.3291	
umor rate		ar adenoma,bronchiolar—alveolar carcinom			
Overall rates(a)	12/50(24.0)	9/50(18.0)	11/50(22.0)	6/50(12.0)	
Adjusted rates(b)	28.21	17.78	21.05	14.63	
Terminal rates(c) Statistical analysis Peto test	9/33(27.3)	6/41(14.6)	8/38(21.1)	5/40(12.5)	
Standard method(d)	P = 0.6379				
Prevalence method(d)	P = 0.9090				
Combined analysis(d)	P = 0.9213				
Cochran-Armitage test(e)	P = 0.1557				
Fisher Exact test(e)		P = 0.3620	P = 0.4826	P = 0.1474	

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

STUDY No. : 0268
ANIMAL : MOUSE Crj:BDF1

SEX : MALE

Group Name	Control	333 ppm	1000 ppm	3000 ppm	
	SITE : Lymph node				
	TUMOR : malignant lymphoma				
'umor rate Overall rates(a)	7/50(14.0)	0/50(10 0)			
Adjusted rates(b)	15.15	9/50(18.0) 9.76	4/50(8.0) 10.53	2/50(4.0) 2.50	
Terminal rates(c)	5/33(15.2)	4/41(9.8)	4/38(10.5)	1/40(2.5)	
tatistical analysis	., ,	2, 22 (0.0)	4/00(10.0)	1/40(2.0)	
Peto test					
Standard method(d)	P = 0.8988				
Prevalence method(d)	P = 0.9694				
Combined analysis(d)	P = 0.9897				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0.0354*	D - 0 4004	D 0.0000	2	
risie Exact test(e)		P = 0.4234	P = 0.2958	P = 0.1045	
	SITE : spleen				
	TUMOR : malignant lymphoma				
'umor rate					
Overall rates(a)	0/50(0.0)	3/50(6.0)	1/50(2.0)	1/50(2.0)	
Adjusted rates(b)	0.0	7.32	2.63	2.50	
Terminal rates(c)	0/33(0.0)	3/41(7.3)	1/38(2.6)	1/40(2.5)	
Statistical analysis Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.5695				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.8710				
Fisher Exact test(e)		P = 0.1325	P = 0.4950	P = 0.4950	
	SITE : spleen		· · · · · · · · · · · · · · · · · · ·		
	TUMOR : hemangiosarcoma				
îumor rate					
Overall rates(a)	5/50(10.0)	4/50(8.0)	1/50(2.0)	0/50(0.0)	
Adjusted rates(b)	5.26	8.70	2.38	0.0	
Terminal rates(c)	1/33(3.0)	2/41(4.9)	0/38(0.0)	0/40(0.0)	
Statistical analysis					
Peto test Standard method(d)	P = 0.9818				
Prevalence method(d)	P = 0.9818 P = 0.9751				
Combined analysis(d)	P = 0.9973				
Cochran-Armitage test(e)	P = 0.0178*				
Fisher Exact test(e)		P = 0.4883	P = 0.1210	P = 0.0360*	

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE:

3

BAIS3

ANIMAL : MOUSE Crj:BDF1

STUDY No. : 0268 : MALE SEX

(HPT360A)

Group Name Control 333 ppm 1000 ppm 3000 ppm SITE : spleen TUMOR : hemangioma, hemangiosarcoma Tumor rate Overall rates(a) 5/50(10.0) 4/50(8.0) 2/50(4.0) 0/50(0.0) Adjusted rates(b) 5.26 8.70 4.760.0 Terminal rates(c) 1/33(3.0) 2/41(4.9) 1/38(2.6) 0/40(0.0) Statistical analysis Peto test Standard method(d) P = 0.9818Prevalence method(d) P = 0.9660Combined analysis(d) P = 0.9956Cochran-Armitage test(e) P = 0.0222*Fisher Exact test(e) P = 0.4883P = 0.2425P = 0.0360*SITE : liver TUMOR : hepatocellular adenoma Tumor rate Overall rates(a) 10/50(20.0) 11/50(22.0) 10/50(20.0) 3/50(6.0) Adjusted rates(b) 20.45 25.00 22,22 7.50 Terminal rates(c) 6/33(18.2) 10/41(24.4) 8/38(21.1) 3/40(7.5) Statistical analysis Peto test Standard method(d) P = 1.0000 ? Prevalence method(d) P = 0.9855Combined analysis(d) P = 0.9903Cochran-Armitage test(e) P = 0.0219*Fisher Exact test(e) P = 0.4833P = 0.4035P = 0.0604SITE : Liver TUMOR : histiocytic sarcoma Tumor rate Overall rates(a) 5/50(10.0) 1/50(2.0) 5/50(10.0) 3/50(6.0) Adjusted rates(b) 6.06 0.0 5.26 2.33 Terminal rates(c) 2/33(6.1) 0/41(0.0) 2/38(5.3) 0/40(0.0) Statistical analysis Peto test Standard method(d) P = 0.5373Prevalence method(d) P = 0.5546Combined analysis(d) P = 0.5816Cochran-Armitage test(e) P = 0.8428Fisher Exact test(e) P = 0.1210P = 0.3710P = 0.3790

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

STUDY No. : 0268
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

Group Name	Control	333 ppm	1000 ppm	3000 ppm	
	SITE : liver				
umor rate	TUMOR : hemangiosarcoma				
Overall rates(a)	3/50(6.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)	
Adjusted rates(b)	7.69	4.35	5.26	2.50	
Terminal rates(c)	1/33(3.0)	1/41(2.4)	2/38(5.3)	1/40(2.5)	
tatistical analysis Peto test					
Standard method(d)	P = 0.5380				
Prevalence method(d)	P = 0.8214				
Combined analysis(d)	P = 0.8681				
Cochran-Armitage test(e)	P = 0.2717				
Fisher Exact teşt(e)		P = 0.3392	P = 0.4909	P = 0.3235	
	SITE : Liver				
	TUMOR : hepatocellular carcinoma				
umor rate					
Overall rates(a)	8/50(16.0)	11/50(22.0)	6/50(12.0)	2/50(4.0)	
Adjusted rates(b) Terminal rates(c)	15.15	23.91	15.79	0.0	
tatistical analysis	5/33(15.2)	9/41(22.0)	6/38(15.8)	0/40(0.0)	
Peto test					
Standard method(d)	P = 0.2333				
Prevalence method(d)	P = 0.9995				
Combined analysis(d) Cochran—Armitage test(e)	P = 0.9948 P = 0.0157*		•		
Fisher Exact test(e)	1 - 0.013/*	P = 0.3526	P = 0.4157	P = 0.0671	
			1 - 0.4107	1 - 0.0071	
	SITE : Liver				
	TUMOR : hemangioma,hemangiosarco	ma			
umor rate Ouerall rates(a)	4/50(8.0)	A/E0(9 0)	9/50/ 4.0	0/50/ + 0	
Adjusted rates(b)	10.26	4/50(8.0) 6.52	2/50(4.0) 5.26	2/50(4.0) 5.00	
Terminal rates(c)	1/33(3.0)	2/41(4.9)	2/38(5.3)	2/40(5.0)	
tatistical analysis				_, ,	
Peto test	D = A 520A				
Standard method(d) Prevalence method(d)	P = 0.5380 P = 0.7766				
Combined analysis(d)	P = 0.8264				
Cochran-Armitage test(e)	P = 0.3481				
Fisher Exact test(e)		P = 0.3579	P = 0.3574	P = 0.3574	

SEX

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1 : MALE

Group Name	Control	333 ppm	1000 ppm	3000 ppm	
	SITE : Liver				
_	TUMOR : hepatocellular adenoma,	nepatocellular carcinoma			
Tumor rate					
Overall rates(a)	17/50(34.0)	20/50(40.0)	13/50(26.0)	5/50(10.0)	
Adjusted rates(b)	33.33	43.48	28.95	7.50	
Terminal rates(c)	11/33(33.3)	17/41(41.5)	11/38(28.9)	3/40(7.5)	
Statistical analysis Peto test					
Standard method(d)	P = 0.3865				
Prevalence method(d)	P = 0.9999				
Combined analysis(d)	P = 0.9997				
Cochran-Armitage test(e)	P = 0.0007**				
Fisher Exact test(e)	1 0,000	P = 0.4098	P = 0.3333	P = 0.0166*	
			. 0.0000	. 0,0100	
	SITE : Harderian gland				
_	TUMOR : adenoma				
Tumor rate					
Overall rates(a)	4/50(8.0)	4/50(8.0)	4/50(8.0)	0/50(0.0)	
Adjusted rates(b)	12.12	9.76	10.53	0.0	
Terminal rates(c) Statistical analysis	4/33(12.1)	4/41(9.8)	4/38(10.5)	0/40(0.0)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.9889				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.0498*				

(HPT360A)

BAIS3

PAGE: 5

Standard method : Death analysis

Prevalence method: Incidental tumor test

Combined analysis: Death analysis + Incidental tumor test

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

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

⁽b): Kaplan-Meire estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.

⁽c): Observed tumor incidence at terminal kill.

⁽d): Beneath the control incidence are the P-values associated with the trend test.

⁽e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.

^{?:} The conditional probabities 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.

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1

SEX : MALE

SEA • MALE

Control	333 ppm	1000 ppm	3000 ppm	
SITE : ALL SITE				
TUMOR : histiocytic sarcoma				
7/50/ 14 0)	1/50/ 0.0)	0/50/ 10 0	0/50/ 0.0	
	, , ,			
3/33(9.1)	0/41(0.0)	3/38(7.9)	0/40(0.0)	
P = 0.65/18				
			•	
. 0,0010	P = 0.0430*	P = 0.4863	P = 0.1917	
SITE : ALL SITE TUMOR : malignant lymphoma				
			3/50(6.0)	
5/33(15.2)	7/41(17.1)	5/38(13.2)	2/40(5.0)	
B 0000				
r = 0.9804				
P = 0.0454*				
	SITE : ALL SITE TUMOR : histiocytic sarcoma 7/50(14.0) 9.09 3/33(9.1) P = 0.6548 P = 0.7695 P = 0.7595 P = 0.5019 SITE : ALL SITE TUMOR : malignant lymphoma 7/50(14.0) 15.15 5/33(15.2)	SITE : ALL SITE TUMOR : histiccytic sarcoma 7/50(14.0)	SITE : ALL SITE TUMOR : histicovtic sarcoma 7/50(14.0)	SITE : ALL SITE TUMOR : histicocytic sarcoma 7/50(14.0)

(HPT360A)

BAIS3

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1

: MALE SEX

Group Name	Control	333 ppm	1000 ppm	3000 ppm	
	SITE : ALL SITE				
	TUMOR : hemangiosarcoma				
umor rate					
Overall rates(a)	5/50(10.0)	7/50(14.0)	3/50(6.0)	1/50(2.0)	
Adjusted rates(b)	5.26	13.04	5,26	2.50	
Terminal rates(c)	1/33(3.0)	4/41(9.8)	2/38(5.3)	1/40(2.5)	
Statistical analysis			•••••	-, ()	
Peto test					
Standard method(d)	P = 0.9627				
Prevalence method(d)	P = 0.9164				
Combined analysis(d)	P = 0.9850				
Cochran-Armitage test(e)	P = 0.0438*				
Fisher Exact test(e)		P = 0.4062	P = 0.3790	D = 0 1010	
11010 2001 1031(6)		1 - 0.4002	L - 0.9/80	P = 0.1210	
PT360A)					B

PAGE:

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

(b): Kaplan-Meire 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 probabities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.

----: There is no data which should be statistical analysis.

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

APPENDIX O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE: FEMALE

(2-YEAR STUDY)

SEX

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1 : FEMALE

Group Name	Control	1500 ppm	3000 ppm	mag 0006
	SITE : Lung			
T	TUMUK : bronchiolar-alveolar a	adenoma,bronchiolar—alveolar carcinoma	à	
Tumor rate	1/20/ 0.0)	2 (22 (
Overall rates(a)	1/50(2.0)	2/50(4.0)	1/50(2.0)	3/49(6.1)
Adjusted rates(b)	3.13	6.90	3.13	7.69
Terminal rates(c)	0/30(0.0)	2/29(6.9)	1/32(3.1)	3/39(7.7)
Statistical analysis			•	
Peto test	_			
Standard method(d)	P =			
Prevalence method(d)	P = 0.2258			
Combined analysis(d)	P =			
Cochran-Armitage test(e)	P = 0.3175			
Fisher Exact test(e)		P = 0.4926	P = 0.2475	P = 0.3162
	SITE : Lymph node			
	TUMOR : malignant Lymphoma			
fumor rate				
Overall rates(a)	18/50(36.0)	23/50(46.0)	19/50(38.0)	10/49(20.4)
Adjusted rates(b)	30.00	34.48	18.75	20.51
Terminal rates(c)	9/30(30.0)	10/29(34.5)	6/32(18.8)	8/39(20.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9902			
Prevalence method(d)	P = 0.8864			
Combined analysis(d)	P = 0.9947			
Cochran-Armitage test(e)	P = 0.0370*			
Fisher Exact test(e)		P = 0.3187	P = 0.4792	P = 0.1408

FISHER EXACT TEST(6)		P = 0.3187	P = 0.4792	P = 0.1408	
	SITE : liver TUMOR : hemangioma				
Tumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test	1/50(2.0) 2.86 0/30(0.0)	3/50(6.0) 10.34 3/29(10.3)	0/50(0.0) 0.0 0/32(0.0)	2/49(4.1) 5.00 1/39(2.6)	
Standard method(d) Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e)	P =	P = 0.3235	P = 0.4950	P = 0.5000	

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
	SITE : Liver				
Cumor rate	TUMOR : hemangioma,hemangio	Sarcoma			
Overall rates(a)	2/50(4.0)	3/50(6.0)	0/50(0.0)	3/49(6.1)	
Adjusted rates(b)	5.71	10.34	0.0	5.00	
Terminal rates(c)	1/30(3.3)	3/29(10.3)	0/32(0.0)	1/39(2.6)	
Statistical analysis					
Peto test Standard method(d)	D = 0 1110				
Prevalence method(d)	P = 0.1110 P = 0.6692				
Combined analysis(d)	P = 0.4534				
Cochran-Armitage test(e)	P = 0.7895				
Fisher Exact test(e)		P = 0.4909	P = 0.2574	P = 0.5000	
Tumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test Standard method(d) Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e)	SITE : liver TUMOR : hepatocellular ader 3/50(6.0)	ioma,hepatocellular carcinoma 2/50(4.0) 6.90 2/29(6.9)	0/50(0.0) 0.0 0/32(0.0)	0/49(0.0) 0.0 0/39(0.0)	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e)	P = 0.9913 P = P = 0.0397*	P = 0.4909	P = 0.1325	P = 0.1364	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e)	P =	P = 0.4909	P = 0.1325	P = 0.1364	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e)	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma			444	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) fumor rate Overall rates(a)	P =	4/49(8.2)	4/50(8.0)	0/49(0.0)	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) fumor rate Overall rates(a)	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma 6/49(12.2) 16.67	4/49(8.2) 13.79	4/50(8.0) 11.43	0/49(0.0) 0.0	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) Fumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis	P =	4/49(8.2)	4/50(8.0)	0/49(0.0)	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) Fumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma 6/49(12.2) 16.67 5/30(16.7)	4/49(8.2) 13.79	4/50(8.0) 11.43	0/49(0.0) 0.0	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) Tumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test Standard method(d)	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma 6/49(12.2) 16.67 5/30(16.7) P = 0.9250 ?	4/49(8.2) 13.79	4/50(8.0) 11.43	0/49(0.0) 0.0	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) Tumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test Standard method(d) Prevalence method(d)	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma 6/49(12.2)	4/49(8.2) 13.79	4/50(8.0) 11.43	0/49(0.0) 0.0	
Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e) Fisher Exact test(e) Tumor rate Overall rates(a) Adjusted rates(b) Terminal rates(c) Statistical analysis Peto test Standard method(d)	P = P = 0.0397* SITE : pituitary gland TUMOR : adenoma 6/49(12.2) 16.67 5/30(16.7) P = 0.9250 ?	4/49(8.2) 13.79	4/50(8.0) 11.43	0/49(0.0) 0.0	

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE C-j:BDF1
SEX : FEMALE

Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
	SITE : pituitary gland				
Tumor rate	TUMOR : adenoma, adenocarcinoma				
Overall rates(a)	6/49(12.2)	4/49(8.2)	F/F0(10 0)	0/40/ 0.0	
Adjusted rates(b)	16.67	13.79	5/50(10.0) 14.29	0/49(0.0)	
Terminal rates(c)	5/30(16.7)	4/29(13.8)	3/32(9.4)	0.0 0/39(0.0)	
Statistical analysis	0,00(10.1)	4/25(10,0)	3/32(3.4)	0/33(0.0)	
Peto test					
Standard method(d)	P = 0.9250 ?				
Prevalence method(d)	P = 0.9919				
Combined analysis(d)	P = 0.9962		•		
Cochran-Armitage test(e)	P = 0.0255*				
Fisher Exact test(e)		P = 0.3948	P = 0.5000	P = 0.0191*	
	SITE : DUARY	4.1.1	* T1400 () and		
Tumor rate	TUMOR : cystadenoma				
Overall rates(a)	2/50(4.0)	3/50(6.0)	1/50(2.0)	1/49(2.0)	
Adjusted rates(b)	5.88	10.34	3.13	2,56	
Terminal rates(c)	0/30(0.0)	3/29(10.3)	1/32(3.1)	1/39(2.6)	
Statistical analysis	• • • • • • • • • • • • • • • • • • • •	-,(,	1,02(011,	1,00(11.0)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.8366				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.4078	D 0.4000	D 0 4000	D 4 4004	
Fisher Exact test(e)		P = 0.4909	P = 0.4926	P = 0.4851	

(HPT360A)

BAIS3

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
	SITE : uterus				
umor rate	TUMOR : histiocytic sarcoma				
Overall rates(a)	6/50(12.0)	10/50(20.0)	9/50(18.0)	11/40/ 00 4)	
Adjusted rates(b)	11.63	17.24	9/50(18.0)	11/49(22.4) 20.51	
Terminal rates(c)	3/30(10.0)	5/29(17.2)	3/32(9.4)	8/39(20.5)	
tatistical analysis	0,00(10.0)	0/20(11.2)	3/32(3.4)	0/39(20.5)	
Peto test					
Standard method(d)	P = 0.3871				
Prevalence method(d)	P = 0.2411				
Combined analysis(d)	P = 0.2374				
Cochran-Armitage test(e)	P = 0.2399				
Fisher Exact test(e)	.*	P = 0.2557	P = 0.3291	P = 0.1853	

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

(b): Kaplan-Meire 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 probabities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.

----: There is no data which should be statistical analysis.

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

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE: 3

BAIS3

ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

Group Name	Contral	1500 ppm	3000 ppm	6000 ppm
	SITE : ALL SITE TUMOR : hemangioma			
îumor rate	TOTON • Heliai 9 Tulia			
Overall rates(a)	2/50(4.0)	5/50(10.0)	1/50(2.0)	2/49(4.1)
Adjusted rates(b)	2.86	17.24	2.13	5.00
Terminal rates(c)	0/30(0.0)	5/29(17.2)	0/32(0.0)	1/39(2.6)
Statistical analysis	, , , ,	-,,	3,32(313)	1,00(2.0)
Peto test				
Standard method(d)	P = 0.9285 ?			
Prevalence method(d)	P = 0.6087			
Combined analysis(d)	P = 0.7472			
Cochran-Armitage test(e)	P = 0.5993	D 0.0405		
Fisher Exact test(e)		P = 0.2425	P = 0.4926	P = 0.3162
	SITE : ALL SITE			
_	TUMOR : histiocytic sarcoma			
Tumor rate	0/50/ 10 0)	10/50/ 00 0)	10/50/ 00 0)	
Overall rates(a)	8/50(16.0)	10/50(20.0)	10/50(20.0)	14/49(28.6)
	10.00			25.64
Adjusted rates(b)	12.20	17.24	14.71	
Terminal rates(c)	12.20 3/30(10.0)	5/29(17.2)	4/32(12.5)	10/39(25.6)
Terminal rates(c) Statistical analysis		_ · · · · · · · · · · · · · · · · · · ·		
Terminal rates(c)		_ · · · · · · · · · · · · · · · · · · ·		
Terminal rates(c) Statistical analysis Peto test	3/30(10.0)	_ · · · · · · · · · · · · · · · · · · ·		
Terminal rates(c) Statistical analysis Peto test Standard method(d)	3/30(10.0) P = 0.4814	5/29(17.2)		
Terminal rates(c) Statistical analysis Peto test Standard method(d) Prevalence method(d)	3/30(10.0) P = 0.4814 P = 0.1023	_ · · · · · · · · · · · · · · · · · · ·		

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE C-j:BDF1 SEX : FEMALE

Group Name	Control	1500 ppm	3000 ppm	6000 ppm	
	SITE : ALL SITE				
	TUMOR : malignant Lymphoma				
umor rate					
Overall rates(a)	18/50(36.0)	24/50(48.0)	20/50(40.0)	10/49(20.4)	
Adjusted rates(b)	30.00	37.93	21.88	20.51	
Terminal rates(c)	9/30(30.0)	11/29(37.9)	7/32(21.9)	8/39(20.5)	
tatistical analysis		, , , ,	,,,	0,00(10.0)	
Peto test					
Standard method(d)	P = 0.9902				
Prevalence method(d)	P = 0.9020				
Combined analysis(d)	P = 0.9955				
Cochran-Armitage test(e)	P = 0.0340*				
Fisher Exact test(e)		P = 0.2768	P = 0.4661	P = 0.1408	

BAIS3

PAGE: 4

- (a): Number of tumor-bearing animals/number of animals examined at the site.
- (b): Kaplan-Meire 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 probabities of the largest and smallest possible cut comes can not estimated or this P-value is beyond the estimated P-value.

----: There is no data which should be statistical analysis.

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

APPENDIX P 1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

PAGE: 1

Organ		Group Name No. of Animals on Study	Contral 50	333 ppm 50	1000 ppm 50	3000 ppm 50
[Integumentar	y system/appandage]					
skin/app	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
Respiratory:	system]					
nasal cavit	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
lung	leukemic cell infiltration		<50> 4	<50> 6	<50> 2	<50> 0
	metastasis:liver tumor		3	2	3	0
	metastasis:mediastinum tumor		0	0	1	0
[Hematopoieti	c system]					
one marrow	leukemic cell infiltration		<50> 0	<50> 2	<50> 0	<50> 0
	metastasis:liver tumor		0	0	3	0
Lymph node	metastasis:liver tumpr		<50> 1	<50> 0	<50> 1	<50> 0
spleen	leukemic cell infiltration		<50> 1	<50> 5	<50> 1	<50> 1
	metastasis:liver tumor		2	0	3	1
	metastasis:salivary gland tumor		0	1	0	0
[Circulatory	system]					
heart	leukemic cell infiltration		<50> 0	<50> 4	<50> 0	<50> 0
(a)	a: Number of animals examined at the si b: Number of animals with lesion	te	·			****
(JPT150)						

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 SEX : MALE

rgan Findings	Group Name No. of Ani	Control mals on Study 50	333 ppm 50	1000 ppm 50	3000 ppm 50
700	*****				
[Circulatory system]					
heart metastasis:liue	er tumor	<50>	<50> 0	<50> 0	<50> 0
metastasis:medi	astinum tumor	0	0	1	0
[Digestive system]					
salivary gl leukemic cell i	infiltration	<50> 0	<50> 1	<50> 0	<50> 0
stomach leukemic cell i	infiltration	<50> 0	<50> 1	<50> 0	<50> 0
small intes leukemic cell i	infiltration	<50> 1	<50> 0	<50> 0	<50> 1
arge intes leukemic cell i	infiltration	<50>	<50> 0	<50> 0	<50> 0
iver leukemic cell i	infiltration	<50> 0	<50> 4	<50> 2	<50> 0
metastasis:sali	ivary gland tumor	0	1	0	0
pancreas leukemic cell i	infiltration	<50> 1	<50> 2	<50> 1	<50> 0
metastasis: Live	er tumor	0	0	2	0
[Urinary system]					
kidney leukemic cell i	infiltration	<50> 0	<50> 3	<50> 0	<50> 0
(a) a: Number of a b b: Number of a	animals examined at the site animals with lesion				
(JPT150)					

ANIMAL

: MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

PAGE: 3 Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 50 50 50 50 Organ Findings_ [Urinary system] kidney <50> <50> ⟨50⟩ <50> metastasis:liver tumor 1 urin bladd <50> <50> <50> <50> leukemic cell infiltration 0 [Endocrine system] pituitary <50> <50> <50> <50> metastasis:bone tumor 0 1 thyroid <50> ⟨50⟩ <50> <50> leukemic cell infiltration 1 [Reproductive system] testis <50> <50> <50> <50> metastasis:liver tumor 0 0 0 epididymis <50> <50> <50> ⟨50⟩ leukemic cell infiltration metastasis: liver tumor 1 0 0 semin ves <50> <50> <50> <50> leukemic cell infiltration 1 0 0 metastasis:liver tumor 0 1 0 prostate <50> <50> <50> <50> leukemic cell infiltration 0 2 [Special sense organs/appendage] Harder gl <50> <50> <50> <50> leukemic cell infiltration 1 0 <a>> a: Number of animals examined at the site b b: Number of animals with lesion

APPENDIX P 2

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1
SEX : MALE

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

Organ		Group Name No. of Animals on Study	Control 17	333 ppm 9	1000 ppm 12	3000 ppm 10
	- 174.					
Integumentar	y system/appandage]					
kin/app	leukemic cell infiltration		<17>	< 9>	<12>	<10>
			·	•	V	V
Respiratory	system]					
lung	leukemic cell infiltration		<17> 0	< 9> 5	<12> 0	<10> 0
	metastasis:liver tumor		2	1	0	0
	metastasis:mediastinum tumor		0	0	. 1	0
Hematopoieti	ic system]					
one marrow	leukemic cell infiltration		<17>	< 9>	<12> 0	<10>
	metastasis:liver tumor		0	0	2	0
pleen	leukemic cell infiltration		<17>	< 9>	<12>	<10>
	metastasis:liver tumor		1	0	3	1
[Circulatory	system]					
neart			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		0	4	0	0
	metastasis:liver tumor		1	0	0	0
	metastasis:mediastinum tumor		0	0	1	. 0
(a) b	a: Number of animals examined at the sib: Number of animals with lesion	te	, , , , , , , , , , , , , , , , , , , ,	118.	// / / / / / / / / / / / / / / / / / /	
(JPT150)						

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

PAGE: 2

STUDY NO. : 0268

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

0rgan		Group Name No. of Animals on Study	Control 17	333 ppm 9	1000 ppm 12	3000 ppm 10
[Digestive sys	tem]					
salivary gl	leukemic cell infiltration		<17> 0	< 9>	<12> 0	<10> 0
stomach	leukemic cell infiltration		<17> 0	< 9>	<12> 0	<10> 0
small intes	leukemic cell infiltration		<17> 1	< 9> 0	<12> 0	<10> 0
large intes	leukemic cell infiltration		<17> 1	< 9>	<12> 0	<10> 0
Liver	leukemic cell infiltration		<17> 0	< 9> 3	<12> 0	<10> 0
pancreas	leukemic cell infiltration		<17> 1	< 9> 1	<12> 0	<10> 0
	metastasis:liver tumor		0	0	1	0
[Urinary syste	om]					
kidney	leukemic cell infiltration		<17> 0	< 9> 3	<12> 0	<10> 0
	metastasis:liver tumor		1	0	0	0
(Endocrine sys	tem]					
pituitary	metastasis:bone tumor		<17> 0	< 9> 0	<12> 0	<10>
thyroid	Leukemic cell infiltration		<17> 0	< 9> 1	<12> 0	<10> 0
(a) b	a: Number of animals examined at the si b: Number of animals with lesion	te				***************************************
(JPT150)						V 911.44

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

Group Name 333 ppm Control 1000 ppm 3000 ppm No. of Animals on Study 17 12 10 Findings_ [Reproductive system] epididymis <17> < 9> <12> <10> leukemic cell infiltration 1 semin ves <17> < 9> <12> <10> leukemic cell infiltration 0 0 prostate <17> < 9> <12> <10> leukemic cell infiltration 0 0 0 [Special sense organs/appendage] Harder gl <17> < 9> <12> <10> leukemic cell infiltration 1 0 0 (a) a: Number of animals examined at the site b b: Number of animals with lesion (JPT150)

BAIS3

APPENDIX P 3

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name No. of Animals on Study	Control 33	333 ppm 41	1000 ppm 38	3000 ppm 40
	West Constitution of the C			, <u>yan</u> cı	· · · · · · · · · · · · · · · · · · ·	
Respiratory :	system]	•				
asal cavit	metastasis:liver tumor		<33> 1	<41> 0	<38> 0	<40> 0
ung	leukemic cell infiltration		<33> 4	<41> 1	<38> 2	<40> 0
	metastasis:liver tumor		1	1	3	0
Hematopoietio	system]					
one marrow	metastasis:liver tumor		<33> 0	<41> 0	<38> 1	<40> 0
vmph node	metastasis:liver tumor		<33> 1	<41> 0	<38>	<40> 0
pleen	leukemic cell infiltration		<33> 1	<41> 3	<38> 1	<40>
	metastasis:liver tumor		1	0	0	0
	metastasis:salivary gland tumor		0	1	0	0
Digestive sys	rtem]					
mall intes	leukemic cell infiltration		<33> 0	<41> 0	<38>	<40>
iver	leukemic cell infiltration		<33> 0	<41> 1	<38> 2	<40> 0
	metastasis:salivary gland tumor		0	1	0	0
ancreas	leukemic cell infiltration		<33> 0	<41> 1	<38> 1	<40> 0
(a) b	a: Number of animals examined at the b: Number of animals with lesion	site				

: MOUSE Cri:BDF1

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

SACRIFICED ANIMALS (105W)

SEX : MALE Group Name Control 333 ppm 1000 ppm 3000 ppm No. of Animals on Study 33 41 38 40

Findings_ [Digestive system] pancreas <33> <41> <38> <40> metastasis:liver tumor [Urinary system] urin bladd <33> <41> ⟨38⟩ <40> leukemic cell infiltration [Reproductive system] testis ⟨33⟩ <41> <38> <40> metastasis:liver tumor 1 0 0 epididymis ⟨33⟩ <41> ⟨38⟩ <40> metastasis:liver tumor 1 0 semin ves <33> (41) <38> <40> leukemic cell infiltration 1 0 0 metastasis:liver tumor 0 0 1 0 <a>> a: Number of animals examined at the site

b b: Number of animals with lesion

(JPT150)

BAIS3

APPENDIX P 4

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

: FEMALE SEX

)rgan		Group Name No. of Animals on Study	Control 20	1500 ppm 21	3000 ppm 18	6000 ppm 10
			THE TANK .			
Integumentary	system/appandage]					
kin/app	leukemic cell infiltration		<20>	<21>	<18>	<10>
ubcutis			<20>	<21>	<18>	<10>
	leukemic cell infiltration		0	1	0	0
	metastasis:uterus tumor		0	1	0	0
Respiratory s	system]					
nasal cavit	Leukemic cell infiltration		<20> 0	<21> 1	<18> 1	<10> 0
ung	leukemic cell infiltration		<20> 8	<21> 9	<18> 10	<10>
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	2	2	1
Hematopoietic	system]					
one marrow	leukemic cell infiltration		<20>	<21> 4	<18> 2	<10>
ymph node	metastasis:uterus tumor		<20> 0	<21> 2	<18>	<10> 0
pleen	leukemic cell infiltration		<20>	<21> 8	<18> 9	<10>
	metastasis:liver tumor		2	0	0	1
	metastasis:uterus tumor		1	3	1	2
a> b	a: Number of animals examined at the si b: Number of animals with lesion	te	7.484.1.			

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

Organ		Group Name No. of Animals on Study	Contral 20	1500 ppm 21	3000 ppm 18	6000 ppm 10

Circulatory	system]					
neart	leukemic cell infiltration		<20> 2	<21> 1	<18> 3	<10> 0
	metastasis:uterus tumor		1	0	0	0
Digestive s	vstem]					
congue	leukemic cell infiltration		<20> 1	<21> 0	<18> 3	<10> 0
saliwary gl	leukemic cell infiltration		<20> 3	<21> 1	<18> 3	<10>
tomach	leukemic cell infiltration		<20> 1	<21> 1	<18> 0	<10> 0
iver	leukemic cell infiltration		<20>	<21>	<18> 9	<10>
	metastasis:uterus tumor		1	5	4	2
all bladd	leukemic cell infiltration		<20> 0	<21> 1	<18> 0	<10> 0
pancreas	leukemic cell infiltration		<20>	<21> 0	<18> 1	<10> 0
	metastasis:peritoneum tumor		1	0	0	0
[Urinary sys	tem]					
cidney.	leukemic cell infiltration		<20> 4	<21> 4	<18>	<10> 2
(a)	a: Number of animals examined at the sib: Number of animals with lesion	te				

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1
SEX : FEMALE

Organ		roup Name To. of Animals on Study	Control 20	1500 ppm 21	3000 ppm 18	6000 ppm 10
					· · · · · · · · · · · · · · · · · · ·	
[Urinary syst	em]					
kidney	metastasis:liver tumor		<20>	<21>	<18>	<10>
	metastasis:uterus tumor		0	2	1	0
rin bladd	leukemic cell infiltration		<20>	<21> 2	<18> 4	<10> 2
(Endocrine sy	stem]					
pituitary	leukemic cell infiltration		<20>	<21> 1	<18> 1	<10> 0
thyroid	leukemic cell infiltration		<20> 0	<21> 0	<18> 1	<10> 0
parathyroid	leukemic cell infiltration		<20> 1	<21> 0	<18>	<10> 0
adrena i.	leukemic cell infiltration		<20> 5	<21> 5	<18> 1	<10> 0
	metastasis:uterus tumor		0	0	1	0
[Reproductive	system]					
ovary	leukemic cell infiltration		<20> 8	<21>	<18> 8	<10>
	metastasis:uterus tumor		0	4	3	2
uterus	leukemic cell infiltration	·	<20>	<21> 6	<18> 8	<10>
(a) b	a: Number of animals examined at the sib: Number of animals with lesion	te				

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

PAGE: 7

DEAD AND MORIBUND ANIMALS (0-105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 20 21 18 10 Findings_ [Reproductive system] vagina <20> <21> <18> <10> leukemic cell infiltration [Nervous system] brain ⟨20⟩ ⟨21⟩ <18> <10> leukemic cell infiltration 2 1 0 metastasis:pituitary tumor 0 0 1 0 spinal cord ⟨20⟩ ⟨21⟩ <18> <10> leukemic cell infiltration [Special sense organs/appendage] Harder gl <20> ⟨21⟩ <18> <10> leukemic cell infiltration 1 0 [Musculoskeletal system] muscle <20> <21> <18> <10> leukemic cell infiltration 0 0 1 1 <a>> a: Number of animals examined at the site b: Number of animals with lesion b (JPT150) BAIS3

APPENDIX P 5

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

ANIMAL

(JPT150)

: MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

PAGE: 4

BAIS3

ALL ANIMALS (0-105W)

Group Name Control 1500 ppm 3000 ppm 6000 ppm No. of Animals on Study 50 50 50 49 Findings [Integumentary system/appandage] skin/app <50> ⟨50⟩ <50> <49> leukemic cell infiltration 1 subcutis <50> <50> <50> <49> leukemic cell infiltration 1 1 0 metastasis:uterus tumor 1 0 0 [Respiratory system] nasal cavit <50> ⟨50⟩ <50> <49> leukemic cell infiltration 1 metastasis:subcutis tumor 1 0 0 0 lung ⟨50⟩ ⟨50⟩ ⟨50⟩ **<49>** leukemic cell infiltration 15 14 14 7 metastasis: Liver tumor 1 0 0 metastasis:uterus tumor 2 2 1 [Hematopoietic system] bone marrow <50> <50> <50> <49> leukemic cell infiltration 2 2 lymph node ⟨50⟩ <50> <50> <49> metastasis:uterus tumor 2 0 spleen <50> <50> <50> <49> leukemic cell infiltration 14 11 11 3 metastasis:liver tumor 2 0 1 (a) a: Number of animals examined at the site b b: Number of animals with lesion

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY) ALL ANIMALS (0-105W) $\,$

ANIMAL : MOUSE Cri:BDF1
REPORT TYPE : A1 SEX : FEMALE

de constant de la con	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
rgan	rindings					st
[Hematopoieti	c system]					
spleen	metastasis:uterus tumor		<50> 1	<50> 4	<50>	<49>
	metastasis:stomach tumor		0	0	1	0
			-	·	•	v
(Circulatory	system]					
heart	leukemic cell infiltration		<50>	<50>	<50>	<49>
			5	· 3	3	0
	metastasis:uterus tumor		1	0	0	0
[Digestive sy	stem]					
tangue			<50>	<50>	<50>	<49>
	leukemic cell infiltration		2	0	3	0
salivary gl	leukemic cell infiltration		<50>	<50>	<50>	<49>
	teurenic cett inittration		9	1	5	1
stomach	leukemic cell infiltration		<50> 4	<50> 1	<50> 0	<49>
	COURCING COLC THITTE ALIGN				U	0
small intes	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<49>
	metastasis:uterus tumor		0	0	0	. 1
1 5						
liver	leukemic cell infiltration		<50> 13	<50> 14	<50> 16	<49> 5
	metastasis:uterus tumor		1	6	4	4
	metastasis:stomach tumor		0	0	1	0
(a)	a: Number of animals examined at b: Number of animals with lesion	the site				

STUDY NO. : 0268 ANIMAL

: MOUSE Crj:BDF1

REPORT TYPE : A1 : FEMALE SEX

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY) ALL ANIMALS (0-105W) $\,$

PAGE: 6 Group Name Control 1500 ppm 3000 ppm 6000 ppm

0rgan	Findings	No. of Animals on Study	50	50 ppm	3000 ppm 50	6000 ppm 49
Digestive sy:	stem]					
gall bladd	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<49> 0
ancreas	leukemic cell infiltration		<50> 8	<50> 1	<50>	<49>
	metastasis:peritoneum tumor		1	0	0	0
Urinary syst	em]					
cidney	leukemic cell infiltration		<50> 8	<50> 8	<50> 3	<49>
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	2	1	0
rin bladd	leukemic cell infiltration		<50> 12	<50> 5	<50> 5	<19> 4
(Endocrine sy:	stem]					
pituitary	leukemic cell infiltration		<50> 1	<50>	<50> 1	<49>
hyroid	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<49>
parathyroid	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<49>
drenal	leukemic cell infiltration		<50>	<50> 6	<50> 1	<49>

(JPT150)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

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

SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
····						·
Endocrine sy	stem]					
adrena l	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<49> 0
Reproductive	e system]					
ovary	leukemic cell infiltration		<50> 11	<50> 10	<50> 8	<49> 5
	metastasis:uterus tumor		1	5	3	4
uterus	leukemic cell infiltration		<50> 10	<50> 7	<50> 8	<49> 2
agina	leukemic cell infiltration		<50> 4	<50> 2	<50> 0	<49> 1
nammary gl	leukemic cell infiltration		<50> 3	<50> 0	<50> 0	<49> 0
Nervous syst	tem]					
xrain	leukemic cell infiltration		<50> 2	<50> 4	<50> 1	<49>
	metastasis:pituitary tumor		0	0	1	0
spinal cord	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<49> 0
[Special sens	se organs/appendage]					
Harder gl	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<49> 0
(a) b	a: Number of animals examined at the si b: Number of animals with lesion	te				
(JPT150)						

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Musculoske	eletal system]					
nuscle	leukemic cell infiltration		<50> 1	<50> 0	<50> 1	<49> 1
a> b	a: Number of animals examined at the s b: Number of animals with lesion	site		97.7.1		
(JPT150)	, 10 mm					

APPENDIX P 6

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

PAGE: 3

rgan		Group Name No. of Animals on Study	Control 30	1500 ppm 29	3000 ppm 32	6000 ppm 39
941,	· manss					
ntegumentar	ry system/appandage]					
cin/app	leukemic cell infiltration		<30>	<29> 0	<32> 0	<39> 0
bcutis	leukemic cell infiltration		<30> 1	<29> 0	<32> 0	<39> 0
Respiratory	system]					
asal cavit	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 0
	metastasis:subcutis tumor		1	0	0	0
ng	leukemic cell infiltration		<30> 7	<29> 5	<32> 4	<39> 6
Hematopojeti	c system]					
one marrow	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 1
pleen	leukemic cell infiltration		<30> 6	<29> 3	<32> 2	<39> 1
	metastasis:uterus tumor		0	1	0	1
	metastasis:stomach tumor		0	0	1	0
Circulatory	system]					
eart	leukemic cell infiltration		<30> 3	<29> 2	<32> 0	<39>
a> b	a: Number of animals examined at the si b: Number of animals with lesion	te				grow does a section.

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE SACRIFICED ANIMALS (105W)

PAGE: 4

Organ		Group Name No. of Animals on Study	Control 30	1500 ppm 29	3000 ppm 32	6000 ppm 39
						· · · · · · · · · · · · · · · · · · ·
[Digestive sy	vstem]					
tongue	leukemic cell infiltration		<30> 1	<29>	<32> 0	<39> 0
alivary gl	leukemic cell infiltration		<30> 6	<29> 0	<32> 2	<39>
stomach	leukemic cell infiltration		<30> 3	<29> 0	<32> 0	<39> 0
small intes	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 0
	metastasis:uterus tumor		0	0	0	1
liver	leukemic cell infiltration		<30> 6	<29> 7	<32> 7	<39> 4
	metastasis:uterus tumor		0	1	0	2
	metastasis:stomach tumor		0	0	1	0
pancreas	leukemic cell infiltration		<30> 4	<29> 1	<32> 0	<39> 1
[Urinary syst	tem]					
kidney	leukemic cell infiltration		<30> 4	<29> 4	<32> 2	<39> 1
urin bladd	leukemic cell infiltration		<30> 5	<29> 3	<32> 1	<39> 2
(Endocrine s	ystem]					
parathyroid	leukemic cell infiltration		<30>	<29> 0	<32> 0	<39> 0
< a > b	a: Number of animals examined at the si b: Number of animals with lesion	te		•		
(JPT150)						

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

STUDY NO. : 0268
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 30	1500 ppm 29	3000 ppm 32	6000 ppm 39
Endocrine sy	vsteml			, , , , , , , , , , , , , , , , , , , ,	1841 454	W
	, J. C.					
idrena l	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 1
Reproductive	e system]					
wary			<30>	<29>	⟨32⟩	⟨39⟩
	leukemic cell infiltration		3	3	0	4
	metastasis:uterus tumor		1	1	0	2
nterus	leukemic cell infiltration		<30>	<29> 1	<32>	<39>
	todamino doce innica acidi				0	1
agina	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 0
nammary gl			<30>	<29>	⟨32⟩	<39>
	leukemic cell infiltration		3	0	0	0
Nervous sys	rtem]					
xain	Indiana and institution		<30>	⟨29⟩	⟨32⟩	<39>
	leukemic cell infiltration		0	1	0	0
Special sens	se organs/appendage]					
larder gl	leukemic cell infiltration		<30>	<29>	⟨32⟩	<39>
	coulomic cott minttration		1	1	0	0
Musculaskele	etal system]					
nuscle	leukemic cell infiltration		<30>	<29>	<32> 0	<39>
(a)	a: Number of animals examined at the sibe: Number of animals with lesion	te				·
(JPT150)	o name of armides with testor					

PAGE: 5

APPENDIX Q 1

IDENTITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

IDENTITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

Test Substance

: Glyoxal (Wako Pure Chemical Industries, LTD.)

A. Lot No.

: CAK4487

1. Spectral data

Mass Spectrometry

Instrument

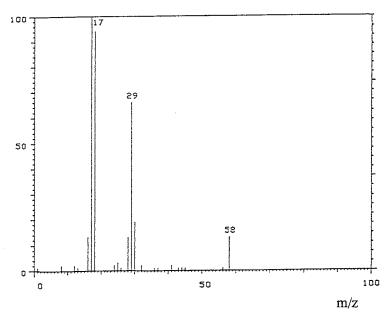
: Hitachi M-80B Mass Spectrometer

Ionization

: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance

Determined Values Fragment Peak (m/z)	<u>Literature Values</u> * Fragment Peak (m/z)
17	17
29	29
58	58

Results: The mass spectrum was consistent with literature spectrum.

(*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base. Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

B. Lot No.

: SKQ5736

1. Spectral data

Mass Spectrometry

Instrument

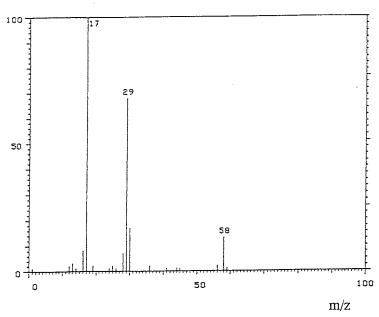
: Hitachi M-80B Mass Spectrometer

Ionization

: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance

Determined Values Fragment Peak (m/z)	<u>Literature Values</u> * Fragment Peak (m/z)
17	17
29	29
58	58

Results: The mass spectrum was consistent with literature spectrum.

(*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base. Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

C. Lot No.

: SKE5515

1. Spectral data

Mass Spectrometry

Instrument

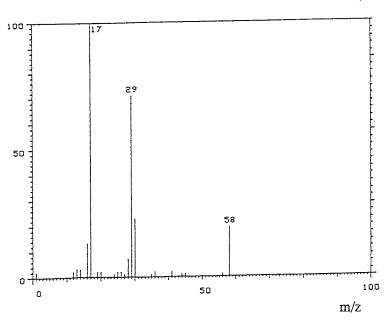
: Hitachi M-80B Mass Spectrometer

Ionization

: EI (Electron Ionization)

Ionization Voltage

: 70eV



Mass Spectrum of Test Substance

Determined Values Fragment Peak (m/z)	Literature Values Fragment Peak (m/z)
17	17
29	29
58	58

Results: The mass spectrum was consistent with literature spectrum.

(*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base. Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

APPENDIX Q 2

STABILITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : Glyoxal (Wako Pure Chemical Industries, LTD.)

A. Lot No. : CAK4487

1. Sample : This lot was used from 1994.9.30 to 1995.8.18. Test substance was stored

in the dark place at room temperature.

2. Gas Chromatography

)

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm ϕ × 25 m)

Column Temperature: 140° C

Flow Rate : 0.7 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First,

50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate

(2 mL) and analyzed.

Date . (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1994.09.05	1 2	1.293 (Solvent Peak) 2.03	100
1995.08.28	1 2	1.292 (Solvent Peak) 2.028	100

^{*} The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1994.9.5 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1995.8.28. No new trace impurity peak in the test substance analyzed at 1995.8.28 was detected.

3. Conclusions: The test substance was stable for about 1 year in the dark place at room temperature.

B. Lot No.

: SKQ5736

1. Sample

: This lot was used from 1995.8.18 to 1996.3.8. Test substance was stored

in the dark place at room temperature.

2. Gas Chromatography

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone (0.2 mm $\phi \times 25$ m)

Column Temperature: 140 °C

Flow Rate

: 0.7 mL/min

Detector

)

: FID (Flame Ionization Detector)

Injection Volume

 $: 1 \mu L$

Pre-Treatment

: Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

Date (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1995.08.15	1 2	1.227 (Solvent Peak) 2.055	100
1996.03.15	1 2	1.227 (Solvent Peak) 2.055	100

^{*} The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1995.8.15 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.3.15. No new trace impurity peak in the test substance analyzed at 1996.3.15 was detected.

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

C. Lot No.

: SKE5515

1. Sample

: This lot was used from 1996.3.8 to 1996.10.4. Test substance was stored

in the dark place at room temperature.

2. Gas Chromatography

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone (0.2 mm $\phi \times 25$ m)

Column Temperature : 140 ° C

Flow Rate

: 0.7 mL/min

Detector

)

: FID (Flame Ionization Detector)

Injection Volume

 $: 1 \mu L$

Pre-Treatment

: Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02mL), 36% hydrochloric acid (0.1mL), 4% o-phenylene diamine dihydrochloride (0.05mL) were added to a glyoxal solution (1mL). This mixture was stirred at 75°C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2mL) and analyzed.

Date (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1996.02.13	1	1.207 (Solvent Peak)	
	2	2.008	100
1996.10.15	1	1.207 (Solvent Peak)	
	2	2.01	100

^{*} The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.2.13 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.10.15. No new trace impurity peak in the test substance analyzed at 1996.10.15 was detected.

3. Conclusions: The test substance was stable for about 8 months in the dark place at room temperature.

APPENDIX R 1

CONCENTMOUSEION OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

CONCENTRATION OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY:

Target Concentration					
Date Analyzed	333ª	1000	1500	3000	6000
1994.12.02	341 (102.4) ^b	1038 (103.8)	1567 (104.5)	3134 (104.5)	6208 (103.5)
1995.02.17	358 (107.5)	1004 (100.4)	1680 (112.0)	3487 (116.2)	7050 (117.5)
1995.05.23	347 (104.2)	1069 (106.9)	1444 (96.3)	3041 (101.4)	6023 (100.4)
1995.08.15	359 (107.8)	1050 (105.0)	1607 (107.1)	3252 (108.4)	6443 (107.4)
1995.11.07	350 (105.1)	1050 (105.0)	1577 (105.1)	3153 (105.1)	6307 (105.1)
1996.01.30	358 (107.5)	1072 (107.2)	1611 (107.4)	3238 (107.9)	6430 (107.2)
1996.04.23	366 (109.9)	1067 (106.7)	1605 (107.0)	3256 (108.5)	6358 (106.0)
1996.07.16	328 (98.5)	1003 (100.3)	1582 (105.5)	3134 (104.5)	6327 (105.5)

^a ppm

b %

Analytical method: The samples were analyzed by the GC.

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Methyl Silicone (0.2 mm $\phi \times 25$ m)

Flow Rate

: 0.7 mL/min

Column Temperature: 140 °C Injection Volume : 1 uL

Detector : FID (Flame Ionization Detector)

Pre-Treatment: Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

APPENDIX R 2 STABILITY OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

		Target Concer	ntration
Date Prepared	Date Analyzed	333 ^a	6000
1994.08.29ª	1994.08.29	329 (100) ^b	6304 (100)
	1994.09.02 ^c	343 (104.3)	6092 (96.6)
	1994.09.06°	323 (98.2)	5957 (94.5)

		Target Conce	ntration
Date Prepared	Date Analyzed	333ª	6000
1994.12.02ª	1994.12.02	341 (100) ^b	6208 (100)
	1994.12.16°	298 (87.4)	6278 (101.1)

ppm

Analytical method

: The samples were analyzed by the GC.

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: Hewlett Packard 3890A Gas Chromatograp. : Methyl Silicone (0.2 mm $\phi \times 25$ m)

Flow Rate : 0.7 mL/min

Column Temperature: 140 °C Injection Volume : 1 μL

Detector : FID (Flame Ionization Detector)

Pre-Treatment

: Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

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

^c Animal room samples

APPENDIX S 1

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS IN THE 2-YEAR DRINKING WATER STUDY OF GLYOXAL

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS IN THE 2-YEAR DRINKING WATER STUDY OF GLYOXAL

Item	Method	
Hematology		
Red blood cell (RBC)	Light scattering method 1)	
Hemoglobin (Hgb)	Cyanmethemoglobin method 1)	
Hematocrit (Hct)	Calculated as RBC × MCV/10 1)	
Mean corpuscular volume (MCV)	Light scattering method 1)	
Mean corpuscular hemoglobin (MCH)	Calculated as Hgb/RBC × 10 1)	
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as Hgb/Hct × 100 1)	
Platelet	Light scattering method 1)	
White blood cell (WBC)	Light scattering method 1)	
Differential WBC	Pattern recognition method 2)	
	(May-Grunwald-Giemsa staining)	
Biochemistry		
Total protein (TP)	Biuret method 3)	
Albumin (Alb)	BCG method 3)	
A/G ratio	Calculated as Alb/(TP-Alb) 3)	
T-bilirubin	Alkaline azobilirubin method 3)	
Glucose	Enzymatic method (GLK·G-6-PDH) 3)	
T-cholesterol	Enzymatic method (CE·COD·POD) 3)	
Triglyceride	Enzymatic method (LPL·GK·GPO·POD) 3)	
Glutamic oxaloacetic transaminase (GOT)	UV•Rate method 3)	
Glutamic pyruvic transaminase (GPT)	UV•Rate method 3)	
Lactate dehydrogenase (LDH)	UV•Rate method 3)	
Alkaline phosphatase (ALP)	p-Nitrophenylphosphate method 3)	
Creatine phosphokinase (CPK)	UV•Rate method 3)	
Urea nitrogen	Enzymatic method (Urease · GLDH) 3)	
Sodium	Ion selective electrode method 3)	
Potassium	Ion selective electrode method 3)	
Chloride	Ion selective electrode method 3)	
Calcium	OCPC method 3)	
Inorganic phosphorus	Enzymatic method (PNP·XOD·POD) 3)	
Urinalysis		
pH,Protein,Glucose,Ketone body,Occult blood,	Urinalysis reagent paper method 4)	
Urobilinogen		

- 1) Automatic blood cell analyzer (Technicon H·1: Technicon Instruments Corporation, USA)
- 2) Automatic blood cell differential analyzer (Hitachi 8200: Hitachi, Ltd., Japan)
- 3) Automatic analyzer (Hitachi 7070: Hitachi, Ltd., Japan)
- 4) Ames reagent strips for urinalysis (Uro-Labstix: Bayer-Sankyo Co.,Ltd.,Japan)

APPENDIX S 2

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF GLYOXAL

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF GLYOXAL

Item	Unit	Decimal place
Hematology		
Red blood cell (RBC)	×10 ⁶ /μL	2
Hemoglobin	g/dL	1
Hematocrit	%	1
Mean corpuscular volume (MCV)	fL	1
Mean corpuscular hemoglobin (MCH)	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	g/dL	1
Platelet	$\times 10^3/\mu L$	0
White blood cell (WBC)	$\times 10^3/\mu L$	2
Differential WBC	%	0
Biochemistry		
Total protein	g/dL	1
Albumin	g/dL	1
A/G ratio		1
T-bilirubin	mg/dL	2
Glucose	mg/dL	0
T-cholesterol	mg/dL	0
Triglyceride	mg/dL	0
Glutamic oxaloacetic transminase (GOT)	IU/L	0
Glutamic pyruvic transaminase (GPT)	IU/L	0
Lactate dehydrogenase (LDH)	IU/L	0
Alkaline phosphatase (ALP)	IU/L	0
Creatine phosphokinase (CPK)	IU/L	0
Urea nitrogen	mg/dL	1
Sodium	mEq/L	0
Potassium	mEq/L	1
Chloride	mEq/L	0
Calcium	mg/dL	1
Inorganic phosphorus	mg/dL	1