アクリル酸=2 - ヒドロキシエチルのマウスを用いた 経口投与によるがん原性試験(混水試験)報告書

試験番号:0348

APPENDIX

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APPENDIX A 1

CLINICAL OBSERVATION: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0348 CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ZATII	Control 1	^	^	0	•	0	•		•			•	•		
EATH	Control 750 ppm	0	0	0 1	0	0	0	0	0	0	0	0	0	0	0
	750 ppm 1500 ppm		0	0	1 0	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0 0	0	0	0	0 0	0	1	1	1	1
	эооо ррш	U	U	U	U	U	U	U	U	U	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	Ŏ	0	0	0 .	Ö	ő	Ö	0	0	Ö	0	0	0	0
	1500 ppm	0	0	0	0	0	Ö	0	Ö	ŏ	0	0	0	0	0
	3000 ppm	ō	o	0	Ö	0	ő	ō	0	0	Ö	Ö	0	ő	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHOIDHOR TODITION	750 բթո	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	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jood ppm	V	V	U	U	U	U	U	U	U	U	U	U	U	U
TAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	ō	0	ō
	1500 ppm	0	Ó	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
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	Ö	0	Ö	ŏ	ŏ	0
	1500 ppm	0	0	Ö	0	0	0	0	0	Ö	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	ō	ŏ	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	1	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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration V	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
ATH	Cantual	0	0	0	0	0	0	0	0	0	0	0			0
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	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
RIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	Ó	0	0	- 0	0	0	0	0	0	0	0	0	0	0
COMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
	750 ppm	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
NCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
AXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
RALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
STING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	0	Ö	Ö	ő
	3000 ppm	0	Ö	ō	0	ō	0	ō	0	o	0	0	o ·	Ö	ő
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	Ō	0	0	ō	Õ
	1500 ppm	0	Ö	Ö	0	0	0	0	ő	0	Ö	0	0	0	0
	3000 ppm	0	Ö	0	0	ů	0	ů	0	Ő	0	0	ŏ	0	0

STUDY NO. : 0348

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
NR 4771			•		•	_				_					
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	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
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	Ô	ō	0
TAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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	Ō	0	1	0	0	0	ō	0	Ö	Ö	0	ō	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	Ö	Ö	Ö	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ô	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
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
· ·	750 ppm	0	ő	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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1332311011	750 ppm	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	0	0
	ilidd oooe	v	v	1	U	U	v	v	v	U	U	v	U	U	U

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEY - MALE

SEX : MALE			PAGE :	4
Clinical cign	Group Nama	Administration Week-day		_

Clinical sign	Group Name	Admini	stration W	eek-dav											
	~···	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
EATII	Control	0	0	0	0	0	0	0	0	0	0	0	0 .	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- 750 ppm	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
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
INCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	1	1	0	0	0
TAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	Ö	Ô	Ŏ	0	0	0	Ö	Ö	0	0	0
	3000 ppm	0	0	0	0	Õ	0	ő	ō	0	Ö	ő	o	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	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	Õ
	3000 ppm	0	0	0	ō	ō	o	1	1	1	1	1	ō	ő	0
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	Õ	Õ	Ö
	1500 ppm	0	Ō	0	Ö	Ō	Õ	Ŏ	ŏ	0	0	Ő	0	0	0
	3000 ppm	0	0	0	0	0	1	1	1	1	1	1	0	Ö	0

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

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	istration W	eek-day											
	or or mino	57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
											***************************************		·		
DEATH	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	2	2	2	2	2	3	3	3	3	3
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	3000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	3	3
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 րբա	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
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
JUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0 .	0	0	0	0	0	0
	750 ppm	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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

linical sign	Group Name	Admini	istration W	eek-day											
-	-	71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
ATII	Control	1	1	1	1	1	2	2	2	3	3	3	3	4	4
	750 ppm	3	3	3	3	3	3	3	4	4	4	4	4	4	4
	1500 ppm	2	2	2	3	3	4	4	4	$\hat{4}$	4	4	4	4	5
	3000 ppm	3	3	3	4	4	4	4	5	5	5	5	5	6	6
RIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Some total motification	750 ppm	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	0	0		0	0	0
	3000 ppm	υ	U	υ	U	U	0	0	0	0	0	0	0	0	0
NCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	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
AXIC GAIT	Control	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
	750 ppm	0	Õ	0	Ö	0	0	0	ő	ő	0	Ů	0	0	0
	1500 ppm	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	ŏ	0	0	0	ő	0	0	0	0	0	0	0	0	0
MINTO CLIT	G . 1	•	^	•	•	•	_	_	_	_		_	_		
RALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	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
STING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ŏ	0
	1500 ppm	0	0	0	ő	Ö	Ŏ	ő	ő	Ö	0	0	0	0	0
	3000 ppm	0	ő	Ö	Ö	ő	ŏ	ŏ	0	ő	0	0	0	0	0
OERECTION	C4 1	0	^	0	0	0	0			•	•	•	•	•	_
EOEREO I ION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	1
	1500 ppm	0	0	0	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALL ANIMALS

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1 REPORT TYPE: A1 104

SEX : MALE PAGE: 7

Clinical sign	Group Name	Admini	stration W	eek-day _							_				
		84-7	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
DEATH	Control	4	4	4	5	5	5	5	5	5	6	6	6	6	6
	750 ppm	4	4	5	6	6	6	6	9	9	9	9	9	10	11
	1500 ppm	5	5	5	5	5	5	5	5	5	5	6	6	6	6
	3000 ppm	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	оооо ррш	•	v	v	J	· ·	v	v	v	v	Ū	Ū	O	v	U
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	î	1	1
	1500 ppm	0	Ô	0	0	1	1	1	1	1	1	1	1	2	2
	3000 ppm	0	0	0	0	Õ	0	0	ō	Ô	0	0	Ô	0	0
	oooo ppm	•	•	•	•	•	•	v	•	v	Ū	v	v	v	
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	Ō	0	Ō	Ô	0	Ö	o O	Ö	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	Õ	1	ő
	3000 ppm	Ö	0	Ö	Ŏ	ō	0	0	0	0	0	0	0	Ô	0
	vvvv pp	•	•		·	v	· ·	·	•	Ü	•	•	v	v	
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	Ö	0	0	0	0	0	0	0 -	Ö	0	Õ	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Õ	0	ő
	3000 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
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ
	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	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	ő
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ō	0	ō
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	Ō	ō	0
ILOERECTION	Control	0	1	1	1	0	0	1	1	1	1	0	0	0	1
	750 ppm	1	2	1	0	0	0	1	0	0	0	0	0	1	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admin	istration '	Week-day _				
•	<u>-</u>	98-7	99-7	100-7	101-7	102-7	103-7	104-7
DEATII	Control	6	6	8	8	11	12	12
DERTH	750 ppm	13	13	13	13	13	13	13
			7					
	1500 ppm	7		7	7	7	8	10
	3000 ppm	6	6	6	6	6	6	7
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1
	750 թթա	1	1	1	1	1	1	1
	1500 ppm	2	2	2	2	2	2	2
	3000 ppm	0	0	0	0	0	0	0
LOCOMOTOR MOMENTAIN PROP	C . 1	^	^	^	^	^	^	•
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0
VIII.	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0
	750 ррт	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0
	750 ppm	0	0	o O	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	1900 ppm 3000 ppm	0	0	0	0	0	0	0
	ado phii	v	U	v	U	U	U	U
PILOERECTION	Control	1	1	1	2	0	0	0
	750 ppm	0	0	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	0

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		1-7	2-7	3-7	4-7	5-7	6-7	7–7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EXOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
	-	15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EXOPIITIIALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բջտ	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
ACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

Clinical sign	Group Name	Admini	istration V	Wook-day											
offitted Sign	oroup Name	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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

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	
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	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	
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750	۸	۸	Λ	Δ.		^	^	^	^	^	^	^	^	^	

FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TROG DEDET	750 թթտ	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	-	•	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3000 քիա	V	U	U	U .		U	U	U	U	U	U	U	U	U	
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	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	
EXOPITIIALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAVI III MADINOS	750 ppm	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	1	1	1	1	1	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	oooo ppm	Ů	v	v	v	V	V	V	Ü	v	U	U	V	V	V	
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	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	
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	0	0	0	0	0	Ö	Ö	o O	0	0	Ö	0	ů 0	ő	
	1500 ppm	0	Ō	0	0	0	Ö	0	0	Ö	0	0	0	0	Ő	
	3000 ppm	0	0	0	0	0	Ö	Ö	Ŏ	0	0	0	0	0	Ŏ	
	P. P			•	•	·	·	v	·	v	v	Ů	v	v	v	
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	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	
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	750 ppm	0	0	0	0	0	0	0	0	Ö	0	0	Ö	0	0	
	1500 ppm	0	0	0	0	0	0	0	Ö	Ö	Ö	Ö	Ö	Ö	Ö	
	3000 ppm	0	0	0	0	0	0	0	0	0	Ö	0	ō	0	ō	
EXTERNAL MASS	Control	0	0	0	0	0	0	0	٥	^	0	0	0	•	^	
DUDING TUNDO	750 բթա	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	
	1500 ppm	1	1	1	1	1	1	0	1	0 1	1	1	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3000 ppili	v	U	U	U	U	U	U	U	U	U .	U	U	U	U	

(HAN190)

STUDY NO. : 0348 CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

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
FROG BELLY	Control	0	0	. 0	0	0	0	0	0	0	0	0	0	0 -	0
	750 ppm	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
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
XOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	3	3	3	3	3	3	3	3	3	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U M	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	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	1	1	1
	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
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	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
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	1	1	1	1	1	1	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	i	1	1
	3000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	Õ	Õ

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

SEX : MALE		PAG	GE: 14
Clinical sign	Group Name	Administration Week-day	

Clinical sign	Group Name	Admini	istration W	leek-day											
	· 	71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOO BIBBI	750 ppm	0	0	0	0	0	0	1	1	1	1	1	1	2	1
	1500 ppm	0	0	0	0	Ö	0	0	0	Ô	0	0	0	0	0
	3000 ppm	ő	ŏ	0	ő	o	ő	ő	ő	o	0	0	0	0	0
OILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
XOPHTHALMOS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	750 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	3	0	3	3	3	3	3	3	3	3	3	3	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACRYMATION	Control	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	750 ppm	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
UM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթտ	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	0	1
	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
	750 թթա	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	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
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	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
XTERNAL MASS	Control	1	0	1	1	1	1	1	1	1	1	1	1	1	2
	750 руш	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	1500 ppm	1	0	1	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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
		84-7	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
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	0	0	0	0	0	1	2	2	2	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
DILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	. 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	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPIITHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբտ	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
UM	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	750 բթա	1	1	1	1	1	1	1	0	0	0	1	1	1	1
	1500 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	0	0	0	0	0
YE OPACITY	Control	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	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
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	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
XTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	1	2	2	2
	750 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	0
	1500 ppm	1	1	1	1	1	1	1	1	2	3	2	2	2	2
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348 CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE PAGE: 16

Clinical sign	Group Name	Admini	stration '	Week-dav				
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
FROG BELLY	Control	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	1	1	1
	3000 ppm	0	0	0	. 0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0
	750 թթա	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	ō
EXOPIITIIALMOS	Control	1	1	1	1	1	1	1
THE THE THE THE TANK AND THE	750 ppm	1	1	1	ī	1	ī	1
	1500 ppm	4	4	4	4	4	4	2
	3000 ppm	0	0	0	0	0	0	0
	5000 ppni	U	U	U	U	U	U	U
LACRYMATION	Control	0	0	0	0	0	0	0
	750 բբա	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	1
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	0
	3000 ppm	ō	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	٥	0
COMMEND OFFICIAL		0			0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	1	1	1
	750 թթտ	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

ODN - MILDS															IAGE
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
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	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
. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
I. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թբա	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	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
DEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

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
NTERNAL MASS	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1500 ppm	1	1	1	1	1	1	2	2	2	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	Ō	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
. IIINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
DEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	ō	Õ	0	0	0	Õ	Ŏ	Ô	Ö	Ö	Ö	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

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
NTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 թթա	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	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
EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	- 0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 րթա	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
.HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
DEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

Control

750 ppm

1500 ppm

3000 ppm

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration \	Week-day _											
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	1500 ppm	1	1	1	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
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	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
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթա	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
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	Ō	0	Ō	Ō	0	Ö	Ö	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	Õ	0	Ŏ	Ö	0	Ŏ	0	0	0	0	Ö
	1500 ppm	0	0	ő	0	0	ő	ŏ	Ö	ő	0	0	Ő	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANEMIA

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	istration 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
NTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	750 ppm	2	2	2	2	1	1	1	1	1	1	2	2	2	2
	1500 ppm	1	1	1	1	1	1	1	1	2	2	2	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAR .	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	1	1	1	1	1	1	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
.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	1	1	1	1	1	1	0	0
DEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77–7	78–7	79-7	80-7	81-7	82-7	83-7
WEETHER MAGE	0 . 1	•	0	•		^			۰	•					
INTERNAL MASS	Control	3	0	2	2	2	1	3	3	3	1	1	1	1	1
	750 ppm	3	0	4	4	4	4	4	3	3	3	3	3	4	4
	1500 ppm	1	0	1 0	1 0	1 0	1 °	1 0	1 0	2 0	1 0	0	1 0	1 0	0
	3000 ppm	0	U	Ū	U	U	U	U	U	U	U	U	U	O	U
. EAR	Control	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	ō	0	Õ	Õ	0	ō	0	0	Õ	Õ	Õ	ō
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	Õ	Ô	Õ	Õ	Õ	0	0	0	ō
	pp	·	•	•	·	•	•	•	•	•		•	•	·	•
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	750 ppm	0	0	0	1	1	1	1	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
A. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	ō	Ö	0	ō	ō	0	0	0	0	0	o	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
u. Visiti IIIIIIII	750 ppm	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
	2000 ինկլ	U	U	U	v	U	U	υ	U	v	U	v	U	U	U
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	750 ppm	0	0	Ö	Õ	0	0	Ŏ	0	0	0	0	0	0	0
	1500 ppm	0	Õ	0	0	0	0	ŏ	0	0	Ö	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	Ö	0	1	o o	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
		84-7	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
NTERNAL MASS	Control	1	1	2	1	1	1	4	1	1	1	2	2	4	3
	750 բբա	4	4	3	2	3	4	4	3	3	3	3	3	2	2
	1500 ppm	1	1	2	2	1	2	2	2	2	2	2	2	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
EAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 թթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	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
NECK	Control	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	750 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	750 ppm	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
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	Ō	Ö	Ö	ō
	3000 ppm	0	0	0	0	0	0	0	0	ō	ō	0	0	Ō	0
DEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	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	Ō	0	0	0	0	ō	ō	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	Ō	Õ	Ö	Ŏ	Ö	0	0	0	0	0	0	Ö	ő
	3000 ppm	0	Õ	0	ů	ő	Ŏ	0	Ŏ	0	ŏ	Ŏ	Ő	ő	Ŏ

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration	Week-day _					
-		98-7	99-7	100-7	101-7	102-7	103-7	104-7	
					•				
INTERNAL MASS	Control	3	4	、7	7	6	5	5	
	750 ppm	2	2	2	2	2	2	2	
	1500 ppm	3	4	6	6	6	5	5	
	3000 ppm	1	1	2	2	2	2	2	
W DAD									
M. EAR	Control	1	1	1	1	0	0	0	
	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	1	1	1	1	1	1	1	
	3000 ppm	0	0	0	0	0	0	0	
M. NECK	Control	0	0	0	0	0	0	0	
	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	
M. ABDOMEN	Control	1	1	1	1	1	1	1	
m. ADDOMEN	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	
	5000 ppin	V	V	v	v	v	V	O	
M. HINDLIMB	Control	0	0	0	0	0	0	0	
	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	
M. GENITALIA	Control	0	0	0	0	0	0	0	
W. OPKI INDIA	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	0	
	SOUO PPIII	v	U	U	U	U	U	U	
EDEMA	Control	0	0	0	0	0	0	0	
	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	1	0	
	3000 ppm	0	0	0	0	0	0	0	
ANEMIA	Control	0	0	0	0	0	0	0	
ALIMANIA	750 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	3000 ppm	0	0	0	0	0	0	ő	
	оосо ррш	•	v	v	v	•	v	•	

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

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Clinical sign	Group Name		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
III CED	Control	٥	0	0	0	0	0	٥	0	0	^	^	^	^	0
ULCER	Control	0	0	0	0	0 0	0	0	0	0 0	0 0	0	0	0	0
	750 ppm	-	-								-	-	•	0	0
	1500 ppm	0	0	0 0	0	0	0 0	0	0 0	0 0	0 0	0	0	0 0	0
	3000 ppm	U	U	U	U	U	V	U	U	U	Ū	U	U	U	U
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթո	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
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMBOOMN BREATHING	750 թթա	0	0	0	0	Ö	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	ő	0	0	0	0	0	0	Ô	0	0	0	0	0	0
	0000 pp	·	· ·	·	v	·	·	·	v	v	Ů	ŭ	v	·	v
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0,	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	o	0	0	0	0	0	0	Ō	0	0	0	0	Ō
	3000 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
	750 ppm	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	Ô	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	ō	ő	0	o	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IMPORTED REDITION DOORD	750 ppm	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 oooe	U	, ,	U	U	v	V	U	U	U	U	U	U	U	U

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO.: 0348

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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ррш	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 ррш	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
	750 թբա	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
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	Ŏ	Ö	0	0	ő	Ŏ	0	0	0	0	0	0	0	o
	1500 ppm	Ö	Ö	Ö	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	ő	ō	0	0	Ö	0	ő	0	0	0	0	0	0
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	Ô	0	0	ő	Ö	o o	Ö	ő	0	0	0	0	0
	1500 ppm	0	Ö	0	Ö	Ö	0	0	0	Ö	0	0	0	0	0
	3000 ppm	0	ō	0	0	ō	o	0	o	0	0	0	0	0	0
BNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
THE LINE WOULD	750 ppm	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

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
JLCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	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
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name		stration W												
		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
LCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ррш	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
	750 բբա	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
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	istration W	eek-day _											
-	<u>-</u>	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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 րթա	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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ррш	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
	750 բջա	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
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 բթա	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
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	ō	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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day											
	-	71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
JLCER	Control	0	0	0	0	0	0	0	0	0	0	, 0	0	0	0
	750 բբա	0	0	0	0	0	0	0	0	0	0	O	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
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթտ	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
ORTICOLLIS	Control	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	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
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
BNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	stration W	leek-day											
	-	84-7	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
ILCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թբա	0	0	0	0	0	0	1	1	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
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	750 ppm	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
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	1	2	2
	750 ppm	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
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	1
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	ō	0	0
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	750 ppm	0	Ŏ	0	0	0	0	0	0	Ö	1	1	1	2	1
	1500 ppm	0	0	0	0	1	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	ō	0	0	0	0	0	Ö	ō	0	Ô
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	Ô	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3000 ppm	Ŏ	0	Ö	0	0	0	ő	ő	ō	o	0	0	0	0
BNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	750 ppm	0	0	0	0	ō	0	0	0	0	0	Õ	Ö	0	0
	1500 ppm	0	0	0	0	ő	0	0	0	Ö	Ö	0	Õ	0	ő
	3000 ppm	0	0	Ô	Ö	0	0	Õ	Ŏ	Õ	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : MALE

Clinical sign	Group Name	Admini	istration !	Week-day				
orimour bigh	or oup Trains	98-7	99-7	100-7	101-7	102-7	103-7	104-7
ULCER	Control	0	0	0	0	0	0	0
SHOBR	750 ppm	0	0	0	0	0	0	Ö
	1500 ppm	0	0	0	ő	ő	0	Ö
	3000 ppm	0	0	Ö	ő	ő	Ö	0
	OUOU ppiii	•	•	•	·	·	•	•
CRUSTA	Control	2	2	2	2	2	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0
TORTICOLLIS	Control	2	2	2	2	1	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	1	1	0	0	0 -
INDOORIN BREATHENO	750 ppm	ő	0	Ô	Ô	0	Ō	Õ
	1500 ppm	0	0	0	Ö	0	0	ő
	3000 ppm	0	0	0	0	0	0	1
	ovov ppm	•	v	·	v	·	·	•
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1
(DIODIGA) DECEMBER OF	0 . 1	•	•	•		•	•	•
ABNORMAL RESPIRATION	Control	0	1	1	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1
BRADYPNEA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	Ō	Ō	0	0	0	0
	3000 ppm	Ö	ō	ō	0	0	0	0
	Ffm	•	•	•	-	-	-	-
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0 0	0 0	0	0	0	0	0
	3000 ppm			0 -	0	0	0	1

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : MALE

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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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	1	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
LIGO-STOOL	Control	0	1	0	1	0	0	0	0	0	0	0	0 .	0	0
	750 բբա	0	1	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	0	0	0	1	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
	750 թթտ	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

(HAN190) BAIS 3

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	eek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SMALL STOOL	Control	0	0	0 .	0	0	0	0	0	0	0	0	0	0	0
	750 բբա	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
LIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	1	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

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ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	eek-day											
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
LIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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	0	0
UBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

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ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admini	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
				1.0										·	
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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
LIGO-STOOL	Control	0	0	1	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
SUBNORMAL TEMP	Control	0	0.	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	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

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ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	1	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
DLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթտ	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	2	0	0	0	1	0	0	0	0
	3000 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
	750 ppm	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

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

PAGE: 38 SEX : MALE

Clinical sign	Group Name	Admini	istration W	eek-day _											
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	. 0	0	0	1	0
	3000 ррт	0	0	0	0	0	0	1	0	0	0	0	1	0	0
DLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	750 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	1	1	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 թթտ	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

(HAN190) BAIS 3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

PAGE: 39 SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
		84-7	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
						• ·									
SMALL STOOL	Control	0	0	1	0	0	0	1	1	1	1	0	0	0	1
	750 ppm	0	1	1	0	0	- 0	1	1	1	0	0	0	1	0
	1500 ppm	0	0	0	0	0	0	1	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DLIGO-STOOL	Control	0	0	0	0	0	0	1	1	1	1	0	1	1	2
	750 թթա	0	1	0	0	0	1	2	1	2	0	. 1	1	0	0
	1500 ppm	0	1	2	1	1	1	1	0	1	1	0	1	2	1
	3000 ppm	0	1	1	1	0	0	0	0	0	0	0	0	1	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	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

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ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admin	istration V	Veek-day _				
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
SMALL STOOL	Control	1	1	1	2	0	0	0
	750 ppm	0	0	0	0	0	0	1
	1500 ppm	0	0	1	0	0	0	0
	3000 ppm	0	0	0	0	0	1	0
OLIGO-STOOL	Control	3	3	2	2	0	0	0
	750 թբա	0	1	1	1	1	1	2
	1500 ppm	0	0	4	2	1	1	0
	3000 ppm	0	0	0	0	0	0	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0

(HAN190)

APPENDIX A 2

CLINICAL OBSERVATION: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
	OTOUP Trains	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
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 բթա	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
	4500 ppm	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0 -	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	Ó	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED	Control	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	'eek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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	Ö	Õ	o o
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	Ö	Õ	0	Ö	0	0	Ö	0	0	0	0	Ö	Ö	0
	4500 ppm	0	0	o o	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day		·									
	-	29-7	30-7	31-7	32-7	33-7	347	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
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 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
	500 ppm	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
	4500 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
	500 ррт	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
	4500 ppm	Ó	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0.	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

500 ppm

1500 ppm

4500 ppm

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admin	istration 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
DEATII	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DENTIL	500 ppm	0	. 0	Ô	Ô	0	0	0	0	0	0	0	0	0	1
	1500 ppm	0	0	Ö	0	0	0	0	0	0	0	0	. 0	0	Ô
	4500 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
	500 ppm	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
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IONCHIDACK TOSTITON	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	P F	-	-	-			-	-			-	-	-	-	-
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0
	1500 ppm	ő	Ö	Õ	ŏ	ő	Ŏ	ő	0	Õ	0	0	0	Ö	0
	4500 ppm	0	0	0	0	0	0	0	Ö	0	Ö	Ŏ	0	Ŏ	Ō
WASTING	Comtw-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NIT LOVII	Control	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	U	•	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	U	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			_		_	_			_		_	_		_	_

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

~1															
Clinical sign	Group Name	Admini 57-7	stration W 58-7	eek-day 59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		51-1	58-1	59-1		61-1	02-1	03-1	64-1	05-1			1-80	69-7	70-1
ND 4771															
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	500 ppm	1	1	1	1	1	1	1	1	2	2	3	3	3	3
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	2
ORIBUND SACRIFICE	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	500 բթա	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
	4500 ppm	1	1	1	1	i	1	1	1	1	1	1	1	1	1
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLIBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 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
	500 թթա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	. 4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
T-4001	a . 1				0	0	0		٥	4		-	_	_	-
DEATII	Control	2	3	3	3	3	3	3	3	4	4	5	5	5	5
	500 բբա	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	1500 ppm	1	1	1	1	. 1	1	1	1	1	1	1	2	2	2
	4500 ppm	2	3	3	3	3	3	3	3	3	4	4	4	4	4
ORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1500 ppm	0	0	0	0	• 0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0 .	0	0	0	0	0
PARALYTIC GAIT	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	Õ	0	Ŏ	Õ	0	0	Ů.	Ö	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0
	4500 ppm	0	0	0	0	ő	0	Ö	ő	0	ő	0	ő	0	0
VASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	Õ	0	0	0	Ö	ő
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	o	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
><1000	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-dav											
		84-7	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
		_		_											
EATII	Control	5	5	5	6	7	7	7	7	7	8	9	9	9	9
	500 ppm	5	6	6	6	6	7	8	9	11	11	12	14	15	17
	1500 ppm	2	2	3	3	5	6	6	7	8	8	9	10	10	12
	4500 ppm	5	5	5	5	6	6	7	7	8	8	8	9	9	9
RIBUND SACRIFICE	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	500 ррш	1	1	1	2	2	2	2	2	2	3	3	3	3	3
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	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
• •	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INCLIBACK POSITION	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	1	1	0	0	0	1	0	0	1	0
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
ARALYTIC GAIT	Control	0	0	0	.0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	. 0	0	0	0	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	ō	0	0
STING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	ō	0	0	0	0	0	0	Ö	0
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	0	0	0	0	0	0	0	0	0	ō	0	0	ō	o
	1500 ppm	0	0	0	0	0	0	0	0	Ő	Õ	0	í	1	0
*	4500 ppm	0	0	0	0	0	0	0	0	0	Ö	1	0	Õ	o O

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	istration V	Week-day				
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	10	11	10	10	1.4	1.0	16
DEATH	Control	10	11	13	13	14	16	16
	500 ppm	17	17	18	19	21	21	22
	1500 ppm	12	14	15	17	18	18	18
	4500 ppm	9	10	10	11	11	12	12
MORIBUND SACRIFICE	Control	2	2	3	3	3	3	3
	500 ppm	3	4	4	4	4	4	4
	1500 ppm	1	2	2	3	4	4	4
	4500 ppm	1	1	1	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	i	0	0	0	0
DOCOMOTOR MOTEMBERT DEOR	500 ppm	0	0	0	0	0	1	0
	1500 ppm							
		0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	1	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0
nimio unii			0	0				
	500 ppm	0			0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	1
	500 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0
1110	500 ppm	0	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
	* *							

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

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
		_	_												
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	4500 ppm	1	0	2	0	0	0	0	0	0	0	0	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 րրտ	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 բթա	0	0	0	0	0	0	ō	ō	0	0	ő	Õ	Ŏ	ŏ
	1500 ppm	0	0	0	0	0	0	Ö	ő	ő	Ő	Ő	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	0	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	Õ	0	Ö	ō	Õ	0	0	0	0.	0
	1500 ppm	0	0	Ö	Ö	Ö	0	0	Ő	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	ō	o	o	0	0	ō	Ö	Ö	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	Ö	0	Õ	0	Ö	ő	0	0	0	0	0	0
	1500 ppm	0	0	Ö	ő	Ö	0	0	Ö	0	0	0	0	0	0
	4500 ppm	0	0	0	0	ő	0	Õ	Õ	0	0	0	ő	0	0

STUDY NO. : 0348

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ALL APPROPRION	0 . 1	٥	•	•	•	2	•		0	•	0	0	•	^	•
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LED TENT GENTIALIA	500 ррш	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPIITHALMOS	Control	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 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
	500 ррт	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
	4500 ppm	0	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
	500 րթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	Õ	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	Ō	0	Ō	0	0	Ö	ő	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	ŏ	ő	0	0	0	Ö	Ŏ	Ő	0	0	0	0	Ö
	1500 ppm	0	Ŏ	0	Ő	0	Ŏ	0	Ö	0	ő	0	ő	Ö	0
	4500 ppm	0	0	0	0	0	0	0	0	Ŏ	0	ŏ	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W												
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	407	41-7	42-7
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	1	1	1	1	1	1	1	1	1	1	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	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
	500 ppm	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
	4500 ppm	0	0	0	0	Ô	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
-		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
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բջա	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
	4500 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
	500 ррт	0	0	0	0	0	0	0	0	0	0 .	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPIITIIALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 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
	500 բթա	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
	4500 ppm	0	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
	500 ppm	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
	4500 ррш	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 րթա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1500 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	· 0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	o o	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բթա	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	ī	1

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W	eek-day											
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78–7	79–7	80-7	81-7	82-7	83-7
PILOERECTION	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	2
	4500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	500 ppm	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	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ррт	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
	4500 ppm	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
•	500 ppm	0	0	0	0	0	0	1	0	0	0	0	0	1	1
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-dav											
		84-7	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
PILOERECTION	Control	0	0	1	0	0	0	0	0	1	1	0	0	0	0
	500 թթտ	0	0	0	1	2	1	0	0	1	3	5	4	3	2
	1500 ppm	2	2	2	3	2	1	2	1	1	3	1	1	1	0
	4500 ppm	0	0	0	1	1	1	0	0	2	4	4	3	3	4
RAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	0	2	1	0	1	0	0	0	0	0	0	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPIITHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	O,	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	2	3	2	2	2	3	3
	500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	1
	1500 ppm	1	1	2	2	2	2	2	2	2	2	1	1	2	2
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	istration '	Week-day				
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
PILOERECTION	Control	0	0	0	1	1	2	2
	500 ррт	3	2	2	3	3	3	2
	1500 ppm	1	1	2	2	2	2	2
	4500 ppm	4	3	4	4	4	5	3
		_	•	_	_	_	-	-
TRAUMA	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	ō	0	Ö
	4500 ppm	Ò	0	0	0	0	0	0
	1000 ppm	v	v	·	v	•	v	ŭ
FROG BELLY	Control	0	0	1	1	1	1	1
	500 ppm	0	1	1	0	0	0	ō
	1500 ppm	1	2	1	0	0	0	0
	4500 ppm	1	0	0	0	0	0	0
	ADOA Phu	1	v	U	v	U	Ū	v
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	1
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	ő	0	0
	FF	-	•	-	-	-	-	-
EXOPHTHALMOS	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	1
	4500 ppm	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
CODMENT OF CITY								_
CORNEAL OPACITY	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
EVTEDNIAL MACC	Ø 1	•		0				
EXTERNAL MASS	Control	3	2	2	1	1	1	1
	500 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	0	0	0
	4500 ppm	1	2	3	3	3	1	1

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

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	13-7	14-7
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INIEMAE MASS	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4900 ppm	U	U	U	J	v	V	V	V	v	U	V	V	U	V
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	4500 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
	500 ppm	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
	4500 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
	500 րրա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE: A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day _											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INIDICATO REIDO	500 ppm	, 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
	4500 ppm	0	ő	ő	0	0	ő	0	ō	o	o	0	ő	ō	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	Ò	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	. 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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
f. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

															THOE -
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
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	4500 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
	500 ррш	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 րրա	0	0	0	Ð	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
•	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. ANUS	Control	0	0	0	0	0.	. 0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W												
		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-
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	500 ррт	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	Ö	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	(
	500 ppm	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	(
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	500 ррт	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	(
	4500 ppm	0	0	0	0	0	0	Ō	Ō	0	0	0	Ō	0	Ċ
. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	500 ppm	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	
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	500 թբա	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	(
	4500 ppm	0	0	0	0	0	0	0	0	0	Ō	0	0	0	(
I. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	500 ppm	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	(
	4500 ppm	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	{
	500 ррш	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	(
	4500 ppm	0	0	0	0	0	Ö	ō	Ō	ō	0	ō	ō	ŏ	Ċ
I. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	500 ppm	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	(
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	(

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

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
NTERNAL MASS	Control	1	1	1	1	0	0	0	1	1	1	1	1	1	0
	500 բբա	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	2	2	2	1	1
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day											
· - · - -		71-7	72-7	72-7	73-7	74-7	757	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
NTERNAL MASS	Control	1	0	0	0	0	1	2	2	1	1	1	1	1	1
	500 ppm	1	0	1	2	2	3	3	3	2	2	2	2	2	3
	1500 ppm	0	0	2	2	2	2	2	2	2	3	3	2	3	3
	4500 ppm	2	0	1	1	1	2	1	2	2	2	2	2	2	2
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բթա	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	istration W	eek-day _											
		84-7	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
INTERNAL MASS	Control	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	500 բբա	2	1	1	5	6	5	5	3	3	4	4	4	2	2
	1500 ppm	3	3	3	3	5	4	6	5	7	8	7	7	7	5
	4500 ppm	1	1	2	3	2	2	2	1	1	1	1	1	1	1
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	1	1	1	1	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	1	2	2	2	2	2	2
	500 թթա	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
	4500 ppm	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0
I. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	500 ppm	Ŏ	0	0	Ö	ő	Ö	Ö	0	0	0	0	0	0	Ô
	1500 ppm	0	0	0	Ö	. 0	0	0	0	0	0	0	0	0	0
	4500 ppm	ő	ő	0	0	0	0	0	ō	0	0	ō	Ö	ő	0
. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 րթա	1	1	1	1	1	1	1	1	1	1	1	1	2	1
	1500 ppm	Ô	ō	ō	0	0	0	0	0	Ô	Ô	0	0	0	Ô
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
I. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	Õ	0	0	0	0	ů	0
	1500 ppm	0	ő	ŏ	ő	Ö	0	ŏ	ő	ŏ	ő	0	Ö	Ö	0
	4500 ppm	0	Ö	0	Ö	0	ů	Ŏ	Ö	ŏ	Ŏ	Ö	0	Ö	Ŏ

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

STUDY NO. : 0348

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	istration						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7	
INTERNAL MASS	Control	2	2	3	4	5	4	6	
	500 ppm	3	3	3	4	4	4	2	
	1500 ppm	6	3	5	4	4	4	4	
	4500 ppm	1	0	1	1	3	3	4	
M. EYE	Control	0	0	0	0	0	0	0	
	500 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	
M. NECK	Control	0	0	0	0	0	0	0	
	500 ppm	0	0	0	0	0	0	0	
	1500 ppm	1	1	1	1	0	0	0	
	4500 ppm	0	0	1	1	1	0	0	
M. ABDOMEN	Control	0	0	0	0	0	0	0	
	500 ppm	0	0	0	0	0	0	1	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	
M. ANTERIOR. DORSUM	Control	2	1	1	0	0	0	0	
	500 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	
M. HINDLIMB	Control	. 1	1	1	1	1	1	1	
	500 ppm	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	
M. GENITALIA	Control	0	0	0	0	0	0	0	
	500 ppm	1	1	1	1	1	1	0	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	1	2	2	2	2	1	1	
M. ANUS	Control	0	0	0	0	0	0	0	
	500 բբա	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	

Administration Week-day

ANIMAL : MOUSE Crj:BDF1

Group Name

Control

500 ppm

1500 ppm

4500 ppm

Control

500 ppm

1500 ppm

4500 ppm

REPORT TYPE: Al 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign

Clinical Sign	Group Name	Adminis	stration w	een uay											
		1-7	2-7	3-7	4-7	5–7	6-7	7-7	87	9-7	10-7	11-7	12-7	13-7	14-7
J. TATI	0 . 1	•	0	0	0	0	0	0	0	•	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	U	0	0	0	0	0	0	0	Ü	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	U	Ü	0	0	U
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 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
	500 ppm	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
	4500 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
	500 ppm	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
	4500 բթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACIIYPNEA .	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BRADYPNEA

DEEP BREATHING

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day											
	-	15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
I. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
'ACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EEP BREATHING	Control	0	0	0 .	0	0	0	0	0	0	0	0	0	0	0
	500 թջա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

STUDY NO. : 0348

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
I. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	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
	4500 ppm	1	1	1	. 1	1	1	1	1	1	1	1	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
BNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
FACIIYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
EEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0348

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration We	eek-day											
		43-7	447	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. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	0	0	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	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	0	0	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	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FACIIYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	C
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO.: 0348

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
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	4500 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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
orinioar orga	oroup name	71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
1. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррт	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	0	0	0	0	0	Ó	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 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
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-day										,	
		84-7	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
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	. 0
	1500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RREGULAR BREATHING	Control	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	500 ppm	0	0	0	1	1	0	0	0	1	0	1	0	1	0
	1500 ppm	0	0	1	2	0	0	0	0	0	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	500 ppm	0	0	0	1	2	1	0	0	1	0	1	0	1	0
	1500 ppm	0	0	1	2	0	0	0	0	0	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0 .	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1 ALL A

REPORT TYPE : A1 104

STUDY NO. : 0348

SEX : FEMALE

M. TAIL Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	linical sign	Group Name	Admin	istration	Week-day					
SOO ppm						101-7	102-7	103-7	104-7	
SOO ppm										
SOO ppm O	. TAIL	Control	0	0	0	0	0	0	0	
1500 ppm 0									0	
ANEMIA Control 500 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0		0	0	
SOO ppm O										
1500 ppm 0	NEMIA		0			0				
ТОRTICOLLIS Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		500 ppm	0	0	0	1	0	0	0	
TORTICOLLIS Control 500 μpm 0 0 0 0 0 0 0 0 1 1500 ppm 0 0 0 0 0 0 0 0 1 1500 ppm 0 0 0 0 0 0 0 0 0 1			0		0	1				
SOO ррт O		4500 ppm	0	0	0	0	0	0	0	
1500 ppm 0	ORTICOLLIS									
IRREGULAR BREATHING Control 0 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	
IRREGULAR BREATHING Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1500 ppm	0	0	0	0	1	1	1	
SOO μμm O O O O O O I I I I			0	0	0	0	0	0	0	
SOO μμm O O O O O O I I I I	RREGULAR BREATHING		0	0		0		0	0	
ABNORMAL RESPIRATION Control 500 ppm 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0		500 ppm	0	0	0	0	0	1	1	
ABNORMAL RESPIRATION Control 0 0 1 1 0 0 0 1 1 1 1 1 1 1 ABNORMAL RESPIRATION Control 1500 ppm 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1		1500 ppm	0	0	2	2	1	1	1	
500 ppm 0 0 0 0 0 1 1 1 1500 ppm 0 0 0 2 3 1 1 1 1 1 1 1 1 1			0	0						
1500 ppm 0 0 2 3 1 1 1 1 4500 ppm 0 0 0 0 1 1 1 1 1 1	BNORMAL RESPIRATION	Control	0	0	1	0	0	0	0	
TACHYPNEA Control 0 0 0 0 0 0 0 0 0		500 ppm	0	0	0	0	0	1	1	
ТАСПУРМЕА Соntrol 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1500 ppm	0	0	2	3	1	1	1	
SOO ppm O O O O O O O O O		4500 ppm	0	0	0	1	1	1	1	
1500 ppm 0 0 0 0 0 0 0 0 0	ACHYPNEA	Control	0	0	0	0	0	0	0	
A500 ppm 0 0 0 0 0 0 0 0 0		500 myy	0	0	0	0	0	0	0	
BRADYPNEA Control 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 500 ppm 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1500 ppm	0	0	0	0	0	0	0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		4500 ppm	0	0	0	0	0	0	0	
500 ppm 0 0 0 0 0 0 0 0 0 1500 ppm 0 0 0 0 1 0 0	GRADYPNEA	Control	0	0	1	. 0	0	0	0	
1500 ppm 0 0 0 1 0 0 0			0	0	0	0	0	0	0	
••										
DEEP BREATHING Control 0 0 0 0 0 0	DEEP BREATHING	Control	0	0	0	0	0	0	0	
500 руш 0 0 0 0 0 0 0										
1500 ppm 0 0 0 1 0 0 0										•
4500 ppm 0 0 0 0 0 0 0							0			

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 73

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
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIGO-STOOL	Control	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	500 ррш	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	0	1	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 74

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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 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
	500 ppm	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	2
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190) BAIS 3

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 75

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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բբա	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
	4500 ppm	0	1	1	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
	500 ppm	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
	4500 ppm	1	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190) BAIS 3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Admini	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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 բթա	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	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 թթա	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 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
	500 ppm	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
	4500 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 : FEMALE

PAGE: 77

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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
DLIGO-STOOL	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	500 թթա	0	0	0	0	0	0	2	1	1	1	1	0	0	2
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 104

SEX : FEMALE

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

PAGE: 78

Clinical sign	Group Name	Admini	stration W	eek-day _											
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	1	1	0	0	0	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	4500 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	1	0	1	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	2	1	1	1	0	1	0
	1500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	1
	4500 ppm	1	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
	500 ppm	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
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190) BAIS 3

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

SEX : FEMALE

PAGE: 79

Clinical sign	Group Name	Admini	stration W	eek-day _												
		84-7	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	
SMALL STOOL	Control	0	0	2	1	i	1	0	0	0	1	0	0	0	0	
	500 թթա	1	1	2	2	1	1	0	0	0	1	2	1	0	0	
	1500 ppm	0	1	1	2	0	0	0	0	0	0	1	0	0	1	
	4500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	1	2	
OLIGO-STOOL	Control	0	0	1	0	0	0	0	0	0	1	1	0	0	0	
	500 ppm	2	1	1	1	2	1	0	0	0	4	3	2	2	2	
	1500 ppm	1	1	1	1	2.	1	0	1	1	1	1	0	0	1	
	4500 ppm	0	0	0	0	0	0	0	0	0	0	2	1	1	1	
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500 թթա	0	0	0	1	0.	0	0	0	0	0	0	0	0	0	
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

(HAN190) BAIS 3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE: A1 104

SEX : FEMALE

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

Clinical sign	Group Name	Admini	istration 1	Week-day _				
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
SMALL STOOL	Control	1	2	1	0	0	0	1
	500 բթա	1	2	0	0	1	1	0
	1500 ppm	3	2	1	0	0	0	0
	4500 ppm	1	2	2	1	0	2	1
OLIGO-STOOL	Control	0	2	0	1	1	1	1
	500 ppm	3	2	1	1	2	1	2
	1500 ppm	2	0	0	1	0	1	1
	4500 ppm	1	2	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0
	500 բբա	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0

(HAN190)

BAIS 3

APPENDIX B 1

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

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 1

Administration	n week					
0	1	2	3	4	5	6
23.0± 0.8	23.6± 0.8	24.6± 1.3	25.2 ± 1.2	25.8± 1.5	26.9± 1.4	27.6± 1.6
23.0± 0.8	23.4± 1.0	24.6± 1.5	25.0± 1.0	26.0± 1.1	26.7± 1.3	27.2± 1.4
23.0± 0.8	23.4± 0.9	24.6± 1.0	25.2± 0.9	25.6± 1.1	26.1± 1.3**	26.2± 1.2**
23.0 ± 0.8	22.8± 1.4**	23.8± 1.3**	24.3± 1.2**	24.8± 1.0**	25.3± 1.2**	25.1± 1.2**
				·		
*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
	0 23.0± 0.8 23.0± 0.8 23.0± 0.8	23.0 ± 0.8 23.6 ± 0.8 23.4 ± 1.0 23.0 ± 0.8 23.4 ± 0.9 23.0 ± 0.8 $22.8\pm 1.4**$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(HAN260)

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

PAGE: 2

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

roup Name	Administration	week					
	7	8	9	10	11	12	13
Control	28.6± 1.8	29.2± 1.9	29.8± 2.1	30.8± 2.3	32.1± 2.4	32.3± 2.5	33.2± 2.7
750 ppm	28.0± 1.5	28.7± 1.7	29.2± 1.7	30.4± 2.0	31.3± 2.0	31.5± 2.3	32.4± 2.4
1500 ррш	27.2± 1.5**	27.6± 1.6**	28.4± 1.8**	29.1± 2.1**	30.0± 2.3**	30.1± 2.3**	31.1± 2.5 * *
3000 ppm	26.0± 1.4**	26.3± 1.4**	26.9± 1.3**	27.3± 1.4**	27.9± 1.7**	28.1± 1.8**	29.1± 1.9**
Significant difference;	*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
AN260)							BA

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

oup Name	Administration	week					
	14	18	22	26	30	34	38
Control	33.4± 2.7	36.2± 3.2	38.1± 3.8	40.1± 4.1	41.9± 4.3	42.7± 4.3	44. 2± 4. 3
750 ppm	$32.5\pm\ \ 2.4$	35. 4± 2. 6	36.7± 3.0	38.5± 3.2	40.0± 3.5	41.0± 3.7	42. 2± 3. 8*
1500 թթտ	31.2± 2.5**	33.5± 3.0**	34.5± 3.0**	35.8± 3.4**	36.9± 3.8**	37.5± 3.7**	38.4± 3.8**
3000 ppm	29.1± 1.9**	30.9± 2.1**	31.7± 2.3**	32.7± 2.6**	33.5± 2.7**	33.9± 2.7**	34.7± 3.0**
Significant difference	1 1 D < 0.05	** : P ≤ 0.01		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

oup Name	Administration	week					
	42	46	50	54	58	62	66
Control	44.9± 4.5	46.5± 4.5	47.4± 4.3	48.1± 4.6	48.5± 4.6	49.4± 4.9	50.5± 5.0
750 ppm	43.3± 4.0	44.7± 4.0	45.6± 4.0	46.3± 4.1	46.4± 3.9	48.0± 4.2	48.7± 4.2
1500 թթա	39. 4± 4. 0**	40.3± 4.6**	40.8± 4.8**	41.7± 4.8**	41.4± 5.1**	42.5± 5.2**	42.6± 5.5**
3000 ppm	35.6± 3.2**	36.4± 3.7**	37.0± 4.1**	37.9± 4.0**	38.3± 4.1**	39.3± 4.5**	39.3± 4.4**
Significant differe	ence; *: P ≦ 0.05	* : P ≤ 0.01		Test of Dunnett			
AN260)							

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

(SUMMARY)

ALL ANIMALS

oup Name	Administration	week					
**************************************	70	74	78	82	86	90	94
Control	51.1± 4.6	51.1± 4.9	51.2± 5.0	51.4± 5.2	51.2± 5.8	51.8± 6.2	52.0± 6.3
750 ppm	49.1± 4.4	48.4± 4.9*	48.8± 4.3	48.8± 4.4*	47.9± 4.7*	47.8± 5.4**	47.3± 5.8**
1500 թթտ	42.9± 6.2**	42.8± 6.3**	42.9± 5.9**	43.0± 6.4**	42.0± 5.9**	42.0± 5.7**	41.4± 5.6**
3000 ppm	39.5± 4.8**	39.2± 4.9**	39.0± 4.9**	39.0± 4.8**	38.3± 4.8**	38.6± 4.7**	38.0± 4.7**
Significant differen	nce; *:P≦0.05 *	•*: P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

Group Name	Administration	week		
	98	102	104	
Control	50.7± 7.9	51.0± 6.9	51.1± 6.5	
750 ppm	47.1± 5.7	45.9± 5.9	45.8± 5.8**	
1500 ppm	41.3± 5.3**	40.8± 5.2**	40.4± 5.2**	
3000 ppm	37.7± 4.6**	37.5± 4.4**	37.4± 4.6**	
Significant difference	; *: P ≤ 0.05	** : P ≤ 0.01	Test of Dunnett	
(HAN260)				BAIS

BAIS 3

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	Administratio	on week					
	0	1	2	3	4	5	6
Control	18.9± 0.7	19.4± 1.0	19.8± 0.9	20.2 ± 1.2	21.0± 0.9	21.4± 0.9	21.9± 1.0
500 ppm	18.9± 0.7	18.9± 1.1	20.0± 0.7	20.2± 0.6	21.2± 0.8	21.5± 0.8	21.9± 0.9
1500 ррш	18.9± 0.7	19.3± 1.2	19.8± 0.8	20.2± 0.9	21.1± 1.0	21.3± 1.1	21.9± 1.2
4500 ppm	18.9± 0.7	18.5± 0.8**	19.2± 0.8**	19.7± 0.8**	20.1± 0.7**	20.6± 0.8**	21.1± 0.9**
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)

7	8	9	10	1.1		
				11	12	13
22.4± 1.0	22.8± 0.9	23.3± 1.3	23.4± 1.1	24.0± 1.2	24.0± 1.3	24.4± 1.2
22.5± 0.8	22.7± 0.8	23.2± 1.0	23.4± 0.9	24.0± 1.1	24.0± 1.3	24.3± 1.0
22. 4± 1. 2	22.6± 1.3	23. 1± 1. 2	23.1± 1.3	23.6± 1.3	23.5± 1.2	24.0± 1.4
21.6± 1.1**	21.8± 1.0**	22.5 ± 1.1**	22.4± 1.2**	23.0± 1.1**	23.0± 1.2**	23.2± 1.1**
				· .		
; *: P ≤ 0.05	r : P ≤ 0.01		Test of Dunnett			
	22.5± 0.8 22.4± 1.2 21.6± 1.1**	22.5 ± 0.8 22.7 ± 0.8 22.4 ± 1.2 22.6 ± 1.3 $21.6\pm 1.1**$ $21.8\pm 1.0**$	22.5 ± 0.8 22.7 ± 0.8 23.2 ± 1.0 22.4 ± 1.2 22.6 ± 1.3 23.1 ± 1.2 $21.6\pm 1.1**$ $21.8\pm 1.0**$ $22.5\pm 1.1**$	$22.5 \pm 0.8 \qquad 22.7 \pm 0.8 \qquad 23.2 \pm 1.0 \qquad 23.4 \pm 0.9$ $22.4 \pm 1.2 \qquad 22.6 \pm 1.3 \qquad 23.1 \pm 1.2 \qquad 23.1 \pm 1.3$ $21.6 \pm 1.1 ** \qquad 21.8 \pm 1.0 ** \qquad 22.5 \pm 1.1 ** \qquad 22.4 \pm 1.2 **$	$ 22.5 \pm \ 0.8 \qquad 22.7 \pm \ 0.8 \qquad 23.2 \pm \ 1.0 \qquad 23.4 \pm \ 0.9 \qquad 24.0 \pm \ 1.1 $ $ 22.4 \pm \ 1.2 \qquad 22.6 \pm \ 1.3 \qquad 23.1 \pm \ 1.2 \qquad 23.1 \pm \ 1.3 \qquad 23.6 \pm \ 1.3 $ $ 21.6 \pm \ 1.1 ** \qquad 21.8 \pm \ 1.0 ** \qquad 22.5 \pm \ 1.1 ** \qquad 22.4 \pm \ 1.2 ** \qquad 23.0 \pm \ 1.1 ** $ $ 23.0 \pm \ 1.1 ** \qquad 23.0 \pm \ 1.1 ** $ $ 23.0 \pm \ 1.1 ** \qquad 23.0 \pm \ 1.1 ** $	$ 22.5 \pm 0.8 \qquad 22.7 \pm 0.8 \qquad 23.2 \pm 1.0 \qquad 23.4 \pm 0.9 \qquad 24.0 \pm 1.1 \qquad 24.0 \pm 1.3 $ $ 22.4 \pm 1.2 \qquad 22.6 \pm 1.3 \qquad 23.1 \pm 1.2 \qquad 23.1 \pm 1.3 \qquad 23.6 \pm 1.3 \qquad 23.5 \pm 1.2 $ $ 21.6 \pm 1.1 ** \qquad 21.8 \pm 1.0 ** \qquad 22.5 \pm 1.1 ** \qquad 22.4 \pm 1.2 ** \qquad 23.0 \pm 1.1 ** \qquad 23.0 \pm 1.2 ** $

(HAN260)

BAIS 3

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 9

Administration	week					
14	18	22	26	30	34	38
24.6± 1.3	26.0± 1.8	26.6± 2.2	27.9± 2.3	29.0± 2.7	29.4± 2.7	29.8± 2.9
24.4± 1.2	25.6± 1.7	26.5± 2.1	27.6± 2.6	28.4± 2.8	28.8± 3.0	29.7± 3.1
23.9± 1.3*	24.7± 1.5**	25.4± 1.8**	26.4± 1.9★★	26.6± 2.0**	26.7± 1.8**	27.1± 2.1**
23.3± 1.2**	23.9± 1.3**	24.5± 1.4**	25.0± 1.8**	25.2± 1.8**	25.5± 1.8**	25.8± 1.7**
; *: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
	14 24.6± 1.3 24.4± 1.2 23.9± 1.3* 23.3± 1.2**	24.6 ± 1.3 26.0 ± 1.8 24.4 ± 1.2 25.6 ± 1.7 $23.9 \pm 1.3 *$ $24.7 \pm 1.5 * *$ $23.3 \pm 1.2 * *$ $23.9 \pm 1.3 * *$	14 18 22 24.6 ± 1.3 26.0 ± 1.8 26.6 ± 2.2 24.4 ± 1.2 25.6 ± 1.7 26.5 ± 2.1 $23.9 \pm 1.3 *$ $24.7 \pm 1.5 * *$ $25.4 \pm 1.8 * *$ $23.3 \pm 1.2 * *$ $23.9 \pm 1.3 * *$ $24.5 \pm 1.4 * *$	14 18 22 26 24. $6 \pm$ 1. 3 26. $0 \pm$ 1. 8 26. $6 \pm$ 2. 2 27. $9 \pm$ 2. 3 24. $4 \pm$ 1. 2 25. $6 \pm$ 1. 7 26. $5 \pm$ 2. 1 27. $6 \pm$ 2. 6 23. $9 \pm$ 1. $3 *$ 24. $7 \pm$ 1. $5 * *$ 25. $4 \pm$ 1. $8 * *$ 26. $4 \pm$ 1. $9 * *$ 23. $3 \pm$ 1. $2 * *$ 23. $9 \pm$ 1. $3 * *$ 24. $5 \pm$ 1. $4 * *$ 25. $0 \pm$ 1. $8 * *$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

oup Name	Administration	week					
	42	46	50	54	58	62	66
Control	30.6± 3.0	31.3± 3.1	32.1± 3.3	32.6± 3.5	32.8± 3.3	33.6± 3.7	34.5± 3.8
500 ppm	30.1± 3.0	30.9± 3.4	31.5± 3.4	31.7± 3.9	32.5± 4.3	32.9± 4.4	33.1± 4.5
1500 ppm	27.7± 2.4**	28.3± 2.9**	28.5± 2.8**	28.5± 2.5**	29.1± 2.8**	29. 2± 2. 8**	29.6± 2.7**
4500 ppm	25.9± 1.7**	26.2± 2.0**	26.4± 1.9**	26.7± 2.1**	26.6± 2.0**	27.0± 2.0**	27.1± 2.2**
Significant difference;	*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
N260)							

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY) ALL ANIMALS

	oup Name	Administration	week					
500 ppm 33.5± 4.8 33.2± 4.6 33.8± 4.9 34.1± 5.3 33.7± 5.4 34.1± 4.7 33.6± 4.9 1500 ppm 29.7± 2.5** 29.4± 2.9** 30.1± 2.7** 29.6± 3.0** 29.7± 3.0** 30.1± 2.9** 30.3± 3.0** 4500 ppm 27.2± 2.2** 27.1± 2.2** 27.1± 2.2** 27.2± 2.4** 27.5± 3.0** 27.1± 2.2** 27.0± 2.3** 27.2± 2.7**	• ""	70	74	78	82	86	90	94
1500 ppm 29.7± 2.5** 29.4± 2.9** 30.1± 2.7** 29.6± 3.0** 29.7± 3.0** 30.1± 2.9** 30.3± 3.0** 4500 ppm 27.2± 2.2** 27.1± 2.2** 27.2± 2.4** 27.5± 3.0** 27.1± 2.2** 27.0± 2.3** 27.2± 2.7**	Control	35.1± 3.6	35.2 ± 3.5	35.5± 4.1	36.1 ± 3.8	34.8± 4.7	35.7± 4.2	36.0± 3.9
4500 ppm 27. 2± 2. 2** 27. 1± 2. 2** 27. 2± 2. 4** 27. 5± 3. 0** 27. 1± 2. 2** 27. 0± 2. 3** 27. 2± 2. 7**	500 ppm	33.5± 4.8	33. 2± 4. 6	33.8± 4.9	34.1± 5.3	33.7± 5.4	34. 1 ± 4. 7	33.6± 4.9
	1500 руш	29.7± 2.5**	29.4± 2.9**	30.1± 2.7**	29.6± 3.0**	29.7± 3.0**	30.1± 2.9 * *	30.3± 3.0**
Significant difference; $*: P \le 0.05$ $**: P \le 0.01$ Test of Dunnett	4500 ppm	27.2± 2.2**	27.1± 2.2**	27. 2± 2. 4**	27.5± 3.0**	27.1± 2.2**	27.0± 2.3**	27.2± 2.7**
Significant difference; $*: P \le 0.05$ $**: P \le 0.01$ Test of Dunnett								
	Significant differe	ence; *: P ≤ 0.05	★ : P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

Group Name	Administration	week		
	98	102	104	
Control	36.5± 5.7	34.4± 4.5	34.6± 3.9	
500 ppm	33.6± 5.1	32.9 ± 4.7	33.3± 4.6	
1500 թթա	30.1± 2.9**	29.6± 2.7**	29.6± 2.9**	
4500 ppm	27.1± 2.9**	26.8± 2.3**	26.7± 1.9**	
Significant differe	ence; *: P ≤ 0.05	*: P ≤ 0.01	Test of Dunnett	
(HAN260)				BAIS 3

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-day(effective)					
	1-7 (4)	2-7(4)	3-7(4)	4-7(4)	5-7 (4)	6-7(4)	7-7 (4)
Control	4.5± 0.7	4.4± 0.9	4.4 ± 0.6	4.4± 1.0	4.5± 0.7	4.3± 0.8	4.4± 0.8
750 ppm	3.6± 0.7**	3.5± 0.8**	3.6± 0.8**	3.5± 0.8**	3.5± 0.7**	3.6± 0.7**	3.7± 0.7**
1500 ррш	3.1± 0.4**	2.8± 0.4**	2.8± 0.4**	2.8± 0.6**	2.9± 0.5**	3.0± 0.6**	2.9± 0.5**
3000 ррш	2.5± 0.5**	2.2± 0.4**	2.3± 0.4**	2.3± 0.4**	2.4± 0.4**	2.3± 0.5**	2.5± 0.5**
Significant differe	mce; *: $P \le 0.05$ *	* : P ≤ 0.01		Test of Dunnett			

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 2

coup Name	Administration v 8-7(4)	veek-day(effective) 9-7(4)	10-7 (4)	11-7(4)	12-7(4)	13-7(4)	14-7 (4)
Control	4.3± 0.8	4.2± 0.8	4.1± 0.8	4.0± 0.7	3.9± 0.7	3.7± 0.6	3.8± 0.5
750 ppm	3.4± 0.6**	3.3± 0.6**	3.2± 0.6**	3.2± 0.5**	3.1± 0.5**	3.1± 0.4**	3.1± 0.4**
1500 թթա	2.7± 0.5**	2.6± 0.4**	2.5± 0.4**	2.6生 0.4**	2.6± 0.4**	2.6± 0.4**	2.5± 0.4**
3000 ppm	2.3± 0.4**	2.3± 0.4**	2.3± 0.5**	2.2± 0.3**	2.2± 0.3**	2.2± 0.3**	2.2± 0.3**
Significant differe	ence; *: P ≤ 0.05 **	$*: P \leq 0.01$		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	week-day(effective)_					
	18-7 (4)	22-7 (4)	26-7(4)	30-7(4)	34-7 (4)	38-7(4)	42-7(4)
Control	3.5± 0.5	3.3± 0.4	3.6± 0.4	3.6± 0.4	3.6± 0.4	3.7± 0.4	3.8 ± 0.4
750 ppm	3.0± 0.4**	2.8± 0.3**	3.0± 0.3**	3.1± 0.3**	3.1± 0.3**	3.1± 0.3**	3.3± 0.3**
1500 թթա	2.4± 0.3**	2.4± 0.3**	2.5± 0.3**	2.6± 0.4**	2.5± 0.3**	2.6± 0.3 + *	2.8± 0.3**
3000 ррт	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.2**	2.2± 0.3**	2.2± 0.3**	2.3± 0.3**
Significant difference	.	* : P ≤ 0.01		Test of Dunnett			

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 4

oup Name	Administration w 46-7(4)	reek-day(effective) 50-7(4)	54-7(4)	58-7(4)	CO 7(4)	CC 7(4)	70.7(1)
	40-7 (4)	50-7 (4)	04-7 (4)	56-7 (4)	62-7(4)	66-7 (4)	70-7 (4)
Control	3.9± 0.4	3.8± 0.3	3.9± 0.5	4.1± 0.4	4.1± 0.4	4.3± 0.5	4.4± 0.7
750 ppm	3.4± 0.3**	3.3± 0.4**	3.5± 0.4**	3.4± 0.6**	3.6± 0.3**	3.6± 0.4**	3.6± 0.4**
1500 ррш	2.8± 0.3**	2.7± 0.3**	2.8± 0.4**	2.8± 0.8**	2.9± 0.4**	3.0± 0.5**	3.0± 0.4**
3000 ppm	2.4± 0.2**	2.3± 0.3**	2.4± 0.3**	2.4± 0.2**	2.5± 0.3**	2.6± 0.3**	2.6± 0.3**
Significant differen	nce; *: P ≤ 0.05 **	:: P ≤ 0.01		Test of Dunnett			

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : MALE

PAGE: 5

oup Name	Administration w	eek-day(effective)					
	74-7 (4)	78-7(4)	82-7 (4)	86-7(4)	90-7(4)	94-7(4)	98-7 (4)
Control	4.2± 0.6	4.3± 0.4	4.3± 0.5	4.5± 0.5	4.7± 0.6	4.6± 0.7	4.8± 0.8
750 ppm	3.6生 0.6**	3.6± 0.5**	3.5± 0.7**	3.7± 0.6**	4.0± 0.8**	3.9± 0.6**	4.0± 0.6*
1500 ррт	3.0± 0.5**	3.1± 0.6**	3.0± 0.6**	3.0± 0.7**	3.2± 0.7**	3.2± 0.7**	3.3± 0.6**
3000 ppm	2.6± 0.3**	2.7± 0.3**	2.5± 0.3**	2.6± 0.3**	2.7± 0.3**	2.8± 0.3**	2.8± 0.4**
Significant difference	: *: P ≤ 0.05 *	:: P ≤ 0.01		Test of Dunnett			

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 6

Group Name	Administration 102-7(4)	week-day(effective) 104-7(4)		
Control	4.9 ± 0.8	4.7 ± 0.7		
750 ppm	4.0± 0.8**	4.0± 0.7*		
1500 ррш	3.4± 0.7**	3.3± 0.7**		
3000 ppm	2.8± 0.4**	2.7± 0.4**		
Significant differe	nce; *: P ≤ 0.05 *	• : P ≤ 0.01	Test of Dunnett	
(HAN260)				RATS 9

(HAN260)

APPENDIX C 2

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

ANIMAL : MOUSE Crj:BDF1
UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 7

roup Name	Administration 1-7(4)	week-day(effective) 2-7(4)	3-7 (4)	4-7 (4)	5-7(4)	6-7(4)	7-7 (4)
Control	4.3± 0.5	4.7± 0.9	4.3± 0.8	4.0± 0.4	4.3± 0.5	4.2± 0.4	4.3± 0.4
500 ppm	3.4± 0.7**	3.7± 0.9**	3.5± 0.6**	3.2± 0.3**	3.3± 0.3**	3.3± 0.3**	3.4± 0.4**
1500 ррш	3.0± 0.6**	2.9± 0.3**	2.9± 0.4**	2.7± 0.3**	2.7± 0.3**	2.7± 0.3**	2.9± 0.3**
4500 ppm	2.0± 0.3**	1.9± 0.3**	2.0± 0.3**	1.8± 0.2**	1.9± 0.3**	2.0± 0.3**	2.1± 0.3**
Significant differen	nce; *: P ≤ 0.05 *	$*: P \leq 0.01$		Test of Dunnett			

(HAN260) BAIS 3

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 8

up Name	Administration 8-7(4)	week-day(effective) 9-7(4)	10-7 (4)	11-7(4)	12-7 (4)	13-7(4)	14-7 (4)
Control	4.3± 0.5	4.2± 0.5	4.3± 0.5	4.4± 0.6	4.3± 0.5	4.2± 0.6	4.1± 0.4
500 ppm	3.4± 0.4**	3.3± 0.4**	3.3± 0.4**	3.4± 0.4**	3.4± 0.5**	3.3± 0.4**	3.3± 0.3**
1500 ppm	2.7± 0.3**	2.7± 0.3**	2.7± 0.4**	2.8± 0.3**	2.7± 0.3**	2.8± 0.3**	2.7± 0.4**
4500 ppm	2.0± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.2**	2.1± 0.3**
Significant difference	; *: P ≦ 0.05 *	* : P ≤ 0.01	· · · · · ·	Test of Dunnett			

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS

UNIT : g

REPORT TYPE: A1 104

SEX : FEMALE

PAGE: 9

oup Name	Administration v 18-7(4)	week-day(effective) 22-7(4)	26-7 (4)	30-7(4)	34-7(4)	38-7 (4)	42-7 (4)
Control	3.9± 0.4	3.9± 0.4	3.8± 0.4	3.9± 0.5	4.0± 0.5	3.9± 0.5	4.0± 0.5
500 ppm	3.2± 0.4**	3.1± 0.3**	3.0± 0.4**	3.1± 0.4**	3.2± 0.3**	3.2± 0.3**	3.2± 0.3**
1500 ррш	2.5± 0.3**	2.4± 0.3**	2.6± 0.3**	2.6± 0.3**	2.6± 0.3**	2.4± 0.3**	2.5± 0.3**
4500 ppm	2.0± 0.3**	1.8± 0.3**	1.5± 0.3**	1.9± 0.3**	2.1± 0.3**	1.9± 0.3**	2.0± 0.3**
Significant difference;	*: P ≤ 0.05 **	* : P ≤ 0.01	•	Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX: FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Group Name Administration week-day(effective)_ 46-7(4)50-7(4) 54-7(4) 58-7(4)62 - 7(4)66-7(4)70-7(4) Control 3.9 ± 0.6 4.1± 0.5 4.0± 0.7 4.1± 0.6 4.1± 0.6 4.4± 0.7 4.1± 0.5 500 ppm 3.1士 0.4** 3.2± 0.4** 3.2± 0.4** 3.2± 0.3** 3.1± 0.4** 3.4± 0.4** 3.2± 0.4** 1500 ppm 2.5± 0.3** 2.5± 0.3** 2.5 ± 0.3** 2.6± 0.3** 2.5± 0.4** 2.7± 0.3** 2.7生 0.4** 4500 ppm 2.0± 0.2** 2.0± 0.3** 2.1± 0.3** 2.2± 0.3** 2.1± 0.3** 2.2± 0.3** 2.1± 0.3** Significant difference; $*: P \leq 0.05$ **: $P \leq 0.01$ Test of Dunnett

(HAN260)

BAIS 3

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 11

oup Name	Administration 74-7(4)	week-day(effective) 78-7(4)	82-7(4)	86-7(4)	90-7(4)	94-7 (4)	98-7 (4)
Control	4.2± 0.6	4.1± 0.6	· 4.1± 0.7	4.1± 0.8	4.1± 0.6	4.4± 0.6	4.5± 1.0
500 ppm	3. 2± 0. 4**	3.3± 0.5**	3.2± 0.6**	3.6± 1.0*	3.6± 0.7**	3.5± 0.8**	3.8± 1.1*
1500 ppm	2.6± 0.4**	2.6± 0.8**	2.9生 1.2**	2.9± 0.9**	3.0± 0.5**	3.1± 0.8**	2.9± 0.5**
4500 ppm	2.1± 0.3**	2.2± 0.4**	2.1± 0.4**	2.2± 0.4**	2.4± 0.5**	2.6± 0.8**	2.6± 1.0**
Significant differen	nce; *: P ≤ 0.05 *	$*: P \leq 0.01$		Test of Dunnett			

(HAN260)

WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

1 3 - DDL 1

SEX: FEMALE

PAGE: 12

roup Name	Administration 102-7(4)	week-day(effective) 104-7(4)				
Control	4.8± 1.1	4.4± 1.1				
500 ppm	3.5± 1.2**	3.7± 0.8				
1500 ррш	3.1± 0.5**	3.0± 0.6**				
4500 ppm	2.6± 0.7**	2.6± 0.8**				
Significant differen	nce; *: P ≦ 0.05 *	*: P ≤ 0.01	Te	st of Dunnett		

(HAN260)

APPENDIX D 1

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

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g REPORT TYPE : A1 104

SEX : MALE

PAGE: 1

roup Name	,	Administration 1-7(7)	week-day(effective) 2-7(7)	3-7(7)	4-7 (7)	5-7(7)	6-7(7)	7–7 (7)
Control		3.8± 0.2	3.7± 0.3	3.8± 0.3	3.8± 0.3	4.0± 0.4	3.9± 0.3	3.9± 0.3
750 ppm		3.7± 0.3	3.6± 0.4	3.8± 0.3	3.8± 0.3	4.0± 0.4	3.7± 0.3*	3.8± 0.3
1500 ppm		3.7± 0.3*	3.6± 0.3	3.6± 0.2	3.7± 0.3	3.6± 0.3**	3.5± 0.3**	3.7± 0.4*
3000 ppm		3.5± 0.4**	3.5± 0.3**	3.4± 0.3**	3.6± 0.2**	3.5± 0.3**	3.4± 0.3**	3.5± 0.3**
					1994 (A. 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984			
Significant differenc	ce; *	*: P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration w	eek-day(effective)					
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7/(7)	14-7 (7)
· · · · · · · · · · · · · · · · · · ·							
Control	4.1± 0.3	4.0± 0.3	4.1± 0.3	4.1± 0.3	4.1± 0.3	4.0± 0.3	4.2± 0.3
750 ppm	4.0± 0.3	3.9± 0.2	4.2± 0.3	4.0 ± 0.3	4.0 ± 0.3	4.1± 0.3	4.1± 0.3
1500 թթա	3.8± 0.4**	3.8± 0.3	3.9± 0.4**	3.9± 0.4**	3.9± 0.3**	4.0± 0.3	3.9± 0.3**
3000 pmm	3.6± 0.3**	3.6± 0.3**	3.7± 0.3**	3.7± 0.3**	3.6± 0.3**	3.8± 0.3**	3.7生 0.3**

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

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE: A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

roup Name	Administration	week-day(effective)					
	18-7(7)	22-7 (7)	26-7 (7)	30-7 (7)	34-7 (7)	38-7(7)	42-7 (7)
Control	4.1± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3	4.4± 0.3	4.5± 0.3	4.5± 0.3
750 ppm	4.1± 0.2	4.1± 0.2	4.2± 0.2	4.4± 0.3	4.4± 0.2	4.4± 0.3	4.5 ± 0.3
1500 թթա	3.9± 0.3**	3.9± 0.3**	4.1± 0.3*	4.1± 0.3**	4.2± 0.3**	4.3± 0.3**	4.4± 0.4
3000 ppm	3.7± 0.3**	3.9± 0.3**	3.9± 0.3**	3.9± 0.3**	4.0± 0.3**	4.0± 0.3**	4.2± 0.3**

Test of Dunnett

(HAN260)

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

BAIS 3

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

PAGE: 4

oup Name	Administration w 46-7(7)	reek-day(effective) 50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7 (7)
Control	4.6± 0.3	4.5± 0.3	4.6± 0.4	4.6± 0.5	4.7± 0.3	4.9± 0.4	4.8± 0.3
750 ppm	4.6± 0.3	4.5± 0.3	4.5± 0.3	4.5± 0.3	4.6± 0.3	4.7± 0.3	4.7± 0.3
1500 թթտ	4.4± 0.4**	4.3± 0.4**	4.2± 0.4**	4.1± 0.4**	4.4± 0.4**	4.4± 0.5**	4.4生 0.4**
3000 ppm	4.2± 0.3**	4.2± 0.5**	4.1± 0.4**	4.1± 0.3★★	4.3± 0.4**	4.2± 0.4**	4.2± 0.4**
Significant differen	nce; *: P ≤ 0.05 **	: P ≤ 0.01		Test of Dunnett			

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration	week-day(effective)_					
	74.7(0)	50 5 (5)	00 5 (5)	00 17 (17)	00 5 (5)	a (m)	

8± 0.5	4.8± 0.4	4.9± 0.3	4.8± 0.5			
			4.0.1 0.5	5.0 ± 0.6	5.1 ± 0.6	4.9± 0.7
7± 0.3	4.7± 0.5	4.8± 0.5	4.6± 0.6	5.0± 0.6	5.0± 0.5	4.9± 0.5
4± 0.6**	4.4± 0.4**	4.5± 0.6**	4.3± 0.6**	4.6± 0.6**	4.6± 0.5**	4.6± 0.4**
3± 0.4**	4.2± 0.4**	4.3± 0.3**	4.2± 0.4**	4.4± 0.4**	4.4± 0.3**	4.4± 0.4**
	7± 0.3 4± 0.6** 3± 0.4**	4± 0.6** 4.4± 0.4**	4± 0.6** 4.4± 0.4** 4.5± 0.6**	4± 0.6** 4.4± 0.4** 4.5± 0.6** 4.3± 0.6**	4± 0.6** 4.4± 0.4** 4.5± 0.6** 4.3± 0.6** 4.6± 0.6**	4± 0.6** 4.4± 0.4** 4.5± 0.6** 4.3± 0.6** 4.6± 0.6** 4.6± 0.5**

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration	week-day(effective)		
	102-7 (7)	104-7 (7)		
· · · · · · · · · · · · · · · · · · ·		,		
Control	5.1± 0.4	4.9± 0.5		
750 ppm	4.8± 0.6	4.7± 0.5		
1500 թթա	4.7± 0.6**	4.5± 0.5**		
3000 ppm	4.5± 0.4**	4.2± 0.6**		
		•		
Significant differe	ence; *: P ≦ 0.05 *	* : P ≤ 0.01	Test of Dunnett	
(HAN260)				PATS 3

(HAN260)

BAIS 3

APPENDIX D 2

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

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : AI 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

PAGE: 7

oup Name	Administration	week-day(effective)					
	1-7(7)	2–7 (7)	3-7 (7)	4-7(7)	5-7 (7)	6-7(7)	7-7(7)
Control	$3.3\pm\ 0.3$	3.3± 0.3	3.4± 0.3	3.6± 0.3	3.5± 0.2	3.4± 0.3	3.6± 0.2
500 ppm	3.3± 0.3	3.4± 0.4	3.3± 0.3	3.5± 0.2	3.5± 0.2	3.4± 0.3	3.6± 0.3
1500 թթա	3.3 ± 0.5	3.2± 0.4	3.3± 0.3	3.4± 0.3*	3.4± 0.2	3.4± 0.2	3.5± 0.3*
4500 ppm	3.0± 0.3**	3.1± 0.3**	3.2± 0.2**	3.2± 0.2**	3.2± 0.3**	3.3± 0.3*	3.4± 0.2**

BAIS 3 (HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 8

Administration '	week-day(effective)					
8-7 (7)	9-7(7)	10-7 (7)	11-7(7)	12-7 (7)	13-7(7)	14-7 (7)
2.7+ 0.2	20+ 02	28+ 03	2 9 + 0 2	2 8 + 0 2	20+02	3.8± 0.3
3. 1± 0. 2	3. 0 ± 0. 3	J. 0 ÷ 0. 2	0.0± 0.0	3.0± 0.3	. s ± 0. s	3.0± 0.0
3.7± 0.3	3.6± 0.3*	3.7± 0.3	3.7± 0.3	3.7± 0.3	3.8± 0.3	3.8± 0.3
3.6± 0.3*	3.6± 0.3*	3.7± 0.3	3.7± 0.3*	3.6± 0.3*	3.7± 0.3*	3.7± 0.3
3.5± 0.3**	3.5± 0.3**	3.5± 0.3**	3.6± 0.3**	3.5± 0.3**	3.6± 0.3**	3.5± 0.2**
-	8-7(7) 3.7± 0.2 3.7± 0.3 3.6± 0.3*	$8-7(7)$ $9-7(7)$ 3.7 ± 0.2 3.8 ± 0.3 $3.6\pm 0.3*$ $3.6\pm 0.3*$	$8-7(7)$ $9-7(7)$ $10-7(7)$ 3.7 ± 0.2 3.8 ± 0.3 3.8 ± 0.2 3.7 ± 0.3 $3.6\pm 0.3*$ 3.7 ± 0.3 $3.6\pm 0.3*$ 3.7 ± 0.3	$8-7(7)$ $9-7(7)$ $10-7(7)$ $11-7(7)$ 3.7 ± 0.2 3.8 ± 0.3 3.8 ± 0.2 3.8 ± 0.3 3.7 ± 0.3 $3.6\pm 0.3*$ 3.7 ± 0.3 3.7 ± 0.3 3.7 ± 0.3	$8-7(7)$ $9-7(7)$ $10-7(7)$ $11-7(7)$ $12-7(7)$ $3.7\pm$ 0.2 $3.8\pm$ 0.3 $3.8\pm$ 0.2 $3.8\pm$ 0.3 $3.8\pm$ 0.3 $3.7\pm$ 0.3 $3.6\pm$ 0.3* $3.7\pm$ 0.3 $3.7\pm$ 0.3 $3.7\pm$ 0.3 $3.6\pm$ 0.3* $3.6\pm$ 0.3* $3.7\pm$ 0.3 $3.7\pm$ 0.3* $3.6\pm$ 0.3*	$8-7(7)$ $9-7(7)$ $10-7(7)$ $11-7(7)$ $12-7(7)$ $13-7(7)$ 3.7 ± 0.2 3.8 ± 0.3 3.8 ± 0.3 3.9 ± 0.3 3.7 ± 0.3 $3.6\pm 0.3*$ 3.7 ± 0.3 3.7 ± 0.3 3.7 ± 0.3 $3.6\pm 0.3*$ $3.6\pm 0.3*$ $3.7\pm 0.3*$ $3.6\pm 0.3*$ $3.7\pm 0.3*$

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

oup Name	Administration	week-day(effective)					
	18-7(7)	22-7 (7)	26-7 (7)	30-7(7)	34-7 (7)	38-7(7)	42-7 (7)
Control	3.9± 0.3	3.9± 0.4	3.9± 0.4	4.0± 0.4	4.0± 0.5	4.1± 0.5	3.9± 0.5
500 ppm	3.7± 0.3*	3.8± 0.3	3.9± 0.4	3.9± 0.4	4.1± 0.4	4.1± 0.4	3.8± 0.3
1500 բբա	3.6± 0.4**	3.8± 0.3	3.9± 0.4	3.8± 0.4**	3.9± 0.4	3.9± 0.4	3.7± 0.4*
4500 ppm	3.4± 0.3**	3.4± 0.3**	3.6± 0.4**	3.5± 0.3**	3.7± 0.4**	3.8± 0.3**	3.6± 0.3**

(HAN260)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

roup Name	Administration	week-day(effective)					
	46-7 (7)	50-7(7)	54-7(7)	58-7(7)	62-7 (7)	66-7(7)	70-7 (7)
Control	4.0± 0.4	4.2± 0.4	4.1± 0.6	4.0± 0.5	4.4± 0.7	4.4± 0.5	4.2± 0.5
500 ppm	4.0± 0.4	4.0± 0.4	4.0± 0.5	4.0± 0.4	4.0± 0.5**	4.2± 0.5	3.9± 0.6*
1500 թթա	3.9± 0.4	3.9± 0.4*	3.7± 0.3**	3.8± 0.4*	4.0± 0.5**	4.0± 0.4**	4.0± 0.4
4500 ppm	3.6± 0.3**	3.7± 0.4**	3.6± 0.4**	3.6± 0.4**	3.8± 0.3**	3.7± 0.4**	3.8± 0.4**
Significant differe	ence; *:P≦0.05 *	* : P ≤ 0.01		Test of Dunnett			
HAN260)							

ANIMAL : MOUSE Crj:BDF1

UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

PAGE: 11

oup Name	Administration v 74-7(7)	week-day(effective) 78-7(7)	82-7 (7)	86-7(7)	90-7(7)	94-7(7)	98-7 (7)
Control	4.4± 0.5	4.3± 0.6	4.4± 0.5	4.2± 0.6	4.5± 0.8	4.8± 0.6	4.5± 1.0
500 ppm	4.1± 0.5**	4.2± 0.6	4.0± 0.7*	4.3± 0.6	4.4± 0.6	4.5± 1.0	4.3± 0.7
1500 ррш	3.8± 0.4**	4.0± 0.3**	3.8± 0.5**	4.0± 0.5	4.2± 0.4	4.3± 0.5 * *	4.0± 0.5**
4500 ppm	3.6± 0.4**	3.7± 0.4**	3.7± 0.5**	3.7± 0.4**	3.9± 0.5**	4.2± 0.7**	4.0± 0.7**

(HAN260)

ANIMAL : MOUSE Crj:BDF1

UNIT : g

REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Group Name		week-day(effective)		
	102-7 (7)	104-7 (7)		
Control	4.4± 1.1	4.5± 1.0		
500 ppm	4.4± 0.8	4.5 ± 0.7		
1500 ррт	4.2 ± 0.4	4.0± 0.4*		
4500 ppm	4.0± 0.6*	3.8± 0.7**		
4000 ppili	4.0.2 0.0*	3. O ± 0. (**		
Significant differe	ence; $*: P \le 0.05$	** : P ≤ 0.01	Test of Dunnett	
(HAN260)				BAIS

APPENDIX E 1

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

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day

REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

roup 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
750 ppm	0.116± 0.021	0.107± 0.024	0.108± 0.024	0.100± 0.023	0.098± 0.019	0.100± 0.019	0.098± 0.017
1500 ррт	0.197± 0.025	0.170± 0.024	0.168± 0.024	0.163± 0.031	0.167± 0.031	0.173± 0.033	0.162± 0.027
3000 ppm	0.326± 0.052	0.278± 0.042	0.286± 0.045	0.276± 0.046	0.279± 0.047	0.277± 0.057	0.288± 0.056

(HAN300)

BAIS 3

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day REPORT TYPE : A1 104

SEX : MALE

PAGE: 2

Group Name	Administration	(weeks)					
	8	9	10	11	12	13	14
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
750 ppm	0.090± 0.016	0.086± 0.016	0.079± 0.015	0.077± 0.013	0.075± 0.012	0.071± 0.011	0.071± 0.011
1500 ррш	0.147± 0.023	0.140± 0.022	0.131± 0.018	0.130± 0.018	0.128± 0.019	0.124± 0.022	0. 123± 0. 020
3000 ppm	0.259 ± 0.046	0.257± 0.044	0.248± 0.054	0.241± 0.037	0.234± 0.038	0.223 ± 0.036	0.223± 0.034

(HAN300)

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day

REPORT TYPE : A1 104

SEX : MALE

PAGE: 3

Group Name	Administration	(weeks)					
	18	22	26	30	34	38	42
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
750 ppm	0.064± 0.009	0.057± 0.008	0.059± 0.006	0.058± 0.007	0.057± 0.006	0.056± 0.006	0.058± 0.007
1500 ррт .	0.109± 0.016	0.105± 0.017	0.106± 0.016	0.105± 0.023	0.102± 0.016	0.102± 0.016	0.106± 0.017
3000 ppm	0.203± 0.029	0.197± 0.029	0.194± 0.026	0.186± 0.023	0.193± 0.027	0.193± 0.030	0.196± 0.029

(HAN300)

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

REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Froup 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	
750 ppm	0.058± 0.007	0.055± 0.007	0.056± 0.007	0.056± 0.010	0.056± 0.006	0.056± 0.007	0.055± 0.007	
1500 ррт	0.105± 0.014	0.102± 0.014	0.103± 0.016	0.100± 0.030	0.104± 0.018	0.106± 0.024	0.108± 0.026	
3000 ppm	0.194± 0.023	0.191± 0.030	0.195± 0.033	0.193± 0.028	0.191± 0.030	0.197± 0.030	0.198± 0.029	

(HAN300)

BAIS 3

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day

REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Administration	(weeks)					
74	78	82	86	90	94	98
0.000± 0.000	0.000 ± 0.000	0.000± 0.000	0.000± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
0.056± 0.010	0.056± 0.009	0.055± 0.012	0.059± 0.012	0.063± 0.018	0.063± 0.013	0.064± 0.012
0.108± 0.026	0.111± 0.030	0.107 ± 0.031	0.108± 0.035	0.117± 0.034	0.120 ± 0.038	0.122± 0.036
0.200 ± 0.030	0.207 ± 0.031	0.196 ± 0.032	0.208 ± 0.031	0.211 ± 0.028	0.224 ± 0.032	0.223 ± 0.036
	0.000± 0.000 0.056± 0.010	74 78 0.000 ± 0.000 0.000 ± 0.000 0.056 ± 0.010 0.056 ± 0.009 0.108 ± 0.026 0.111 ± 0.030	74 78 82 0.000 ± 0.000 0.000 ± 0.000 0.000 ± 0.000 0.056 ± 0.010 0.056 ± 0.009 0.055 ± 0.012 0.108 ± 0.026 0.111 ± 0.030 0.107 ± 0.031	74 78 82 86 0.000 \pm 0.000 0.000 \pm 0.000 0.000 \pm 0.000 0.000 \pm 0.000 0.056 \pm 0.010 0.056 \pm 0.009 0.055 \pm 0.012 0.059 \pm 0.012 0.108 \pm 0.026 0.111 \pm 0.030 0.107 \pm 0.031 0.108 \pm 0.035	74 78 82 86 90 0.000± 0.000 0.000± 0.000 0.000± 0.000 0.000± 0.000 0.000± 0.000 0.056± 0.010 0.056± 0.009 0.055± 0.012 0.059± 0.012 0.063± 0.018 0.108± 0.026 0.111± 0.030 0.107± 0.031 0.108± 0.035 0.117± 0.034	74 78 82 86 90 94 0.000 ± 0.000 0.000 ± 0.000 0.000 ± 0.000

(HAN300)

BAIS 3

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

REPORT TYPE : A1 104

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

SEX : MALE				PAGE: 6
Group Name	Administration 102	(weeks)		
Control	0.000± 0.000	0.000± 0.000		
750 ppm	0.067± 0.016	0.066± 0.015		
1500 рри	0.128± 0.041	0.125± 0.042		
3000 ppm	0.224± 0.034	0.215± 0.037		

(HAN300)

APPENDIX E 2

CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day

REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration (weeks)					
	1	2	3	4	5	6	7
· · · · · · · · · · · · · · · · · · ·							·
Control	0.000 ± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
500 ppm	0.088± 0.018	0.093 ± 0.020	0.086 ± 0.014	0.076 ± 0.007	0.077± 0.008	0.076 ± 0.007	0.075± 0.008
1500 ppm	0.236 ± 0.044	0.223 ± 0.026	0.214 ± 0.027	0.190 ± 0.019	0.190 ± 0.021	0.187 ± 0.019	0.192 ± 0.019
4500 ppm	0.491 ± 0.054	0.449 ± 0.063	0.452 ± 0.063	0.408 ± 0.050	0.414 ± 0.057	0.428 ± 0.051	0.430 ± 0.051

PAGE: 7

(HAN300) BAIS 3

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

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 8

Group Name	Administration	(weeks)					
	8	9	10	11	12	13	14
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
500 ppm	0.075± 0.009	0.071± 0.008	0.071 ± 0.009	0.071± 0.009	0.070± 0.011	0.067± 0.008	0.067± 0.007
1500 թթո	0.182± 0.025	0.179± 0.021	0.176± 0.025	0.179± 0.022	0.172± 0.025	0.173± 0.022	0. 168± 0. 027
4500 ppm	0.417± 0.052	0.415± 0.056	0.422± 0.051	0.415± 0.048	0.404± 0.049	0.414± 0.041	0.401± 0.052

(HAN300)

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

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 9

Group Name	Administration	(weeks)					
	18	22	26	30	34	38	42
	· - ·						
Control	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000	0.000± 0.000	0.000± 0.000	0.000 ± 0.000	0.000 ± 0.000
500 ppm	0.062± 0.007	0.058± 0.008	0.056± 0.008	0.056± 0.008	0.057± 0.008	0.054± 0.007	0.053± 0.008
1500 ppm	0.151 ± 0.022	0.143± 0.019	0.148± 0.017	0.145± 0.020	0.144± 0.022	0.134± 0.018	0.137± 0.019
4500 ppm	0.378 ± 0.053	0.337 ± 0.047	0.266 ± 0.050	0.341 ± 0.044	0.367 ± 0.044	0.331 ± 0.039	0.344 ± 0.040

(HAN300)

ANIMAL : MOUSE Crj:BDF1

UNIT : g/kg/day REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 10

roup 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
500 ppm	0.051± 0.008	0.051± 0.008	0.051± 0.008	0.050± 0.008	0.048± 0.009	0.052± 0.008	0.049± 0.007
1500 թթա	0.132± 0.020	0.133± 0.018	0.133± 0.018	0.137± 0.018	0.128± 0.019	0.139± 0.018	0.136± 0.023
4500 ppm	0.341± 0.034	0.339± 0.039	0.351± 0.039	0.377± 0.040	0.357± 0.047	0.372± 0.049	0.350± 0.040

(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
500 ppm	0.049± 0.008	0.050± 0.009	0.048± 0.011	0.055± 0.025	0.054± 0.015	0.052± 0.015	0.058± 0.024
1500 ррш	0.132± 0.036	0.133± 0.054	0.148± 0.077	0. 153± 0. 086	0.149± 0.030	0.154± 0.046	0.146± 0.023
4500 ppm	0.356± 0.052	0.358± 0.060	0.345± 0.074	0.370± 0.076	0.394± 0.092	0.427± 0.121	0.422± 0.137

(HAN300)

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

REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 12

oup Name	Administration				
	102	104		•	
Control	0.000± 0.000	0.000 ± 0.000			
500 ppm	0.054 ± 0.021	0.056 ± 0.013			
		•			
1500 ppm	0.155 ± 0.022	0.155± 0.028			
4500 ppm	0.435 ± 0.110	0.443 ± 0.147			

(HAN300)

APPENDIX F 1

HEMATOLOGY: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 1

oup Name	NO. of Animals	RED BLO 1 O⁵∕µ		HEMOGLO g/dl	BIN	нематос %	RIT	MCV f &		MCH pg		MCHC g/dl		PLATELE 1 Ο³/μ	
Control	34	9.55±	0.81	13.6±	1.2	43.8±	3. 5	45.9±	1.5	14.2±	0.5	30.9±	0.7	1817±	347
750 ppm	31	9.67±	1. 37	13.6±	1.8	44.2±	5. 4	46.0±	3.0	14.1±	0.6	30.8±	1.0	1856±	501
1500 ppm	35	9.83±	0.86	13.7±	1.0	44.4±	3. 3	45.2±	1.6	14.0±	0.6	30.9±	0.6	1830±	302
3000 ppm	40	9.52±	0.79	13.5±	1. 1	44.0±	3. 4	46.3±	1. 1	14.2±	0. 4	30.7±	0.6	1941±	218

(HCL070)

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 2

oup Name	NO. of Animals	WBC 1 O ³ /		Dif N-BAND	fferentia	1 WBC (% N-SEG	6)	EOSINO		BASO		MONO		LYMPHO		OTHER .	
Control	34	2.94±	1.51	1±	1	27生	9	2±	2	0±	0	4±	2	65±	11	1±	2
750 ppm	31	2.88±	1.60	2±	2	32±	15	1±	1	0±	0	5生	2	59±	17	1±	2
1500 ppm	35	2.25±	1.00	$2\pm$	2	30±	13	1±	1	0±	0	4±	2	61±	15	2±	3*
3000 ppm	40	2.01±	2. 56**	1±	2	25±	12	1±	1	0±	0	4±	2	67±	14	1±	2

(HCL070)

APPENDIX F 2

HEMATOLOGY: SUMMARY, MOUSE: FEMALE

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1 MEASURE. TIME: 1

SEX : FEMALE REPORT TYPE : A1 PAGE: 3

roup Name	NO. of Animals	RED BLOOD CELL 1 O ⁶ /µl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV f l	MCH pg	MCHC g∕dl	PLATELET 1 0³/µl
Control	28	9. 42± 1. 83	13.7 ± 2.4	43.7± 7.4	46.9± 4.2	14.6± 0.9	31.2± 1.1	1075± 304
500 ppm	24	9.04± 1.66	12.9± 2.3	42.0± 6.8	46.8± 3.5	14.4± 0.7	30.8± 1.1	1111± 293
1500 ppm	24	9.40± 1.45	13.3± 2.1	43.1± 5.4	46.3± 3.5	14.1± 0.5	30.7± 1.9	1180± 313
4500 ppm	33	9.23± 1.51	12.9± 2.1	42. 2± 6. 3	46.0± 2.3	14.0± 0.5**	30.5± 1.1**	1336± 241**

(HCL070) BAIS 3

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 4

oup Name	NO. of Animals	WBC 1 O³/µl	Di N-BAND	fferentia	I WBC (% N-SEG	6)	EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	28	3.99± 9.86	2±	3	28±	14	$2\pm$	3	0±	0	5±	3	55±	17	8生	13
500 ppm	24	2.00± 1.22	2±	3	29±	13	1±	1	0±	0	4±	3	58±	18	5±	16
1500 ppm	24	1.45± 0.72	2±	2	26±	9	1±	1	0±	0	5±	2	63±	14	4±	6
4500 ppm	33	3.25± 10.52	4±	3	28±	11	1±	1	0±	0	5±	3	61±	14	2±	5

(HCL070)

APPENDIX G 1

BIOCHEMISTRY: SUMMARY, MOUSE: MALE

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 F g/dl	PROTEIN	ALBUMIN g/dl	· · · · · · · · · · · · · · · · · · ·	A/G RAT	10	T-BILI mg/dl		GLUCOSE mg/dl		T-CHOLES mg∕dl	STEROL	TRIGLYCH mg/dl	ERIDE
Control	35	5.1±	0. 5	2.8±	0.3	1.2±	0.1	0.13±	0.03	204±	36	110±	28	42±	18
750 ppm	33	5.3±	0.7	2.9±	0.5	1.2±	0.2	0.13±	0.03	186±	40	122±	49	48±	81
1500 ppm	36	5.1±	0.5	2.8±	0.3	1.2±	0.2	0.13±	0.03	188±	43	109±	44	32±	13*
3000 ppm	41	4.9±	0. 4*	2.8±	0.2	1.3±	0.1**	0.13±	0.02	204±	22	102±	20	31±	11*

BAIS 3 (HCL074)

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 2

oup Name	NO. of Animals	PHOSPHOI mg/dl	LIPID	GOT I U / S	2	GPT IU/J	2	LDH I U/	e	ALP I U/l		G-GTP IU/l		CPK I U / 2	!
Control	35	201±	42	112生	253	54±	118	553±	1049	129±	44	2±	1	52±	22
750 ppm	33	218±	73	246±	768*	166±	536	770±	1585	138±	74	2±	1	63±	33
1500 ppm	36	196±	48	102±	158	65±	128	450±	555	139±	85	2±	2	$59\pm$	36
3000 ppm	41	198±	30	52±	11	22±	10**	265±	87	130±	19	$2\pm$	3	61±	29

BAIS 3 (HCL074)

ANIMAL : MOUSE Crj:BDF1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : MALE

REPORT TYPE : A1

PAGE: 3

oup Name	NO. of Animals	URE∧ NITROGE mg∕dl	N SODIU m Eq.		POTASSI m Eq / ;		CHLORIDE m Eq / l		CALCIUM mg/dl		INORGAN mg/dl	IC PHOSPHORUS
Control	35	21.8± 2.5	153±	: <u>1</u>	4.4±	0. 4	122±	3	8.8±	0. 4	6.6±	0.8
750 ppm	33	23.6± 5.8	154±	1	4.3±	0.5	122±	3	8.9±	0.6	6.5±	0.8
1500 ppm	36	24. 2± 11. 1	154±	1	4.1±	0.7**	122±	3	8.7±	0. 4	6.7±	1. 0
3000 ppm	41	21.9± 3.8	154±	2	4.1±	0.5**	121±	3	8.6±	0.3	6.3±	0.8

(HCL074) BAIS 3

APPENDIX G 2

BIOCHEMISTRY: SUMMARY, MOUSE: FEMALE

BIOCHEMISTRY (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 4

oup Name	NO. of Animals	TOTAL F	PROTEIN	ALBUMIN g∕dl		A/G RAT	10	T-BILI mg∕dl		GLUCOSE mg/dl		T-CHOLES mg∕dl	STEROL	TRIGLYCE mg/dl	ERIDE
Control	30	5.2±	1. 1	2.8±	0.4	1.2±	0.3	0.14±	0.03	130±	41	78±	36	30±	17
500 ppm	24	5.2±	0.7	2.9±	0.5	1.3±	0.2	0.15±	0.07	149±	37	98±	57	29±	15
1500 ppm	26	4.9±	0.3	2.8生	0.2	1.4生	0. 2*	0.13±	0.03	147±	22	75±	15	25±	14
4500 ppm	34	4.7±	0.4*	2.8±	0.3	1.5±	0. 2**	0.12±	0. 02	157±	31**	92±	16**	19±	11**

(HCL074)

BIOCHEMISTRY (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 5

oup Name	NO. of Animals	PHOSPHO mg/dl	LIPID	GOT IU/J	2	GPT I U∕ 2		LDH IU/	e	ALP I U/	2	G-GTP IU/l		CPK IU/l	!
Control	30	141±	55	96±	52	43±	34	548±	559	191±	82	2±	1	99±	77
500 ppm	24	182±	104	84±	33	40±	29	403±	524	203±	119	2±	2	75±	71
1500 ppm	26	145±	26	76±	23	28±	10	462±	752	310±	258**	2±	2	77±	35
4500 ppm	34	172±	24**	85±	114**	28±	18**	495±	1365**	255±	94**	2±	2	89±	77

(HCL074)

BIOCHEMISTRY (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (105W)

MEASURE. TIME: 1

SEX: FEMALE

REPORT TYPE : A1

PAGE: 6

oup Name	NO. of Animals	UREA NITROGEN mg∕dl	SODIUM m Eq / L	POTASSIUM m Eq / L	CHLORIDE m Eq / l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl	
Control	30	23.3± 14.1	154± 4	4.3± 0.8	123± 4	8.8± 0.5	6.8± 1.4	
500 ppm	24	19.9± 8.4	152± 2	4.0± 0.5	122± 3	9.2± 0.9	6.4± 0.7	
1500 ppm	26	18.8± 4.5	154± 2	4.1± 0.4	123± 2	8.9± 0.4	6.8± 0.9	
4500 ppm	34	21.9± 11.5	153± 2	4.2± 0.4	121± 3*	8.8± 0.3	5.7± 1.1**	

(HCLO74) BAIS 3

APPENDIX H 1

URINALYSIS: SUMMARY, MOUSE: MALE

URINALYSIS

ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE: 1

Group Name	NO. of	На								Protein		Glucose	Ketone body	Occult blood
•	Animals	5. 0	6.0	6.5	7. 0	7.5	8. 0	8.5	CHI	- ± + 2+ 3+ 4+ CI	II	$-\pm +2+3+4+$ CIII	- ± + 2+ 3+ 4+ CHI	- ± + 2+ 3+ CHI
	·													
Control	37	0	3	6	16	12	0	0		0 0 31 3 2 1		37 0 0 0 0 0	29 7 1 0 0 0	28 3 1 1 4
750 ppm	36	0	6	19	9	2	0	0	**	0 3 21 11 0 1 *		36 0 0 0 0 0	13 14 8 1 0 0 **	29 1 1 0 5
1500 ppm	39	0	4	32	2	0	1	0	**	0 0 17 19 2 1 **	¢	39 0 0 0 0 0	11 13 12 2 1 0 **	37 0 0 0 2
3000 ppm	43	0	10	33	0	0	0	0	**	0 0 14 28 1 0 **	k	43 0 0 0 0 0	10 20 11 2 0 0 **	39 1 0 0 3

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

Test of CHI SQUARE

(HCL101)

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

(HCL101)

SEX : MALE	REPORT	TYPE : A1		PAGE: 2
Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI	·	
Control	37	37 0 0 0 0		
750 ppm	36	36 0 0 0 0		
1500 ppm	39	39 0 0 0 0		
3000 ppm	43	43 0 0 0 0		
Significant	difference	; *: P ≤ 0.05 **:	≦ 0.01 Test of CHI SQUARE	

APPENDIX H 2

URINALYSIS: SUMMARY, MOUSE: FEMALE

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 3

oup Name	NO. of	pH_								Protein	Glucose	Ketone body	Occult blood
	Animals	5. 0	6.0	6.5	7. 0	7. 5	8.0	8. 5	CHI	- ± + 2+ 3+ 4+ CIII	- ± + 2+ 3+ 4+ CIII	- ± + 2+ 3+ 4+ CIII	- ± + 2+ 3+ CHI
Control	31	0	1	5	1	3	19	2		0 0 17 13 1 0	31 0 0 0 0 0	9 18 4 0 0 0	24 4 0 0 3
500 բբա	24	0	0	. 3	6	4	11	0		0 0 9 15 0 0	24 0 0 0 0 0	1 20 3 0 0 0	20 3 0 0 1
1500 ppm	27	0	1	9	7	6	4	0	**	0 0 13 12 2 0	27 0 0 0 0 0	0 11 10 6 0 0 **	22 0 1 3 1
4500 ppm	36	0	5	23	4	3	1	0	**	0 0 7 25 4 0 **	36 0 0 0 0 0	4 14 11 7 0 0 **	19 5 1 3 8

(HCL101)

ANIMAL : MOUSE Crj:BDF1 MEASURE. TIME: 1

URINALYSIS

SEX : FEMALE	REPORT	TYPE: A1		PAGE: 4
Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI		
Control	31	31 0 0 0 0		
500 ррт	24	24 0 0 0 0		
1500 ppm	27	27 0 0 0 0		
4500 ppm	36	36 0 0 0 0		
Significant	t difference	; *: $P \le 0.05$ **: $P \le 0.01$	Test of CHI SQUARE	
(HCL101)				BAIS 3

APPENDIX I 1

GROSS FINDINGS: SUMMARY, MOUSE: MALE ALL ANIMALS

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

rgan	Findings		Control (%)	750 ppm 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)
kin/app	nodule	1	(2)	0 (0)	0 (0)	0 (0)
	scab	1	(2)	0 (0)	1 (2)	0 (0)
ubcutis	edema	0	(0)	2 (4)	1 (2)	1 (2)
	mass	1	(2)	1 (2)	2 (4)	1 (2)
ung	white	0	(0)	1 (2)	0 (0)	0 (0)
	white zone	1	(2)	1 (2)	1 (2)	0 (0)
	red zone	1	(2)	1 (2)	1 (2)	1 (2)
	nodule	5	(10)	4 (8)	6 (12)	3 (6)
mpli node	enlarged	5	(10)	11 (22)	6 (12)	3 (6)
leen	enlarged	3	(6)	4 (8)	4 (8)	3 (6)
	white zone	0	(0)	1 (2)	0 (0)	0 (0)
	black zone	2	(4)	1 (2)	3 (6)	0 (0)
	nodule	1	(2)	2 (4)	1 (2)	0 (0)
orestomach	nodule	0	(0)	0 (0)	1 (2)	5 (10)
	ulcer	1	(2)	0 (0)	1 (2)	1 (2)
l stomach	ulcer	1	(2)	0 (0)	0 (0)	0 (0)
	thick	9	(18)	7 (14)	9 (18)	0 (0)
odenum	dilated	0	(0)	1 (2)	0 (0)	0 (0)
all intes	nodule	0	(0)	1 (2)	0 (0)	0 (0)
	adhesion	0	(0)	1 (2)	1 (2)	0 (0)
	dilated	0	(0)	1 (2)	0 (0)	0 (0)
ecum	nodule	0	(0)	0 (0)	1 (2)	0 (0)

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : MALE

Group Name 750 ppm 1500 ppm 3000 ppm Control Organ_ Findings_ NO. of Animals 50 (%) 50 (%) 50 (%) 50 (%) liver 2 (4) 3 (6) 0 (0) 2 (4) enlarged 2 (4) 1 (2) white zone 1 (2) 2 (4) red zone 1 (2) 1 (2) 0 (0) 2 (4) nodule 16 (32) 18 (36) 9 (18) 4 (8) rough 0 (0) 0 (0) 1 (2) 0 (0) pancreas thick 0 (0) 1 (2) 0 (0) 0 (0) kidney 0 (0) 0 (0) 0 (0) enlarged 1 (2) 0 (0) 0 (0) 0 (0) atrophic 2 (4) white zone 0 (0) 1 (2) 0 (0) 0 (0) brown zone 1 (2) 0 (0) 0 (0) 0 (0) nodule 0 (0) 0 (0) 1 (2) 0 (0) deformed 0 (0) 1 (2) 0 (0) 0 (0) hydronephrosis 1 (2) 5 (10) 6 (12) 3 (6) urin bladd nodule 0 (0) 1 (2) 1 (2) 0 (0) urine:marked retention 3 (6) 0 (0) 1 (2) 1 (2) pituitary enlarged 0 (0) 0 (0) 1 (2) 1 (2) opididymis nodule 1 (2) 1 (2) 0 (0) 2 (4) enlarged semin ves 1 (2) 0 (0) 0 (0) 0 (0) prep/cli gl nodule 0 (0) 1 (2) 1 (2) 0 (0) Harder gl enlarged 1 (2) 1 (2) 2 (4) 0 (0) nodule 1 (2) 1 (2) 2 (4) 1 (2)

1 (2)

0 (0)

0 (0)

Zymbal gl

nodule

0 (0)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

Group Name Control 750 ppm 1500 ppm 3000 ppm

Organ	Findings	Group Name Control NO. of Animals 50 (%)	750 ppm 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)
abdominal c	ascites	1 (2)	2 (4)	0 (0)	0 (0)
mesenterium	nodule	1 (2)	0 (0)	0 (0)	0 (0)
thoracic ca	pleural fluid	2 (4)	4 (8)	2 (4)	2 (4)
other	ear:nodule	0 (0)	0 (0)	1 (2)	0 (0)
	hindlimb:nodule	0 (0)	1 (2)	0 (0)	0 (0)
	lower jaw:nodule	0 (0)	0 (0)	1 (2)	0 (0)
	ear:absence	0 (0)	0 (0)	1 (2)	0 (0)

(HPT080)

BAIS 3

APPENDIX I 2

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE ALL ANIMALS (2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

an	Findings	Group Name NO. of Animals	Control 50 (%)	500 ppm 50 (%)	1500 ppm 49 (%)	4500 ppm 50 (%)
n/app	edema		0 (0)	0 (0)	1 (2)	0 (0)
cutis	edema		2 (4)	1 (2)	4 (8)	0 (0)
	mass		3 (6)	2 (4)	0 (0)	3 (6)
g	red		1 (2)	3 (6)	0 (0)	1 (2)
	brown		1 (2)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	1 (2)	0 (0)	0 (0)
	edema		0 (0)	2 (4)	0 (0)	0 (0)
	nodule		2 (4)	1 (2)	1 (2)	2 (4)
lı 110de	enlarged		12 (24)	11 (22)	10 (20)	7 (14)
ius	enlarged		0 (0)	0 (0)	0 (0)	2 (4)
en	enlarged		12 (24)	11 (22)	7 (14)	2 (4)
	nodule		0 (0)	0 (0)	1 (2)	2 (4)
gue	nodule		0 (0)	1 (2)	0 (0)	0 (0)
estomach	nodu1e		0 (0)	3 (6)	0 (0)	9 (18)
	thick		0 (0)	0 (0)	0 (0)	16 (32)
stomach	ulcer		1 (2)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	5 (10)	2 (4)	1 (2)
llintes	nodule		1 (2)	0 (0)	0 (0)	0 (0)
m	dilated		0 (0)	0 (0)	0 (0)	5 (io)
r	enlarged		3 (6)	3 (6)	7 (14)	6 (12)
	white zone		3 (6)	4 (8)	5 (10)	5 (10)
	red zone		3 (6)	2 (4)	1 (2)	0 (0)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

DACH *	5
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an	Findings	Group Name Control NO. of Animals 50 (%)	500 ppm 50 (%)	1500 ppm 49 (%)	4500 ppm 50 (%)
er	nodule	7 (14)	11 (22)	9 (18)	5 (10)
	cyst	0 (0)	1 (2)	1 (2)	0 (0)
	rough	1 (2)	0 (0)	0 (0)	0 (0)
	adhesion	0 (0)	0 (0)	0 (0)	1 (2)
пөу	enlarged	1 (2)	0 (0)	0 (0)	0 (0)
	atrophic	0 (0)	0 (0)	1 (2)	0 (0)
	white zone	i (2)	1 (2)	0 (0)	1 (2)
	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	1 (2)
	nodular	. 0 (0)	1 (2)	0 (0)	0 (0)
	hydronephrosis	1 (2)	3 (6)	3 (6)	4 (8)
ter	dilated	0 (0)	1 (2)	0 (0)	1 (2)
n bladd	white zone	0 (0)	0 (0)	1 (2)	0 (0)
	red zone	0 (0)	0 (0)	1 (2)	0 (0)
	nodule	0 (0)	0 (0)	1 (2)	0 (0)
	urine:marked retention	1 (2)	0 (0)	1 (2)	1 (2)
uitary	enlarged	2 (4)	3 (6)	1 (2)	0 (0)
	red zone	2 (4)	2 (4)	0 (0)	1 (2)
	nodule	1 (2)	4 (8)	1 (2)	0 (0)
гу	enlarged	4 (8)	2 (4)	7 (14)	2 (4)
	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	cyst	15 (30)	12 (24)	8 (16)	14 (28)

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

GROSS FINDINGS (SUMMARY)

REPORT TYPE : A1
SEX : FEMALE

ALL ANIMALS (0-105W)

rgan	Findings	Group Name NO. of Animals	Control 50 (%)	500 ppm 50 (%)	1500 ppm 49 (%)	4500 ppm 50 (%)
terus	nodule		5 (10)	6 (12)	13 (27)	9 (18)
	cyst		0 (0)	0 (0)	0 (0)	1 (2)
	dilated		1 (2)	0 (0)	0 (0)	2 (4)
ain	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
rder gl	nodule		0 (0)	1 (2)	1 (2)	0 (0)
ne	nodule		0 (0)	0 (0)	1 (2)	0 (0)
rtebra	elevated		0 (0)	0 (0)	1 (2)	0 (0)
liastinum	mass		1 (2)	2 (4)	3 (6)	1 (2)
itoneum	cyst		0 (0)	1 (2)	0 (0)	0 (0)
	thick		1 (2)	1 (2)	0 (0)	1 (2)
roperit	mass		0 (0)	0 (0)	1 (2)	0 (0)
lominal c	hemorrhage		3 (6)	0 (0)	0 (0)	0 (0)
	pleural fluid		0 (0)	0 (0)	1 (2)	0 (0)
	ascites		8 (16)	6 (12)	9 (18)	2 (4)
oracic ca	hemorrhage		0 (0)	2 (4)	1 (2)	0 (0)
	pleural fluid		11 (22)	12 (24)	10 (20)	2 (4)
ole body	anemic		0 (0)	2 (4)	0 (0)	0 (0)

(HPT080)

APPENDIX I 3

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

GROSS FINDINGS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name Control NO. of Animals 13 (%)	750 ppm 14 (%)	1500 ppm 12 (%)	3000 ppm 7 (%)
skin/app	nodule	1 (8)	0 (0)	0 (0)	0 (0)
	scab	0 (0)	0 (0)	1 (8)	0 (0)
subcutis	edema	0 (0)	2 (14)	1 (8)	1 (14)
	nass	0 (0)	1 (7)	2 (17)	1 (14)
lung	red zone	1 (8)	0 (0)	1 (8)	1 (14)
	nodule	2 (15)	0 (0)	3 (25)	0 (0)
lymph node	enlarged	3 (23)	6 (43)	3 (25)	0 (0)
spleen	enlarged	2 (15)	2 (14)	2 (17)	2 (29)
	White zone	0 (0)	1 (7)	0 (0)	0 (0)
	nodule	1 (8)	1 (7)	1 (8)	0 (0)
Corestomach	ulcer	1 (8)	0 (0)	0 (0)	0 (0)
gl stomach	ulcer	1 (8)	0 (0)	0 (0)	0 (0)
small intes	adhesion	0 (0)	1 (7)	1 (8)	0 (0)
	dilated	0 (0)	1 (7)	0 (0)	0 (0)
liver	enlarged	2 (15)	3 (21)	0 (0)	2 (29)
	white zone	1 (8)	1 (7)	1 (8)	1 (14)
	red zone	1 (8)	0 (0)	0 (0)	0 (0)
	${\tt nodule}$	5 (38)	3 (21)	0 (0)	0 (0)
	rough	0 (0)	0 (0)	0 (0)	1 (14)
pancreas	thick	0 (0)	1 (7)	0 (0)	0 (0)
kidney	enlarged	0 (0)	1 (7)	0 (0)	0 (0)
	white zone	0 (0)	1 (7)	0 (0)	0 (0)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

PAGE: 2

rgan	Findings	Group Name Con NO. of Animals 13 (9	trol 750 ppm 6) 14 (%)	1500 ppm 12 (%)	3000 ppm 7 (%)
idney	brown zone	1 (8) 0 (0)	0 (0)	0 (0)
Idnoy	hydronephrosis	1 (2 (17)	2 (29)
rin bladd	urine:marked retention	2 (15) 0 (0)	1 (8)	1 (14)
ituitary	enlarged	0 (0) 0 (0)	1 (8)	0 (0)
oididymis	nodule	1 (8) 1 (7)	0 (0)	2 (29)
nin ves	enlarged	1 (8) 0 (0)	0 (0)	0 (0)
rder gl	enlarged	0 (0) 0 (0)	1 (8)	0 (0)
	nodule	0 (0 (0)	1 (8)	0 (0)
mbal gl	nodule	1 (8) 0 (0)	0 (0)	0 (0)
dominal c	ascites	1 (8) 1 (7)	0 (0)	0 (0)
oracic ca	pleural fluid	1 (8) 4 (29)	2 (17)	2 (29)
her	hindlimb:nodule	0 (0) 1 (7)	0 (0)	0 (0)
	ear:absence	0 (0) 0 (0)	1 (8)	0 (0)

(HPT080)

APPENDIX I 4

GROSS FINDINGS: SUMMARY, MOUSE: FEMALE

DEAD AND MORIBUND ANIMALS

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : FEMALE

Organ	Findings	Group Name NO. of Animals	Control 19 (%)	500 ppm 26 (%)	1500 ppm 22 (%)	4500 ppm 14 (%)
skin/app	edema		0 (0)	0 (0)	1 (5)	0 (0)
subcutis	edema		2 (11)	1 (4)	4 (18)	0 (0)
	mass		2 (11)	1 (4)	0 (0)	2 (14)
lung	red		1 (5)	3 (12)	0 (0)	1 (7)
	red zone		0 (0)	1 (4)	0 (0)	0 (0)
	edema		0 (0)	2 (8)	0 (0)	0 (0)
	nodule		1 (5)	0 (0)	0 (0)	1 (7)
lymph node	enlarged		7 (37)	8 (31)	6 (27)	3 (21)
thymus	enlarged		0 (0)	0 (0)	0 (0)	1 (7)
spleen	enlarged		10 (53)	8 (31)	5 (23)	2 (14)
	nodule		0 (0)	0 (0)	1 (5)	0 (0)
tongue	nodule		0 (0)	1 (4)	0 (0)	0 (0)
forestomach	thick		0 (0)	0 (0)	0 (0)	1 (7)
gl stomach	thick		0 (0)	0 (0)	0 (0)	1 (7)
liver	enlarged		3 (16)	3 (12)	6 (27)	6 (43)
	white zone		3 (16)	3 (12)	5 (23)	5 (36)
	red zone		1 (5)	0 (0)	1 (5)	0 (0)
	nodule		1 (5)	6 (23)	4 (18)	2 (14)
	cyst		0 (0)	0 (0)	1 (5)	0 (0)
	rough		1 (5)	0 (0)	0 (0)	0 (0)
	adhesion		0 (0)	0 (0)	0 (0)	1 (7)
kidney	enlarged		1 (5)	0 (0)	0 (0)	0 (0)

GROSS FINDINGS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name NO. of Animals	Control 19 (%)	500 ppm 26 (%)	1500 ppm 22 (%)	4500 ppm 14 (%)
kidney	atrophic		0 (0)	0 (0)	1 (5)	0 (0)
	white zone		0 (0)	0 (0)	0 (0)	1 (7)
	nodule		0 (0)	1 (4)	0 (0)	0 (0)
	nodular		0 (0)	1 (4)	0 (0)	0 (0)
	hydronephrosis		1 (5)	3 (12)	2 (9)	0 (0)
ureter	dilated		0 (0)	1 (4)	0 (0)	0 (0)
urin bladd	white zone		0 (0)	0 (0)	1 (5)	0 (0)
	red zone		0 (0)	0 (0)	1 (5)	0 (0)
	nodule		0 (0)	0 (0)	1 (5)	0 (0)
	urine:marked retention		0 (0)	0 (0)	1 (5)	1 (7)
pituitary	enlarged		1 (5)	1 (4)	1 (5)	0 (0)
	red zone		0 (0)	1 (4)	0 (0)	0 (0)
ovary	enlarged		3 (16)	2 (8)	6 (27)	2 (14)
	cyst		4 (21)	4 (15)	2 (9)	3 (21)
uterus	nodule		3 (16)	4 (15)	9 (41)	7 (50)
	cyst		0 (0)	0 (0)	0 (0)	1 (7)
brain	hemorrhage		0. (0)	1 (4)	0 (0)	0 (0)
Harder gl	nodule		0 (0)	1 (4)	0 (0)	0 (0)
mediastinum	wass		1 (5)	2 (8)	3 (14)	1 (7)
peritoneum	thick		1 (5)	1 (4)	0 (0)	1 (7)
retroperit	mass		0 (0)	0 (0)	1 (5)	0 (0)
abdominal c	hemorrhage		2 (11)	0 (0)	0 (0)	0 (0)

GROSS FINDINGS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

Organ	Findings	Group Name Control NO. of Animals 19 (%)	500 ppm 26 (%)	1500 ppm 22 (%)	4500 ppm 14 (%)
bdominal c	ascites	6 (32)	6 (23)	7 (32)	2 (14)
horacic ca	hemorrhage	0 (0)	2 (8)	1 (5)	0 (0)
	pleural fluid	7 (37)	11 (42)	10 (45)	2 (14)
whole body	anemic	0 (0)	2 (8)	0 (0)	0 (0)

APPENDIX I 5

GROSS FINDINGS: SUMMARY, MOUSE: MALE

SACRIFICED ANIMALS

ANIMAL : MOUSE Crj:BDF1

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name Control NO. of Animals 37 (%)	750 ppm 36 (%)	1500 ppm 38 (%)	3000 ppm 43 (%)
skin/app	scab	1 (3)	0 (0)	0 (0)	0 (0)
subcutis	mass	1 (3)	0 (0)	0 (0)	0 (0)
lung	white	0 (0)	1 (3)	0 (0)	0 (0)
	white zone	1 (3)	1 (3)	1 (3)	0 (0)
	red zone	0 (0)	1 (3)	0 (0)	0 (0)
	nodule	3 (8)	4 (11)	3 (8)	3 (7)
lymph node	enlarged	2 (5)	5 (14)	3 (8)	3 (7)
spleen	enlarged	1 (3)	2 (6)	2 (5)	1 (2)
	black zone	2 (5)	1 (3)	3 (8)	0 (0)
	nodule	0 (0)	1 (3)	0 (0)	0 (0)
forestomach	nodule	0 (0)	0 (0)	1 (3)	5 (12)
	ulcer	0 (0)	0 (0)	1 (3)	1 (2)
gl stomach	thick	9 (24)	7 (19)	. 9 (24)	0 (0)
duodenum	dilated	0 (0)	1 (3)	0 (0)	0 (0)
small intes	nodule	0 (0)	1 (3)	0 (0)	0 (0)
cecum	nodule	0 (0)	0 (0)	1 (3)	0 (0)
liver	white zone	1 (3)	0 (0)	1 (3)	0 (0)
	red zone	0 (0)	1 (3)	0 (0)	2 (5)
	nodule	11 (30)	15 (42)	9 (24)	4 (9)
kidney	atrophic	0 (0)	0 (0)	0 (0)	2 (5)
	\mathtt{nodule}	0 (0)	0 (0)	1 (3)	0 (0)
	deformed	0 (0)	1 (3)	0 (0)	0 (0)

STUDY NO. : 0348 ANIMAL : MOUSE

: MOUSE Crj:BDF1

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Group Name Control 750 ppm 1500 ppm 3000 ppm 37 (%) 36 (%) 38 (%) 43 (%) Organ____ Findings__ NO. of Animals 0 (0) 3 (8) 1 (2) 4 (11) kidney hydronephrosis urin bladd nodule 0 (0) 1 (3) 1 (3) 0 (0) urine:marked retention 1 (3) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 1 (2) pituitary enlarged prep/cli gl nodule 0 (0) 1 (3) 1 (3) 0 (0) 1 (3) Harder gl enlarged 1 (3) 1 (3) 0 (0) nodule 1 (3) 1 (3) 1 (3) 1 (2) abdominal c ascites 0 (0) 1 (3) 0 (0) 0 (0) mesenterium nodule 1 (3) 0 (0) 0 (0) 0 (0) pleural fluid 1 (3) 0 (0) 0 (0) 0 (0) thoracic ca other ear:nodule 0 (0) 0 (0) 1 (3) 0 (0) lower jaw:nodule 0 (0) 0 (0) 1 (3) 0 (0)

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(HPT080)

APPENDIX I 6

GROSS FINDINGS: SUMMARY, MOUSE: FEMALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : FEMALE

rgan	Findings	Group Name Control NO. of Animals 31 (%)	500 ppm 24 (%)	1500 ppm 27 (%)	4500 ppm 36 (%)
ubcutis	inass	1 (3)	1 (4)	0 (0)	1 (3)
ung	brown	1 (3)	0 (0)	0 (0)	0 (0)
	nodule	1 (3)	1 (4)	1 (4)	1 (3)
ymph node	enlarged	5 (16)	3 (13)	4 (15)	4 (11)
hymus	enlarged	0 (0)	0 (0)	0 (0)	1 (3)
pleen	enlarged	2 (6)	3 (13)	2 (7)	0 (0)
	nodule	0 (0)	0 (0)	0 (0)	2 (6)
orestomach	nodule	0 (0)	3 (13)	0 (0)	9 (25)
	thick	0 (0)	0 (0)	0 (0)	15 (42)
1 stomach	ulcer	1 (3)	0 (0)	0 (0)	0 (0)
	thick	0 (0)	5 (21)	2 (7)	0 (0)
small intes	nodule	1 (3)	0 (0)	0 (0)	0 (0)
ecum	dilated	0 (0)	0 (0)	0 (0)	5 (14)
iver	enlarged	. 0 (0)	0 (0)	1 (4)	0 (0)
	white zone	0 (0)	1 (4)	0 (0)	0 (0)
	red zone	2 (6)	2 (8)	0 (0)	0 (0)
	nodule	6 (19)	5 (21)	5 (19)	3 (8)
	cyst	0 (0)	1 (4)	0 (0)	0 (0)
idney	white zone	1 (3)	1 (4)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	1 (3)
	hydronephrosis	0 (0)	0 (0)	1 (4)	4 (11)
reter	dilated	0 (0)	0 (0)	0 (0)	1 (3)

: MOUSE Crj:BDF1

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

ANIMAL : MOU REPORT TYPE : A1

SEX : FEMALE

1500 ppm 4500 ppm Group Name 500 ppm Control NO. of Animals 31 (%) 24 (%) 27 (%) 36 (%) Findings_ Organ____ 1 (3) 0 (0) urin bladd urine:marked retention 0 (0) 0 (0) pituitary enlarged 1 (3) 2 (8) 0 (0) 0 (0) 2 (6) 1 (4) 0 (0) 1 (3) red zone nodule 1 (3) 4 (17) 1 (4) 0 (0) 0 (0) 1 (4) 0 (0) enlarged 1 (3) ovary nodule 0 (0) 1 (4) 0 (0) 0 (0) cyst 11 (35) 8 (33) 6 (22) 11 (31) 2 (6) 2 (8) 2 (6) uterus nodule 4 (15) dilated 1 (3) 0 (0) 0 (0) 2 (6) Harder gl nodule 0 (0) 0 (0) 1 (4) 0 (0) nodule 0 (0) 0 (0) 1 (4) 0 (0) bone vertebra elevated 0 (0) 0 (0) 1 (4) 0 (0) peritoneum cyst 0 (0) 1 (4) 0 (0) 0 (0) abdominal c hemorrhage 1 (3) 0 (0) 0 (0) 0 (0) pleural fluid 0 (0) 0 (0) 1 (4) 0 (0) ascites 2 (6) 0 (0) 2 (7) 0 (0) thoracic ca pleural fluid 4 (13) 1 (4) 0 (0) 0 (0)

(HPT080)

APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

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	37	47.5± 6.5	0.010± 0.002	0.207± 0.036	0.227± 0.030	0.225± 0.026	0.616± 0.048	
750 ppm	36	42.3 ± 5.7**	0.009± 0.002	0.227± 0.040*	0.220± 0.027	0.246± 0.150	1. 261± 3. 470	
1500 ррш	38	37.2± 5.1**	0.010± 0.002	0.201± 0.027	0.203± 0.025**	0.216± 0.040	0.690± 0.340	
3000 ppm	43	34.7± 4.5**	0.009 ± 0.002	0.214± 0.030	0.201± 0.018**	0.202± 0.017**	0.636± 0.053	

(IICL040)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

ORGAN WEIGHT: ABSOLUTE (SUMMARY)

SURVIVAL ANIMALS (105W)

UNIT: g PAGE: 2

0.134± 0.219 0.115± 0.116	1.799 ± 0.863 1.805 ± 0.509	0.448± 0.018 0.448± 0.014			
0.115± 0.116	1.805± 0.509	0.448± 0.014			
0.108± 0.139	1.551± 0.340*	0.446± 0.014			
0.078± 0.074**	1.447± 0.205**	0.448± 0.015			
	0.078± 0.074**	0.078± 0.074** 1.447± 0.205**	0.078± 0.074** 1.447± 0.205** 0.448± 0.015	0.078± 0.074** 1.447± 0.205** 0.448± 0.015	0.078± 0.074** 1.447± 0.205** 0.448± 0.015

(IICL040)

APPENDIX J 2

ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

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

Group Name NO. of Body Weight ADRENALS OVARIES HEART LUNGS KIDNEYS

oup Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	31	31.7± 3.8	0.013± 0.002	0.052± 0.052	0.176± 0.024	0.226± 0.049	0.431± 0.065
500 ррт	24	30. 2± 4. 5	0.015± 0.007	0.142± 0.492	0.179± 0.025	0.209± 0.029	0.463± 0.043 *
1500 ppm	27	27.0± 2.7**	0.012± 0.003	0.335± 1.196	0.159± 0.014*	0. 202± 0. 021	0.473± 0.117
4500 ppm	36	24.7生 2.1**	0.012± 0.002	0.067生 0.134	0.155± 0.021**	0.192± 0.035**	0.531 ± 0.243**

PAGE: 3

(IICL040) BAIS 3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

ORGAN WEIGHT: ABSOLUTE (SUMMARY)

SURVIVAL ANIMALS (105W)

UNIT: g PAGE: 4

roup Name	NO. of Animals	SPLEEN	LIVER	BRAIN		
Control	31	0.196± 0.156	1.754± 1.036	0.471± 0.020		
500 ppm	24	0.220± 0.248	1.579± 0.514	0.470± 0.023		
1500 ррш	27	0.158± 0.160	1.470± 0.859*	0.471± 0.017		
4500 ppm	36	0.179± 0.236	1.275± 0.235**	0.453± 0.015**		
Significant	; difference ;	* : P ≤ 0.05 **	: P ≤ 0.01	Test of Dunn	ett	

(HCL040) BAIS 3

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	37	47.5± 6.5	0.021± 0.006	0.445± 0.099	0.482± 0.057	0.481± 0.078	1.313± 0.140
750 բբա	36	42.3± 5.7**	0.022± 0.006	0.547± 0.124**	0.527± 0.076*	0.635± 0.676	2.772± 6.753**
1500 ррт	38	37.2± 5.1**	0.027± 0.008**	0.549± 0.107**	0.552± 0.080**	0.591± 0.126**	1.883± 0.923**
3000 ppm	43	34.7± 4.5**	0.027± 0.007**	0.624生 0.101**	0.585± 0.062**	0.592± 0.084**	1.853

(HCL042)

ANIMAL : MOUSE Crj:BDF1

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

SURVIVAL ANIMALS (105W)

UNIT: %

Group Name NO. of SPLEEN LIVER BRAIN
Animals

up Name	Animals	PLEIN	LIVER	DRAIN	
Control	37	0.317± 0.623	3.866± 2.147	0.960± 0.126	
750 ppm	36	0.288± 0.313	4.346± 1.458**	1.082 ± 0.187**	
1500 ррт	38	0.298± 0.402	4. 240± 1. 212**	1. 222± 0. 169**	
3000 ррт	43	0.227± 0.220	4.222± 0.718**	1. 314± 0. 179**	

(HCL042)

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	31	31.7± 3.8	0.040± 0.007	0.162± 0.152	0.560± 0.089	0.720± 0.154	1.370± 0.200
500 թթա	24	30.2± 4.5	0.050± 0.026	0.441± 1.476	0.605± 0.122	0.708± 0.135	1.560± 0.218**
1500 ppm	27	27.0± 2.7**	0.045± 0.012	1.088± 3.752	0.595± 0.067	0.756± 0.106	1.771± 0.481**
4500 ppm	36	24.7⊥ 2.1**	0.048 \(\text{ 0.009**}	0.268生 0.543	0.632± 0.110**	0.784± 0.195	2. 151± 0. 953**

(HCL042)

ANIMAL : MOUSE Crj:BDF1

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

SURVIVAL ANIMALS (105W)

UNIT: %

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	31	0.624± 0.481	5.505± 2.942	1.508± 0.197	
500 թթա	24	0.711± 0.739	5.270± 1.511	1.597± 0.286	
1500 թթm	27	0.573± 0.514	5.389 ± 2.637	1.767± 0.210**	
4500 ppm	36	0.727⊥ 0.957	5.166 ± 0.885**	1.845± 0.155**	
Significan	t difference ;	* : P ≤ 0.05 **:	P ≤ 0.01	Test of Dunnett	

(IICL042)

BAIS 3

APPENDIX L 1

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

		oup Name of Animals on Study	Con 50	trol					50 p 50	pm				1	500 50	ppm						000 50	ppm	
rgan		1 (%)	(%)	3 (%)	(%)		(%)	(%)		3 %)	(%)	-	1 (%)	(9	3	3 (%)	<u>4</u> (%		(<u>1</u> (%)	2 (%)		3 (%)	(%)
Integumentar	y system/appandage)																							
kin/app	inflammation	0 (0)	<50 0 (0) (0	0 (0)	(0 0)	0		0 0) (0 0)		1 2)	((0	0			0	0		0 0)	0
	hyperplasia:epidermis	1 (2)	0 (0) (0 (0)	0 (0)	(0 0)	0 (0)	(0 0) (0 0)		0	((0	0			0 0) (0 (0)		0	0 (0)
	scab	I (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)
ubcutis	inflammation	0 (0)	<50 0 (0) (0	0 (0)	(0	0		1 2) (0 (0)		0		<50)))) (0	0 (0			0 0) (0		0 0)	0
Respiratory	system)																							
nsal cavit	eosinophilic change:olfactory epithelium	14 (28)	<50 1 (2) (0	0 (0)	(17 34)	1		0 0) (0 ()	(:		(:		0	0 (0			13 26) (1		0 0)	0 (0)
	eosinophilic change:respiratory epitheli	um 2 (4)	2 (4) (0 (0)	0 (0)	(8 16)	0 (0)		0 0) (0 0)	(:	6 (2)	(2		0	0			3 6) (1 (2)		0	0 (0)
rade a > b c) ignificant d	a : Number of animals examined at the site b : Number of animals with lesion c : b / a * 100	Marked 4: Severe	3																					

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Organ		Group Name No. of Animals on Study Grade(%	2		701 3 (%)	4 (%)		<u>1</u> (%)		750 50 2	3 (%)	<u>4</u> (%)	<u>(</u>	<u>1</u> %)	1500 50 2 (%)	0 ppm 0 3 (%)	<u>4</u> (%)	(<u>1</u> (%)		00 ppm 50 3 (%)	<u>4</u> (%)
																			•			
Respiratory	system}																					
uasal cavit	respiratory metaplasia:olfactory epith		: 1		0 0) (0 0)		4 (8)			0	0 (0)		1 2) (<50 0 0)		0 (0)		5 10) (0	50> 0 (0)	0 0)
	respiratory metaplasia:gland	1 (2	. 2	; ;) (0 0) (0		10 (20)	(2		0 0)	0 * (0)	1 (2		3 6)	0 (0)	0 ** (0)		50) (F0	0 0)	0 (0)	0 ** 0)
nasopharynx	eosinophilic change	. 1			0 0) (0 0)		1 (2)			0	0 (0)		3 6) (0	0 (0)		0 0) (0	50> 0 (0)	0 0)
ung	congestion	2 (4			0	0		1 (2)	(,		0	0		1 2) (0	0 (0)		0 (0)	0	50> 0 (0)	0 0)
	hemorrhage	. (0) (1		0	0 0)	•	0 (0)))) (0	0 (0)		0 0) (0 0)	0 (0)	0 (0)		0 0) (0	0 (0)	0
	inflammation	(0) (0		0 0) (0 0)		(0)))) (0	0 (0)		0 0) (0	0 (0)	0 (0)		2 4) (0 0)	0 (0)	0 0)
	inflammatory infiltration	(() (0		0 0) (0		0 (0)	(;	l 2) (0	0	(2 4) (0	0 (0)	0 (0)		1 2) (1 2)	0 (0)	0 0)
(a) b (c)	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100 ifference; *: P ≤ 0.05 **: P ≤																					

(IIPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name No. of Animals on Study Grade	Cont 50 2 (%)	3 (%)	<u>4</u> (%)	1 (%)		750 pp 50 3	44_	(1(%)	1500 50 2 (%)) ppm) 3 (%)	<u>4</u> (%)	-	<u>1</u> (%)	3000 50 2 (%)	0 ppm 0 3 (%)	<u>4</u> (%)
Respiratory	system)																		
ung	lymphocytic infiltration	1 (2)	<500 0 (0) (0	0 0)	0 (0)	0		0) (0)		0 0) (<50 0 0)	0 (0)	0 (0)	(0 (0) (<50 0 0)	0> (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0) (0	0 0)	1 (2)	(0)		0	(1 2) (2 4)	0 (0)	0 (0)	(0 (0) (0	0 (0)	0 (0)
(Hematopoieti	ic system}																		
ymph node	deposit of amyloid	0 (0)	<500 0 (0) (0	0 0)	0 (0)	1		0 (0)		0 0) (<50 0 0)	• •	0 (0)	(0 0) ((5) 0 0)	0 (0)	0 (0)
pleen	deposit of amyloid	0 (0)	(50) 0 (0) (0	0 0)	0 (0)	1		0) (0)		0 0) (<50 0 0)		0 (0)	(0	<50 0 0)	0> (0)	0 (0)
	deposit of melanin	0 (0)	2 (4) (0	0 0)	(2)	0 (0)		0) (0)		0 0) (3 6)	0 (0)	0 (0)	(0 0) (0	0 (0)	0 (0)
	extramedullary hematopoiesis	5 (10)	2 (4) (0	0 0)	4 (8)	5 (10)		0 (0)	(2 4) (0	0 (0)	0 (0)	(1 2) (2 4)	0 (0)	0 (0)
rade a > b c) ignificant d	1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100 lifference; $*: P \le 0.05$ **: P =																		

(HPT150)

BAIS3

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

Organ	Group No. of Grade	Name Control Animals on Study 50 1 2 3 4 (%) (%) (%) (%)	750 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Hematopoiet	cic system)				
spleen	follicular hyperplasia	6 1 0 0 (12) (2) (0) (0)	<50> 2 2 0 0 (4) (4) (0) (0)	50> 5 2 0 0 (10) (4) (0) (0)	7 0 0 0 (14) (0) (0) (0)
{Circulatory	/ system)				
heart	mineralization	(50) 0 1 0 0 (0) (2) (0) (0)	(50) 0 1 0 0 (0) (2) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
	arteritis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 1 0 0 (2) (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
{Digestive s	system}				
tooth	dysplasia	<pre></pre>	(50) 0 1 0 0 (0) (2) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
tongue	arteritis	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 1 0 0 (2) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
Grade <a>b <a>c <a>c<!--</td--><td>1: Slight 2: Moderate 3: Mark 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</td><td>ted 4: Severe Test of Chi Square</td><td></td><td></td><td></td>	1: Slight 2: Moderate 3: Mark 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	ted 4: Severe Test of Chi Square			

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : MALE

PAGE: 5

		Group Name No. of Animals on Study Grade <u>1</u>	5 2	3	4		_1_		750 50 2	3	4_		_1_	2	00 ppt 50 3		4_		1	5 2	00 ppr 50 3		4_
organ	Findings	(%)	(%)	(%)	(%)	.)	(%)	(%)	(%)	(%)		(%)	(%)	(%))	(%)		(%)	(%)	(%)	1	(%)
Digestive sys	stem}																						
salivary gl	xanthogranuloma	1 (2)	<5 0 (0)	0	0 (0)		0 (0)		<50 0 0) (0	0 (0)	(1 2)	0	50> 0 (0)		0		1 2) (<5 0 (0)	50> 0 (0)		0 0)
tomach	mineralization	7 (14)	<5 0 (0)	0> 0 (0)	0 (0)		3 (6)		<50) 0 0) (0	0 (0)	(3 6)	0	50> 0 (0		0 0)	(0 (0)	<5 0 (0)	50> 0 (0)		0 0)
	inflammatory infiltration	1 (2)	0 (0)	0 (0)	0 (0)		0 (0)		0 0) (0	0 (0)	(0 0)	0	0		0	(0	0 (0)	0 (0)		0
	ulcer:forestomach	1 (2)	0 (0)	0 (0)	0 (0)		0 (0)		0 0) (0	0 (0)	(0	0 (0)	0 (0)		0	(3 6) (0	(0)		0
	erosion:glandular stomach	1 (2)	0 (0)	0 (0)	0)		1 (2)		0 0) (0 0)	0 (0)	(1 2)	0 (0)	0		0 0)	(0	1 (2)	0 (0)		0
	hyperplasia:glandular stomach	13 (26)	0 (0)	0 (0)	0 (0)		9 (18)		0 0) (0	0 (0)		11 22)	0 (0)	0 (0)		0	(2 4) (0 (0)	(0)		0 0)
	squamous cell hyperplasia:forestomac	h 2 (4)	0 (0)	0 (0)	0		0 (0)		0 0) (0	0 (0)	(1 2)	0	0 (0)		0	(4 8) (4 (8)	(0)		0 0)
mall intes	. inflammation	0 (0)	<5 0 (0)	0	0 (0)		0 (0)		<501 1 2) (0	0 (0)	(0 0)	1	50> 0 (0)		0 0)	(0 0) (<5 0 (0)	50> 0 (· 0)		0 0)

< a >

a : Number of animals examined at the site

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)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

: MALE

PAGE: 6

Organ	Findings	Group Name	Control 50 2 3 (%) (%)	<u>4</u> (%)	1 (%)	750 50 2 (%)	3	4 (%)	<u>1</u>	l 6)	1500 50 2 (%)	3 (%)	<u>4</u> (%)		1 (%)	300 5 2 (%)	0 ppm 50 3 (%)	4
Digestive sys	stem)																	
arge intes	xanthogranuloma	0 (0)	<50> 0 0 (0) (0)	0 (0)	. 0	<50> 0 0) (0	0 0)))) (<50 1 2) (0 (0)	0 (0)		0 0) (0	50> 0 (0)	0
iver	angiectasis	1 (2)	<50> 0 0 (0) (0)	0 (0)	0 (0) (<50> 1 2) (0	0 0)))) (<50 0 0) (0 (0)	0 (0)		0 0) (0		0 (0
	necrosis:central	1 (2)	1 0 (2) (0)	0 (0)	1 (2) (2 4) (0 (0 0)	(())) (0	0 (0)	0 (0)		0 (0 (0)	0 (0)	0 (0
	necrosis:focal	1 (2)	1 1 (2) (2)	0 (0)	2 (4) (3 6) (0 (0	(4	2 4) (1 2) (0 (0)	0 (0)	(1 2) (0 (0)	0 (0)	0 (0
	fatty change	2 (4)	0 0	0 (0)	0 (0) (0 (0 (0	((0	0 (0)	0 (0)		0 (1 (2)	0 (0)	0 (0
	fatty change:central	1 (2)	0 0	0 (0)	0 (0) (0	0 (0 0)	(())) (0	0 (0)	0 (0)	(0 (0 (0)	0 (0)	0 (0
	degeneration:central	0 (0)	1 0 (2) (0)	0 (0)	0 (0) (0	0 (0 0)	((0 0) (0 (0)	0 (0)		0 (0 (0)	0 (0)	0 (0
	inflammatory infiltration	0 (0)	1 0 (2) (0)	0 (0)	0 (0) (0	0 (0 0)	((1 2) (0	0 (0)	(0 (0) (0 (0)	0 (0)	0) (

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a: Number of animals examined at the site

b

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

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

PAGE: 7

ation																		
ation																		
	22 (44					22 44) (<50 0 (0) (0	0 (0)	20 (40)	<5 2 (4)	0	0 (0)	19		<50> 0 (0
cell focus					(0	2 (4) (0 (0) (0 * (0)	2 (4)			0 (0)					0 0)
ilic cell focus					(2 4) (1 (2) (0 (0 (0)	2 (4)	1 (2)	0 (0)	0 (0)					0 0)
ated cell focus					(0	0 (0 (0 (0)	0 (0)	0 (0)	0 (0)	0 (0)					0 _. 0)
y cyst					(0	0 (0 (0 (0)	1 (2)	0 (0)	0 (0)	0 (0)					0 0)
matory infiltration		1	0			0 0) (0	0	0 (0)	0 (0)	0	0	0 (0)					0 0)
tis		0	0		. (0	0	0	0 (0)		1	0	0 (0)					0 0)
j		ilic cell focus (4 ated cell focus (2 y cyst (0 matory infiltration (0 tis (0 tht 2: Moderate 3: Marked 4: Seveer of animals examined at the site	(8) (0) (4) (0) (4) (0) (4) (0) (4) (0) (2) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) (4) (0) (0) (4) (0) (0) (4) (0) (0) (2) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) ilic cell focus 2	(8) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) (0) (4) (ilic cell focus	(8) (0) (0) (0) (0) (4) (0) (ilic cell focus 2	(8) (0) (0) (0) (0) (4) (0) (0) ilic cell focus 2	(8) (0) (0) (0) (0) (4) (0) (0) (4) (1) (2) (1) (1) (2) (2) (3) (3) (4) (2) (3) (4) (2) (3) (4) (2) (3) (4) (2) (3) (4) (4) (2) (3) (4) (4) (4) (2) (3) (4) (4) (4) (4) (4) (4) (4	(8) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) (0) (0) (0) (4) (0) (0	(8) (0) (0) (0) (0) (0) (0) (0)	(8) (0) (0) (0) (0) (0) (4) (0) (0) (4) (2) (0) (0) (0) ilic cell focus 2 0 0 0 0 2 1 0 0 2 1 0 0 0 2 it o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(8) (0) (0) (0) (0) (4) (0) (4) (2) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0	(8) (0) (0) (0) (0) (4) (0) (0) (4) (2) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0	(8) (0) (0) (0) (0) (0) (0) (4) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : MALE

PAGE: 8

		Group Name No. of Animals on Study		ntrol 50				0 ppm 0				150 5) ppm				300	00 pps 50	m	
Organ	Findings	Grade 1 (%)		(%)	<u>4</u> (%)	<u>1</u> (%)	(%)	3 (%)	<u>4</u> (%)	<u>_1</u> (9	(6)	2 (%)	3 (%)	(%)		<u>1</u> (%)	2 (%)	3 (%))	<u>4</u> (%)
(Urinary sys	tem}																			
kidney	infarct	1 (2)		0 (0)	0 (0)	1 (2)	1	60> 0 (0)	0 (0)))) ((5) 0 0)	0 (0)	0 (0)	(0	<e 0 (0)</e 	50> 0 (0		0 0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(4	} 1) (1 2)	0 (0)	0 (0)	(0	0 (0)	0		0 0)
	hyaline droplet	(8)	. 1	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2	l 2) (0	0 (0)	0 (0)	(1 2) (0 (0)	(0		0 0)
	basophilic change	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)		0 (0)		l 2) (1 2)	0 (0)	0 (0)	(0	1 (2)	0		0 0)
	deposit of hemosiderin		1 (2)		0 (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)	0 (0)	0 (0)	0 (0)	0 (0)	. (2	t 2) (0	0 (0)	0 (0)	(0	0 (0)	0		0 0)
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	(())) (0	0 (0)	0 (0)	(0 (0)	0 (0)	0		0 0)
	inflammatory polyp	0 (0)	0 (0)	· 0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)))) (1 2)	2 (4)	0 (0)		0 (0)	2 (4)	0		0 0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

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

b

b: Number of animals with lesion

(c)

c : b / a * 100

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

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

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

	Gro	up Name of Animals on Study	Co1 50	ntrol				50 ppm 50			1	500 p	mqo				3000 50	mqq (
gan	Gra Findings	de <u>1</u> (%)	(%)	(%)	(%)	<u>1</u> (%)	(%)	(%)	(%)	<u>1</u> (%)	2 (%		3 (%)	(%)	(1 %)	2 (%)	(%)	(%)
rinary sy	stem)																		
idney	arteritis	0 (0)	<5(0 (0)	0	0 (0)	0 (0)	0	50> 0 (0)	0 (0)	0 (0)			0 0) (0		0 0) (<50 0 0) (0 (0)	0 (0)
	vacuolization of proximal tubule	32 (64)	4 (8)	0	0 (0)	27 (54)	1 (2)	0 (0)	0 (0)	32 (64)	1 (2	;) (0	0	34		0	0 (0)	(0)
	hydronephrosis	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	3 (6)	0 (0)	0 (0)	(4	;	4 8) (0 0)	() (0)	3 6) (2 (4)	(0)
	tubular necrosis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)		0 (0)	0 (0)	(0		0 0) (0 0)		0 0) (0 0) (0 (0)	0 (0)
	mineralization:cortico-medullary junction		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0) (0 0) (0	(2 4) (0	0 (0)	0 (0)
	mineralization:papilla	5 (10)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	(0)	(0)	7 (14)	0 (0		0 0) (0		7 4) (0 (0	0 (0)
	mineralization:pelvis	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0) (0 0) (0 0)			0	0 (0)	(0)
	mineralization:cortex	15 (30)	0 (0)	0	0 (0)	5 (10)	0 (0)	0 (0)	0 *	(8)	0 (0) (0 0) (0 * 0)			0 (0	0 (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a : Number of animals examined at the site

b

b: Number of animals with lesion

(c)

c:b/a * 100

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

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

PAGE: 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50 2 3 (%) (%)	<u>4</u> <u>1</u> (%)	750 ppm 50 2 3 4 (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
Urinary syst	cen)						
xidney	hyperplasia:tubular epithelium	0 (0)	<50> 0 0 (0) (0) (0 1 0) (2)	<50> 0 0 0 (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	desquamation:pelvis	0 (0)	0 0 (0) (0 0	1 0 0	1 0 0 0 0 (2) (0) (0)	1 2 0 0 (2) (4) (0) (0)
rin bladd	xanthogranuloma	0 (0)	<50> 0 0 (0) (0) (0 0	<50> 0 0 0 0 (0) (0) (0)	<49> 1 1 0 0 (2) (2) (0) (0)	0 0 0 0 0 0 0 0 0 0 0 0 0
Endocrine sy	ystem)						
ituitary	angiectasis	1 (2)	<50> 0 0 (0) (0) (0 0 0 0 0 0 0 0	<50> 0 0 0 0 0 0	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	cyst	(0)	0 0 (0) (0 1 0) (2)	0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 0 (0) (0)
	hyperplasia	0 (0)	0 0	0 0	0 0 0	1 0 0 0 0 (2) (0) (0) (0)	0 0 0 0 0
rade a > b c) ignificant d	1: Slight 2: Moderate a: Number of animals examined at th b: Number of animals with lesion c: b/a * 100 difference; *: P ≤ 0.05 **:						

(HPT150)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

PAGE: 11

		Group Name	Contr	rol		750 ppm		1500 ppm			00 ppm
drgan	Findings	No. of Animals on Study Grade 1 (%)		3 4 (%) (%)	1 2 (%) (%		4 (%)	50 2 3 (%) (%)	(%)	1 2 (%) (%)	50 3 4 (%) (%)
{Endocrine sys	stem)										
pi tui tary	Rathke pouch	(6)		0 0		<50> 0 0 :	0 1 (2)	<50> 0 0 (0) (0)	0 (0)	1 0	50> 0 0 (0) (0)
drenal	spindle-cell hyperplasia	0 (0)		0 0 0 0) (0)		<50> 0 :	0 0 0	<50> 0 0 (0) (0)	0 (0)	3 0	50> 0 0 (0) (0)
	hyperplasia:cortical cell	3 (6)		0 0	5 ((10) (0	0 0	0 4 0) (8)	0 0	0 (0)	2 1 (4) (2)	0 0 (0)
	hyperplasia:medulla	1 (2)		0 0 0 0) (0)	0 (0)	0 :	0 0 0	0 0	0 (0)	0 0	0 0 (0) (0)
Reproductive	system]										
estis	atrophy	. 0 (0)		0 0		<50> 0 0 = 0 0) (0) (<50> 1 0 (2) (0)	0 (0)	0 0	50> 0 0 (0) (0)
	mineralization	16 (32)	-	0 0		3 0	0 8	0 0	0 *	7 2 (14) (4)	0 0
a > b	a : Number of animals examined at the : b : Number of animals with lesion c : b / a * 100		•								

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ	N	Froup Name Control So. of Animals on Study 50 Frade 1 2 3 4 (%) (%) (%) (%)	750 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 50 1 2 3 4 (%) (%) (%) (%)	3000 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Reproductive	system)				
testis	xanthogranuloma	<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)
epididymis	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)	<50> 0 0 0 0 (0) (0) (0) (0)
	spermatogenic granuloma	1 1 0 0 (2) (2) (0) (0)	0 2 0 0 (0) (4) (0) (0)	1 0 0 0 0 (2) (0) (0)	2 1 0 0 (4) (2) (0) (0)
prep/cli gl	duct ectasia	<50> 0 0 0 0 0 0 0 0 0 0 0	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 2 0 0 (0) (4) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
{Nervous syst	em)				
brain	mineralization	37 0 0 0 0 (74) (0) (0) (0)	<50> 29 0 0 0 (58) (0) (0) (0)	<pre></pre>	(50) 21 1 0 0 ** (42) (2) (0) (0)
{Special sens	e organs/appendage)				
Harder gl	hyperplasia	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)
Grade <a>a> b (c) Significant d	a : Number of animals examined at the sit b : Number of animals with lesion c : b / a * 100				

APPENDIX L 2

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX : FEMALE

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	Cont 50 2 (%)		<u>4</u> (%)	<u>1</u> (%)		00 ppm 50 3 (%)	<u>4</u> (%)	1 (%)		600 pr 49	3	<u>4</u> (%)	1 (%)		4500 ₁ 50 2 %)	3 (%)	<u>4</u> (%)
{Integumentary	y system/appandage)													-					
skin/app	inflammation	2 (4) (<50> 0 (0) (0	0 (0)	0 (0)	0	60> 0 (0)		0 (0)	0			0 0)	0 (0)		<50> 0 0) (0	0 (0)
{Respiratory s	system}																		
masal cavit	eosinophilic change olfactory epithel	ium 8 (16)	<50> 0 (0) (0	0 (0)	8 (16)	2	(0)	0 (0)	3 (6)	0			0 0)	10 (20)		<50> 0 0) (0	0 (0)
	eosinophilic change:respiratory epith	elium 21 (42)		1 2)	0 (0)	17 (34)	2 (4)	1 (2)		24 (49)	2 (4)			0 0)	21 (42)		4 8) (0 (0)	0 (0)
	respiratory metaplasia:olfactory epit	Chelium 3 (6) (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)
	respiratory metaplasia:gland	3 (6) (0 (0)	0	0 (0)	5 (10)	0	0 (0)	0 (0)	12 (24)	0	((0 * 0)	14 (28)		0 0) (0	0 **
nasopharynx	eosinophilic change	6 (12)	<50> 0 (0) (0	0	2 (4)	0	50> 0 (0)	0 (0)	1 (2)	0			0 0)	3 (6)	-	<50> 0 0) (0	0 (0)
< a > b	1: Slight 2: Moderate a: Number of animals examined at the s b: Number of animals with lesion c: b/a*100	:: Marked 4 : Severe																	

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

Organ	Group No. of Grade	Name Control Animals on Study 50 1 2 3 4 (%) (%) (%) (%) (%)	500 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 49 1 2 3 4 (%) (%) (%) (%)	4500 ppm 50 1 2 3 4 (%) (%) (%) (%)
(2)					
{Respiratory	system)				
lung	congestion	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 1 1 0 0 (2) (2) (0) (0)
	hemorrhage	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)
	edema .	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	i 0 0 0 (2) (0) (0) (0)
	inflammatory infiltration	1 1 0 0 (2) (2) (0) (0)	1 2 0 0 (2) (4) (0) (0)	1 0 0 0 (2) (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)	1 0 0 0 0 (2) (0) (0) (0)
	eosinophilic change:bronchial epithelium	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)
	alveolar proteinosis	1 0 0 0 0 (2) (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)
{Hematopoieti	ic system)				
lymph node	Iymphadenitis	\(\lambda 50 \rangle \) 1	(50) 0 1 0 0 (0) (2) (0) (0)	(49) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
Grade <a>> b c) Significant of	1: Slight 2: Moderate 3: Mark 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	ed 4 : Severe Tost of Chi Squaro			

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

PAGE: 15

Organ	_ Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	500 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 49 1 2 3 4 (%) (%) (%) (%)	4500 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Hematopoie	otic system)	,			
spleen	deposit of melanin	<50> 3 0 0 0 (6) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 1 0 0 0 0 (2) (0) (0)
	extramedullary hematopoiesis	4 5 0 0 (8) (10) (0) (0)	3 4 0 0 (6) (8) (0) (0)	5 5 0 0 (10) (10) (0) (0)	7 4 0 0 (14) (8) (0) (0)
	follicular hyperplasia	7 1 0 0 (14) (2) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	5 0 0 0 (10) (0) (0) (0)	3 0 0 0 0 (6) (6) (7)
{Circulator	ry system)				
heart	mineralization	<50> 2 0 0 0 (4) (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	<pre></pre>
	arteritis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	0 1 0 0 (0) (2) (0) (0)
{Digestive	system)				
tongue	arteritis	<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)	(50) 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 **: P	3 : Marked 4 : Severe site ≤ 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: 16

Prgan	Findings	Group Name No. of Animals on Study Grade 1 (%)	Con 50 2 (%)	3 (%)	(%)	<u>1</u> (%)		00 ppn 50 3 (%)	4_	-	1(%)	1500 49 2 (%)) ppm) 3 (%)	<u>4</u> (%)	.(1(%)		00 ppn 50 3 (%)	<u>4</u> (%)
Digestive sys	stem)																		
alivary gl	lymphocytic infiltration	0 (0)	<50 1 (2) (0	0 (0)	0 (0)	0	50> 0 (0)	0 (0)		0	<49 0 0)	0 (0)	0 (0)		0 0) (0	50> 0 (0)	0 0)
tomach	ectopic sebaceous gland	0 (0)	<50 0 (0) (0	0 (0)	0 (0)	0		0 (0)		0 0) (<49 0 0)		0 (0)		4 8) (0	50> 0 (0)	0 0)
	mineralization	3 (6)	0 (0) (0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)		1 2) (0	0 (0)	0 (0)	(0 0) (0 0)	0 (0)	0 0)
	arteritis	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)	(0)	(0)	0 (0)		0 0) (0	0 (0)	0 (0)		0 0) (1 2)	(0)	0 0)
	erosion:forestomach	0 (0)	0 (0) (0 ()	0 (0)	1 (2)	(0)	0 (0)	0 (0)		0 0) (0	0 (0)	0 (0)		4 8) (0	(0)	0 0)
	erosion:glandular stomach	1 (2)	0 (0) (0 (0)	0 (0)	0 (0)	(0)	0 (0)	0 (0)		1 2) (0 0)	0 (0)	0 (0)		0 0) (0	0 (0)	0 0)
	ulcer:glandular stomach	1 (2)	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
	hyperplasia:glandular stomach	0 (0)	0 (0) (0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 **		2 4) (0 0)	0 (0)	0 (0)		0 0) (0 (0)	0 (0)	0 0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a : Number of animals examined at the site

b

b: Number of animals with lesion

(c) c:b/a * 100

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

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1 HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: FEMALE

PAGE: 17

Organ	Findings	Group Name No. of Animals on Stud Grade	y 	Co: 5: 2 (%)	ntrol 0 3 (%)	<u>4</u> (%)	1 (%)		500 50 2 %)			4(%)	-	1 (%)	2 (%	49	ppm 3 (%)	(5	4_ %)	-	<u>1</u> (%)		1500 50 2			4 (%)
OI gan	r maings			(/0/		(707	(707		,707	(/0/		(70)		(/0/			(,0)				(10)			(707		
{Digestive sys	stem}																									
stomach	squamous cell hyperplasia:forestomac		5 10) (<5 0 (0)	0	0 (0)	7 (14)		<502 2 4) (0		0 0)		13 27)	2		0 0)		0 * 0)		10 20)	33 (66	<50: 3 6) (2	(0 ** 0)
small intes	hyperplasia:epithelium	. (0	<5 0 (0)	0	0 (0)	0 (0)		<501 0 0) (0		0)		0 0)	1	<49:	o 0 0)		0 0)		0 0)	1	<50: 1 2) (0	(0
liver	adhesion	(0	<5 0 (0)	0	0 (0)	0 (0)		<50: 0 0) (0		0		1 2)		<49:))) (0 0)		0 0)	(0 0)		<50: 0 0) (0	(0
	angiectasis	(1 2)	4 (8)	0 (0)	0 (0)	0 (0)	(1 2) (0 0)	(0 0)	(0 0)	(())) (0 0)	(0 0)	(0 (0)		0 0) (0 0)	(0
	necrosis:central	(0	0 (0)	0 (0)	0 (0)	0 (0)	(0 0) (0	(0 0)	(0	(())) (0	(0 0)	(0		1 2) (0	(0 0)
	necrosis:focal	(0	0 (0)	0 (0)	0 (0)	3 (6)		1 2) (0 0)		0 0)	(2 4)))) (0 0)		0 0)	(2 4)		0 0) (0 0)	(0 0)
	cyst	(0	0 (0)	0 (0)	0 (0)	0 (0)	(1 2) (0		0 0)	(0	(())) (0 0)		0 0)	. (0 0) (0	(0

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a > ь

a: Number of animals examined at the site

(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

(IIPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

PAGE: 18

		Group Name No. of Animals on Study	No. of Animals on Study 50				500 ppm 50					00 ppm 19			4500 ppm 50					
Organ	Findings	Grade <u>1</u> (%)	2 (%)	3 (%)	(%)	(%)	(%)	(%)	(%)	(%)	2 (%)	(%)	(%)	(9		2	3 (%)	(%)		
{Digestive	system}																			
liver	deposit of amyloid	0 (0)	0 (0) (1	0 (0)	0 (0)	0		0 (0)	0 (0) (0		0 (0)		0 0) (<50> 0 0) (0 0) (0 (0)		
	degeneration:peripheral	1 (2)	0 (0) (0 0)	0 (0)	(0)	0 (0)	0 (0)	0 (0)	0 (0) (0 0)	0 (0)	0 (0)		0 0) (0 0) (0 0) (0 (0)		
	inflammatory infiltration	1 (2)	2 (4) (0 0)	0 (0)	0 (0)	0 (0)	0 (0)	(0)	(0) (1 2)	0 (0)	0 (0)	(1	0 0) (0 0) (0	0 (0)		
	granulation	24 (48)	3 (6) (0 0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	21 (43) (0 0)	0 (0)	0 (0)	2: (5)	5 0) (0 0) (0	0 (0)		
	clear cell focus	1 (2)	1 (2) (0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2) (0 0)	0 (0)	0 (0)		3 6) (0 0) (0 0) (0 (0)		
	acidophilic cell focus	0 (0)	0 (0) (0 (, 0)	0 (0)	0 (0)	1 (2)		0 (0)	(0)	0 (0)	2 (4)	0 (0)	(:	1 2) (0 0) (0	0 (0)		
	basophilic cell focus	1 (2)	0 (0)	0 (0)	0 (0)	(6)	1 (2)	0 (0)	0 (0)	1 (2)		0 (0)	0 (0)	(0 0) (1 2) (0	0 (0)		
	biliary cyst	0 (0)	(0)	0 (0)	0 (0)	2 (4)	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 \leq 0.05 ** : P \leq 0.01 Test of Chi Square

(IIPT150)

SEX

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

: FEMALE

PAGE: 19

Organ	Findings_	Group Name No. of Animals on Study Grade 1 (%)	Control 50 2 3 4 (%) (%) (%)	500 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 49 1 2 3 4 (%) (%) (%) (%)	4500 ppm 50 1 2 3 4 (%) (%) (%) (%)
(Urinary sys	stem}					
kidney	infarct	0 (0)	<50> 1 0 0 (2) (0) (0)	0 0 0 0 (0) (0) (0) (0)	(49) 0 0 0 0 (0) (0) (0) (0)	<50> 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 0 0 0	1 0 0 0 (2) (0) (0) (0)
	hyaline droplet	4 (8)	1 0 0 (2) (0) (0)	4 1 0 0 (8) (2) (0) (0)	10 0 0 0 (20) (0) (0) (0)	7 0 0 0 (14) (0) (0) (0)
	basophilic change	1 (2)	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)
	deposit of amyloid	1 (2)	0 0 0 0 (0) (0)	0 0 1 0 (0) (2) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyaline cast	(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)
	inflammatory infiltration	1 (2)	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0
	lymphocytic infiltration	2 (4)	0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0)	2 0 0 0 0 (4) (0) (0) (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a: Number of animals examined at the site

b

b: Number of animals with lesion

(c)

c:b/a*100

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

(HPT150)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

)rgan	Findings	Group Name No. of Animals on Study Grade (%)	Con 50 2 (%)	3 (%)	<u>4</u> (%)	<u>1</u> (%)			3	<u>4</u> (%)	- (<u>1</u> (%)		9 3 (%)	<u>4</u> (%)		1 (%)			3 (%)	<u>4</u> (%)
Jrinary sy	stem}																				
idney	osseous metaplasia	0 (0)	<50 0 (0) (0	0 (0)	1 (2)	0		0 0) (0 0)		0 0) (0	(9) (0)	0 (0)	(0 0)	0 (0)		0 (0)	0
	inflammatory polyp	1 (2)	1 (2) (0 (0)	0 (0)	3 (6)	(0)	: ((0 0) (0 0)		1 2) (0 0)	0 (0)	0 (0)	(0 0)	3 (6)		0 0) (0 (0)
	arteritis	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)	(0)	((0 0) (0 0)		0 0) (0 0)	0 (0)	0 (0)	((2)		0 0) (0 (0)
	hydronephrosis	1 (2)	(0) (0 (0)	1 (2)	0 (0)	(4)	(:	1 2) (1 2)	(1 2) (2 4)	0 (0)	0 (0)	(0	3 (6)		1 2) (0 (0)
	tubular necrosis	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)	(2)	((0 0) (0 0)	(0 0) (1 2)	(0)	0 (0)	(0	(0)		0 0) (0 (0)
	mineralization:papilla	4 (8)	0 (0) (0 (0)	0 (0)	(8)	(0)	((0 0) (0	(0 0) (0 0)	0 (0)	0 (0)	(0	(0)		0 0) (0 (0)
	mineralization:pelvis	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)	(0)			0 0)		1 2) (0 0)	(0)	0 (0)	(0 0)	(0)) (0 (0)	0 (0)
	mineralization:cortex	0 (0)	0 (0) (0	0 (0)	0 (0)	(0)		0 0) (0 0)		0 0) (0 0>	0 (0)	0 (0)	(1 2)	0 (0)		0 (0)	0

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)

BAIS3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

Control 500 ppm 1500 ppm 4500 ppm

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (9)		1500 ppm 49 1 2 3 4 (%) (%) (%) (%)	4500 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Urinary syst	tem)				
kidney	desquamation:pelvis	(4) (2) (0) (6		(49) 10 4 0 0 * (20) (8) (0) (0)	(50) 4 3 0 0 (8) (6) (0) (0)
	urothelial hyperplasia:pelvis	0 0 0 0 (0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
ureter	inflammation	(50) 0 0 0 0 (0) (0) (0) (0		0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
{Endocrine s	ystem)				
pituitary	angiectasis	(0) (0) (0) (0	(50) 2 0 0 0 0) (4) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
	cyst	3 0 0 (6) (6) (70) (70)	0 0 0 0 0	3 0 0 0 0 (6) (6) (7)	3 0 0 0 0
	hyperplasia	1 1 0 (2) (2) (0) (2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0	3 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

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

PAGE: 22

		Group Name No. of Animals on Study	Con 50	trol			500 50	mqq (1500 49						0 ppm	
rgan		Grade 1 (%)	2 (%)	(%)	(%)	(%)	2 (%)	3 (%)	(%)	<u>1</u> (%))	2 (%)	3 (%)	<u>4</u> (%)	(1%)	2 (%)	3 (%)	(%)
(Endocrine sy	stem)																		
oituitary	Rathke pouch	3 (· 6)	<50 0 (0) (0	0 (0)	1 (2)	<56 0 (0)	0	0 (0)) (<49 0 0) (0			1 2) (<50 0 0)	0> (0)	0 (0)
hyroid	focal follicular cell hyperplasia	0 (0)	<50 0 (0) (0	0 (0)	0 (0)	(5) (0)	0	0 (0)) (<49 0 0) (0	0 (0)		0 0) (<50 0 0)	0> 0 (0)	0 (0)
drenal	fatty change	0 (0)	<50 1 (2) (0	0	0 (0)	<50 1 (2)	0	0 (0)	0 (0		<49 1 2) (0	0		0 0) (<50 0 0)	0> (0)	0 (0
	spindle-cell hyperplasia	2 (4)	0 (0) (0 (0)	0	2 (4)	0 (0)	0 (0)	0 (0)	1 (2) (0 (0	0	0		1 2) (0	0 (0)	0 (0
	hyperplasia cortical cell	2 (4)	0 (0) (0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		0		0		0		0 0) (0 0)	0 (0)	0
Reproductive	system)																		
ovary	thrombus	0 (0)	<49 0 (0) (0	0 (0)	0 (0)	(5 (0)	0	0 (0)	1 (2		<49 0 0) (0	0 (0)		0 0) (<5 0 0)	0> 0 (0)	0 (0
Grade (a) b (c)	1: Slight 2: Moderate 3 a: Number of animals examined at the si b: Number of animals with lesion c: b/a * 100 lifference; *: P ≤ 0.05 **: P ≤								,										

(IIPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

: FEMALE

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1 2 3 4 (%) (%) (%) (%)	500 ppm 50 1 2 3 4 (%) (%) (%) (%)	1500 ppm 49 1 2 3 4 (%) (%) (%) (%)	4500 ppm 50 1 2 3 4 (%) (%) (%) (%)
{Reproductive	c system)				
ovary	cyst	449> 10 0 0 0 (20) (0) (0) (0)	9 0 0 0 (18) (0) (0) (0)	<pre></pre>	(50) 14 0 0 0 (28) (0) (0) (0)
uterus	hyperplasia:epithelium	(50) (0) (0) (0) (0)	(50) 1 0 1 0 (2) (0) (2) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)
	cystic endometrial hyperplasia	24 6 0 0 (48) (12) (0) (0)	23 0 0 0 * (46) (0) (0) (0)	18 5 0 0 (38) (11) (0) (0)	21 8 0 0 (42) (16) (0) (0)
	xanthogranuloma	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)
{Nervous sys	tem}				
brain	mineralization	\(\frac{50}{0} \) 15 0 0 0 (30) (0) (0) (0)	(50) 11 0 0 0 (22) (0) (0) (0)	\(\lambda 49 \rangle \) 15 0 0 0 (31) (0) (0) (0)	\(\langle 50 \rangle \) 18
{Special sens	se organs/appendage)				
Harder gl	degeneration	(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	(50) 1 0 0 0 (2) (0) (0) (0)
Grade <a>> b (c) Significant	a: Number of animals examined at theb: Number of animals with lesionc: b / a * 100	3 : Marked 4 : Severe sito ≤ 0.01 Test of Chi Square			y

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

		Control als on Study 50	500 ppm 50	1500 ppm 49	4500 ppm 50
irgatı	Grade Findings	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)
Special sem	iso organs/appendage)				
larder gl	hyperplasia	(50) 0 0 0 0 (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)	\(\langle 49 \rangle \) \[1 0 0 \\ (2) (0) (0) (0) \]	<pre></pre>
Musculoskel	letal system}				
uscle	mineralization	(50) 0	(50) 0 0 0 0 (0) (0) (0) (0)	i 0 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (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 ≤ 0.05 **: P ≤ 0.01 To	4 : Severe			

APPENDIX L 3

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

ANIMAL

: MOUSE Crj:BDF1

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

REPORT TYPE : A1

: MALE

PAGE: 1

Organ	Group Nam No. of An Grade Findings	Control	750 ppm 14 1 2 3 4 (%) (%) (%) (%)	1500 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 7 1 2 3 4 (%) (%) (%) (%)
{Integumentar	ry system/appandage)				
skin/app	inflammation	0 0 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (8) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	scab	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)
subcutis	inflammation	0 0 0 0 (0) (0) (0) (0)	0 0 1 0 (0) (0) (7) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
{Respiratory	system)				
nasal cavit	eosinophilic change:olfactory epithelium	(13> 1 0 0 0 (8) (0) (0) (0)	7 0 0 0 * (50) (0) (0) (0)	2 1 0 0 (17) (8) (0) (0)	< 7> 1 0 0 0 (14) (0) (0) (0)
	eosinophilic change:respiratory epithelium	0 0 0 0 0 (0) (0)	1 0 0 0 0 (7) (0) (0) (0)	1 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)
	respiratory metaplasia:olfactory epithelium	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 (14) (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; *: $P \le 0.05$ **: $P \le 0.01$	4 : Severe Test of Chi Square			

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

: MALE

PAGE: 2

Organ	Findings	Group Name Control No. of Animals on Study 13 Grade 1 2 3 4 (%) (%) (%) (%)	750 ppm 14 1 2 3 4 (%) (%) (%) (%)	1500 ppm 12 1 2 3 4 (%) (%) (%) (%)	3000 ppm 7 1 2 3 4 (%) (%) (%) (%)
{Respiratory	r system)				
masal cavit	respïratory metaplasia:gland	(13) 0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (7) (0) (0) (0)	2 0 0 0 (17) (0) (0) (0)	<pre></pre>
nasopharynx	eosinophilic change	<13> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 (17) (0) (0) (0)	<pre></pre>
lung	congestion	\(\lambda 13 \rangle \) \(2 \ 2 \ 0 \ 0 \) \(\lambda 15 \rangle (\ 15 \rangle (\ 0 \rangle (\ 0 \rangle) \)	\(\lambda 1 \rightarrow 0 \\ (7) (14) (0) (0) \)	<12> 1 0 0 0 (8) (0) (0) (0)	<pre></pre>
	hemorrhage	0 2 0 0 (0) (15) (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	0 0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 1 0 0 (14) (14) (0) (0)
(Hematopoiet	tic system}				
spleen	extramedullary hematopoiesis	. (13) 3 2 0 0 (23) (15) (0) (0)		1 0 0 0 (8) (0) (0) (0)	7> 0 2 0 0 (0) (29) (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 **: 1				

(HPT150)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

PAGE: 3

)rgan	Ī	Control Control	<u>4</u> <u>1</u> (%)	750 ppm 14 2 3 4 (%) (%) (%)	1500 ppm 12 12 3 4 (%) (%) (%) (%)	3000 ppm 7 1 2 3 4 (%) (%) (%) (%)
{Hematopoie	tic system}					
spleen	follicular hyperplasia	1 0 0 (8) (0) (0)	0 1 (0) (7) (<14> 0 0 0 0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
Circulator	y system)					
neart	mineralization	<13> 0 1 0 (0) (8) (0)	0 0 (0) (<14> 1 0 0 7) (0) (0)	(12> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	arteritis	0 0 0 0 (0) (0)	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 (8) (8) (0) (0)	0 0 0 0 0 (0)
Digestive	system)					
ongue	arteritis	<13> 0 0 0 (0) (0) (0)	0 0 (0) (<14> 0 0 0 0) (0) (0)	1 1 0 0 (8) (8) (0) (0)	<pre></pre>
tomach	mineralization	<13> 3 0 0 (23) (0) (0)	0 1 (0) (7) (<14> 0 0 0 0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	7> 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)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

	PL II	Group Name No. of Animals on Study Grade 1	Cont 13 2	3	4	1		750 r 14 2	3 (%)	4	7.	1	1 2	3	4		1	2		3	4
rgan	Findings	(%)	(%)	(%)	(%)	(%)		%)	(%)	(%)		%)	(%)	(%)	(%)		(%)	(%)		%)	(%)
Digestive sys	stem)																				
tomach	inflammatory infiltration	1 (8)	<13X 0 (0) (0	0	0 (0)		<14> 0 0) (0	0 (0)		0 0) (<1 0 0)	0	0 (0)	(0	0	< 7> (0 0) (0
	ulcer:forestomach	1 (8)	0 (0) (0	0 0)	0 (0)		0 0) (0	0 (0)		0 0) (0 0)	0 (0)	0 (0)	(1 14)	0 (0)) ((0 0) (0
	hyperplasia:glandular stomach	1 (8)	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
	squamous cell hyperplasia:forestomac		0 (0) (0 (0 0)	0		0 0) (0	0 (0)		0 0) (0 0)	0 (0)	0 (0)	(0 0)	1 (14)) (0 0) (0
mall intes	inflammation	0 (0)	(133 0 (0) (0	0 0)	0 (0		<14> 1 7) (0	0 (0)		0 0) (<1 1 8)	0	0 (0)	(0	0	< 7> (0 0) (0
iver	necrosis:contral	1 (8)	<133 1 (8) (0	0 0)	0 (0		<14> 1 7) (0	0 (0)		0 0) (<1 0 0)	0	0 (0)	. (0 0)	0	< 7>	0 0) (0
	necrosis:focal	(8)	0 (0) (1	0 0)	0		2 4) (0	0		0 0) (1	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)

DEAD AND MORIBUND ANIMALS (0-105W)

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : MALE

PAGE: 5

	No	oup Name of Animals on Study ade 1	Cont 13 2	rol	4	1		50 ppm 14 3	1 4		1	150 1 2	0 ppm 2 3	4		1		0 ppm 7 3	4
rgan	Findings	(%)	(%)	(%)	(%)	(%)	(%)			-	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%
{Digestive	system)																		
liver	fatty change:central	1 (8)	<132 0 (0) (0	0 0)	0 (0)	0		0 (0)	(0 0) (0 0 0)	0	0 (0)		0 0) (0 0)	0	0
	degeneration:central	0 (0)	1 (8) (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	0 (0)	1 (8) (0	0 0)	0 (0)	(0)	0 (0)	0 (0)	(0 0) (1 8)	0 (0)	0 (0)	(0 0) (0	0 (0)	0
	basophilic cell focus	0 (0)	0 (0) (0	0 (0)	1 (7)	(0)	0 (0)	0 (0)	(0	0 (0)	0 (0)	0 (0)		0 0) (0 0)	0 (0)	0
pancreas	arteritis	0 (0)	<133 0 (0) (0	0 (0)	0 (0)	0	(14> 0 (0)	0 (0)			1		0 (0)		0 0) (0	7> 0 (0)	0
{Urinary sy	rstem}																		
kidney	hyaline droplet	3 (23)	<133 1 (8) (0	0 (0)	2 (14)	1		0 (0)	(0 0) (<1 0 (0)	0	0 (0)		1.4) (0	7> 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 cdifference; *: P ≤ 0.05 **: P ≤ 0																		

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : MALE

PAGE: 6

)rgan		Group Name No. of Animals on Study Grade 1 (%)		3 <u>4</u> %) (%)	750 ppm 14 1 2 3 4 (%) (%) (%) (%)	1500 ppm 12 12 3 4 (%) (%) (%) (%)	3000 ppm 7 1 2 3 4 (%) (%) (%) (%)
(Urinary sy	rstem)						
cidney	basophilic change	0 (0)	<13> 0 (0) (0 0 0 0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	inflammatory infiltration	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)
	inflammatory polyp	0 (0)	0 (0) (0 0 0 0) (0)	0 0 2 0 (0) (14) (0)	0 0 2 0 (0) (17) (0)	0 1 0 0 (0) (14) (0) (0)
	arteritis	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)
	vacuolization of proximal tubule	(8)	0 (0) (0 0 0 0) (0)	3 1 0 0 (21) (7) (0) (0)	2 0 0 0 0 (17) (0) (0) (0)	0 0 0 0 0 (0) (0)
	hydronephrosis	(0)	0 (0) (l 0 8) (0)	0 1 2 0 (0) (7) (14) (0)	0 0 2 0 (0) (17) (0)	0 1 1 0 (0) (14) (14) (0)
	tubular necrosis	0 (0)	0 (0) (0 0 0 0) (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 0 (0)	0 0 0 0 0 (0)
	mineralization:cortico-medullary junct		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 (14) (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

(IIPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1 SEX

: MALE

		Group Name Control	750 ppm	1500 ppm	3000 ppm
Organ		No. of Animals on Study 13 Grade 1 2 3 4 (%) (%) (%) (%)	14 (%) (%) (%) (%) (%)	12 (%) (%) (%) (%) (%)	7 (%) (%) (%) (%)
{Urinary sys	stem)				
kidney	mineralization:papilla	(13> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (8) (0) (0) (0)	< 7> 1 0 0 0 (14) (0) (0) (0)
	mineralization:pelvis	1 0 0 0 0 (8) (0) (0) (0)	1 0 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0
	mineralization:cortex	4 0 0 0 0 0 (31) (0) (0) (0)	0 0 0 0 0 (0)	0 0 0 0 0 (0)	0 0 0 0 0
{Endocrine s	system)				
pituitary	Rathke pouch	<pre></pre>	1 0 0 0 (7) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
adrenal	hyperplasia:cortical cell	<13> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (8) (0) (0) (0)	< 7> 0 0 0 0 0 (0) (0) (0) (0)
{Reproductiv	ve system)				
testis	mineralization	5 0 0 0 (38) (0) (0) (0)	3 1 0 0 (21) (7) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
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)

BAIS3

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

PAGE: 8

	PL II	Group Name No. of Animals on Study Grade 1 (%)	Control 13 2 3 4	750 ppm 14 1 2 3 4	1500 ppm 12 1 2 3 4	3000 ppm 7 1 2 3 4
)rgan	Findings	(%)	(%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%)	(%) (%) (%) (%)
{Reproductive	system)					
epididymis		0	<13>	<14>	<12>	< 7>
	spermatogenic granuloma	0 (0)	0 0 0 (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 (0)	0 0 0 0 0
prep/cli gl	duct ectasia		<13>	<14>	<12>	< 7>
	auci ectasia	(0)	0 0 0 0	(0) (0) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0
{Nervous syst	.em}					
orain			<13>	<14>	<12>	< 7>
	mineralization	10 (77)	0 0 0 (0)	6 0 0 0 0 (43) (0) (0) (0)	3 0 0 0 * (25) (0) (0) (0)	1 0 0 0 * (14) (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	3 : Marked 4 : Sever the site	е			

(HPT150)

APPENDIX L 4

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

		oup Name o. of Animals on Study	Cont) ppm			1500					00 ppm	
Organ		rade 1 (%)	2	3 (%)	(%)	1 (%)	26 2 (%)	3 (%)	(%)	1 (%)	22 (%)	3 (%)	(%)	<u>1</u> (%)	2 (%)	14 3 (%)	(%)
{Integumentar	y system/appandage)																
skin/app	inflammation	1 (5)	<19) 0 (0) (0	0 (0)	0 (0) (<28 0 0	0	0 (0)	0 (0) (<22 0 0) (0	0 (0)	0 (0)	0	14> 0 (0)	0 (0)
{Respiratory	system}																
nasal cavit	eosinophilic change:olfactory epithelium		<193 0 (0) (0	0 (0)	4 (15) ((20 1 (4)	0	0 (0)	1 (5) (<22 0 0) (0	0 (0)	2 (14)	0	14> 0 (0)	0 (0)
	eosinophilic change:respiratory epitheli		0 (0) (0 0)	0 (0)	6 (23) (0 (0)	1 (4)	0 (0)	9 (41) (0	0 (0 (0)	3 (21)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	0 (0)	0 (0) (0 0)	0 (0)	2 (8) (0 (0)	0 (0)	0 (0)	5 (23) (0	0 (0 (0)	4 (29)	0 (0)	0 (0)	0 (0)
nasopharynx	eosinophilic change	3 (16)	<19) 0 (0) (0	0 (0)	1 (4) (<26 0 (0)	0	0 (0)	0 (0) (<22 0 0) (0	0 (0)	0 (0)	0	14> 0 (0)	0 (0)
lung	congestion	0 (0)	<19) 0 (0) (0	0 (0)	0 (0) (<26 0 0	0	0	0 (0) (<22 0 0) (0	0	1 (7)	1	14> 0 (0)	0 (0)
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b/a*100 ifference; $*: P \le 0.05$ **: $P \le 0.05$		3														

(HPT150)

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

REPORT TYPE : A1 SEX : FEMALE PAGE: 10

		Group Name No. of Animals on Study	Cont	rol				500 p	ppm				1500 23) ppm					00 pr 14	om	
)rgan	Findings	Grade 1 (%)	2	3 (%)	(%)	<u>1</u> (%)		2	3 (%)	(%)	(9	6)	2 (%)	(%)	(%)		<u>1</u> (%)	(%)	(9		<u>4</u> (%)
Respiratory :	system)																				
lung	hemorrhage	0 (0)	<19> 0 (0) (0	0 (0)	1 (4)			0	0 (0)))) (<22 0 0)	0	0 (0)	(0 (0)	0		0 0) (0 0)
	edema	1 (5)	0 (0) (0 (0)	0 (0)	0 (0)		0 0) (0 0)	0 (0)	((0	0 (0)	0 (0)	(1 7) (0 (0)		0 0) (0 0)
	inflammatory infiltration	1 (5)	1 (5) (0 0) (0 (0)	1 (4)	(;	2 8) (0	0 (0)	(())) (0 0)	0 (0)	0 (0)	(0 0) (0 (0)		0 0) (0 0)
{Hematopoieti	c system)	e.																			
lymph node	1ymphadenitis	1 (5)	<19> 0 (0) (0	0 (0)	0 (0)			0	0 (0)))) (<2: 0 0)	0	0 (0)	(0	0		0 0) (0
spleen	extramedullary hematopoiesis	2 (11)	<19> 3 (16) (0	0 (0)	2 (8)			0	0 (0)		3 1) (<23 5 23)	0	0 (0)	(6 43) (1		0 0) (0
{Circulatory :	system)																				
heart	mineralization	2 (11)	<19> 0 (0) (0	0 (0)	1 (4)			0	0 (0)	((<2: 0 0)	0	0 (0)	(0 (0)	0		0 0) (0 0)

(HPT150)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

PAGE: 11

	N	roup Name Control o. of Animals on Study 19 rade 1 2 3	4	500 ppm 26 1 2 3 4	1500 ppm 22 1 2 3 4	4500 ppm 14 1 2 3 4
rgan	Findings	(%) (%) (%)	(%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)
(Circulator	y system}					
neart	arteritis	0 0 0 (0) (0) (0)	0 (0)	<26> 0 0 0 0 (0) (0) (0) (0)	222> 2 0 0 0 (9) (0) (0) (0)	0 1 0 0 (0) (7) (0) (0)
Digestive :	system}					
ongue	arteritis	(19) 0 0 0 (0) (0) (0)	0 (0)	<26> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	0 0 0 0 (0) (0) (0) (0)
omach	ectopic sebaceous gland	0 0 0	0 (0)	(26) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (7) (0) (0) (0)
	mineralization	0 0 0 (0) (0)		0 0 0 0 0 (0) (0)	1 0 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)
	arteritis	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)
	erosion:forestomach	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 (7) (0) (0) (0)
rade a > b c)	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0.05			•		

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : FEMALE

DEAD AND MORIBUND ANIMALS (0-105W)

	No. Gra		19 2	3	4_	1	2	00 ppm 26		4		11	2	00 pp 22 3		4		1_	2		3	4_
Organ	Findings	(%)	(%)	(%)	(%)	(%)	(%)	(%)	1 ((%)		(%)	(%)	(%	.)	(%)		(%)	(%	.) 	(%)	(%)
{Digestive s	ystem}																					
stomach	erosion:glandular stomach	1 (5)	<19 0 (0) (0	0 0)	0 (0)	0	26> 0 (0)		0 0)	(0 0)	0	22> 0 (0		0 0)	(0	0		0 0)	0
	ulcer:glandular stomach	0 (0)	0 (0) (0 (0) (0 ()	1 (4)	0 (0)	0 (0)) (0 0)	(0	0 (0)	0 (0		0	(0 0)	0		0 0)	0
	hyperplasia:glandular stomach	(0)	0 (0) (0 (0) (0 (0)	1 (4)	0 (0)	0 (0)) (0 0)	(0	0 (0)	(0) (0	(0	0		0 0)	0 (0)
	squamous cell hyperplasia:forestomach	3 (16)	0 (0) (0 (0) (0 0)	6 (23)	1 (4)	0 (0)		0 0)	(:	8 36) (2 (9)	(0		0 0)	(:	3 21)	9 (64		0 0)	0 ** (0)
small intes	hyperplasia:epithelium	0 (0)	0 (0) (0	0 (0)	0 (0)	0	26> 0 (0)		0 0)	(0	1	22> 0 (0		0 0)	(0 0)	0		0	0
liver	adhesion	0 (0)	0 (0) (0	0 (0)	0 (0)	0			0 0)	(1 5)	0	22> 0 (0		0 0)	(0	0	<14>))) (0	0 (0)
	angiectasis	(0)	[(5) (0 (0) (0 (0)	0 (0)	(0)	(0)		0	(0	0	0 (0) (0	(0	0		0 0)	0 (0)
Grade (a) b (c)	1: Slight 2: Moderate 3: M a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100	arked 4 : Sever	?																			

(HPT150)

BAISS

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1 SEX

: FEMALE

0rgan	_ Findings_	Group Name Control No. of Animals on Study 19 Grade 1 2 3 4 (%) (%) (%) (%)	500 ppm 26 1 2 3 4 (%) (%) (%) (%)	1500 ppm 22 1 2 3 4 (%) (%) (%) (%)	4500 ppm 14 1 2 3 4 (%) (%) (%) (%)
{Digestive	system)				
liver	necrosis:central	(19) (0) (0) (0) (0)	(26) 0 0 0 0 (0) (0) (0) (0)	<22> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	necrosis:focal	0 0 0 0 0 (0) (0)	2 0 0 0 0 (8) (0) (0) (0)	2 0 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)
	degeneration:peripheral	1 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)
	inflammatory infiltration	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)
	granulation	1 1 0 0 (5) (5) (0) (0)	1 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)
	acidophilic cell focus	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)
	basophilic cell focus	0 0 0 0 0 (0) (0)	1 0 0 0 0 (4) (0) (0) (0)	0 1 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)
{Urinary s	ystem}				
kidney	hyaline droplet	3 0 0 0 (16) (0) (0) (0)	<pre></pre>	9 0 0 0 (41) (0) (0) (0)	7 0 0 0 (50) (0) (0) (0)
Grade <a>> b <a>c columns <a>c<!--</td--><td>1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **: P ≤</td><td></td><td></td><td></td><td></td>	1: Slight 2: Moderate 3 a: Number of animals examined at the s b: Number of animals with lesion c: b / a * 100 t difference; *: P ≤ 0.05 **: P ≤				

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

4500 ppm Group Name Control 500 ppm 1500 ppm

		No. of Animals on Study 19		26	22	14
0rgan	_ Findings	Grade 1 2 3 (%) (%) (%)		1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)
{Urinary sy	ystem)					
kidney	basophilic change	<pre></pre>		<pre></pre>	<pre></pre>	0 0 0 0 (0) (0) (0) (0)
	deposit of amyloid	0 0 0 (0) (0)	0 (0)	. 0 0 1 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	hyaline cast	0 0 0 (0) (0)	0 (0)	1 0 0 0 (4) (0) (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 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory polyp	0 0 0 (0) (0)	0 (0)	2 0 0 0 0 (8) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	arteritis	0 0 0 (0) (0)		0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (7) (0) (0)
	hydronephrosis	0 0 0 (0) (0)	1 (5)	0 1 1 1 (0) (4) (4) (4)	1 1 0 0 (5) (5) (0) (0)	0 0 0 0 0 (0) (0) (0)
	tubular necrosis	0 0 0 (0) (0)		0 1 0 0 (0) (4) (0) (0)	0 1 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

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

b b : Number of animals with lesion

(c) c:b/a * 100

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

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

PAGE: 15 : FEMALE

		p Náme Control	500 ppm	1500 ppm	4500 ppm
Organ	No. Grad Findings	of Animals on Study 19 e 1 2 3 4 (%) (%) (%) (%)	26 1 2 3 4 (%) (%) (%) (%)	22 (%) (%) (%) (%) (%)	14 (%) (%) (%) (%) (%)
{Urinary sys	tem}				
kidney	mineralization:papilla	<pre></pre>	3 0 0 0 (12) (0) (0) (0)	<22> 0 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	mineralization:cortex	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 (7) (0) (0) (0)
	desquamation:pelvis	1 0 0 0 0 (5) (0) (0)	i 2 0 0 (4) (8) (0) (0)	3 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)
ureter	inflammation	0 0 0 0 (0) (0) (0) (0)	0 1 0 0 (0) (4) (0) (0)	0 0 0 0 . (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
{Endocrine s	system)				
pituitary	cyst	3 0 0 0 (16) (0) (0) (0)	<26> 0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (5) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	hyperplasia	0 0 0 0 0 (0) (0)	1 0 0 0 (4) (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: Ma a: Number of animals examined at the site b: Number of animals with lesion c: b/a*100 difference; *: P ≤ 0.05 **: P ≤ 0.0				

(HPT150)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

Group Name Control 500 ppm 1500 ppm 4500 ppm No. of Animals on Study 19 26 22 14 Grade Organ Findings_ (%) (%) (%) {Endocrine system} thyroid <19> <26> <14> focal follicular cell hyperplasia 0 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) adrenal <19> <14> spindle-cell hyperplasia 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (8) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) {Reproductive system} ovary <19> <26> <14> thrombus 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (5)(0)(0)(0) (0)(0)(0)(0) cyst 0 0 0 0 0 (11) (0) (0) (0) (12) (0) (0) (0) (5)(0)(0)(0) (21) (0) (0) (0) uterus <19> ⟨26⟩ <20> <14> hyperplasia:epithelium 0 0 0 1 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(4)(0) (0)(0)(0)(0) (0)(0)(0)(0) cystic endometrial hyperplasia 5 1 0 3 2 0 (26) (5) (0) (0) (31) (0) (0) (0) (15) (5) (0) (0) (14) (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

(HPT150)

(c)

c:b/a * 100

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

SEX : FEMALE

Organ	Group Name No. of Ani Grade Findings	Control mals on Study 19 1 2 3 4 (%) (%) (%) (%)	500 ppm 26 1 2 3 4 (%) (%) (%) (%)	1500 ppm 22 1 2 3 4 (%) (%) (%) (%)	4500 ppm 14 1 2 3 4 (%) (%) (%) (%)
{Reproduct	ive system]				
uterus	xanthogranuloma	0 0 0 0 (0) (0) (0) (0)	(26) 0 1 0 0 (0) (4) (0) (0)	(20) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
{Nervous s	ystem}				
brain	mineralization	5 0 0 0 (26) (0) (0) (0)	6 0 0 0 (23) (0) (0) (0)	3 0 0 0 (14) (0) (0) (0)	3 0 0 0 (21) (0) (0) (0)
(Special se	ense organs/appendage)				
Harder gl	degeneration	0 0 0 0 (0) (0) (0) (0)	(26) 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	1 0 0 0 (7) (0) (0) (0)
{Musculosk	eletal system)				
muscle	mineralization	0 0 0 0 (0) (0) (0) (0)	(26) 0 0 0 0 (0) (0) (0) (0)	22> 1 0 0 0 (5) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
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			

(HPT150)

BAIS3

APPENDIX L 5

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

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

Organ		p Name	750 ppm 36 1 2 3 4 (%) (%) (%) (%)	1500 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 43 1 2 3 4 (%) (%) (%) (%)
{Integumentar	y system/appandage)				
skin/app	hyperplasia epidermis	37> 1 0 0 0 (3) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 0 0 0 0 0 0 0 0
{Respiratory	system)				
nasal cavit	eosinophilic change:olfactory epithelium	37> 13 1 0 0 (35) (3) (0) (0)	36> 10 1 0 0 (28) (3) (0) (0)	38> 7 0 0 0 (18) (0) (0) (0)	<pre></pre>
	eosinophilic change:respiratory epitheliu	2 2 0 0 (5) (5) (0) (0)	7 0 0 0 (19) (0) (0) (0)	5 1 0 0 (13) (3) (0) (0)	2 1 0 0 (5) (2) (0) (0)
	respiratory metaplasia:olfactory epitheliu	4 1 0 0 (11) (3) (0) (0)	4 1 0 0 (11) (3) (0) (0)	1 0 0 0 0 (3) (0) (0)	4 0 0 0 0 (9) (0) (0)
	respiratory metaplasia:gland	1 2 0 0 (3) (5) (0) (0)	9 1 0 0 * (25) (3) (0) (0)	12 3 0 0 ** (32) (8) (0) (0)	10 0 0 0 **
ıasoplıarynx	eosinophilic change	<37> 1 1 0 0 (3) (3) (0) (0)	\(\lambda 6 \rangle \) 1	38> 1 0 0 0 (3) (0) (0) (0)	<43> 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: Maa: 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 Crj:BDF1

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

REPORT TYPE : A1

SEX : MALE

	No	oup Name . of Animals on Study	37					750 j 36					3	90 pp 88						000 4 3		
rgan	Findings	ade <u>1</u> (%)	2 (%)	(%)	(%)	(%)	(%		3 (%)	(%)	(<u>1</u> %)	(%)	(%		(%)	-	(%)	(%		(%)	<u>4</u> (%)
Respiratory :	system)																					
ung	inflammation	0 (0)	<37 0 (0) (0	0 (0)	0 (0)	0		0	0 ()			<3 0 0)	88> 0 (0		0	(2 5)	0		0 0)	0 0)
	inflammatory infiltration	0 (0)	0 (0) (0	0 (0)	0 (0)	(0		0 (0 (0)	(2 5) (0 0)	(0))) (0 0)	(0	0		0 0)	0 0)
	lymphocytic infiltration	1 (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
	bronchiolar-alveolar cell hyperplasia	0 (0)	0 (0) (0 0)	0 (0)	(3)	(0))) (0	0 -	(1 3) (2 5)	0 (0		0	(0 0)	0		0	0 0)
Hematopoieti	c system}																					
ymph node	deposit of amyloid	0 (0)	<37 0 (0) (0	0 (0)	0 (0)	(3	<36>	0 0) (0 0)		0 0) (<; 0 0)	88> 0 (0		0 0)	(0 0)	0		0 0)	0 0)
pleen	deposit of amyloid	0 (0)	<37 0 (0) (0	0 (0)	0 (0)	1	<36>	0	0 (0)		0 0) (0 0 0)	38> 0 (0		0	(0 0)	0		0 0)	0
a> b	a : Number of animals examined at the site b : Number of animals with lesion c : b / a * 100																					

(HPT150)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

	Group Name	c Control	750 ppm 36	1500 ppm	3000 ppm
)rgan	or And Grade Findings	mais on Study 37 1 2 3 4 (%) (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	38 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)
{Hematopoi	etic system)				
sp1een	deposit of melanin	0 2 0 0 (0) (5) (0) (0)	36> 1 0 0 0 (3) (0) (0) (0)	38> 0 3 0 0 (0) (8) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	extramedullary hematopoiesis	2 0 0 0 0 (5) (0) (0) (0)	3 1 0 0 (8) (3) (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	follicular hyperplasia	5 1 0 0 (14) (3) (0) (0)	1 2 0 0 (3) (6) (0) (0)	5 2 0 0 (13) (5) (0) (0)	7 0 0 0 (16) (0) (0) (0)
{Circulator	ry system)				
heart	mineralization	<37> 0 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	(43) 1 0 0 0 (2) (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)	1 0 0 0 0 (2) (0) (0) (0)
{Digestive	system)				
tooth	dysplasia	<37> 0 0 0 0 0 0 0 0 0 0 0 0	<36> 0 1 0 0 (0) (3) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
Grade <a> b (c) Significant	i: 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			

(HPT150)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

		up Name of Animals on Study	Con 37	trol			75 ⁶	0 ppm 6				1500 38	mqq (3000 43	0 ppm	
rgan	Findings	·	2 (%)	(%)	(%)	(%)	(%)	(%)	(%)	<u>1</u> (%	()	2 (%)	3 (%)	(%)	-	<u>1</u> (%)	2 (%)	3 (%)	(%)
Digestive s	ystem)																		
ongue	arteritis	0 (0)	<37 1 (3) (0	0 (0)	0 (0)	(3 (0)	0	0 (0)	0 (0))) (<37 0 0) (0	0 (0)	(0 0) (<4: 0 0)	3> 0	0 (0)
salivary gl	xanthogranuloma	1 (3)	<37 0 (0) (0	0 (0)	0 (0)	(0) 0 <3	0	0 (0)	1 (· 3		<38 0 0) (0	0 (0)		1 2) (<4: 0 0)	3> 0 (0)	0 (0)
stomach	mineralization	4 (11)	<37 0 (0) (0	0 (0)	2 (6)	(3 (0)	0	0 (0)	3 (8		<38 0 0) (0	0 (0)	(0	<43 0 0)	3> 0 (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)	(2 5) (0 0)	0 (0)	0 (0)
	erosion:glandular stomach	1 (3)	0 (0) (0	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3		0	0 (0)	0 (0)	(0 (1 2)	0 (0)	0 (0)
	hyperplasia:glandular stomach	12 (32)	0 (0) (0	0 (0)	9 (25)	0 (0)	0 (0)	0 (0)	11 (29		0	0 (0)	0 (0)	(2 5) (0 0)	0 (0)	0 *
	squamous cell hyperplasia:forestomach	0 (0)	0 (0) (0 0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1		0	0 (0)	0 (0)	(4 9) (3 7)	0 (0)	0 *
Grade (a) b (c) Significant (1: Slight 2: Moderate 3: Ma a: Number of animals examined at the site b: Number of animals with lesion c: b/a * 100 difference; *: P ≤ 0.05 **: P ≤ 0.0																		***************************************

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX

: MALE

PAGE: 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 37 2 3 (%) (%)	<u>4</u> (%)	1 (%)		3 4 (%) (%)	<u>1</u> (%)	150 3: 2 (%)	3	4 (%)	1 (%)	3000 43 2 (%)	3	<u>4</u> (%)
{Digestive sys	stem}														
large intes	xanthogranuloma	0 (0)	<37> 0 0 (0) (0)	0 (0)	0 (0) (<36> 0 0) (0 (0)	1	8> 0 (0) (0 (0)	0 (0) (0	0 0)
iver	angiectasis	1 (3)	<37> 0 0 (0) (0)	0 (0)	0 (0) (0 0	0 (0)	<3 0 (0)	0	0 (0)	0 (0) (<43: 0 (0) (0	0 ()
	necrosis:central		0 0			1 3) (0 0	0 (0)	0 (0)	0 (0) (0	0 (0) (0 (0) (0 (
	necrosis:focal	0 (0)	1 0 (3) (0)	0 (0)	2 (6) (1 3) (0 0	2 (5)	0 (0)	0 (0) (0 (0)	1 (2) (0 (0) (0 (0 (0)
	fatty change	2 (5)	0 0	0 (0)			0 0	0 (0)	0 (0)	0 (0) (0 (0)	0 (0) (1 (2) (
	granulation	22 (59)	1 0 (3) (0)	0 (0)			0 0 0 0) (0)	20 (53)	2 (5)	0 (0) (0	19 (44) (0 (0) (0 (
	clear cell focus	(11)	0 0	(0)	0 (0) (0 0 0 0		1 (3)	0 (0) (0 (0)	0 (0) (0 (0) (0 (0 (0)
	basophilic cell focus	2 (5)	0 0	0 (0)	1 (3) (1 3) (0 0	2 (5)	1 (3)		0	2 (5) (0 (0 (0)

Grade < a >

1 : Slight

2 : Moderate

3 : Marked

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 \leq 0.05 ** : P \leq 0.01 Test of Chi Square

(HPT150)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : MALE

PAGE: 6

		No. of Animals on Study Grade 1 2	ontrol 37 3 4	750 ppm 36 1 2 3 4	1500 ppm 38 1 2 3 4	3000 ppm 43 1 2 3 4
rgan	Findings	(%) (%)	(%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%)
)igestive sy	ystem}					
iver	vacuolated cell focus	1 . 0	37> 0 0 (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	biliary cyst	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)
all bladd	inflammatory infiltration	0 1	37> 0 0 (0) (0)	(36) 0 0 0 0 (0) (0) (0) (0)	<38> 0 0 0 0 0 0 0 0 0 0	<pre></pre>
Jrinary syst	tem)					
dney	infarct	1 0	37> 0 0 (0) (0)	(36) 1 1 0 0 (3) (3) (0) (0)	<pre></pre>	<43> 0 0 0 0 (0) (0) (0) (0)
	cyst	0 0 (0) (0)	0 0 (0)	0 0 0 0 0 (0) (0)	2 1 0 0 (5) (3) (0) (0)	0 0 0 0 0 (0) (0)
	hyaline droplet	1 0 (3) (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)
irade (a > b (c) ignificant o	1: Slight 2: Moderate a: Number of animals examined at b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **	$3: Marked$ $4: Severe$ the site $P \le 0.01$ Test of Chi Square				

(HPT150)

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX

: MALE

PAGE: 7

Organ	1	Group Name No. of Animals on Study Grade 1 (%)	Contr 37 2 (%)	3 4 (%) (%)	750 ppm 36 1 2 3 4 (%) (%) (%) (%)	1500 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 43 1 2 3 4 (%) (%) (%) (%)
{Urinary sys	stum}						
kidney	basophilic change	0 (0)	<37> 0 (0) (0 0	(36) 0 1 0 0 (0) (3) (0) (0)	38> 1 1 0 0. (3) (3) (0) (0)	<pre></pre>
	deposit of hemosiderin	0 (0)	1 (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)
	lymphocytic infiltration	0 (0)	0 (0) (0 0	2 0 0 0 0 (6) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory polyp	. 0 (- 0)	0 (0) (0 0 0 0 0 0 0 0	0 1 0 0 (0) (3) (0) (0)	0 1 0 0 (0) (0) (0)	0 1 0 0 (0) (2) (0) (0)
	vacuolization of proximal tubule	31 (84)	4 (11) (0 0 0 0) (0)	24 0 0 0 *** (67) (0) (0) (0)	30 1 0 0 (79) (3) (0) (0)	30 0 0 0 *** (70) (0) (0) (0)
	hydronephrosis	0 (0)	0 (0) (0 0 0 0) (0)	0 2 1 0 (0) (6) (3) (0)	0 2 2 0 (0) (5) (5) (0)	0 2 1 0
	mineralization:cortico-medullary junct		0 (0) (0 0 0) (0)	0 0 0 0	1 0 0 0 0 (3) (0) (0) (0)	1 0 0 0 0 (2) (0) (0)
	mineralization:papilla	5 (14)	0 (0) (0 0 0 0) (0)	9 0 0 0 0 (25) (0) (0) (0)	6 0 0 0 (16) (0) (0) (0)	6 0 0 0 0 (14) (0) (0) (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

< a >

a : Number of animals examined at the site

ь

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 : MALE

		Group Name No. of Animals on Study Grade 1	Cor 37	ntrol 7 3	4	1	9	750 : 36	ppm 3	4		1	150 3	0 ppm 8	4		1	3000 4:	0 ppm 3	4
)rgait	Findings	(%)	(%)	(%)	(%)	(%)	(9		(%)	(%)	((%)	(%)	(%)	(%)	((%)	(%)	(%)	(%)
{Urinary syst	sem}																			
kidney	mineralization:pelvis	3 (8)	<37 0 (0) (0	0 (0)	0 (0)			0	0 (0)		5 3) (<3 0 0)	8> 0 (0)	0 (0)		5 2) (<4: 0 0)	3> 0 (0)	0 0)
	mineralization:cortex	11 (30)	0 (0) (0 (0)	0 (0)	5 (14)	((0	0 (0)		4 .1) (0 0)	0 (0)	0 (0)		7 .6) (0	0 (0)	0 0)
	hyperplasia:tubular epithelium	0 (0)	0 (0) (0 (0)	0 (0)	(3)))) (0 (0)	0 (0)	(3 8) (0 (0)	0 (0)	0 (0)		0 0) (0	0 (0)	0 0)
	desquamation:pelvis	0 (0)	0 (0) (0 (0)	0 (0)	0 (0)	(;	3) (0 (0)	0 (0)	(1 3) (0 (0)	0 (0)	0 (0)	(1 2) (2 5)	0 (0)	0 0)
rin bladd	xanthogranuloma	0 (0)	<37 0 (0) (0	0 (0)	0 (0)			0	0 (0)			<3 1 3)		0 (0)		0 0) (<43 0 0)	3> 0 (0)	0 0)
(Endocrine sy	rstem)																			
oi tui tary	angiectasis	1 (3)	<37 0 (0) (0	0 (0)	0 (0)		<36>))) (0	0 (0)		0 0) (<3 0 0	8> 0 (0)	0 (0)		0 0) (<4: 0 0)	3> 0 (0)	0 0)
Grade <a>> b (c) Significant d	1: Slight 2: Moderate a: Number of animals examined at th b: Number of animals with lesion c: b / a * 100 lifference; *: P ≤ 0.05 **:	3: Marked 4: Severe e site						-		·			-							

(HPT150)

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

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

		Group Name No. of Animals on Study Grade 1	Cor 37	ntrol 7 3	4	1	75 3 2	0 ppm 6 3	4		1	1500 38 2	ppm 3	4		t		0 ppm 3	4
rgan	Findings	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	C	<u>አ</u>)	(%)	(%)	(%)	(9	%)	(%)	(%)	
Endocrine sy	stem}																		
ituitary	cyst	. (0)	(33 0 (0)	0	0 (0)	1 (3)	<3 0 (0)	0	0 (0)		0 0) (<38 0 0) (0	0 (0)		0 0) (0	(0)	((
	hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(:	1 3) (0	0 (0)	0 (0)		0 0) (0	0 (0)	((
	Rathke pouch	3 (8)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	(;	1 3) (0 0) (0 (0)	0 (0)	(:	1 2) (0 0)	0 (0)	((
lrena I	spindle-cell hyperplasia	0 (0)	(0)	0	0 (0)	0 (0)	<3 0 (0)	0	0 (0)		0 0) (<38 0 0) (0	0 (0)		3 7) (0	(0) (0)	((
	· hyperplasia:cortical cell	3 (8)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	(;	3 8) (0	0 (0)	0 (0)		2 5) (1 2)	0 (0)	((
	hyperplasia:medulla	1 (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)	((
Reproductive	system)																		
estis	atrophy	0 (0)	<3° 1 (3)	0	0 (0)	0 (0)	0	6> 0 (0)	0 (0)		0 0) (<38 1 3) (0	0 (0)		0 0) (0	(0)	((

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 : MALE PAGE: 10

Organ		p Name Control of Animals on Study 37 e 1 2 3 4 (%) (%) (%) (%)	750 ppm 36 1 2 3 4 (%) (%) (%) (%)	1500 ppm 38 1 2 3 4 (%) (%) (%) (%)	3000 ppm 43 1 2 3 4 (%) (%) (%) (%)
{Reproductive	system}				
testis	mineralization	37> 11 3 0 0 (30) (8) (0) (0)	36> 13 1 0 0 (36) (3) (0) (0)	<pre></pre>	<pre></pre>
	xanthogranuloma	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)
epididymis	mineralization	37> 0 0 0 0 0 0 0 0	(0) (0) (0) (0) (0) (0) (0) (0)	38> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>
	spermatogenic granuloma	1 1 0 0 (3) (3) (0) (0)	0 1 0 0	1 0 0 0 0 (3) (0) (0) (0)	2 1 0 0 (5) (2) (0) (0)
prep/cli gl	duct ectasia	<37> 0 0 0 0 (0) (0) (0) (0)	(36) 1 0 0 0 (3) (0) (0) (0)	38> 0 1 0 0 (0) (3) (0) (0)	<pre></pre>
{Nervous syst	em}				
brain	mineralization	<pre></pre>	36> 23 0 0 0 (64) (0) (0) (0)	<pre></pre>	<pre></pre>
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: Ma a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 ifference; *: P ≤ 0.05 **: P ≤ 0.0				

(IJPT150)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

SEX : MALE PAGE: 11

			mals on Study		Control 37				750 ppm 36							3000 ppm 43					
organ	Findings	Grade	(9)	(%)	(%)	(%)	<u>1</u> (%	2 (%)	3 (%		(%)	(%)	(%)	(%)	(9	(A)	2	3 (%)	(%)		
Special sens	se organs/appendage)																				
arder gl	hyperplasia		(;	(1 0 3) (0)	37> 0 (0)	0 (0)	(0	0	36> 0 (0)	0 (0)	0 (0)	0 (0)	38> 0 (0)	0 (0)	((<43> 0 0) (0 (0		
rade a > b c)	1: Slight 2: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100	3 : Marked he site	4 : Seve	ere		<u> </u>										·					
ignificant d		$P \leq 0.01$ Te	st of Chi Squ	are																	

APPENDIX L 6

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

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

Organ	Findings	Group Name	Cor 31 2 (%)	3 (%)	<u>4</u> (%)	<u>1</u> (%)			pm 3 %)	<u>4</u> (%)	<u>1</u> (%	6)	1500 27 2 (%)	3 (%)	(%)		1 (%)		00 pp 36 38 (%	,	<u>4</u> (%)
{Integumentary	y system/appandage)																				
skin/app	inflammation	1 (3)	(31 0 (0)	0	0 (0)	0 (0)	0		0 0) (0 0)	((<27 0 0) (/> 0 (0)	0 (0)	(0 (0)	0 (0)	36> 0 (0		0
Respiratory :	system)																				
asal cavit	eosinophilic change:olfactory epithe		(31 0 (0)	0	0 (0)	4 (17)	1		0 0) (0 0)	2 (7		<27 0 0) ("> 0 (0)	0 (0)	(8 (22)	0 (0)	36> (C		0 0)
	eosinophilic change:respiratory epit		1 (3)	1 (3)	0 (0)	11 (46)	2 (8)		0 0) (0 0)	15 (56		2 7)	0 (0)	0 (0)	« (18 (50)	4 (11)	(0		0
	respiratory metaplasia∶olfactory epi		0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	(0 0) (0 0)	((0	0 (0)	0 (0)		0	0 (0)	((0 0)
	respiratory metaplasia:gland	3 (10)	0 (0)	0 (0)	0 (0)	(13) 3	0 (0)		0 0) (0	7		0	0 (0)	0 (0)	(10 (28)	0 (0)	((0 0)
nasopharynx	eosinophilic change	3 (10)	<31 0 (0)	0	0 (0)	1 (4)	0		0 0) (0	1		<27 0 0)	7> 0 (0)	0 (0)	(3 (8)	0 (0)	:36> ((0

< a >

b

a : Number of animals examined at the site

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

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Cor 31	ntrol l				500 ₁	ppm					00 ppm				4	500 r	pm	
rgan		1 (%)	2 (%)	(%)	(%)	<u>1</u> (%)	(9		3 (%)	<u>4</u> (%)		<u>1</u> (%)	2 (%)	(%)	(%)		<u>1</u> (%)	(%		3 (%)	(%)
Respiratory	system)																				
lung	inflammatory infiltration	0 (0)	(3) (0)	0	0 (0)	0 (0)			0	0 (0)		1 4) (0	27> 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)	(1 3)	0		0 0) (0 (0)
	eosinophilic change:bronchial epitheliu	im 1 (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)
	alveolar proteinosis	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)))) (0	0 (0)		1 4) (0 (0)	0 (0)	0 (0)	(0 0)	0		0 0) (0 (0)
Hematopoiet:	ic system}																				
ymph node	lymphadenitis	0 (0)	(3) (0)	0	0 (0)	0 (0)	1		0	0 (0)	(0 (0)	0	27> 0 (0)	0 (0)	(0)	0		0 0) (0
sp1ееп	deposit of melanin	3 (10)	(3) (0)	0	0 (0)	1 (4)		<24>))) (0	0 (0)	(0 0) (0		0 (0)	(0	1		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)

BAIS3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

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

		oup Name . of Animals on Study	Cont	rol				500 24					150 2	0 ppm 7			4500 36	ppm	
Organ	Findings	ade <u>1</u> (%)	(%)	(%)	(%)	(%)		<u>2</u> %)	3 (%)	<u>4</u> (%)	(<u>1</u> %)	2 (%)	(%)	(%)	 (%)	2 (%)	(%)	(%)
{Hematopoieti	c system)																		
spleen	extramedullary hematopoiesis	2 (6) (<31> 2 6) (0	0 (0)	1 (4)			0		(2 7) (<2° 0 0)	0	0 (0)	1 (3)	<36 3 8) (0	0 (0)
	follicular hyperplasia	7 (23) (1 3) (0	0 (0)	2 (8)	(0 0) (0 0)	0 (0)	(1	5 .9) (0 0)	0 (0)	0 (0)	3 (8)	0	0 (0)	0 (0)
{Circulatory	system)																		
heart	mineralization	0 (0) (<31> 0 0) (0	0 (0)	0 (0)	(<24> 0 0) (0	0 (0)		0 0) (<2 0 0)	0	0 (0)	1 (3)	<36 0 0) (0	0 (0)
{Digestive sy	rstem}							,											
salivary gl	lymphocytic infiltration	0 (0) (<31> 1 3) (0	0	0		<24> 0 0) (0	0 (0)		0 0) (<2 0 0)	0	0 (0)	0 (0)	<36 0 0) (0	0
stomach	ectopic sebaceous gland	0 (0) (<31> 0 0) (0	0	0 (0)		〈24〉 0 0) (0	0 (0)		0 0) (<2 0 0)	0	0 (0)	3 (8)	<36 0 0) (0	0 (0
Grade <a>> b (c) Significant d	1: Slight 2: Moderate 3: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 lifference; *: $P \le 0.05$ **: $P \le 0$					·													

(HPT150)

BAIS3

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

		oup Name o. of Animals on Study		ontrol 31			500 24) ppm				150 2	O ppm				450 31	nqq C	
rgan		rade 1 (%)	2 (%)	3 (%)	(%)	<u>1</u> (%)	(%)	* 3 (%)	(%)	(<u>1</u> %)	2 (%)	3 (%)	(%)	(<u>1</u> %)	(%)	3 (%)	(%)
Digestive sy	stem}																		
tomach	mineralization	3 (10)	0	0 (0)	0 (0)	7 (29)	<2 0 (0)	0	0 (0)		0 0) (<2° 0 0)	7> 0 (0)	0 (0)		0 0) ((3) 0 0)	6> 0 (0)	0 (0)
	erosion:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0	0 (0)	0 (0)		0 0) (0	0 (0)	0 (0)		3 8) (0	0 (0)	0 (0)
	erosion:glandular stomach	(0)	0 (0)	0 (0)	0 (0)	(0)	0 (0)	0 (0)	0 (0)		1 4) (0	0 (0)	0 (0)		0 0) (0 0)	0 (0)	0 (0)
	ulcer:glandular stomach	(3)	0 (0)	(0)	(0)	0 (0)	0 (0)	0 (0)	0 (0)		0 0) (0 0)	0 (0)	0 (0)		0 0) (0 0)	0 (0)	0 (0)
	hyperplasia:glandular stomach	(0)	(0)	0 (0)	0 (0)	7 (29)	0 (0)	0 (0)	0 ** (0)		2 7) (0 0)	0 (0)	0 (0)		0 0) (0	0 (0)	0 (0)
	squamous cell hyperplasia:forestomach	2 (6)	0 (0)	0 (0)	. 0	1 (4)	1 (4)	0 (0)	0 (0)		5 9) (0 (0)	0 (0)	0 (0)		7 9) (24 67)	2 (6)	* 0 (0)
emall intes	hyperplasia:epithelium	0 (0)	0	0 (0)	0 (0)	0 (0)	(2. 0 (0)	0	0 (0)		0 0) (<2 0 0	7> 0 (0)	0 (0)		0 0) (<3 1 3)	6> 0 (0)	0 (0)
iver	angiectasis	1 (3)	3	0 (0)	0 (0)	0 (0)	<2 1 (4)	0	0 (0)		0, 0) (<2 0 (0)	7> 0 (0)	0 (0)		0 0) ((3 0 0	6> 0 (0)	0 (0)
Grade (a) b (c)	1: Slight 2: Moderate 3: a: Number of animals examined at the sit b: Number of animals with lesion c: b/a*100	Marked 4 : Sever	e																

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

PAGE: 16

		Group Name No. of Animals on Study	Cor 31	itrol				00 pp 24	n			150 2	0 ppm 7					00 ppm 36	1
Organ	Findings	Grade 1 (%)	(%)	(%)	(%)	<u>1</u> (%)	(%)	3			<u>1</u> %)	2 (%)	(%)	(%)		1 (%)	(%)	3 (%)	
{Digestive	system}																		
liver	necrosis:focal	0 (0)	(3) (0)	0	0 (0)	1 (4)	1	24>	0 (0)		0 0) (<2° 0 0)	7> 0 (, 0)	0 (0)		2 6) (0	36> 0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0	1 (4)	(0	0 (0)		0 0) (0	0 (0)	0 (0)		0	0 (0)	0 (0)	0 (0)
	deposit of amyloid	0 (0)	0 (0)	1 (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)
	inflammatory infiltration	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	(0)	(0	0 (0)	(0 0) (0 0)	0 (0)	0 (0)		0	0 (0)	(0)	0 (0)
	granulation	23 (7 <u>4</u>)	2 (6)	0 (0)	0 (0)	18 (75)	(0)		0 (0)		81 '8) (0 0)	0 (0)	0 (0)	()	25 69) (0 (0)	0 (0)	0 (0)
	clear cell focus	(3)	1 (3)	0 (0)	0 (0)	0 (0)	(0)		0 (0)		1 4) (0 0)	0 (0)	0 (0)	(3 8) (0 (0)	(0)	0 (0)
	acidophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(0)		0 (0)		0 0) (0 0)	2 (7)	0 (0)		1 3)	0 (0)	0 (0)	0 (0)
	basophilic cell focus	1 (3)	0 (0)	0	0 (0)	2 (8)	1 (4)		0 (0)		1 4) (2 7)	0 (0)	0 (0)	(0	1 (3)	0 (0)	0 (0)

Grade

1 : Slight

2 : Moderate

3 : Marked

4 : Severe

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

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

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

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

PAGE: 17

Organ	Findings	Group Name No. of Animals on Study Grade 1 (%)	2	ro1 3 (%)	<u>4</u> (%)	-	<u>1</u> (%)		00 pp 24 3 (%	3	<u>4</u> (%)		<u>1</u> (%)		27	3 (%)	<u>4</u> (%)		<u>1</u> (%))		3 (%)	<u>4</u> (%)
Digestive sy	rest un)			 																			
liver	biliary cyst	0 (0)	0	0 0) (0 (0)	(2 8) ((2 0 (0)			0 0)	(0	0		0	0 (0)	(0 0)		0	0	0 0)
{Urinary syst	em)																						
kidney	infarct	0 (0)	1	0 0) (0 0)	(0 0) ((; 0 (0)	24>		0 0)	(0	0		0	0 (0)	(3		0	0 0)	0 0)
	cyst	0 (0)		0	0 ()		0 0) (0 (0)	(())) (0 0)	()	0	0 (0)	(0	0 (0)	(1 3		0 0)	0 0)	0 0)
	hyaline droplet	1 (3)	1 (3	0	0 (0)	(0	0 (0)	(())) (0 0)		1 4)	0 (0)		0	0 (0)	(0		0 0)	0	0 0)
	basophilic change	1 (3)	_	0	0 (0)	(0	0 (0)))) (0 0)	(0	0 (0)		0	0 (0)	(0		0 0)	0	0 0)
	deposit of amyloid	1 (3)		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 (3)	0	0	0	(0	0)) (0 0)	(0	0 (0)		0	0 (0)	(0		0	0 0)	0 0)

< a > b

a : Number of animals examined at the site

(c)

b: Number of animals with lesion

c:b/a * 100

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

(HPT150)

BAIS3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

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

REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Control 31		500 ppm 24		1500 ppm		4	1500 ppm	
rgan	Findings	Grade 1 (%)	2 3 (%) (%)	<u>4</u> (%) (%)	2 3	<u>4</u> (%) <u>1</u> (%)	27 2 3 (%) (%)	(%)	1 2		(%)
Jrinary sys	stem)										
idney	lymphocytic infiltration	2 (6)	<31> 0 0 (0) (0) (0 2 (8)	<24> 0 0 (0) (0)	0 1 (0) (4)	<27> 0 0 (0) (0) (0 (2 0	<36> 0 0) (0)	0 (0)
	inflammatory polyp	1 (3)	1 0 (3) (0) (0 1 0 (4)	0 0 (0)	0 1 (4)	0 0 (0) (0 (0 3	3 O 3) (O)	0 (0)
	hydronephrosis	1 (3)	0 0 (0 0	1 0 (4) (0)	0 0 0	1 0 (4) (0) (0 (0 3	3 1	0 (0)
	mineralization:papilla	2 (6)	0 0	0 1 (4)	0 0	0 0 (0)	0 0 (0) (0 (0 (0 0 0)	0 (0)
	mineralization:pelvis	0.(0)	0 0	0 0	0 0	0 1 (4)	0 0 (0) (0 (0 () (0)	0 (0)
	desquamation:pelvis	1 (3)	1 0 (3) (0) (0 0 (0)	1 0 (4) (0)	0 7 (26)	4 0 (15) (0) (0 **	4 3 11) (8	3 0 3) (0)	0 (0)
	urothelial hyperplasia:pelvis	0 (0)	0 0 (0) (0 0	0 0	0 0 (0)	0 0	0 (1 (0 0 (0)	0 (0)
{Endocrine s	system)										
pituitary	angiectasis	0 (0)	<31> 0 0 (0) (0) (0 2 (0) (8)	<24> 0 0 (0) (0)	0 0 (0)	<27> 0 0 (0) (0) (0 (-	<36> 0 0 0) (0)	0 (0)
Grade <a> b (c)	1: Slight 2: Moderate a: Number of animals examined at th b: Number of animals with lesion c: b/a*100	3: Marked 4: Severe site									

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

PAGE: 19

		Group Name Control No. of Animals on Study 31	500 ppm 24	1500 ppm 27	4500 ppm 36
Organ	Findings_	Grade 1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%) (%)	1 2 3 4 (%) (%) (%)
{Endocrine s	ystem)				
pituitary	cyst	31> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (7) (0) (0) (0)	3 0 0 0 (8) (0) (0) (0)
	hyperplasia	1 1 0 0 (3) (3) (0) (0)	1 0 0 0 (4) (0) (0) (0)	3 0 0 0 0 (11) (0) (0) (0)	3 0 0 0 0 (8) (0) (0)
	Rathke pouch	3 0 0 0 (10) (0) (0) (0)	1 0 0 0 0 (4) (0) (0)	1 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
adrenal	fatty change	(0) (3) (0) (0)	0 1 0 0 (0) (4) (0) (0)	<27> 0 1 0 0 (0) (4) (0) (0)	(0) (0) (0) (0)
	spindle-cell hyperplasia	2 0 0 0 (6) (6) (7) (7)	0 0 0 0 0 (0) (0)	1 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (3) (0) (0) (0)
	hyperplasia:cortical cell	2 0 0 0 0 (6) (6) (7) (7)	0 0 0 0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
{Reproductiv	re system)				
ovary	cyst	<pre></pre>	6 0 0 0 (25) (0) (0) (0)	6 0 0 0 (22) (0) (0) (0)	<pre></pre>
Grade <a> > b (c) Significant	1: Slight 2: Moderate a: Number of animals examined at b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **	3 : Marked 4 : Severe the site $: P \leqq 0.01 . \text{Test of Chi Square}$			

(HPT150)

BAIS3

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

Organ		Name Control	500 ppm 24 1 2 3 4 (%) (%) (%) (%)	1500 ppm 27 1 2 3 4 (%) (%) (%) (%)	4500 ppm 36 1 2 3 4 (%) (%) (%) (%)
{Reproductiv	ve system}				
iterus	hyperplasia:epithelium	(0) (0) (0) (0) (0)	24> 1 0 0 0 (4) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	(36) 0 0 0 0 (0) (0) (0) (0)
	cystic endometrial hyperplasia	19 5 0 0 (61) (16) (0) (0)	15 0 0 0 (63) (0) (0) (0)	15 4 0 0 (56) (15) (0) (0)	19 8 0 0 (53) (22) (0) (0)
Nervous sys	stem}				
prain	mineralization	31> 10 0 0 0 (32) (0) (0) (0)	5 0 0 0 (21) (0) (0) (0)	<27> 12 0 0 0 (44) (0) (0) (0)	\(\langle 36 \rangle \) 15 0 0 0 0 (42) (0) (0) (0)
(Special sen	ise organs/appendage)				
larder gl	degeneration	(0) (0) (0) (0)	1 0 0 0 (4) (0) (0) (0)	<27> 0 0 0 0 0 0 0 0) (0) (0) (0)	(0)(0)(0)(0)
	hyperplasia	0 0 0 0 0 (0) (0)	1 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
Grade (a) b (c) Gignificant	1: Slight 2: Moderate 3: Man 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				

(HPT150)

BAIS3

APPENDIX M 1

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

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : MALE

Time-related Weeks	Items	Group Name	Control	750 ppm	1500 ppm	3000 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		0	1	1	0	
	NO. OF ANIMALS WITH TUMORS		0	0	0	0	
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0	
	NO. OF BENIGN TUMORS		0	0	0	0	
	NO. OF MALIGNANT TUMORS		0	0	0	0	
	NO. OF TOTAL TUMORS		0	0	0	0	
53 - 78	NO. OF EXAMINED ANIMALS		3	3	3	5	
	NO. OF ANIMALS WITH TUMORS		2	1	2	3	
	NO. OF ANIMALS WITH SINGLE TUMORS		1	1	2	3	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0	
	NO. OF BENIGN TUMORS		1	0	1	0	
	NO. OF MALIGNANT TUMORS		2	1	1	3	
	NO. OF TOTAL TUMORS		3	1	2	3	
79 - 104	NO. OF EXAMINED ANIMALS		10	10	8	2	
	NO. OF ANIMALS WITH TUMORS		10	9	8	2	
	NO. OF ANIMALS WITH SINGLE TUMORS		7	7	4	2	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	2	4	0	
	NO. OF BENIGN TUMORS		0	1	4	0	
	NO. OF MALIGNANT TUMORS		14	10	8	2	
	NO. OF TOTAL TUMORS	V	14	11	12	2	
105 - 105	NO. OF EXAMINED ANIMALS		37	36	38	43	
	NO. OF ANIMALS WITH TUMORS		24	31	22	16	
	NO. OF ANIMALS WITH SINGLE TUMORS		11	23	16	15	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		13	8	6	1	
	NO. OF BENIGN TUMORS		19	19	13	8	
	NO. OF MALIGNANT TUMORS		19	21	17	9	
	NO. OF TOTAL TUMORS		38	40	30	17	

(HPT070)

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

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

PAGE: 2

Time-related Weeks	Items	Group Name	Control	750 ppm	1500 ppm	3000 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50	
	NO. OF ANIMALS WITH TUMORS	,	36	41	32	21	
	NO. OF ANIMALS WITH SINGLE TUMORS		19	31	22	20	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		17	10	10	1	
	NO. OF BENIGN TUMORS		20	20	18	8	
	NO. OF MALIGNANT TUMORS		35	32	26	14	
	NO. OF TOTAL TUMORS		55	52	44	22	
	WALL BOARD						DATOO

(HPT070) BAIS3

APPENDIX M 2

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. : 0348

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : FEMALE

ne-related Weeks	Items	Group Name	Control	500 ppm	1500 ppm	4500 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	1	
	NO. OF ANIMALS WITH TUMORS		0	0	0 0 ·	0 0 ,	
	NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		n	0	0	0 . n	
	NO. OF MILIMED WITH MODILIES TOMORS		V	V	v	v	
	NO. OF BENIGN TUMORS		0	0	0	0	
	NO. OF MALIGNANT TUMORS		0	0	0	0	
	NO. OF TOTAL TUMORS		0	0	0	0	
53 - 78	NO. OF EXAMINED ANIMALS		4	5	1	3	
	NO. OF ANIMALS WITH TUMORS		3	3	1	2	
	NO. OF ANIMALS WITH SINGLE TUMORS		3	3	1	1	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	1	
	NO. OF BENIGN TUMORS		0	0	0	0	
	NO. OF MALIGNANT TUMORS		3	3	1	3	
	NO. OF TOTAL TUMORS		3	3	1	3	
79 - 104	NO. OF EXAMINED ANIMALS		14	21	21	10	
	NO. OF ANIMALS WITH TUMORS		14	19	17	10	
	NO. OF ANIMALS WITH SINGLE TUMORS		10	12	15	9	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	7	2	1	
	NO. OF BENIGN TUMORS		4	8	3	1	
	NO. OF MALIGNANT TUMORS		14	19	16	10	
	NO. OF TOTAL TUMORS		18	27	19	11	
105 - 105	NO. OF EXAMINED ANIMALS		31	24	27	36	
	NO. OF ANIMALS WITH TUMORS		16	18	14	14	
	NO. OF ANIMALS WITH SINGLE TUMORS		12	11	11	12	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	7	3	2	
	NO. OF BENIGN TUMORS		7	13	9	5	
	NO. OF MALIGNANT TUMORS		14	14	9 ·	12	
	NO. OF TOTAL TUMORS		21	27	18	. 17	

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

PAGE: 4

Time-related Weeks	Items	Group Name	Control	500 ppm	1500 ppm	4500 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	49	50	
	NO. OF ANIMALS WITH TUMORS		33	40	32	26	
	NO. OF ANIMALS WITH SINGLE TUMORS		25	26	27	22	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		8	14	5	4	
	NO. OF BENIGN TUMORS		11	21	12	6	
	NO. OF MALIGNANT TUMORS		31	36	26	25	
	NO. OF TOTAL TUMORS		42	57	38	31	

(HPT070)

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APPENDIX N 1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

Organ		Name Control f animals on Study 50	750 ppm 50	1500 ppm 50	3000 ppm 50
{Integumentar	y system/appandage)				
skin/app	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
subcutis	histiocytic sarcoma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	mastcytoma:malignant	1 (2%)	0 (0%)	0 (0%)	0 (0%)
	hemangiosarcoma	0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Respiratory	system)				
lung	bronchiolar—alveolar adenoma	<50> 5 (10%)	<50> 6 (12%)	<50> 4 (8%)	<50> 3 (6%)
	bronchiolar-alveolar carcinoma	4 (8%)	3 (6%)	5 (10%)	1 (2%)
{Hematopoieti	c system)				
lymph node	malignant lymphoma	<50> 7 (14%)	<50> 11 (22%)	<50> 9 (18%)	<50> 6 (12%)
	mastcytoma:malignant	0 (0%)	1 (2%)	0 (0%)	0 (0%)
spleen	hemangioma	<50> 3 (6%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
	malignant lymphoma	2 (4%)	3 (6%)	2 (4%)	1 (2%)
	hemangiosarcoma	2 (4%)	1 (2%)	1 (2%)	0 (0%)
(a)	a: Number of animals examined at the site b: Number of animals with neoplasm c: b/a * 100	•			

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

Organ		o Name Control of animals on Study 50	750 ppm 50	1500 ppm 50	3000 ррт 50
{Circulatory s	system)				
heart	hemangioma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
Digestive sys	stem}				
stomach	squamous cell carcinoma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
small intes	adenocarcinoma	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
liver	hemangioma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	hepatocellular adenoma	7 (14%)	8 (16%)	5 (10%)	3 (6%)
	histiocytic sarcoma	3 (6%)	1 (2%)	0 (0%)	2 (4%)
	hemangiosarcoma	7 (14%)	3 (6%)	3 (6%)	0 (0%)
	hepatocellular carcinoma	6 (12%)	7 (14%)	4 (8%)	0 (0%)
	hepatoblastoma	1 (2%)	0 (0%)	0 (0%)	0 (0%)
gall bladd	adenoma	<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
pancreas	islet cell adenoma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
(Urinary syste	em)				
urin bladd	xanthoma	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)

ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

(re to the control of					
(Endocrine system)					
pituitary ade	enoma	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
{Reproductive syste	(me				
epididymis his	stiocytic sarcoma	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)
(Nervous system)					
periph nerv his	stiocytic sarcoma	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Special sense orga	ans/appendage)				
Harder gl ade	enoma	<50> 2 (4%)	<50> 3 (6%)	<50> 4 (8%)	<50> 1 (2%)

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APPENDIX N 2

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

Organ	Findings	Group Name No. of animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
[Integumentar	ry system/appandage)					
subcutis	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)	<50> 1 (2%)
	hemangiosarcoma .		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Respiratory	system)					
lung	bronchiolar-alveolar adenoma		<50> 0 (0%)	<50> 1 (2%)	<49> 1 (2%)	<50> 0 (0%)
	bronchiolar—alveolar carcinoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
(Hematopoieti	c system)					
lymph node	malignant lymphoma		<50> 18 (36%)	<50> 17 (34%)	<49> 9 (18%)	<50> 9 (18%)
	mastcytoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
lymus	thymoma:malignant	. 	<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
spleen	malignant lymphoma		<50> 4 (8%)	<50> 2 (4%)	<49> 1 (2%)	<50> 3 (6%)
{Digestive sy	rstem)					
tongue	squamous cell carcinoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
< a >	a : Number of animals examined at the site					

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

ALL ANIMALS (0-105W)

SEX : FEMALE

500 ppm 1500 ppm 4500 ppm Group Name Control No. of animals on Study 50 50 49 50 Organ_ Findings_ (Digestive system) <50> <50> <50> stomach <49> mastcytoma:malignant 0 (0%) 0 (0%) 1 (2%) 1 (2%) liver ⟨50⟩ <50> <49> <50> 0 (0%) hemangioma 0 (0%) 1 (2%) 1 (2%) hepatocellular adenoma 0 (0%) 6 (12%) 1 (2%) 2 (4%) histiocytic sarcoma 1 (2%) 2 (4%) 1 (2%) 0 (0%) hepatocellular carcinoma 1 (2%) 2 (4%) 0 (0%) 0 (0%) {Urinary system} kidney <50> <50> ⟨49⟩ <50> renal cell carcinoma 0 (0%) 2 (4%) 0 (0%) 0 (0%) {Endocrine system} pituitary <50> <50> (49) <50> adenoma 5 (10%) 6 (12%) 1 (2%) 1 (2%) adenocarcinoma 0 (0%) 1 (2%) 1 (2%) 0 (0%) adrenal <50> ⟨50⟩ <49> <50> 0 (0%) pheochromocytoma 0 (0%) 1 (2%) 0 (0%) {Reproductive system} ovary <49> ⟨50⟩ <49> <50> cystadenoma 1 (2%) 3 (6%) 2 (4%) 1 (2%) < a > a: Number of animals examined at the site b (c) b: Number of animals with neoplasm c:b/a*100

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ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

PAGE: 6

Organ		roup Name do. of animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ррт 50
{Reproductive	system)					
vary	hemangioma		<49> 2 (4%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
iterus	endometrial stromal polyp		<50> 1 (2%)	<50> 0 (0%)	<47> 3 (6%)	<50> 2 (4%)
	histiocytic sarcoma		5 (10%)	6 (12%)	12 (26%)	9 (18%)
mammary gl	adenocarcinoma		<50> 2 (4%)	<50> 0 (0%)	<49> 0 (0%)	<50> 0 (0%)
(Special sens	e organs/appendage)					
larder gl	adenoma		<50> 2 (4%)	<50> 2 (4%)	<49> 1 (2%)	<50> 0 (0%)
(Musculoskele	tal system)					
oone	osteosarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
vertebra	hemangioma		<50> 0 (0%)	<50> 0 (0紫)	<49> 1 (2%)	<50> .0 (0%)
<a>><a><a>	a: Number of animals examined at the site b: Number of animals with neoplasm c:b/a*100					

(HPT085)

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APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE: MALE: (2-YEAR STUDY)

STUDY No. : 0348 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS ANIMAL : MOUSE Crj:BDF1

DA · MADE					rage .
Group Name	Control	750 ppm	1500 ppm	3000 ppm	
	SITE : lung				
	TUMOR : bronchiolar-alveol	ar adenoma			
Tumor rate					
Overall rates(a)	5/50(10.0)	6/50(12.0)	4/50(8.0)	3/50(6.0)	
Adjusted rates(b)	13. 51	16. 67	10.53	6. 98	
Terminal rates(c)	5/37(13.5)	6/36(16.7)	4/38(10.5)	3/43(7.0)	
Statistical analysis					
Peto test	_				
Standard method(d)	P =				
Prevalence method(d)	P = 0.8826				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.3582	7	2		
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3575	
	SITE : lung				
	TUMOR : bronchiolar-alveol	ar carcinoma			
Tumor rate					
Overall rates(a)	4/50(8.0)	3/50(6.0)	5/50(10.0)	1/50(2.0)	
Adjusted rates(b)	5. 41	8. 33	5. 26	2. 33	
Terminal rates(c)	2/37(5.4)	3/36(8.3)	2/38(5.3)	1/43(2.3)	
Statistical analysis					
Peto test					
Standard method(d)	P = 0.7930				
Prevalence method(d)	P = 0.8103				
Combined analysis(d)	P = 0.8914				
Cochran-Armitage test(e)	P = 0.2648				
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1811	
	SITE : lung				
	TUMOR : bronchiolar-alveol	ar adenoma, bronchiolar-alveolar carcinom	a		
fumor rate					
Overall rates(a)	9/50(18.0)	9/50(18.0)	9/50(18.0)	4/50(8.0)	
Adjusted rates(b)	18. 92	25. 00	15. 79	9. 30	
Terminal rates(c)	7/37(18.9)	9/36(25.0)	6/38(15.8)	4/43(9.3)	
Statistical analysis					
Peto test					
Standard method(d)	P = 0.7930				
Prevalence method(d)	P = 0.9409				
Combined analysis(d)	P = 0.9630				
Cochran-Armitage test(e)	P = 0.1372				
Fisher Exact test(e)		P = 0.6024	P = 0.6024	P = 0.1168	

(HPT360A)

SEX : MALE

STUDY No. : 0348 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1
SEX : MALE PAGE: 2

Group Name	Control	750 ppm	1500 ppm	3000 ppm
	SITE : lymph node			
	TUMOR : malignant lymphoma			
umor rate Overall rates(a)	7/50(14.0)	11/50(22.0)	0/50(19 0)	6 (50 (19 0)
Adjusted rates(b)	10.81	13. 89	9/50 (18. 0) 13. 16	6/50(12.0) 11.63
Terminal rates(c)	4/37(10.8)	5/36(13.9)	5/38(13.2)	5/43(11.6)
tatistical analysis Peto test	2701(10.0)	0,00(10.0)	0,00(10.2)	0/10(11.0)
Standard method(d)	P = 0.8911			
Prevalence method(d)	P = 0.4983			
Combined analysis(d)	P = 0.7942			
Cochran-Armitage test(e)	P = 0.5407			
Fisher Exact test(e)		P = 0.2178	P = 0.3929	P = 0.5000
	SITE : spleen TUMOR : homangioma			
umor rate	TORION : Hemangroma			
Overall rates(a)	3/50(6,0)	1/50(2.0)	1/50(2.0)	0/50(0,0)
Adjusted rates(b)	8. 11	2. 78	2. 13	0.0
Terminal rates(c)	3/37(8.1)	1/36(2.8)	0/38(0.0)	0/43(0.0)
tatistical analysis				
Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0.9650			
Combined analysis(d)	P =			
Cochran-Armitage test(e)	P = 0.0783			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.1212
	SITE : spleen			
	TUMOR : malignant lymphoma			
mor rate	. mortBrone Timbrone			
Overall rates(a)	2/50(4.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	5. 41	8. 33	5. 26	2. 33
Terminal rates(c)	2/37(5.4)	3/36(8.3)	2/38(5.3)	1/43(2.3)
tatistical analysis Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0.8103			
Combined analysis(d)	P =			
Cochran-Armitage tost(e)	P = 0.4642			
Fisher Exact test(e)		P = 0.5000	P = 0.6913	P = 0.5000

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

STUDY No. : 0348

ANIMAL : MOUSE Crj:BDF1 SEX : MALE

Group Name	Control	750 ppm	1500 ppm	3000 ppm	
	SITE : spleen				
	TUMOR : hemangioma, hemangiosa	arcoma			
fumor rate	5/50(10.0)	0/50/ 4.0)	0/50/ 1.0)	0/50/ 0.0)	
Overall rates(a)	5/50(10.0)	2/50(4.0)	2/50(4.0)	0/50(0.0)	
Adjusted rates(b) Terminal rates(c)	11.63 4/37(10.8)	5. 56	4. 26 0/38(0. 0)	0.0	
Statistical analysis	4/3/(10.8)	2/36(5.6)	0/36(0.0)	0/43(0.0)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.9906				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.0245*				
Fisher Exact test(e)		P = 0.2180	P = 0.2180	P = 0.0281*	
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)	TUMOR : hepatocellular adenor 7/50(14.0) 18.92 7/37(18.9) P = 0.5856 P = 0.9526 P = 0.9595 P = 0.1245	8/50 (16. 0) 19. 44 7/36 (19. 4) P = 0,5000	5/50(10.0) 11.11 4/38(10.5) P = 0.3798	3/50(6.0) 6.98 3/43(7.0) P = 0.1589	
	SITE : liver TUMOR : histiocytic sarcoma	, 3,000		. 6.166	
Tumor rate					
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/50(0.0)	2/50(4.0)	
Adjusted rates(b)	2. 70	0.0	0.0	2. 33	
Terminal rates(c) Statistical analysis Peto test	1/37(2.7)	0/36(0.0)	0/38(0.0)	1/43 (2.3)	
Standard method(d)	P = 0.7515				
Prevalence method(d)	P = 0.4288				
Combined analysis(d)	P = 0.6817				
Cochran-Armitago test(e)	P = 0.6742				
Fisher Exact test(e)		P = 0.3087	P = 0.1212	P = 0.5000	

(HPT360A)

STUDY No. : 0348 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1
SEX : MALE

Group Name	Control	750 ppm	1500 ppm	3000 ppm	
	SITE : liver				
	TUMOR : hemangiosarcoma				
fumor rate	7/50/ 14.0)	0/50/ (0)	0/50/ (0)	0/50(0.0)	
Overall rates(a) Adjusted rates(b)	7/50 (14. 0) 9. 30	3/50(6.0)	3/50(6.0)	0/50(0.0)	
Terminal rates(c)	3/37(8.1)	5. 56 2/36(5. 6)	7.89 3/38(7.9)	0. 0 0/43(0. 0)	
Statistical analysis	3/31(3.1)	2/30(3.0/	3/30(1.9)	0/43(0.0)	
Peto test					
Standard method(d)	P = 0.9889				
Prevalence method(d)	P = 0.9716				
Combined analysis(d)	P = 0.9979				
Cochran-Armitage test(e)	P = 0.0077**				
Fisher Exact test(e)		P = 0.1589	P = 0.1589	P = 0.0062**	
	SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate					
Overall rates(a)	6/50(12.0)	7/50(14.0)	4/50(8.0)	0/50(0.0)	
Adjusted rates(b)	11. 63	17. 95	10. 53	0. 0	
Terminal rates(c)	4/37(10.8)	6/36(16.7)	4/38(10.5)	0/43(0.0)	
Statistical analysis					
Peto test Standard method(d)	P = 0.9036 ?				
Prevalence method(d)	P = 0.9929				
Combined analysis(d)	P = 0.9965				
Cochran-Armitago test(e)	P = 0.0115*				
Fisher Exact test(e)		P = 0.5000	P = 0.3703	P = 0.0133*	
	SITE : liver				
	TUMOR : hemangioma, hemangiosarcoma				
Tumor rate	Tomorio Tomorio Tomorio Tomo				
Overall rates(a)	8/50(16.0)	3/50(6.0)	3/50(6.0)	0/50(0.0)	
Adjusted rates(b)	11. 63	5. 56	7. 89	0.0	
Terminal rates(c)	4/37(10.8)	2/36(5.6)	3/38(7.9)	0/43(0.0)	
Statistical analysis					
Peto test					
Standard method(d)	P = 0.9889				
Prevalence method(d)	P = 0.9877				
Combined analysis(d)	P = 0.9992				
Cochran-Armitage test(e)	P = 0.0037**	D 0 0000	D 0.000	D 0.00	
Fisher Exact test(e)		P = 0.0999	P = 0.0999	P = 0.0029**	

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1

SEX : MALE

(HPT360A)

Group Name	Control	750 ppm	1500 ppm	3000 ppm	
	SITE : liver		•		
	TUMOR : hepatocellular adend	oma, hepatocellular carcinoma			
umor rate					
Overall rates(a)	11/50(22.0)	15/50(30.0)	9/50(18.0)	3/50(6.0)	
Adjusted rates(b)	24. 32	36. 11	21.05	6. 98	
Terminal rates(c)	9/37(24.3)	13/36(36.1)	8/38(21.1)	3/43(7.0)	
tatistical analysis					
Peto test					
Standard method(d)	P = 0.8776				
Prevalence method(d)	P = 0.9956				
Combined analysis(d)	P = 0.9978				
Cochran-Armitage test(e)	P = 0.0088**				
Fisher Exact test(e)		P = 0.2472	P = 0.4016	P = 0.0204*	
	SITE : Harderian gland TUMOR : adenoma				
umor rate					
Overall rates(a)	2/50(4.0)	3/50(6.0)	4/50(8.0)	1/50(2.0)	
Adjusted rates(b)	4. 08	8. 33	10, 00	2. 33	
Terminal rates(c)	1/37(2,7)	3/36(8.3)	2/38(5.3)	1/43(2.3)	
tatistical analysis			-, (2, 22 (2, 2,	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.7169				
Combined analysis(d)	P =				
Cochran Armitage test(e)	P = 0.5834				

(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 probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.

: There is no data which should be statistical analysis.

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

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

BAIS3

APPENDIX O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE: FEMALE: (2-YEAR STUDY)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

STUDY No. : 0348

ANIMAL : MOUSE Crj:BDF1

(HPT360A)

Group Name	Control	500 ppm	1500 ppm	4500 ppm	
Oroup Hamo	001101		, , , , , , , , , , , , , , , , , , ,		
	SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate	TOMOR - mailghairt lymphoma				
Overall rates(a)	18/50(36.0)	17/50(34.0)	9/49(18.4)	9/50(18.0)	
Adjusted rates(b)	22. 58	29. 17	11.11	16. 67	
Terminal rates(c)	7/31(22.6)	7/24(29.2)	3/27(11.1)	6/36(16.7)	
itatistical analysis Peto test					
Standard method(d)	P = 0.9947				
Prevalence method(d)	P = 0.7996				
Combined analysis(d)	P = 0.9934				
Cochran-Armitage test(e)	P = 0.0301*				
Fisher Exact test(e)		P = 0.5000	P = 0.0400*	P = 0.0352*	
	SITE : spleen				
	TUMOR : malignant lymphoma				
Tumor rate					
Overall rates(a)	4/50(8.0)	2/50(4.0)	1/49(2.0)	3/50(6.0)	
Adjusted rates(b)	12. 90	4. 17	0.0	8. 33	
Terminal rates(c)	4/31(12.9)	1/24(4.2)	0/27(0.0)	3/36(8.3)	
Statistical analysis Peto test					
Standard method(d)	P = 0.6377				
Prevalence method(d)	P = 0.5274				
Combined analysis(d)	P = 0.6162				
Cochran-Armitage test(e)	P = 0.9621				
Fisher Exact test(e)		P = 0.3389	P = 0.1874	P = 0.5000	
	SITE : liver				
	TUMOR : hepatocellular adenoma				
Tumor rate	0 (50 (0.0)	0 (50 (40 0)	(404 0.0)	0 (50 (. 4.6)	
Overall rates(a)	0/50(0.0)	6/50 (12. 0)	1/49(2.0)	2/50(4.0)	
Adjusted rates(b)	0.0	15. 63	3.70	5.00	
Terminal rates(c) Statistical analysis	0/31(0.0)	3/24(12.5)	1/27(3.7)	1/36(2.8)	
Peto test					
Standard method(d)	p =				
Prevalence method(d)	P = 0.5904				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.8255				
Fisher Exact test(e)		P = 0.0133*	P = 0.4949	P = 0.2475	

BAIS3

STUDY No. : 0348 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Crj:BDF1 SEX : FEMALE

Group Name	Control	500 ppm	1500 ррт	4500 ppm			
	SITE : liver	anataaallulan aanainama					
TUMOR : hepatocellular adenoma, hepatocellular carcinoma Tumor rate							
Overall rates(a)	1/50(2.0)	8/50(16.0)	1/49(2.0)	2/50(4.0)			
Adjusted rates(b)	3. 23	19. 35	3. 70	5. 00			
Terminal rates(c)	1/31(3.2)	4/24(16.7)	1/27(3.7)	1/36(2.8)			
Statistical analysis							
Peto test	D - 0 5471						
Standard method(d) Prevalence method(d)	P = 0.5471 P = 0.7732						
Combined analysis(d)	P = 0.8283						
Cochran-Armitage test(e)	P = 0.3941						
Fisher Exact test(e)		P = 0.0154*	P = 0.7475	P = 0.5000			
	SITE : pituitary gland TUMOR : adenoma						
Tumor rate							
Overall rates(a)	5/50(10.0)	6/50(12.0)	1/49(2.0)	1/50 (2.0)			
Adjusted rates(b)	9. 68 3/31 (9. 7)	20. 83	3.70	2.78			
Terminal rates(c) Statistical analysis	3/31(9.1)	5/24(20.8)	1/27(3.7)	1/36(2.8)			
Peto test							
Standard method(d)	P = 0.8797						
Prevalence method(d)	P = 0.9771						
Combined analysis(d)	P = 0.9910						
Cochran-Armitage test(e)	P = 0.0467*						
Fisher Exact test(e)		P = 0.5000	P = 0.1068	P = 0.1022			
	SITE : pituitary gland						
Tumor rate	TUMOR : adenoma, adenocarcinoma						
Overall rates(a)	5/50(10.0)	7/50(14.0)	2/49(4.1)	1/50(2.0)			
Adjusted rates(b)	9. 68	25. 00	3.70	2.78			
Terminal rates(c)	3/31 (9.7)	6/24(25.0)	1/27(3.7)	1/36(2.8)			
Statistical analysis							
Peto test	D 0.0070						
Standard method(d)	P = 0.8373 $P = 0.9846$						
Cochran-Armitage test(e)	P = 0.0400*						
Fisher Exact test(e)		P = 0.3798	P = 0.2264	P = 0.1022			
-	P = 0.9846 P = 0.9927 P = 0.0400*	P = 0.3798	P = 0.2264	P = 0.1022			

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE: 8

ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

Group Name	Control	500 ppm	1500 ppm	4500 ppm	
	SITE : ovary				
	TUMOR : cystadenoma				
umor rate					
Overall rates(a)	1/49(2.0)	3/50(6.0)	2/49(4.1)	1/50(2.0)	
Adjusted rates(b)	3. 13	8. 33	5. 26	2. 78	
Terminal rates(c)	0/30(0.0)	2/24(8.3)	1/27(3.7)	1/36(2.8)	
tatistical analysis					
Peto test					
Standard method(d)	P = 0.5364				
Prevalence method(d)	P = 0.6441				
Combined analysis(d)	P = 0, 7253				
Cochran-Armitage test(e)	P = 0.5921	•			
Fisher Exact test(e)		P = 0.3163	P = 0.5000	P = 0.7576	
	SITE : uterus TUMOR : ondometrial stromal	ројур			
umor rate					
Overall rates(a)	1/50(2.0)	0/50(0.0)	3/47(6.4)	2/50(4.0)	
Adjusted rates(b)	2. 38	0. 0	11. 11	5. 56	
Terminal rates(c)	0/31(0.0)	0/24(0.0)	3/27(11.1)	2/36(5,6)	
tatistical analysis					
Peto test					
Standard method(d)	P =				
	P = 0.2314				
Prevalence method(d)					
Prevalence method(d) Combined analysis(d)	P =				
Combined analysis(d)					
	P =	P = 0.5000	P = 0.2855	P = 0.5000	

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : MOUSE Cri:BDF1

: FEMALE

·	Control	500 ppm	1500 ppm	4500 ppm	
	SITE : uterus				
	TUMOR : histiocytic sarcoma				
umor rate					
Overall rates(a)	5/50(10.0)	6/50(12.0)	12/47(25.5)	9/50(18.0)	
Adjusted rates(b)	8. 11	8.33	17. 24	2. 78	
Terminal rates(c)	2/31(6.5)	2/24(8.3)	4/27(14.8)	1/36(2.8)	
tatistical analysis					
Peto test					
Standard method(d)	P = 0.0547				
Prevalence method(d)	P = 0.8465				
Combined analysis(d)	P = 0.2273				
Cochran-Armitage test(e)	P = 0.2999				
Fisher Exact test(e)		P = 0.5000	P = 0.0399*	P = 0.1940	

(HPT360A)

BA1S3

PAGE: 9

- (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 probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.

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

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

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

APPENDIX P 1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

(JPT150)

PAGE: 1

BAIS3

rgan	Findings	Group Name No. of Animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm
Integumentar	y system/appandage)					
kin/app	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
ubcutis	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
Respiratory	system)					
asal cavit	leukemic cell infiltration		<50> 0	<50> 1	<50> 2	<50> 0
rachea	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
Ing	leukemic coll infiltration		<50> 2	<50> 6	<50> 4	<50> 1
	metastasis:liver tumor		3	4	1	1
	metastasis:epididymis tumor		1	1	0	2
Hematopoieti	c system)					
one marrow	leukemic cell infiltration		<50> 0	<50> 3	<50> 1	<50> 1
	metastasis:liver tumor		1	0	0	1
mph node	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
pleen	leukemic cell infiltration		<50> 6	<50> 8	<50> 7	<50> 4
a > b	a: Number of animals examined at b: Number of animals with lesion	the site				

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MALE

bygon	Findings	Group Name No. of Animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
rgan	Findings					
Hematopoietie	: system)					
spleen			<50>	<50>	<50>	<50>
	metastasis:liver tumor		1	0	0	0
	metastasis:epididymis tumor		0	0	0	2
Circulatory	system}					
eart			<50>	<50>	<50>	<50> .
	leukemic cell infiltration		0	0	1	0
Digestive sy	stem)					
	- · · · · · · · · · · · · · · · · · · ·		ZE05	ZE03	(50)	ZE03
tongue	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
alivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	. 2	0
	metastasis:liver tumor		1	0	0	0
esophagus			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
stomach			<50>	<50≻	<50>	<50>
	leukemic cell infiltration		0	1	2	0
small intes			<50>	<50>	<50>	<50>
	metastasis:liver tumor		1	0	0	0
large intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	3	3	1

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

		Group Name No. of Animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
Organ	Findings				Manuscrian de la francisco de la constanción de	
{Digestive sy	ystem}					
liver	metastasis:epididymis tumor		<50> 1	<50> 1	<50> 0	<50> 2
pancreas	leukemic cell infiltration		<50> 0	<50> 0	<50> 4	<50> 1
{Urinary syst	сен)					
kidney	leukemic coll infiltration		<50> 0	<50> 3	<50> 3	<50> 0
	metastasis:liver tumor		0	0	0	1
	metastasis:epididymis tumor		1	0	0	0
urin bladd	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
{Endocrine sy	vstem)			•		
pituitary	metastasis:peripheral nerve tumor		<50> 0	<50> 0	<50> 0	<50> 1
thyroid	leukemic cell infiltration		<50> 0	<50> 0	<50> 2	<50> 0
adrenal	leukemic coll infiltration		<50> 0	<50> 3	<50> 1	<50> 0
{Reproductive	e system)					
testis	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
⟨a⟩ b	a: Number of animals examined at the s b: Number of animals with lesion	ite				
(JPT150)				-		BAISS

: MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 : MALE SEX

ANIMAL

(JPT150)

Group Name Control 750 ppm 1500 ppm 3000 ppm No. of Animals on Study 50 50 50 50 Findings_ Organ____ {Reproductive system} epididymis <50> <50> <50> <50> leukemic cell infiltration <50> <50> semin ves <50> <50> leukemic cell infiltration ⟨50⟩ <50> <50> prostate <50> leukemic cell infiltration 1 {Special sense organs/appendage} eye <50> <50> <50> <50> leukemic cell infiltration (Musculoskeletal system) muscle <50> ⟨50⟩ <50> <50> leukemic cell infiltration (Body cavities) mesenterium <50> <50> <50> <50> metastasis:liver tumor 1 0 0 0 < a > a: Number of animals examined at the site b: Number of animals with lesion

BAIS3

APPENDIX P 2

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: ALL ANIMALS

(2-YEAR STUDY)

ANIMAL : MOUSE Crj:BDF1

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

REPORT TYPE : A1

SEX : FEMALE

_		Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
rgan	Findings					
(Integumentar	ry system/appandage}					
skin/app	leukemic cell infiltration		<50> 0	<50> 2	<49> 2	<50> 1
ubcutis	lcukemic cell infiltration		<50> 1	<50> 1	<49>	<50> 0
	metastasis:uterus tumor		0	0	0	1
Respiratory	system)					
nasal cavit	leukemic cell infiltration		<50> 0	<50> 1	<49>	<50> 0
	metastasis:liver tumor		0	0	. 1	0
trachea	leukemic cell infiltration		<50> 3	<50> 1	<49>	<50> 0
ung	leukemic cell infiltration		<50> 16	<50> 12	<49>	<50> 6
	metastasis:liver tumor		1	3	1	0
	metastasis:uterus tumor		2	2	6	4
	metastasis:subcutis tumor		0	0	0	1
	metastasis:mammary gland tumor		1	0	0	0
	metastasis:thymus tumor		0	0	1	0
(Hematopoieti	ic system)					
bone marrow	leukemic cell infiltration		<50> 2	<50> 0	<49>	<50> 1
< a >	a: Number of animals examined at the s b: Number of animals with lesion	ite				

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1 REPORT TYPE : A1

SEX : FEMALE

ALL ANIMALS (0-105W)

PAGE: 6

	Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
rgan Findings				~~	30
Hematopoietic system}					
pohe marrow metastasis:uterus tumor		<50> 1	<50> 1	<49> 1	<50> 1
metastasis:lympho node tumor		0	1	0	0
lymph node metastasis:liver tumor		<50> 0	<50> 1	<49>	<50> 0
metastasis:uterus tumor		0	0	2	0
metastasis:stomach tumor		0	0	0	1
thymus leukemic cell infiltration		<50> 0	<50> 0	<49> 0	<50> 1
spleen leukemic cell infiltration		<50> 13	<50> 12	<49> 7	<50> 7
metastasis:uterus tumor		0	1	1	0
metastasis:stomach tumor		0 -	0	0	1
(Circulatory system)					
heart leukemic cell infiltration		<50>	<50> 6	<49> 3	<50> 2
metastasis:liver tumor		0	1	1	0
{Digestive system}					
tongue leukemic cell infiltration		<50> 1	<50> 1	<49> 3	<50>
<pre>d a : Number of animals examined at th b : Number of animals with lesion</pre>	e site				
(JPT150)				· · · · · · · · · · · · · · · · · · ·	

: 0348

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

ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1

SEX : FEMALE

		Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
Organ	Findings					<u> </u>
{Digestive sy	rstem}					
salivary gl	leukemic cell infiltration		<50> 6	<50> 6	< 49> 5	<50> 4
stomach	leukemic cell infiltration		<50> 8	<50> 3	<49> 5	<50> 4
	metastasis:uterus tumor		0	0	2	2
	metastasis:subcutis tumor		0	0	0	1
small intes	leukemic cell infiltration		<50> 1	<50> 1	<49> 1	<50> 1
	metastasis:uterus tumor		0	0	0	1
liver	leukemic cell infiltration		<50> 13	<50> 11	<49> 8	<50> 5
	metastasis:uterus tumor		3	4	10	8
	metastasis:stomach tumor		0	1	0	1
	metastasis:lympho node tumor		0	1	. 0	0
pancreas	leukemic cell infiltration		<50> 3	<50> 2	<49> 1	<50> 1
{Urimary syst	tem)					
kidney	leukemic cell infiltration		<50> 8	<50> 9	<49> 5	<50> 5
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		2	1	4	3
(a)	a: Number of animals examined at the s b: Number of animals with lesion	ite				

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

me Endocrine system) ituitary 1e hyroid 1e drenal	eukemic cell infiltration etastasis:uterus tumor eukemic cell infiltration eukemic cell infiltration	<50> 5 0 <50> 0	<50> 3 0 <50> 2	<49> 5 2 <49> 0	<50> 2 0 <50>
rin bladd le me Endocrine system) ituitary le hyroid le drenal	etastasis:uterus tumor , . eukemic cell infiltration	5 0 <50>	3 0 <50>	5 2 <49>	2 0 <50>
le me Endocrine system) ituitary le hyroid le drenal	etastasis:uterus tumor , . eukemic cell infiltration	5 0 <50>	3 0 <50>	5 2 <49>	2 0 <50>
Endocrine system) ituitary 1e hyroid 1e drenal	eukemic cell infiltration	<50>	<50≻	<49>	<50>
ituitary 1e hyroid 1e drenal	eukemic cell infiltration				
le nyroid le drenal					
hyroid le drenal		U			^
le drenal	eukemic cell infiltration			-	0
drenal		<50> 0	<50> 0	<49>	<50> 0
		<50>	<50>	<49>	<50>
16	eukemic cell infiltration	1	4	2	2
me	etastasis:lympho node tumor	0	1	0	0
Reproductive syst	tem)				
vary		<50>	<50>	<49>	<50>
16	eukemic cell infiltration	10	7	5	3
me	etastasis:liver tumor	1	0	1	0
me	etastasis:uterus tumor	3	. 4	6	6
terus		<50>	<50>	<49>	<50>
16	eukemic cell infiltration	3	5	4	2
agina Le	eukemic cell infiltration	<50> 1	<50> 0	<49> 2	<50> 0
me	etastasis:uterus tumor	0	1	1	0

: MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

REPORT TYPE : A1

ANIMAL

ALL ANIMALS (0-105W)

SEX : FEMALE PAGE: 9 Group Name Control 500 ppm 1500 ppm 4500 ppm No. of Animals on Study 50 49 50 Findings_ {Reproductive system} mammary gl <50> <50> <49> <50> leukemic cell infiltration {Nervous system} <50> <50> <49> ⟨50⟩ brain leukemic cell infiltration metastasis:pituitary tumor 1 spinal cord <50> <50> <49> <50> leukemic cell infiltration 0 0 {Special sense organs/appendage} eye <50> <50> <49> <50> leukemic cell infiltration 0 0 1 1 Harder gl <50> <50> <49> ⟨50⟩ leukemic cell infiltration 2 1 {Musculoskeletal system} muscle <50> ⟨50⟩ **<49>** <50> leukemic cell infiltration 2 0 3 metastasis:uterus tumor 0 1 0 metastasis: subcutis tumor 1 0 {Body cavities} mediastinum <50> <50> <49> <50> leukemic cell infiltration 3 2 < a > a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

PAGE: 10

Organ		roup Name o. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50

Body cavitie	es)					
eritoneum			<50>	<50>	<49>	<50≻
	leukemic cell infiltration		1	2	0	0
	metastasis:subcutis tumor		0	0	0	1
dipose			<50>	<50>	< 4 9>	<50>
	metastasis:stomach tumor		0	0	0	1
a >	a : Number of animals examined at the site	е				
b	b : Number of animals with lesion					
JPT150)						B

BAIS3

APPENDIX P 3

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

_		Group Name No. of Animals on Study	Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
)rgan	Findings					
(Integumentar	y system/appandage)					
skin/app	leukemic cell infiltration	•	<13> 0	<14> 0	<12>	· < 7> 0
subcutis	leukemic cell infiltration		<13> 0	<14>	<12> 0	< 7> 0
Respiratory	system)					
nasal cavit	leukemic cell infiltration		<13> 0	<14> 1	<12> 2	< 7> 0
trachea	leukemic cell infiltration		<13> 0	<14> 0	<12> 1	< 7> 0
lung	loukemic cell infiltration		<13> 0	<1 4> 5	<12> 4	< 7>
	metastasis:liver tumor		2	1	0	1
	metastasis:epididymis tumor		1	1	0	2
(Hematopoieti	c system)					
pone marrow	leukemic cell infiltration		<13> 0	<14> 2	<12> 1	< 7>
	metastasis:liver tumor		1	0	0	1
spleen	leukemic cell infiltration		<13> 2	<14> 4	<12> 4	< 7>
	metastasis:liver tumor		1	0	0	0
	metastasis:epididymis tumor		0	0	0	2
(a)	a: Number of animals examined at the sib: Number of animals with lesion	te				

STUDY NO. : 0348 HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

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

Organ		Group Name No. of Animals on Study	Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
organ	rindings				· · · · · · · · · · · · · · · · · · ·	
Circulatory s	system}					
ieart	leukemic cell infiltration		<13> 0	<14> 0	<12> 1	< 7> 0
{Digestive sys	stem)					
tongue	leukemic cell infiltration		<13> 0	<14> 0	. <12>	< 7>
salivary gl	leukemic cell infiltration		<13> 0	<14> 0	<12> 2	< 7> 0
esophagus	leukemic cell infiltration		<13> 0	<14> 0	<12> 1	< 7>
stomach	leukemic cell infiltration		<13> 0	<14> 1	<12> 2	< 7> 0
large intes	leukemic cell infiltration		<13> 1	<14> 0	<12> 0	< 7>
liver	leukemic cell infiltration		<13> 0	<14> 3	<12> 3	< 7>
	metastasis:epididymis tumor		1	1	0	2
pancreas	leukemic cell infiltration		<13> 0	<14> 0	<12> 3	< 7> 0
{Urinary syst	em)					
kidney	leukemic cell infiltration		<13> 0	<14> 2	<12> 2	< 7>
	metastasis:liver tumor		0	0	0	1
 (а) b	a: Number of animals examined at the si b: 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 : MALE

•		Group Name No. of Animals on Study	Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
rgan	Findings					
Urinary syst	een)					
kidney	metastasis∶epidídymis tumor		<13> 1	<14> 0	<12> 0	< 7> 0
rin bladd	leukemic cell infiltration		0 <13>	<14> 0	<12> 1	< 7> 0
(Endocrine sy	rstem)					
thyroid	loukemic cell infiltration		<13> 0	<14> 0	<12> 2	< 7> 0
adrenal	leukemic cell infiltration		<13> 0	<14> 2	<12> 1	< 7> 0
{Reproductive	system}					
estis	leukemic cell infiltration		<13> 0	<14> 1	<12> 0	< 7>
epididymis	leukemic cell infiltration		<13> 0	<14>	<12>	< 7> 0
semin ves	leukemic cell infiltration		<13> 1	<14> 0	<12> 0	< 7>
prostate	leukemic cell infiltration		<13> 0	<14> 1	<12> 1	< 7> 0
{Special sens	se organs/appendage}					
eye	leukemic cell infiltration		. <13> 0	<14> 0	<12> 1	< 7>
< a >	a: Number of animals examined at the si b: Number of animals with lesion	te				

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

PAGE: 4

BAIS3

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : MALE

(JPT150)

DEAD AND MORIBUND ANIMALS (0-105W)

Group Name Control 750 ppm 1500 ppm 3000 ppm 7 No. of Animals on Study 13 14 12 Findings_ {Musculoskeletal system} muscle <13> <14> <12> < 7> 2 leukemic cell infiltration 2 0 < a > a : Number of animals examined at the site b : Number of animals with lesion

APPENDIX P 4

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1 HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

(JPT150)

SEX : FEMALE

PAGE: 5

BA1S3

		Group Name No. of Animals on Study	Control 19	500 ppm 26	1500 ppm 22	4500 ppm 14
)r.gan	Findings					
[Trut a sur manut a	ry system/appandage)					
	rry system/appandage/					
skin/app	leukemic cell infiltration		<19> 0	<26> 2	<22> 2	<14>
subcutis	leukemic cell infiltration		<19> 0	<26>	<22> 0	<14> 0
	metastasis:uterus tumor		. 0	0	0	1
{Respiratory	system}					
nasal cavit	leukemic cell infiltration		<19>	<26>	<22> 1	<14>
	metastasis:liver tumor		0	0	. 1	0
trachea	leukemic cell infiltration		<19>	<26>	<22>	<14>
lung	leukemic cell infiltration		<19>	<26>	<22> 6	<14>
	metastasis:liver tumor		0	3	1	0
	metastasis:uterus tumor		2	2	6	4
	metastasis:subcutis tumor		0	0	0	1
	metastasis:mammary gland tumor		1	0	0	0
{Hematopoiet	tic system)					
bone matrow	leukemic cell infiltration		<19> 1	<26> 0	<22> 1	<14> 0
 ⟨a⟩ b	a : Number of animals examined at the b : Number of animals with lesion	site				

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

E: AI : FEMALE

		Group Name No. of Animals on Study	Control 19	500 ppm 26	1500 ppm 22	4500 ppm 14
rgan	Findings					
Hematopoietio	c system)					
one marrow			<19>	<26>	<22>	<14>
morrow.	metastasis:uterus tumor		1	1	1	1
ympli node			<19>	<26>	<22>	<14>
	metastasis:liver tumor		0	1	1	0
	metastasis:uterus tumor		0	0	2	0
spleen			<19>	⟨26⟩	<22>	<14>
	leukemic cell infiltration		8	6	5	3
	metastasis:uterus tumor		0	1	1	0
(Circulatory :	system)					
icart			<19>	<26>	⟨22⟩	<14>
	leukemic cell infiltration		1	6	3	. 1
	metastasis:liver tumor		0	1	1	0
Digestive sy	stem					
tongue			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	3	1
salivary gl	1		<19>	⟨26⟩	<22>	<14>
	leukemic cell infiltration		3	5	3	2
stomach	leukemic cell infiltration		<19>	<26>	<22> 4	<14>
	metastasis:uterus tumor		0	0	2	·
						2
	metastasis:subcutis tumor		0	0	0	1

ANIMAL

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

PAGE: 7

: MOUSE Crj:BDF1

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : FEMALE

Group Name 500 ppm 1500 ppm 4500 ppm Control 22 14 No. of Animals on Study 19 Findings_ Organ_ {Digestive system} <19> ⟨26⟩ <22> <14> small intes leukemic cell infiltration 1 ⟨26⟩ <19> <22> <14> liver leukemic cell infiltration 10 11 5 metastasis:uterus tumor metastasis:stomach tumor <19> <26> <22> <14> pancreas leukemic cell infiltration 1 (Urinary system) kidney <19> ⟨22⟩ <14> <26> leukemic cell infiltration 7 metastasis:liver tumor 0 metastasis:uterus tumor urin bladd <19> <14> <26> <22> leukemic cell infiltration 4 4 2 0 0 2 metastasis:uterus tumor {Endocrine system} pituitary <19> (26) <22> <14> leukemic cell infiltration thyroid <19> <26> <22> <14> loukemic cell infiltration 0 < a > a: Number of animals examined at the site ь b: Number of animals with lesion (JPT150) BAIS3

ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE PAGE: 8

		Group Name No. of Animals on Study	Control 19	500 ррв 26	1500 ppm 22	4500 ppm 14
rgan	Findings					
Endocrine sys	stem)					
adrena1	leukemic cell infiltration		<19>	<26> 4	<22> 2	<14> 2
Reproductive	system}					
ovary	leukemic cell infiltration		<19> 9	<26>	<22> 4	<14> 3
	metastasis:liver tumor		1	0	1	0
	metastasis:uterus tumor		2	4	6	6
iterus	leukemic cell infiltration		<1 9> 3	<26> 4	<22> 4	<14>
agina	leukemic cell infiltration		<19> 0	<26> 0	<22> 2	<14> 0
	metastasis:uterus tumor		0	1	1	0
nammary gl	leukemic cell infiltration		<19>	<26> 1	<22> 0	<14> 0
(Nervous syst	em)					
orain	leukemic cell infiltration		<19> 2	<26> 1	<22> 0	<14>
	metastasis:pituitary tumor		0	0	1	0
spinal cord	leukemic cell infiltration		<19> 0	<26> 1	<22> 0	<14> 0
(Special sens	e organs/appendage)					
еуе	leukemic cell infiltration		<19> 0	<26>	<22> 1	<14>
< a > b	a: Number of animals examined at b: Number of animals with lesion	the site				

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

STUDY NO. : 0348 ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1 SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 19	500 ppm 26	1500 ррш 22	4500 ppm 14
{Special sens	e organs/appendage)					
Harder gl	leukemic cell infiltration		<19>	<26>	<22> 1	<14> 0
{Musculoskele	tal system)					
muscle	leukemic cell infiltration		<19> 1	<26> 0	<22> 3	. 2
	metastasis:uterus tumor		0	0	1	0
{Body cavitie	s)					
mediastinum	leukemic cell infiltration		<19> 1	<26>	<22> 2	<14>
peritoneum	leukemic cell infiltration		<19> 1	<26>	<22> 0	<14>
	metastasis:subcutis tumor		0	0	0	1
< a > b	a: Number of animals examined at the si b: Number of animals with lesion	te				

APPENDIX P 5

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

ANIMAL : MOUSE Crj:BDF1

REPORT TYPE : A1

SEX : MALE

		Group Name No. of Animals on Study	Control 37	750 ppm 36	1500 ppm 38	3000 ppm 43
Organ	Findings					
{Respiratory	system)					
lung	leukemic cell infiltration		<37> 2	<36> 1	<38> 0	<43> 0
	metastasis:liver tumor		1	3	1	0
{Hematopoieti	c system)					
bone marrow	leukemic cell infiltration		<37> 0	<36> 1	<38> 0	<43> 0
lymph node	metastasis:liver tumor		<37> 1	<36> 0	<38> 0	<43> 0
spleen	leukemic cell infiltration		<37> 4	<36> 4	<38> 3	<43> 3
{Digestive sy	stem}					
salivary gl	metastasis:liver tumor		<37> 1	<36> 0	<38> 0	<43> 0
small intes	metastasis:liver tumor		<37> 1	<36> 0	<38> 0	<43> 0
pancreas	leukemic cell infiltration		<37> 0	<36>	<38> 1	<43> 1
{Urinary syst	em}					
kidney	leukemic cell infiltration		<37> 0	<36> 1	<38> 1	<43> 0
{Endocrine sy	stem)					
pituitary	metastasis:peripheral nerve tumor		<37> 0	<36> 0	<38> 0	<43>

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	Findings	Group Name No. of Animals on Study	Control 37	750 ppm 36	1500 ppm 38	3000 ррш 43
{Endocrine sy	rstem)					
adrenal	leukemic cell infiltration		<37> 0	<36>	<38> 0	<43> 0
{Body cavitie	es)					
mesenterium	metastasis:liver tumor		<37> 1	<36> 0	<38> 0	<43> 0
< a > b	a: Number of animals examined at the sb: Number of animals with lesion	site				
(JPT150)						BAIS3

APPENDIX P 6

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY

MOUSE: FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ANIMAL : MOUSE Crj:BDF1

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : FEMALE

500 ppm 1500 ppm 4500 ppm Group Name Control No. of Animals on Study 24 27 36 31 Organ_ Findings_ {Integumentary system/appandage} subcutis <31> <24> (27) <36> leukemic cell infiltration {Respiratory system} trachea <31> <24> <27> <36> leukemic cell infiltration 1 0 0 0 lung <31> ⟨24⟩ <27> <36> leukemic cell infiltration metastasis:liver tumor 0 0 metastasis:thymus tumor 0 0 (Hematopoietic system) <31> ⟨24⟩ <27> <36> bone marrow leukemic cell infiltration 0 0 metastasis:lympho node tumor 1 0 lymph node ⟨31⟩ <27> ⟨36⟩ ⟨24⟩ metastasis:stomach tumor 0 0 0 1 thymus <31> (24) (27) ⟨36⟩ leukemic cell infiltration 0 spleen <31> <24> <27> <36> leukemic cell infiltration 5 2 metastasis:stomach tumor 0 {Circulatory system} ⟨31⟩ ⟨24⟩ <27> heart <36> leukemic cell infiltration 0 < a > a : Number of animals examined at the site

(.TPT150)

b: Number of animals with lesion

b

BAIS3

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

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

REPORT TYPE : A1

(JPT150)

SEX : FEMALE

0	Dân Jân an	Group Name No. of Animals on Study	Control . 31	500 ppm 24	1500 ppm 27	4500 ppm 36
rgan	Findings					
Digestive sy	rstem)					
ongue	leukemic cell infiltration		<31> 1	<24> 0	<27>	<36> 0
alivary gl	leukemic cell infiltration		<31> 3	<24> 1	<27> 2	<36> 2
tomach	leukemic cell infiltration		<31> 2	<24> 0	<27> 1	<36>
mall intes	leukemic cell infiltration		<31> 1	<24> 1	<27>	<36>
	metastasis:uterus tumor		0	0	0	1
iver	leukemic cell infiltration		<31> 2	<24>	<27> 3	<36> 2
	metastasis:uterus tumor		1	0	2	0
	metastasis:stomach tumor		0	0	0	1
	metastasis:lympho node tumor		0	1	0	0
ancreas	leukemic cell infiltration		<31> 2	<24> 0	<27> 1	<36> 1
Urinary syst	cem)					
idney	leukemic cell infiltration		<31> 1	<24> 4	<27> 1	<36>
	metastasis uterus tumor		1	0	0	0
rin bladd	leukemic coll infiltration		<31> 1	<24> 1	<27> 1	<36> 0
a >	a: Number of animals examined at b: Number of animals with lesion	the site				

: MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR (SUMMARY)

PAGE: 5

BAIS3

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 : FEMALE

ANIMAL

(JPT150)

Group Name Control 500 ppm 1500 ppm 4500 ppm No. of Animals on Study 24 27 36 Findings_ Organ____ (Endocrine system) pituitary <31> ⟨24⟩ <27> <36> leukemic cell infiltration ⟨24⟩ <31> <27> <36> adrenal metastasis:lympho node tumor (Reproductive system) <27> <36> <31> <24> ovary leukemic cell infiltration metastasis:uterus tumor 1 0 0 0 uterus <31> <24> <27> ⟨36⟩ leukemic cell infiltration 0 1 1 vagina <31> (24) <27> <36> leukemic cell infiltration {Nervous system} <31> <24> brain <27> <36> metastasis:pituitary tumor (Special sense organs/appendage) Harder gl <31> <24> (27) <36> leukemic cell infiltration (Musculoskeletal system) <31> <24> <27> <36≻ muscle metastasis: subcutis tumor 1 0 < a > a: Number of animals examined at the site b b: Number of animals with lesion

ANIMAL : MOUSE Crj:BDF1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

Organ		Group Name No. of Animals on Study	Control 31	500 ppm 24	1500 ppm 27	4500 ppm 36
{Body cavities	s)					
mediastinum	leukemic cell infiltration		<31> 2	<24>	<27> 0	0 <36>
adipose	metastasis:stomach tumor		0 0	<24>	<27> 0	<36> 1
(a) b	a : Number of animals examined at the si b : Number of animals with lesion	te				
(JPT150)					· · · · · · · · · · · · · · · · · · ·	BAIS3

APPENDIX Q 1

IDENTITY AND IMPURITY OF 2-HYDROXYETHYL ACRYLATE IN THE 2-YEAR DRINKING WATER STUDY

IDENTITY AND IMPURITY OF 2-HYDROXYETHYL ACRYLATE IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : 2-Hydroxyethyl Acrylate (Wako Pure Chemical Industries, Ltd.)

A. Lot No. : WTP4588

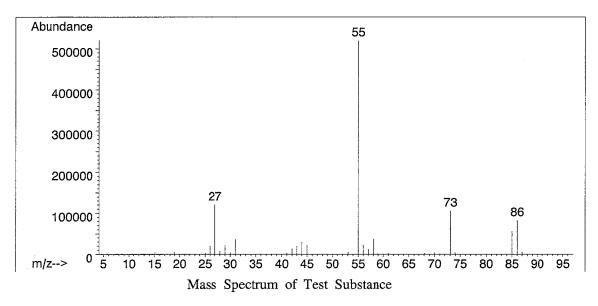
1. Spectral Data

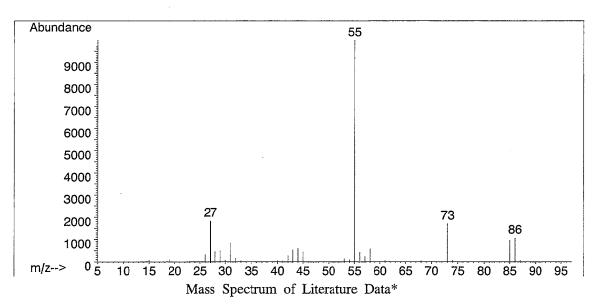
Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV





Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.

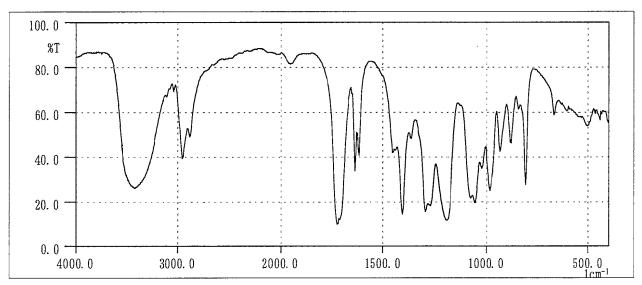
John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm⁻¹



Infrared Spectrum of Test Substance

	*
Determined Values	Literature Values
Wave Number (cm ⁻¹)	Wave Number (cm ⁻¹)
650~ 680	650~ 680
770~ 850	770~ 850
850~ 910	850~ 910
910~ 950	910~ 950
950~1010	950~1010
$1010 \sim 1140$	1010~1140
1140~1250	1140~1250
1250~1350	1250~1350
1350~1550	1350~1550
1580~1660	1580~1660
1660~1850	1660~1850
1920~2000	1920~2000
2750~3020	2750~3020
3060~3700	3060~3700

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

2. Impurity

)

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP $(0.53 \text{ mm} \phi \times 30 \text{ m})$

Column Temperature : 180 ° C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	. 1	0.965	Acrylic Acid
	2	96.466	2-Hydroxyethyl Acrylate
	3	2.514	Material which cannot be identified
	4	0.055	p-Methoxyphenol

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid (peak No.1), material which cannot be identified (peak No.3) and p-methoxyphenol (peak No.4) in the 2-hydroxyethyl acrylate, the amount in the test substance were 0.965%, 2.514% and 0.055%.

3. Conclusions: The test substance was identified as 2-hydroxyethyl acrylate by the mass spectrum and the infrared spectrum. Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid, material which cannot be identified and p-methoxyphenol, the amount in the test substance were 0.965%, 2.514% and 0.055%.

B. Lot No.

: WTH5799

1. Spectral Data

Mass Spectrometry

Instrument

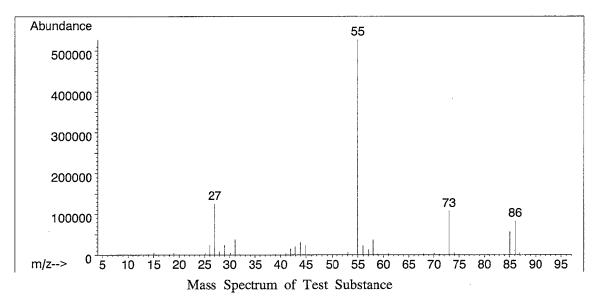
: Hewlett Packard 5989B Mass Spectrometer

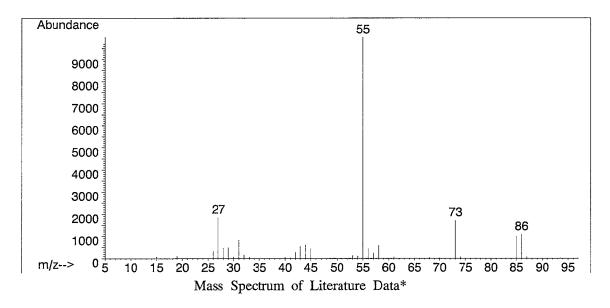
Ionization

: EI (Electron Ionization)

Ionization Voltage

: 70eV





Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.

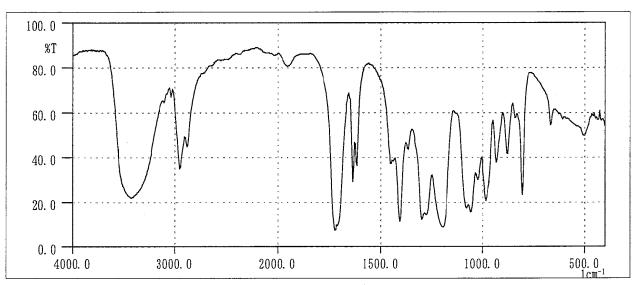
John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm⁻¹



Infrared Spectrum of Test Substance

	*
Determined Values	Literature Values
Wave Number (cm ⁻¹)	Wave Number (cm ⁻¹)
650~ 680	650~ 680
770~ 850	770~ 850
850~ 910	850~ 910
910~ 950	910~ 950
950~1010	950~1010
1010~1140	1010~1140
1140~1250	1140~1250
1250~1350	$1250 \sim 1350$
1350~1550	1350~1550
1580~1660	1580~1660
1660~1850	1660~1850
1920~2000	1920~2000
2750~3020	2750~3020
3060~3700	3060~3700

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

2. Impurity

Instrument

: Hewlett Packard 5890A Gas Chromatograph

Column

: FFAP (0.53 mm ϕ × 30 m)

Column Temperature

: 180 °C

Flow Rate

: 3 mL/min

Detector

)

: FID (Flame Ionization Detector)

Injection Volume

: 1 µL

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.855	Acrylic Acid
	2	96.295	2-Hydroxyethyl Acrylate
	3	2.794	Material which cannot be identified
	4	0.056	p-Methoxyphenol

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid (peak No.1), material which cannot be identified (peak No.3) and p-methoxyphenol (peak No.4) in the 2-hydroxyethyl acrylate, the amount in the test substance were 0.855%, 2.794% and 0.056%.

3. Conclusions: The test substance was identified as 2-hydroxyethyl acrylate by the mass spectrum and the infrared spectrum. Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid, material which cannot be identified and p-methoxyphenol, the amount in the test substance were 0.855%, 2.794% and 0.056%.

C. Lot No.

: CKQ4839

1. Spectral Data

Mass Spectrometry

Instrument

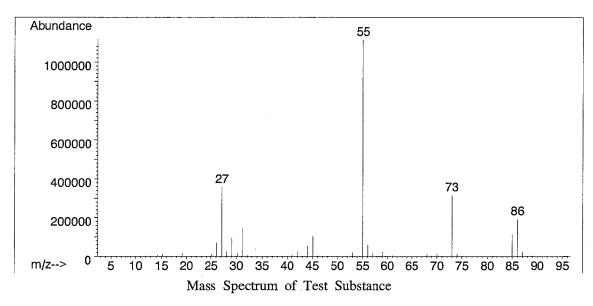
: Hewlett Packard 5989B Mass Spectrometer

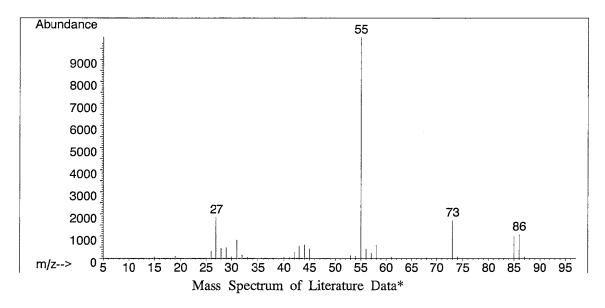
Ionization

: EI (Electron Ionization)

Ionization Voltage

: 70eV





Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.

John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

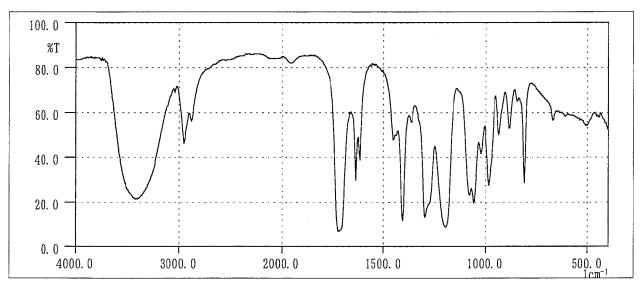
Infrared Spectrometry

)

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm⁻¹



Infrared Spectrum of Test Substance

	*
<u>Determined Values</u>	<u>Literature Values</u>
Wave Number (cm ⁻¹)	Wave Number (cm ⁻¹)
650~ 680	650~ 680
770~ 850	770~ 850
850~ 910	850~ 910
910~ 950	910~ 950
950~1010	950~1010
1010~1140	1010~1140
1140~1250	1140~1250
$1250\sim 1350$	$1250 \sim 1350$
1350~1550	1350~1550
1580~1660	1580~1660
1660~1850	1660~1850
1920~2000	1920~2000
2750~3020	2750~3020
3060~3700	3060~3700

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

2. Impurity

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm $\phi \times 30$ m)

Column Temperature : 180 °C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.789	Acrylic Acid
	2	97.556	2-Hydroxyethyl Acrylate
	3	1.602	Material which cannot be identified
	4	0.053	p-Methoxyphenol

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid (peak No.1), material which cannot be identified (peak No.3) and p-methoxyphenol (peak No.4) in the 2-hydroxyethyl acrylate, the amount in the test substance were 0.789%, 1.602% and 0.053%.

3. Conclusions: The test substance was identified as 2-hydroxyethyl acrylate by the mass spectrum and the infrared spectrum. Gas chromatography indicated one major peak (peak No.2) and three impurities. It was identified only by comparing gas chromatograph with that of acrylic acid, material which cannot be identified and p-methoxyphenol, the amount in the test substance were 0.789%, 1.602% and 0.053%.

APPENDIX Q 2

STABILITY OF 2-HYDROXYETHYL ACRYLATE
IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF 2-HYDROXYETHYL ACRYLATE IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : 2-Hydroxyethyl Acrylate (Wako Pure Chemical Industries, Ltd.)

A. Lot No. : WTP4588

1. Sample : This lot was used from 1997.12.2 to 1998.3.17. Test substance was stored

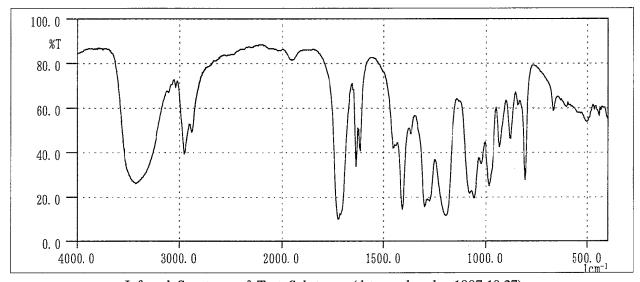
in a dark place at room temperature.

2. Infrared Spectrometry

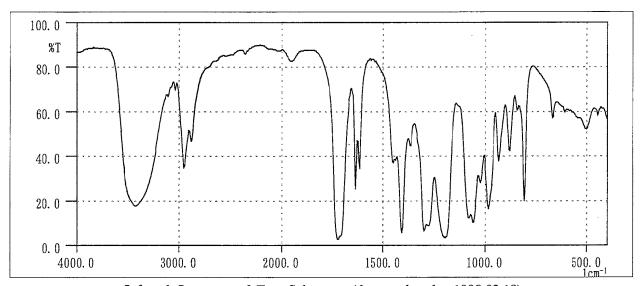
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm⁻¹



Infrared Spectrum of Test Substance (date analyzed: 1997.10.27)



Infrared Spectrum of Test Substance (date analyzed: 1998.03.18)

Results: The results of infrared spectrum did not change before and after the period.

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ × 30 m)

Column Temperature : 180 ° C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 µL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1997.10.24	1	2.487	0.965
	2	3.151	96.466
	3	7.018	2.514
	4	18.977	0.055
1998.03.18	1	2.509	0.990
	2	3.173	96.436
	3	7.084	2.520
	4	19.197	0.054

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 4% of total area) analyzed on 1997.10.24 and one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 4% of total area) analyzed on 1998.3.18. No new trace impurity peak in the test substance analyzed on 1998.3.18 was detected.

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

B. Lot No.

: WTH5799

1. Sample

: This lot was used from 1998.3.17 to 1999.9.14. Test substance was stored

in a dark place at room temperature.

2. Infrared Spectrometry

Instrument

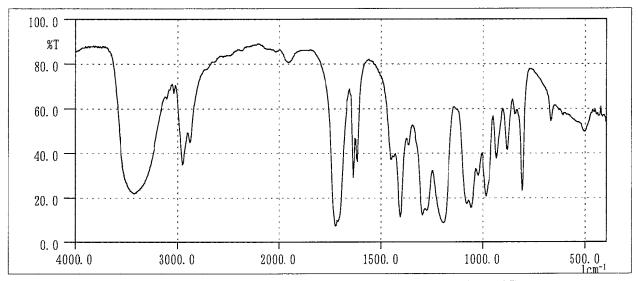
: Shimadzu FTIR-8200PC Infrared Spectrometer

Cell

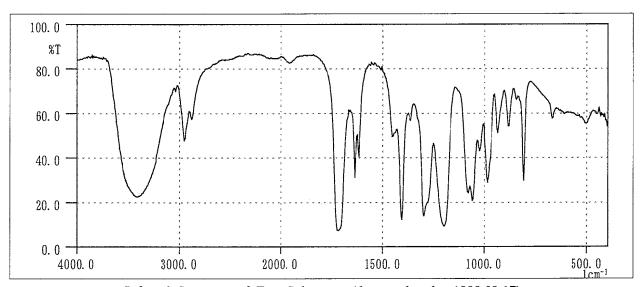
: KBr Liquid Cell

Resolution

: 2 cm⁻¹



Infrared Spectrum of Test Substance (date analyzed: 1997.11.05)



Infrared Spectrum of Test Substance (date analyzed: 1999.09.17)

Results: The results of infrared spectrum did not change before and after the period.

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ × 30 m)

Column Temperature : 180 ° C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

)

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1997.11.05	1	2.595	0.855
	2	3.287	96.295
	3	7.321	2.794
	4	19.812	0.056
1999.09.14	1	2.465	0.742
	2	3.114	96.456
	3	6.960	2.748
	4	18.895	0.055

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 4% of total area) analyzed on 1997.11.5 and one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 4% of total area) analyzed on 1999.9.14. No new trace impurity peak in the test substance analyzed on 1999.9.14 was detected.

4. Conclusions: The test substance was stable for about 22 months in a dark place at room temperature.

C. Lot No. : CKQ4839

1. Sample : This lot was used from 1999.9.14 to 1999.12.7. Test substance was stored

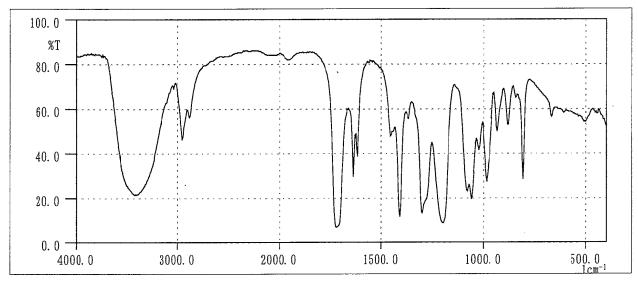
in a dark place at room temperature.

2. Infrared Spectrometry

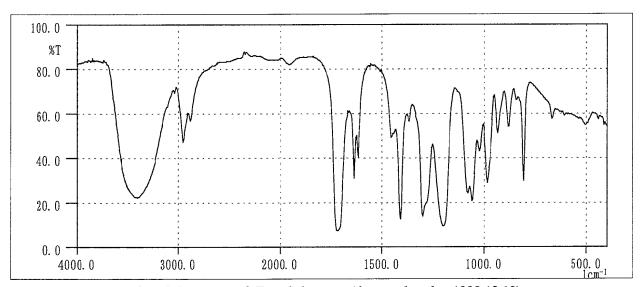
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm⁻¹



Infrared Spectrum of Test Substance (date analyzed: 1999.09.09)



Infrared Spectrum of Test Substance (date analyzed: 1999.12.10)

Results: The results of infrared spectrum did not change before and after the period.

3. Gas Chromatography

Instrument :

: Hewlett Packard 5890A Gas Chromatograph

Column

: FFAP (0.53 mm ϕ × 30 m)

Column Temperature

: 180 °C

Flow Rate

: 3 mL/min

Detector

)

: FID (Flame Ionization Detector)

Injection Volume

: 1 µL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1999.09.13	1	2.659	0.789
	2	3.368	97.556
	3	7.512	1.602
	4	20.444	0.053
1999.12.10	1	2.667	0.787
	2	3.378	97.626
	3	7.538	1.534
	4	20.519	0.054

Results: Gas chromatography indicated one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 3% of total area) analyzed on 1999.9.13 and one major peak (peak No.2) and three impurities (peaks No.1, No.3 and No.4 < 3% of total area) analyzed on 1999.12.10. No new trace impurity peak in the test substance analyzed on 1999.12.10 was detected.

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

APPENDIX Q 3

CONCENTMOUSEION OF 2-HYDROXYETHYL ACRYLATE IN FORMULATED WATER
IN THE 2-YEAR DRINKING WATER STUDY

CONCENTRATION OF 2-HYDROXYETHYL ACRYLATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

(Male)

Target Concentration				
Date Analyzed	750 ^a	1500	3000	
1997.12.01	770 (103) ^b	1530 (102)	2980 (99.3)	
1998.02.02	796 (106)	1590 (106)	3210 (107)	
1998.04.28	741 (98.8)	1510 (101)	2940 (98.0)	
1998.07.21	737 (98.3)	1470 (98.0)	3050 (102)	
1998.10.13	791 (105)	1550 (103)	3050 (102)	
1999.01.05	714 (95.2)	1440 (96.0)	3070 (102)	
1999.03.30	744 (99.2)	1510 (101)	2980 (99.3)	
1999.06.22	778 (104)	1630 (109)	3340 (111)	
1999.09.14	743 (99.1)	1540 (103)	3140 (105)	

^a ppm ^b %

: The samples were analyzed by gas chromatography. Analytical Method

: Hewlett Packard 5890A Gas Chromatograph Instrument

Column : FFAP (0.53 mm ϕ × 30 m)

· Column Temperature : 180 °C Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 µL

CONCENTRATION OF 2-HYDROXYETHYL ACRYLATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

(Female)

Target Concentration				
Date Analyzed	500°	1500	4500	
1997.12.01	510 (102) ^b	1530 (102)	4490 (99.8)	
1998.02.02	517 (103)	1590 (106)	4880 (108)	
1998.04.28	505 (101)	1510 (101)	4630 (103)	
1998.07.21	514 (103)	1470 (98.0)	4630 (103)	
1998.10.13	512 (102)	1550 (103)	4900 (109)	
1999.01.05	518 (104)	1440 (96.0)	4750 (106)	
1999.03.30	505 (101)	1510 (101)	4490 (99.8)	
1999.06.22	545 (109)	1630 (109)	4880 (108)	
1999.09.14	514 (103)	1540 (103)	4630 (103)	

^a ppm ^b %

Analytical Method : The samples were analyzed by gas chromatography.

: Hewlett Packard 5890A Gas Chromatograph Instrument

: FFAP (0.53 mm ϕ × 30 m) Column

Column Temperature : 180 °C Flow Rate : 3 mL/min

: FID (Flame Ionization Detector) Detector

Injection Volume : 1 µL

APPENDIX Q 4

STABILITY OF 2-HYDROXYETHYL ACRYLATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

STABILITY OF 2-HYDROXYETHYL ACRYLATE IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

	Target Concentration		
Date Analyzed	500 ^a	4500	
1997.10.27	503 (100) ^b	4590 (100)	
1997.10.31°	516 (103)	4600 (100)	
1997.11.04°	509 (101)	4770 (104)	
1997.11.07°	517 (103)	4520 (98.5)	
	1997.10.27 1997.10.31° 1997.11.04°	Date Analyzed 500 ^a 1997.10.27 503 (100) ^b 1997.10.31 ^c 516 (103) 1997.11.04 ^c 509 (101)	

a ppm

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ × 30 m)

Column Temperature: 180 °C Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

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

^c Animal room samples

APPENDIX R 1

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR DRINKING WATER STUDY OF 2-HYDROXYETHYL ACRYLATE

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

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)
	(Wright staining)
Biochemistry	
Total protein (TP)	Biuret method ³⁾
Albumin (Alb)	BCG method 3)
A/G ratio	Calculated as Alb/(TP-Alb) 33
T-bilirubin	Alkaline azobilirubin method 3)
Glucose	GlcK·G-6-PDH method 3)
T-cholesterol	CE·COD·POD method 3)
Triglyceride	LPL·GK·GPO·POD method 3)
Phospholipid	PLD·ChOD·POD method 3)
Glutamic oxaloacetic transaminase (GOT)	JSCC method 3)
Glutamic pyruvic transaminase (GPT)	JSCC method 3)
Lactate dehydrogenase (LDH)	SFBC method 3)
Alkaline phosphatase (ALP)	GSCC method 3)
γ -Glutamyl transpeptidase (γ -GTP)	L- γ -Glutamyl-p-nitroanilide method 3
Creatine phosphokinase (CPK)	JSCC method 3)
Urea nitrogen	Urease · GLDH method 37
Sodium	Ion selective electrode method 3)
Potassium	Ion selective electrode method 3)
Chloride	Ion selective electrode method 3)
Calcium	OCPC method 3)
Inorganic phosphorus	PNP·XOD·POD method 3)
Urinalysis	
pH,Protein,Glucose,Ketone body,Occult blood,	Urinalysis reagent paper method 4)
Urobilinogen	

- 1) Automatic blood cell analyzer (Technicon $H \cdot 1$: Bayer Corporation)
- 2) Automatic blood cell differential analyzer (MICROX HEG-120NA: OMRON Corporation)
- 3) Automatic analyzer (Hitachi 7070 : Hitachi,Ltd.)
- 4) Ames reagent strips for urinalysis (Uro-Labstix: Bayer Corporation)

APPENDIX R 2

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

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

Item	Unit	Decimal Place
Hematology		
Red blood cell (RBC)	$\times 10^6/\mu$ L	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 transaminase (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