

アリルクロリドのマウスを用いた
吸入によるがん原性試験報告書

試験番号：0366

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APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	2	3	4	4	5	5	5	5	6	6
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	7	7	8	8	8	10	11	11	12	12	12	12	13	13
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	1	1	2	2	2	2	2
	200ppm	3	3	4	4	4	4	4	4	4	4	5	5	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	1	0	0	0	0
	200ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	200ppm	0	0	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	200ppm	0	2	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	0	0	1	0	0	0	0
	200ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	1	0	0	1	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	13	14	14	18	18	19	19	19	19	20	20	20	21	22
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	100ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	6	6	7	8	8	8	8	8	8	9	10	12	12	12
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	3	4	2	1	1	1	0	1	2	3	5	9	9
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	3	4	2	1	0	0	1	1	1	0	2	2	1

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	2	2	2	2	2	2	2	2	3	3	3	3	3
	50ppm	0	0	0	0	0	0	0	0	0	0	1	2	2	3
	100ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	3
	200ppm	23	24	24	26	26	26	27	27	27	27	27	27	27	27
MORIBUND SACRIFICE	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	50ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	100ppm	2	2	2	2	2	2	2	2	2	3	3	3	3	3
	200ppm	12	13	13	13	15	15	15	15	17	17	17	18	18	18
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	6	5	7	8	7	6	7	7	6	5	6	6	5	5
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	0	1	1	0	1	0	0	1	0	0	1	0	2

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	3	3	3	4	4	4	4	4	4	5	5	5	5	5
	50ppm	3	4	4	4	4	6	6	6	6	6	7	7	8	8
	100ppm	3	3	3	4	4	5	5	5	5	5	5	8	9	9
	200ppm	28	28	28	28	28	28	28	28	28	28	28	28	28	-
MORIBUND SACRIFICE	Control	1	1	1	1	2	2	2	3	3	4	4	4	4	4
	50ppm	2	2	2	2	2	2	2	2	2	2	2	2	4	4
	100ppm	3	3	3	3	3	3	4	5	6	6	6	6	6	6
	200ppm	19	19	19	19	20	20	20	20	20	21	21	21	22	-
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	1	0	0	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	3	3	3	3	2	2	2	2	2	1	1	1	-	-
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	0	0	0	0	0	0	0	0	-	-

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
DEATH	Control	6	7	7	8	8	9
	50ppm	8	8	8	8	9	10
	100ppm	9	9	9	9	11	11
	200ppm	-	-	-	-	-	-
MORIBUND SACRIFICE	Control	4	4	5	5	5	6
	50ppm	4	4	5	5	5	5
	100ppm	6	6	6	6	6	6
	200ppm	-	-	-	-	-	-
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
ATAXIC GAIT	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	1	0	0
	200ppm	-	-	-	-	-	-
PARALYTIC GAIT	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
WASTING	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
SOILED	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	1	0	0
	200ppm	-	-	-	-	-	-

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	2	2	1	2	1	2	1	1	1	1	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	1	2	2	2	1	1	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	1	2	2	2	3	3	2

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILOERECTION	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	200ppm	0	2	1	0	1	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	1	3	3	2	3	1	1	1	0	1	0	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	1	2	1	0	0	0	0	0	0	0	2	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	2	1	1	1	0	0
	200ppm	2	2	2	0	0	0	0	0	1	0	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	100ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	2	2	2	2	2	2	2	2	3	3	3	2	1

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	0	0	1	0	0	0	0	1	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	0	0	0	1	1	1	1	1	1	0	0
	200ppm	0	0	3	1	1	0	1	2	0	1	2	1	1	2
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	2	2	2	2	2	2	2
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	4	4	4
	50ppm	1	1	2	2	2	2	2	2	3	3	2	2	3	3
	100ppm	0	0	0	0	0	0	0	0	1	3	2	2	1	1
	200ppm	1	1	1	1	1	1	1	2	2	1	2	2	2	2

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
PILORECTION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	1	0	0	0	0	0	0	0	0	0	0	-	-
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
FROG BELLY	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	50ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	1	1	-	-
SOILED PERI GENITALIA	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	2	2	0	0	0	0	0	0	0	0	0	0
	100ppm	0	1	1	0	0	0	1	0	0	3	1	1	0	0
	200ppm	1	2	0	0	0	0	0	1	1	0	0	0	-	-
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	100ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
INTERNAL MASS	Control	5	5	5	5	5	4	4	5	4	4	5	5	6	6
	50ppm	3	3	4	4	4	3	3	3	4	4	3	3	2	2
	100ppm	1	1	1	1	1	2	2	1	1	2	2	1	1	1
	200ppm	2	2	2	2	1	1	1	1	1	1	1	1	-	-

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
PILOERECTOR	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
TRAUMA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
FROG BELLY	Control	0	0	1	0	0	0
	50ppm	0	0	0	1	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	50ppm	0	0	0	1	0	0
	100ppm	0	0	0	2	1	1
	200ppm	-	-	-	-	-	-
EXOPHTHALMOS	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	2	1	1	1	1	1
	200ppm	-	-	-	-	-	-
GUM	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
CORNEAL OPACITY	Control	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	100ppm	2	1	1	1	1	1
	200ppm	-	-	-	-	-	-
INTERNAL MASS	Control	5	5	6	4	4	5
	50ppm	2	1	3	3	3	2
	100ppm	1	2	2	2	3	3
	200ppm	-	-	-	-	-	-

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	1	1	1	1	1	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	3
	100ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	1	1	1	1	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
M. GENITALIA	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	50ppm	3	3	3	3	3	2	2	2	2	2	1	0	0	1
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
M. TAIL	Control	2	2	2	2	2	2	2	2	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1
	200ppm	-	-	-	-	-	-
M. EYE	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	1	1	1	1	1	2
	200ppm	-	-	-	-	-	-
M. BREAST	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
M. ABDOMEN	Control	1	1	1	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
M. HINDLIMB	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
M. GENITALIA	Control	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	100ppm	1	2	2	2	2	3
	200ppm	-	-	-	-	-	-
M. TAIL	Control	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
ANEMIA	Control	0	0	1	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	1	2	1	1	1	1	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
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CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	0	0	0	0	3	1	0	0	0	0	1	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	2	1	1	1	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200ppm	0	0	1	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	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	0	0	0	0	0	1	1	0	3	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	0	0	0	0	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	1	2	2	2	2	2	1
	200ppm	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	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	0	0	0	0	0	0	1	0	0	0	1	0	0
BRADYPNEA	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EROSION	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	2	1	1
	100ppm	1	2	2	1	1	1	1	0	0	1	3	2	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
CRUSTA	Control	1	1	1	1	1	1	1	1	1	2	2	2	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
IRREGULAR BREATHING	Control	1	1	1	1	1	1	1	2	1	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	1	1	-	-
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-
SUBNORMAL TEMP	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	-	-

STUDY NO. : 0366
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CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
EROSION	Control	1	1	1	1	1	0
	50ppm	1	2	1	1	1	1
	100ppm	1	2	2	2	1	1
	200ppm	-	-	-	-	-	-
CRUSTA	Control	1	1	3	3	3	3
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
TORTICOLLIS	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
BRADYPNEA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
DEEP BREATHING	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-
SUBNORMAL TEMP	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	-	-	-	-	-	-

APPENDIX A 2

CLINICAL OBSERVATION : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	1	1	1	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	0	0	1	1	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	2	2	3	3	3	3	3	3	3	4	4	4	4	4
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	50ppm	0	0	0	0	0	2	2	5	6	6	6	6	6	6
	100ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	4	4	4	4	4	4	5	6	6	6	7	7	7	7
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	100ppm	0	0	0	0	0	0	0	0	0	1	1	2	2	2
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	2	2	1	1	2	3	7	4	4	7	24	26
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	0	0	1	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	2	2	3	3	3	4	4	4	4	4	5	5	5
	50ppm	6	6	6	6	6	6	6	6	6	6	7	7	7	7
	100ppm	2	2	3	3	3	3	4	5	5	6	6	6	7	8
	200ppm	7	8	8	8	8	8	8	8	8	8	8	8	8	8
MORIBUND SACRIFICE	Control	1	1	1	1	2	2	2	2	2	2	2	2	3	4
	50ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	100ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	200ppm	1	1	1	1	1	1	1	2	3	4	4	5	6	6
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	50ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	200ppm	24	24	26	31	31	31	35	35	37	37	36	36	34	29
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	5	5	5	5	5	5	6	7	7	7	7	7	7	7
	50ppm	7	9	9	9	9	9	10	10	10	10	13	13	14	14
	100ppm	8	8	10	10	10	10	11	11	11	11	11	11	11	11
	200ppm	8	8	8	8	8	8	8	9	9	10	13	18	19	19
MORIBUND SACRIFICE	Control	4	5	5	5	8	8	8	8	9	9	10	10	10	10
	50ppm	3	3	3	3	3	3	4	4	4	4	5	6	7	7
	100ppm	4	4	5	5	5	5	5	6	6	6	6	6	7	8
	200ppm	6	7	7	7	8	8	11	12	12	13	14	15	17	18
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	2	0	0	0	1	0	1	0	0	0
	50ppm	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	100ppm	1	0	0	0	0	0	0	1	0	0	0	0	1	1
	200ppm	0	1	0	0	0	0	1	1	0	1	0	0	2	1
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	200ppm	36	35	35	35	34	34	33	30	29	27	23	17	16	14
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	1	0	0	0	0	0	0	0	1	0	0	0	0
WASTING	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0	2	0	0	1	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
DEATH	Control	7	7	9	9	10	12
	50ppm	15	15	15	15	16	17
	100ppm	12	12	12	12	14	14
	200ppm	19	20	21	21	21	22
MORIBUND SACRIFICE	Control	10	10	11	11	11	11
	50ppm	7	7	7	7	7	7
	100ppm	9	9	9	9	10	10
	200ppm	18	19	19	22	22	22
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	2	1	1
	200ppm	13	11	10	7	7	6
PARALYTIC GAIT	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	2	1	1	1	1	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	100ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	0
	50ppm	0	0	0	1	2	1	1	1	1	1	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	1	2	0
	50ppm	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	1	0	1	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	1	0	0	0	0	0	1	0	1	0
	50ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	100ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	1	1	1	1	1	1	1	1	0	1	1	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	2	2	2	2	2	2	2	2	2	2	3	2	2
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	2	1	1	1	1	2	3	2	5	4	1	0	0
PILOERECTION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	100ppm	1	1	0	0	0	0	0	1	0	0	0	0	1	1
	200ppm	0	1	1	1	0	0	0	1	0	1	2	0	1	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
FROG BELLY	Control	1	1	0	1	0	1	0	0	0	0	1	0	0	0
	50ppm	0	0	0	0	0	1	1	0	0	0	1	0	1	0
	100ppm	1	1	0	0	0	1	0	0	0	0	0	0	1	1
	200ppm	0	1	1	1	1	2	1	0	0	0	0	1	1	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	0	2	2	2	3	5	7	8	9	7	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	200ppm	2	2	2	4	4	4	4	4	4	4	5	5	4	3
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	1	1	0	1	0
PILOERECTION	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	1	1	1	0	0	0
FROG BELLY	Control	0	0	0	0	1	0
	50ppm	0	0	0	1	0	0
	100ppm	0	0	0	1	0	0
	200ppm	1	1	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	1	1	1	1	1	0
	200ppm	3	3	3	2	2	1
GUM	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	0	0	0	0	1
	50ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	3
	100ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	2	2	2	3	3	3	3	3	1
	50ppm	3	4	4	4	4	3	3	2	2	2	1	1	1	1
	100ppm	0	0	1	1	1	1	2	2	2	1	1	2	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	1	1	1	1	1	3	3	2	2	2	2	2	2	2
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	1	2	1	1
INTERNAL MASS	Control	1	1	1	1	1	0	1	1	1	1	1	1	2	2
	50ppm	1	1	1	1	2	1	1	1	1	1	0	1	1	1
	100ppm	1	1	0	2	1	3	3	2	2	2	2	2	2	2
	200ppm	1	1	1	1	1	1	1	1	0	0	2	2	1	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	2	2	2	2	2	1	1	1	1	1	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	2	2	2	2	2	2	2	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
INTERNAL MASS	Control	3	3	2	3	3	2	1	1	2	1	1	0	2	4
	50ppm	2	1	2	2	4	4	5	4	4	4	3	2	3	2
	100ppm	2	1	0	0	1	1	2	2	1	0	0	1	3	3
	200ppm	3	3	3	3	3	4	4	4	4	4	4	4	4	3
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	2	2	2	2	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	1	1	1	1	1	1	1	1	1	1	1	3	3	2
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	100ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0
	50ppm	1	1	1	1	0	0
	100ppm	0	0	0	0	0	0
	200ppm	3	3	3	2	2	1
INTERNAL MASS	Control	4	5	2	3	3	2
	50ppm	2	2	2	2	1	1
	100ppm	2	3	3	3	2	2
	200ppm	3	1	0	0	0	1
M. EYE	Control	0	0	0	0	0	0
	50ppm	1	1	1	1	0	0
	100ppm	1	1	1	1	1	1
	200ppm	3	3	3	2	2	1
M. HEAD	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	50ppm	0	1	2	2	2	2
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	100ppm	0	0	0	0	1	1
	200ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	1	1
	50ppm	0	0	0	0	0	0
	100ppm	0	0	1	1	0	0
	200ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ANIMAL : MOUSE Crj:BDF1
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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	1	1	1	1	1	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	1	1	1	1	1	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	1	1	1	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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CLINICAL OBSERVATION (SUMMARY)
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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	1	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	1	1	1	0	0	0
CRUSTA	Control	0	0	0	1	1	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 4

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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BAIS 4

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	200ppm	0	0	0	0	0	0	1	0	0	1	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	1	0	0	0	0	0	0	1	1	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	200ppm	0	0	0	0	0	0	2	2	1	1	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	1	1	1	0	0	0	1	0	1	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	100ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0	1	0	0	2	1	0	1	0
BRADYPNEA	Control	0	0	0	0	1	0	0	0	1	0	1	0	0	0
	50ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	100ppm	1	0	0	0	0	0	0	1	0	0	0	0	1	0
	200ppm	0	1	0	0	0	0	1	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	1	0	0	2	0	0	0	1	0	1	0	0	0
	50ppm	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	100ppm	0	0	0	0	0	0	0	1	0	0	0	0	1	1
	200ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1

(HAN190)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	1	1
	50ppm	0	0	0	0	0	0
	100ppm	0	0	2	2	0	0
	200ppm	1	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

APPENDIX B 1

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	22.6± 0.9	23.9± 1.1	24.9± 1.3	25.6± 1.2	26.2± 1.5	26.6± 1.4	27.3± 1.6
50ppm	22.6± 0.9	23.7± 0.8	24.8± 1.1	25.1± 1.0*	25.5± 1.1*	25.8± 1.2*	26.5± 1.3*
100ppm	22.6± 0.9	23.9± 1.0	24.8± 1.1	25.4± 1.3	26.2± 1.4	26.4± 1.5	27.0± 1.6
200ppm	22.6± 0.9	23.8± 1.0	24.9± 1.0	26.0± 1.1	26.6± 1.2	27.0± 1.4	27.6± 1.4

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week					
	7	8	9	10	11	12
Control	27.9± 1.6	28.5± 1.8	29.1± 1.9	29.8± 2.1	30.4± 2.2	31.1± 2.5
50ppm	26.9± 1.4**	27.4± 1.5**	28.0± 1.6**	28.5± 1.8**	29.1± 1.9**	29.6± 2.0**
100ppm	27.3± 1.5	27.9± 1.9	28.4± 1.9	29.0± 2.0	29.8± 2.1	30.0± 2.4*
200ppm	27.2± 1.4	28.0± 1.4	28.7± 1.5	29.5± 1.8	30.2± 2.0	30.6± 2.1

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	31.7± 2.5	33.4± 2.9	35.2± 3.1	36.6± 3.5	38.1± 3.9	39.3± 4.2	40.3± 4.3
50ppm	30.6± 2.2	33.0± 2.6	34.7± 2.8	36.3± 3.3	37.9± 3.8	39.4± 3.7	40.6± 4.0
100ppm	30.9± 2.6	32.5± 2.9	34.1± 3.3	35.1± 3.7	36.8± 3.5	38.3± 3.9	39.1± 4.3
200ppm	31.4± 2.4	33.0± 3.4	34.8± 4.3	35.8± 4.9	38.2± 5.5	38.7± 6.0	39.6± 6.1

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week	42	46	50	54	58	62	66
Control		41.3± 4.6	42.3± 4.8	42.6± 5.9	43.6± 5.5	44.1± 5.7	43.9± 5.4	44.2± 5.6
50ppm		41.4± 4.1	42.6± 4.4	43.4± 4.5	43.9± 4.8	44.4± 4.9	44.0± 5.2	44.4± 5.4
100ppm		39.6± 5.1	40.8± 5.5	41.9± 5.7	42.8± 4.8	43.6± 5.0	43.1± 5.1	43.3± 5.6
200ppm		40.3± 5.7	40.5± 5.9	41.1± 5.9	40.9± 5.8	39.8± 6.4**	40.5± 6.1	39.5± 6.5**

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	45.2± 5.9	45.6± 6.6	46.5± 6.4	46.2± 7.1	46.2± 7.6	46.0± 8.1	45.5± 7.5
50ppm	45.2± 5.5	45.9± 5.9	45.8± 6.7	46.5± 6.5	46.6± 6.5	45.7± 6.7	44.1± 6.6
100ppm	45.1± 5.7	45.2± 5.9	44.9± 6.0	45.2± 6.3	46.1± 6.7	45.0± 6.2	43.4± 6.2
200ppm	38.5± 6.2**	37.2± 5.7**	35.5± 5.2**	34.8± 3.4**	32.4± 2.2**	31.3 ?	35.8 ?

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

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week		
	98	102	104
Control	44.3± 7.7	43.9± 7.3	44.3± 7.6
50ppm	43.6± 6.7	43.7± 7.6	42.9± 6.7
100ppm	42.7± 6.2	41.5± 6.1	40.7± 5.9
200ppm	-	-	-

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

Test of Dunnett

(HAN280)

BAIS 4

APPENDIX B 2

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	19.1± 0.8	19.8± 0.7	20.8± 0.9	21.2± 0.8	22.0± 1.1	22.3± 1.0	23.0± 1.0
50ppm	19.1± 0.8	19.5± 0.7	20.7± 0.8	21.0± 0.9	21.7± 0.9	21.9± 0.8*	22.9± 1.1
100ppm	19.1± 0.8	19.7± 0.8	20.8± 0.7	21.1± 0.8	21.9± 0.8	22.2± 0.8	23.0± 0.9
200ppm	19.1± 0.8	19.7± 0.9	20.8± 1.0	21.8± 1.0**	22.2± 1.1	22.5± 1.1	22.9± 1.2

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week					
	7	8	9	10	11	12
Control	23.4± 0.8	23.9± 1.1	24.0± 1.0	24.1± 1.0	24.7± 1.1	24.6± 1.2
50ppm	23.3± 1.0	23.7± 1.0	23.6± 0.9	23.9± 1.2	24.3± 1.0	24.8± 1.3
100ppm	23.3± 1.0	23.4± 0.8*	23.6± 0.9*	23.9± 0.9	24.3± 0.8	24.3± 0.9
200ppm	23.0± 1.1	24.0± 1.1	23.9± 1.1	24.1± 1.0	24.2± 1.2	24.6± 1.2

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	25.2± 1.3	26.2± 1.5	26.9± 1.8	27.7± 1.6	28.4± 2.3	28.6± 2.2	29.2± 2.6
50ppm	25.0± 1.1	25.9± 1.2	26.6± 1.3	26.7± 1.1*	27.3± 1.6	27.8± 1.6	28.0± 1.6*
100ppm	25.0± 1.1	25.4± 1.1*	26.3± 1.4	26.3± 1.2**	26.7± 1.4**	27.4± 1.8**	27.4± 1.5**
200ppm	25.3± 1.4	25.1± 1.3**	26.6± 1.5	27.0± 1.6	27.4± 1.8	27.5± 1.6*	27.9± 1.4*

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration week							
	42	46	50	54	58	62	66	
Control	29.6± 2.4	29.8± 2.6	30.7± 3.0	30.3± 2.5	31.2± 2.9	31.5± 2.8	31.3± 3.2	
50ppm	28.3± 1.6*	28.3± 1.4*	28.8± 1.7**	29.4± 2.1	30.0± 3.1	30.1± 4.2**	30.2± 3.9	
100ppm	27.5± 1.9**	28.3± 1.9**	28.4± 2.3**	28.7± 2.6**	28.9± 1.5**	28.6± 1.7**	29.0± 1.8**	
200ppm	27.8± 1.5**	28.4± 1.6*	28.4± 1.8**	28.5± 1.6**	28.0± 1.7**	27.9± 2.1**	28.8± 2.8**	

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

Test of Dunnett

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	31.6± 3.2	32.4± 3.1	32.6± 2.9	32.2± 3.0	33.9± 5.5	33.3± 3.6	32.9± 3.1
50ppm	30.5± 3.4	30.6± 3.3**	30.9± 2.9*	30.6± 3.0*	31.1± 2.7*	32.0± 3.9	31.1± 2.3*
100ppm	29.3± 1.8**	29.5± 1.8**	29.6± 2.2**	29.8± 2.2**	30.5± 2.9**	30.1± 3.0**	29.9± 2.6**
200ppm	28.2± 1.7**	28.8± 2.0**	28.8± 2.0**	28.4± 1.6**	28.1± 1.9**	29.4± 3.2**	28.9± 2.6**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 12

Group Name	Administration week		
	98	102	104
Control	32.9± 2.7	32.8± 3.0	33.2± 2.6
50ppm	31.4± 2.7	32.0± 4.2	31.6± 3.2
100ppm	30.4± 3.4**	30.3± 3.8**	31.1± 2.9*
200ppm	30.3± 4.0*	28.2± 1.0**	28.8± 1.0**

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

APPENDIX C 1

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	4.1± 0.3	4.1± 0.3	4.2± 0.3	4.4± 0.3	4.4± 0.3	4.4± 0.3	4.5± 0.3
50ppm	4.1± 0.3	4.1± 0.3	4.1± 0.2	4.3± 0.2	4.3± 0.3	4.4± 0.3	4.4± 0.3
100ppm	4.0± 0.3	4.0± 0.3	4.1± 0.2	4.3± 0.2	4.4± 0.3	4.4± 0.2	4.3± 0.3**
200ppm	4.0± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3	4.5± 0.3*	4.5± 0.3	4.2± 0.3**

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

Test of Dunnett

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	4.5± 0.3	4.6± 0.3	4.6± 0.3	4.7± 0.3	4.8± 0.3	4.6± 0.3	4.7± 0.3
50ppm	4.5± 0.3	4.6± 0.3	4.5± 0.3	4.6± 0.3	4.7± 0.3	4.5± 0.3	4.7± 0.3
100ppm	4.5± 0.3	4.4± 0.3*	4.5± 0.2*	4.5± 0.3	4.5± 0.3**	4.5± 0.2*	4.6± 0.2
200ppm	4.7± 0.3*	4.6± 0.4	4.8± 0.4	4.8± 0.4	4.8± 0.3	4.7± 0.3	4.8± 0.3

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	4.7± 0.3	4.9± 0.3	4.7± 0.3	4.8± 0.3	4.8± 0.3	5.0± 0.4	5.1± 0.3
50ppm	4.8± 0.3	4.8± 0.3	4.8± 0.3	4.8± 0.3	4.8± 0.3	5.1± 0.3	5.1± 0.3
100ppm	4.7± 0.3	4.7± 0.3*	4.6± 0.3	4.8± 0.2	4.8± 0.3	4.9± 0.3	4.9± 0.4
200ppm	4.9± 0.4*	5.0± 0.5	4.8± 0.5	5.0± 0.5*	4.9± 0.5	5.0± 0.6	5.1± 0.5

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	5.1± 0.3	5.0± 0.9	5.1± 0.4	5.1± 0.4	4.9± 0.4	5.2± 0.4	5.1± 0.4
50ppm	5.1± 0.3	5.2± 0.3	5.1± 0.4	5.2± 0.4	5.0± 0.4	5.3± 0.4	5.1± 0.4
100ppm	5.0± 0.4	5.0± 0.4	5.0± 0.3	5.1± 0.4	4.9± 0.4	5.1± 0.4	5.1± 0.4
200ppm	5.0± 0.4	5.0± 0.4	4.9± 0.4*	4.8± 0.6**	4.9± 0.4	4.9± 0.4*	4.5± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	5.1± 0.6	5.2± 0.4	4.9± 0.6	5.0± 0.4	5.0± 0.4	4.8± 0.5	4.9± 0.5
50ppm	5.2± 0.4	5.0± 0.7	5.0± 0.4	5.0± 0.5	4.9± 0.5	4.7± 0.4	4.9± 0.5
100ppm	5.0± 0.5	4.9± 0.4*	4.9± 0.4	4.9± 0.4	4.8± 0.4	4.5± 0.6*	4.8± 0.4
200ppm	4.6± 0.5**	4.1± 0.6**	4.4± 0.5	4.5± 0.2	4.2 ?	4.8 ?	-

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

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week	
	102	104
Control	4.8± 0.5	4.9± 0.7
50ppm	4.7± 0.4	4.8± 0.5
100ppm	4.6± 0.5	4.6± 0.5*
200ppm	-	-

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

Test of Dunnett

APPENDIX C 2

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	3.5± 0.3	3.6± 0.3	3.7± 0.2	4.0± 0.3	4.1± 0.3	4.2± 0.3	4.3± 0.2
50ppm	3.5± 0.2	3.6± 0.3	3.8± 0.3	4.0± 0.3	4.2± 0.3	4.4± 0.3*	4.5± 0.3**
100ppm	3.5± 0.2	3.7± 0.2	3.8± 0.2	4.1± 0.3	4.3± 0.3*	4.4± 0.2*	4.4± 0.3
200ppm	3.5± 0.3	3.7± 0.3	3.9± 0.2*	4.0± 0.3	4.2± 0.3	4.1± 0.3	4.0± 0.3**

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	4.4± 0.3	4.4± 0.3	4.3± 0.3	4.4± 0.3	4.5± 0.3	4.4± 0.3	4.5± 0.3
50ppm	4.5± 0.4	4.5± 0.6	4.5± 0.4	4.6± 0.7*	4.6± 0.6	4.5± 0.3	4.7± 0.5
100ppm	4.5± 0.3	4.4± 0.3	4.4± 0.3	4.4± 0.2	4.4± 0.3	4.4± 0.3	4.6± 0.3
200ppm	4.5± 0.3	4.3± 0.2	4.4± 0.3	4.3± 0.2	4.3± 0.3*	4.3± 0.2	4.5± 0.3

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

Test of Dunnett

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	4.6± 0.3	4.6± 0.4	4.4± 0.3	4.5± 0.4	4.7± 0.4	4.7± 0.5	4.8± 0.5
50ppm	4.6± 0.3	4.7± 0.3	4.4± 0.4	4.4± 0.4	4.7± 0.4	4.7± 0.4	4.7± 0.4
100ppm	4.5± 0.3	4.6± 0.3	4.5± 0.3	4.5± 0.4	4.7± 0.5	4.6± 0.4	4.5± 0.5*
200ppm	4.4± 0.3**	4.5± 0.4	4.6± 0.4	4.3± 0.4	4.5± 0.3	4.5± 0.5	4.6± 0.3*

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

Test of Dunnett

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	4.7± 0.3	4.6± 0.5	4.5± 0.4	4.7± 0.4	4.6± 0.4	4.8± 0.5	4.6± 0.5
50ppm	4.6± 0.4	4.5± 0.3	4.6± 0.4	4.7± 0.4	4.4± 0.4	4.7± 0.4	4.6± 0.5
100ppm	4.7± 0.4	4.4± 0.4	4.5± 0.3	4.6± 0.3	4.2± 0.3**	4.6± 0.3	4.5± 0.3
200ppm	4.7± 0.4	4.4± 0.5	4.4± 0.4	4.4± 0.4**	4.2± 0.5**	4.5± 0.4**	4.3± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	4.7± 0.5	4.6± 0.5	4.3± 0.6	4.5± 0.6	4.5± 0.7	4.5± 0.5	4.7± 0.6
50ppm	4.5± 0.5	4.5± 0.4	4.4± 0.5	4.4± 0.5	4.6± 0.6	4.4± 0.5	4.6± 0.6
100ppm	4.5± 0.4	4.4± 0.5	4.3± 0.5	4.3± 0.6	4.3± 0.5	4.4± 0.5	4.5± 0.6
200ppm	4.4± 0.3*	4.5± 0.5	4.2± 0.4	4.2± 0.3**	4.2± 0.4*	4.3± 0.3	4.4± 0.3

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week	
	102	104
Control	4.5± 0.6	4.7± 0.5
50ppm	4.4± 0.8	4.4± 0.7
100ppm	4.3± 0.6	4.4± 0.5
200ppm	4.3± 0.3	4.4± 0.2

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

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX D 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0366

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	31	9.59±	0.82	14.1±	0.9	43.7±	2.9	45.7±	1.8	14.7±	0.6	32.2±	0.7	1838±	475
50ppm	33	9.28±	1.40	13.7±	1.8	42.8±	5.3	46.4±	2.6	14.8±	0.7	32.0±	0.8	1914±	466
100ppm	32	9.34±	1.08	13.6±	1.4	42.5±	3.8	45.7±	2.3	14.6±	0.6	31.9±	0.7	1958±	338
200ppm	0	-		-		-		-		-		-		-	

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	31	4.20±	7.74	3±	2	28±	12	1±	1	0±	0	4±	2	61±	16	3±	13
50ppm	33	3.03±	1.32	3±	3	27±	11	2±	2	0±	0	4±	2	64±	13	0±	1
100ppm	32	3.09±	1.72	4±	6	27±	10	2±	1	0±	0	5±	2	62±	14	0±	1
200ppm	0	-		-		-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

APPENDIX D 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	27	9.43±	0.80	14.0±	1.1	43.1±	3.0	45.8±	2.1	14.8±	0.6	32.4±	0.9	1153±	274
50ppm	22	9.19±	1.38	13.7±	1.8	42.1±	5.0	46.2±	2.5	15.0±	0.9	32.5±	1.4	1125±	381
100ppm	23	9.22±	1.06	13.9±	0.9	43.1±	2.8	47.2±	3.7	15.2±	1.2	32.3±	0.6	1124±	405
200ppm	6	8.90±	0.44	13.3±	0.8	41.4±	2.7	46.5±	1.1	14.9±	0.3	32.0±	0.2	1172±	406

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	27	2.09±	1.34	2±	3	29±	16	1±	2	0±	0	5±	2	58±	18	4±	8
50ppm	22	5.90±	18.22	3±	4	26±	10	1±	1	0±	0	4±	2	60±	13	6±	13
100ppm	23	3.34±	6.72	3±	4	30±	13	2±	3	0±	0	5±	3	54±	18	6±	16
200ppm	6	1.84±	1.16	4±	3	30±	10	2±	2	0±	0	4±	1	57±	9	4±	7

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

APPENDIX E 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	34	5.1±	0.7	2.9±	0.4	1.3±	0.2	0.16±	0.04	176±	46	105±	69	35±	16
50ppm	33	5.1±	0.6	2.9±	0.4	1.3±	0.2	0.15±	0.04	179±	46	101±	41	32±	16
100ppm	33	4.9±	0.6	2.8±	0.4	1.4±	0.2	0.15±	0.02	173±	37	96±	35	32±	11
200ppm	0	-		-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		GOT I U / l		GPT I U / l		LDH I U / l		ALP I U / l		G-GTP I U / l		CPK I U / l	
Control	34	194±	92	113±	154	62±	80	596±	1081	136±	37	2±	1	79±	91
50ppm	33	189±	71	58±	21	31±	24	318±	137	122±	41	2±	1	50±	47**
100ppm	33	182±	56	70±	56	40±	48	362±	231	117±	65**	1±	1	46±	43**
200ppm	0	-		-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0366

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	34	26.9±	15.7	153±	2	4.4±	0.5	122±	3	8.7±	0.5	6.6±	0.8
50ppm	33	26.9±	16.6	153±	2	4.3±	0.4	121±	3	8.8±	0.5	6.6±	1.3
100ppm	33	24.8±	12.0	153±	3	4.3±	0.6	122±	4	8.7±	0.5	6.4±	1.1
200ppm	0	-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX E 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g /dl		ALBUMIN g /dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	27	5.2±	0.5	3.0±	0.2	1.4±	0.2	0.16±	0.05	134±	26	76±	24	33±	19
50ppm	25	4.9±	0.3	2.9±	0.2	1.5±	0.2	0.16±	0.05	138±	44	71±	18	38±	48
100ppm	25	5.0±	0.4	3.0±	0.2	1.5±	0.2	0.17±	0.05	149±	27	66±	18	21±	9*
200ppm	6	4.5±	0.4**	2.8±	0.2	1.7±	0.3	0.16±	0.03	130±	25	66±	9	17±	8*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		GOT IU/l		GPT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CPK IU/l	
Control	27	154±	44	101±	47	39±	13	536±	822	207±	105	2±	2	86±	65
50ppm	25	138±	30	134±	156	42±	36	758±	1125	211±	142	2±	1	83±	66
100ppm	25	131±	31	93±	62	34±	32**	639±	798	207±	68	1±	1	75±	51
200ppm	6	131±	11	71±	14	21±	2**	226±	50	197±	36	2±	1	40±	6*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0366

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	27	17.1±	4.3	152±	2	4.0±	0.3	122±	2	8.9±	0.4	6.4±	1.2
50ppm	25	22.5±	14.7	151±	2	4.3±	1.0	122±	3	8.9±	0.3	6.1±	1.0
100ppm	25	19.2±	4.7	152±	2	4.2±	0.3	122±	3	8.8±	0.3	5.9±	0.8
200ppm	6	22.2±	3.2**	154±	3	4.2±	0.3	123±	2	8.7±	0.2	6.9±	0.9

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

Test of Dunnett

(HCL074)

BAIS 4

APPENDIX F 1

URINALYSIS : SUMMARY, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0366

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	
Control	35	0	3	6	9	11	5	1		0	15	18	1	1	0		35	0	0	0	0	0		21	11	3	0	0	0		32	1	1	0	1	
50ppm	34	0	2	7	12	7	5	1		1	16	15	2	0	0		34	0	0	0	0	0		27	4	3	0	0	0		30	1	1	1	1	
100ppm	32	0	1	9	18	4	0	0	*	0	13	17	2	0	0		32	0	0	0	0	0		13	15	4	0	0	0		28	0	1	1	2	
200ppm	0	—	—	—	—	—	—	—		—	—	—	—	—	—		—	—	—	—	—	—		—	—	—	—	—	—		—	—	—	—		

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0366

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
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Control	35	35 0 0 0 0
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50ppm	34	34 0 0 0 0
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100ppm	32	32 0 0 0 0
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200ppm	0	- - - - -
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Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 4

APPENDIX F 2

URINALYSIS : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 MEASURE TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	
Control	28	0	0	0	4	7	14	3		0	6	20	2	0	0		28	0	0	0	0	0		8	19	1	0	0	0		27	0	0	0	1	
50ppm	26	0	0	2	3	6	15	0		0	11	13	1	1	0		26	0	0	0	0	0		9	17	0	0	0	0		22	1	1	0	2	
100ppm	25	0	0	2	2	4	16	1		0	12	8	5	0	0	*	25	0	0	0	0	0		9	14	2	0	0	0		20	2	0	1	2	
200ppm	6	0	0	0	2	0	4	0		0	0	4	2	0	0		6	0	0	0	0	0		2	4	0	0	0	0		6	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0366

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
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Control	28	28 0 0 0 0
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50ppm	26	26 0 0 0 0
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100ppm	25	25 0 0 0 0
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200ppm	6	6 0 0 0 0
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Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 4

APPENDIX G 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE

ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		0	(0)	0	(0)	1	(2)	0	(0)
	ulcer		0	(0)	0	(0)	0	(0)	1	(2)
	erosion		0	(0)	1	(2)	4	(8)	6	(12)
	thick		0	(0)	0	(0)	4	(8)	21	(42)
	induration		0	(0)	0	(0)	0	(0)	1	(2)
	scab		1	(2)	0	(0)	2	(4)	1	(2)
subcutis	edema		1	(2)	0	(0)	0	(0)	0	(0)
	dry		0	(0)	0	(0)	0	(0)	1	(2)
	mass		1	(2)	2	(4)	3	(6)	2	(4)
	hard		0	(0)	0	(0)	0	(0)	1	(2)
lung	turbid		0	(0)	0	(0)	0	(0)	1	(2)
	red patch		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		5	(10)	14	(28)	9	(18)	1	(2)
lymph node	enlarged		7	(14)	7	(14)	6	(12)	1	(2)
	yellow		0	(0)	0	(0)	0	(0)	1	(2)
thymus	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
spleen	enlarged		2	(4)	2	(4)	1	(2)	0	(0)
	pale		0	(0)	1	(2)	0	(0)	0	(0)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	black zone		3	(6)	0	(0)	1	(2)	0	(0)
	nodule		4	(8)	3	(6)	1	(2)	0	(0)
	deformed		0	(0)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control				50ppm				100ppm				200ppm			
			50	(%)	50	(%)	50	(%)	50	(%)	50	(%)	50	(%)	50	(%)	50	(%)
spleen	accentuation of white pulp		0	(0)	1	(2)	1	(2)	1	(2)	0	(0)						
heart	white zone		1	(2)	0	(0)	0	(0)	0	(0)	0	(0)						
	cyst		1	(2)	0	(0)	0	(0)	0	(0)	0	(0)						
	hypertrophy		0	(0)	0	(0)	0	(0)	0	(0)	1	(2)						
forestomach	nodule		0	(0)	0	(0)	1	(2)	1	(2)	1	(2)						
	ulcer		0	(0)	1	(2)	0	(0)	0	(0)	0	(0)						
stomach	nodule		0	(0)	0	(0)	1	(2)	1	(2)	0	(0)						
liver	enlarged		1	(2)	1	(2)	1	(2)	1	(2)	0	(0)						
	atrophic		0	(0)	1	(2)	0	(0)	0	(0)	0	(0)						
	white zone		3	(6)	3	(6)	2	(4)	2	(4)	0	(0)						
	red zone		0	(0)	3	(6)	1	(2)	1	(2)	0	(0)						
	nodule		10	(20)	13	(26)	12	(24)	12	(24)	3	(6)						
	cyst		2	(4)	0	(0)	0	(0)	0	(0)	0	(0)						
	deformed		1	(2)	0	(0)	0	(0)	0	(0)	0	(0)						
pancreas	nodule		0	(0)	1	(2)	0	(0)	0	(0)	0	(0)						
kidney	atrophic		1	(2)	0	(0)	0	(0)	0	(0)	0	(0)						
	white zone		1	(2)	0	(0)	1	(2)	1	(2)	0	(0)						
	nodule		1	(2)	0	(0)	1	(2)	1	(2)	0	(0)						
	hydronephrosis		3	(6)	2	(4)	1	(2)	1	(2)	3	(6)						
urin bladd	nodule		0	(0)	1	(2)	0	(0)	0	(0)	0	(0)						
	thick		0	(0)	0	(0)	1	(2)	1	(2)	1	(2)						
	urine:marked retention		2	(4)	2	(4)	8	(16)	8	(16)	42	(84)						

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
pituitary	enlarged		0	(0)	1	(2)	0	(0)	0	(0)
testis	atrophic		1	(2)	0	(0)	1	(2)	0	(0)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
epididymis	nodule		0	(0)	0	(0)	1	(2)	0	(0)
semin ves	red zone		1	(2)	0	(0)	0	(0)	0	(0)
prep/cli gl	enlarged		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		5	(10)	3	(6)	9	(18)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	1	(2)	0	(0)
eye	white		0	(0)	1	(2)	1	(2)	0	(0)
Harder gl	enlarged		0	(0)	1	(2)	3	(6)	4	(8)
	nodule		2	(4)	3	(6)	7	(14)	5	(10)
mediastinum	mass		1	(2)	1	(2)	0	(0)	0	(0)
retroperit	mass		0	(0)	0	(0)	1	(2)	0	(0)
abdominal c	ascites		2	(4)	3	(6)	0	(0)	1	(2)
thoracic ca	pleural fluid		3	(6)	3	(6)	1	(2)	1	(2)
other	tail:nodule		2	(4)	0	(0)	1	(2)	0	(0)
	lower jaw:nodule		0	(0)	0	(0)	1	(2)	0	(0)

APPENDIX G 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	50ppm	100ppm	200ppm
			15 (%)	15 (%)	17 (%)	50 (%)
skin/app	ulcer		0 (0)	0 (0)	0 (0)	1 (2)
	erosion		0 (0)	0 (0)	3 (18)	6 (12)
	thick		0 (0)	0 (0)	3 (18)	21 (42)
	induration		0 (0)	0 (0)	0 (0)	1 (2)
	scab		0 (0)	0 (0)	1 (6)	1 (2)
subcutis	edema		1 (7)	0 (0)	0 (0)	0 (0)
	dry		0 (0)	0 (0)	0 (0)	1 (2)
	mass		1 (7)	2 (13)	3 (18)	2 (4)
	hard		0 (0)	0 (0)	0 (0)	1 (2)
lung	turbid		0 (0)	0 (0)	0 (0)	1 (2)
	red patch		1 (7)	0 (0)	0 (0)	0 (0)
	nodule		2 (13)	4 (27)	3 (18)	1 (2)
lymph node	enlarged		3 (20)	4 (27)	4 (24)	1 (2)
	yellow		0 (0)	0 (0)	0 (0)	1 (2)
spleen	enlarged		1 (7)	2 (13)	1 (6)	0 (0)
	pale		0 (0)	1 (7)	0 (0)	0 (0)
	red zone		0 (0)	1 (7)	0 (0)	0 (0)
	black zone		1 (7)	0 (0)	0 (0)	0 (0)
	nodule		3 (20)	1 (7)	0 (0)	0 (0)
	deformed		0 (0)	1 (7)	0 (0)	0 (0)
heart	white zone		1 (7)	0 (0)	0 (0)	0 (0)
	cyst		1 (7)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	50ppm	100ppm	200ppm
			15 (%)	15 (%)	17 (%)	50 (%)
heart	hypertrophy		0 (0)	0 (0)	0 (0)	1 (2)
forestomach	nodule		0 (0)	0 (0)	1 (6)	1 (2)
liver	enlarged		1 (7)	1 (7)	1 (6)	0 (0)
	white zone		2 (13)	1 (7)	2 (12)	0 (0)
	red zone		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (7)	5 (33)	5 (29)	3 (6)
	cyst		1 (7)	0 (0)	0 (0)	0 (0)
	deformed		1 (7)	0 (0)	0 (0)	0 (0)
kidney	atrophic		1 (7)	0 (0)	0 (0)	0 (0)
	white zone		1 (7)	0 (0)	0 (0)	0 (0)
	nodule		1 (7)	0 (0)	0 (0)	0 (0)
	hydronephrosis		2 (13)	1 (7)	1 (6)	3 (6)
urin bladd	nodule		0 (0)	1 (7)	0 (0)	0 (0)
	thick		0 (0)	0 (0)	1 (6)	1 (2)
	urine:marked retention		2 (13)	2 (13)	8 (47)	42 (84)
pituitary	enlarged		0 (0)	1 (7)	0 (0)	0 (0)
testis	atrophic		1 (7)	0 (0)	1 (6)	0 (0)
	nodule		1 (7)	0 (0)	0 (0)	0 (0)
semin ves	red zone		1 (7)	0 (0)	0 (0)	0 (0)
prep/cli gl	enlarged		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (7)	1 (7)	0 (0)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	1 (6)	0 (0)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			15	(%)	15	(%)	17	(%)	50	(%)
Harder gl	enlarged		0	(0)	0	(0)	1	(6)	4	(8)
	nodule		0	(0)	1	(7)	1	(6)	5	(10)
mediastinum	mass		1	(7)	1	(7)	0	(0)	0	(0)
retroperit	mass		0	(0)	0	(0)	1	(6)	0	(0)
abdominal c	ascites		2	(13)	2	(13)	0	(0)	1	(2)
thoracic ca	pleural fluid		3	(20)	3	(20)	1	(6)	1	(2)
other	tail:nodule		1	(7)	0	(0)	1	(6)	0	(0)
	lower jaw:nodule		0	(0)	0	(0)	1	(6)	0	(0)

(HPT080)

BAIS 4

APPENDIX G 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			35	(%)	35	(%)	33	(%)	0	(%)
skin/app	nodule		0	(0)	0	(0)	1	(3)	-	(-)
	erosion		0	(0)	1	(3)	1	(3)	-	(-)
	thick		0	(0)	0	(0)	1	(3)	-	(-)
	scab		1	(3)	0	(0)	1	(3)	-	(-)
lung	nodule		3	(9)	10	(29)	6	(18)	-	(-)
lymph node	enlarged		4	(11)	3	(9)	2	(6)	-	(-)
thymus	enlarged		1	(3)	0	(0)	0	(0)	-	(-)
spleen	enlarged		1	(3)	0	(0)	0	(0)	-	(-)
	black zone		2	(6)	0	(0)	1	(3)	-	(-)
	nodule		1	(3)	2	(6)	1	(3)	-	(-)
	accentuation of white pulp		0	(0)	1	(3)	1	(3)	-	(-)
forestomach	ulcer		0	(0)	1	(3)	0	(0)	-	(-)
stomach	nodule		0	(0)	0	(0)	1	(3)	-	(-)
liver	atrophic		0	(0)	1	(3)	0	(0)	-	(-)
	white zone		1	(3)	2	(6)	0	(0)	-	(-)
	red zone		0	(0)	2	(6)	1	(3)	-	(-)
	nodule		9	(26)	8	(23)	7	(21)	-	(-)
	cyst		1	(3)	0	(0)	0	(0)	-	(-)
pancreas	nodule		0	(0)	1	(3)	0	(0)	-	(-)
kidney	white zone		0	(0)	0	(0)	1	(3)	-	(-)
	nodule		0	(0)	0	(0)	1	(3)	-	(-)
	hydronephrosis		1	(3)	1	(3)	0	(0)	-	(-)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			35	(%)	35	(%)	33	(%)	0	(%)
epididymis	nodule		0	(0)	0	(0)	1	(3)	-	(-)
prep/cli gl	nodule		4	(11)	2	(6)	9	(27)	-	(-)
eye	white		0	(0)	1	(3)	1	(3)	-	(-)
Harder gl	enlarged		0	(0)	1	(3)	2	(6)	-	(-)
	nodule		2	(6)	2	(6)	6	(18)	-	(-)
abdominal c	ascites		0	(0)	1	(3)	0	(0)	-	(-)
other	tail:nodule		1	(3)	0	(0)	0	(0)	-	(-)

(HPT080)

BAIS 4

APPENDIX G 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			50	(%)	50	(%)	49	(%)	50	(%)
skin/app	edema		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	0	(0)	2	(4)	0	(0)
	thick		0	(0)	0	(0)	0	(0)	2	(4)
	scab		1	(2)	1	(2)	0	(0)	0	(0)
subcutis	edema		2	(4)	7	(14)	3	(6)	4	(8)
	mass		3	(6)	2	(4)	2	(4)	2	(4)
lung	red		0	(0)	3	(6)	1	(2)	1	(2)
	red zone		0	(0)	0	(0)	2	(4)	0	(0)
	hemorrhage		1	(2)	0	(0)	0	(0)	0	(0)
	edema		1	(2)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	5	(10)	6	(12)	2	(4)
lymph node	enlarged		13	(26)	12	(24)	11	(22)	13	(26)
thymus	enlarged		2	(4)	0	(0)	1	(2)	1	(2)
spleen	enlarged		10	(20)	9	(18)	9	(18)	3	(6)
	white		0	(0)	0	(0)	1	(2)	0	(0)
	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	2	(4)
	deformed		0	(0)	1	(2)	0	(0)	0	(0)
	accentuation of white pulp		2	(4)	0	(0)	0	(0)	0	(0)
forestomach	nodule		0	(0)	0	(0)	0	(0)	1	(2)
gl stomach	nodule		0	(0)	0	(0)	0	(0)	1	(2)
small intes	nodule		0	(0)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control	50ppm	100ppm	200ppm
			50 (%)	50 (%)	49 (%)	50 (%)
liver	enlarged		4 (8)	3 (6)	3 (6)	4 (8)
	pale		1 (2)	1 (2)	0 (0)	0 (0)
	yellow		0 (0)	0 (0)	0 (0)	1 (2)
	white zone		4 (8)	2 (4)	4 (8)	3 (6)
	red zone		0 (0)	0 (0)	1 (2)	1 (2)
	nodule		8 (16)	9 (18)	5 (10)	5 (10)
	cyst		1 (2)	0 (0)	0 (0)	1 (2)
	deformed		0 (0)	0 (0)	1 (2)	0 (0)
	rough		0 (0)	2 (4)	1 (2)	0 (0)
	adhesion		0 (0)	0 (0)	1 (2)	0 (0)
pancreas	nodule		1 (2)	0 (0)	0 (0)	0 (0)
kidney	enlarged		2 (4)	0 (0)	1 (2)	2 (4)
	white		0 (0)	0 (0)	0 (0)	1 (2)
	white zone		1 (2)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (2)
	hydronephrosis		0 (0)	1 (2)	1 (2)	2 (4)
urin bladd	urine:marked retention		2 (4)	0 (0)	2 (4)	24 (48)
pituitary	enlarged		3 (6)	3 (6)	2 (4)	0 (0)
	nodule		2 (4)	1 (2)	0 (0)	1 (2)
adrenal	enlarged		1 (2)	0 (0)	0 (0)	0 (0)
ovary	enlarged		6 (12)	2 (4)	6 (12)	5 (10)
	cyst		11 (22)	8 (16)	12 (24)	6 (12)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			50	(%)	50	(%)	49	(%)	50	(%)
uterus	enlarged		1	(2)	1	(2)	0	(0)	0	(0)
	nodule		11	(22)	11	(22)	11	(22)	8	(16)
brain	hemorrhage		1	(2)	0	(0)	1	(2)	0	(0)
spinal cord	hemorrhage		1	(2)	0	(0)	0	(0)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	1	(2)	0	(0)
Harder gl	enlarged		0	(0)	2	(4)	1	(2)	5	(10)
	nodule		0	(0)	1	(2)	4	(8)	1	(2)
bone	nodule		0	(0)	1	(2)	0	(0)	0	(0)
vertebra	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	mass		0	(0)	1	(2)	0	(0)	0	(0)
mediastinum	mass		4	(8)	1	(2)	3	(6)	5	(10)
peritoneum	nodular		0	(0)	0	(0)	1	(2)	0	(0)
	thick		3	(6)	0	(0)	0	(0)	0	(0)
retroperit	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	mass		0	(0)	0	(0)	0	(0)	2	(4)
abdominal c	hemorrhage		0	(0)	3	(6)	0	(0)	0	(0)
	mass		1	(2)	0	(0)	0	(0)	0	(0)
	adhesion		0	(0)	0	(0)	0	(0)	1	(2)
	thick		0	(0)	1	(2)	0	(0)	1	(2)
	ascites		10	(20)	8	(16)	12	(24)	7	(14)
thoracic ca	hemorrhage		0	(0)	0	(0)	1	(2)	0	(0)
	pleural fluid		11	(22)	6	(12)	11	(22)	10	(20)

APPENDIX G 5

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name	Control	50ppm		100ppm		200ppm	
		NO. of Animals	23 (%)	24	(%)	24	(%)	44	(%)
skin/app	edema		0 (0)	0 (0)	1 (4)	0 (0)			
	nodule		0 (0)	0 (0)	2 (8)	0 (0)			
	thick		0 (0)	0 (0)	0 (0)	2 (5)			
	scab		1 (4)	1 (4)	0 (0)	0 (0)			
subcutis	edema		2 (9)	7 (29)	3 (13)	4 (9)			
	mass		2 (9)	0 (0)	0 (0)	2 (5)			
lung	red		0 (0)	3 (13)	1 (4)	1 (2)			
	red zone		0 (0)	0 (0)	2 (8)	0 (0)			
	hemorrhage		1 (4)	0 (0)	0 (0)	0 (0)			
	edema		1 (4)	0 (0)	0 (0)	1 (2)			
	nodule		0 (0)	3 (13)	2 (8)	1 (2)			
lymph node	enlarged		12 (52)	8 (33)	8 (33)	12 (27)			
thymus	enlarged		0 (0)	0 (0)	1 (4)	1 (2)			
spleen	enlarged		10 (43)	7 (29)	7 (29)	3 (7)			
	white		0 (0)	0 (0)	1 (4)	0 (0)			
	white zone		0 (0)	1 (4)	0 (0)	0 (0)			
	nodule		0 (0)	0 (0)	0 (0)	1 (2)			
	deformed		0 (0)	1 (4)	0 (0)	0 (0)			
forestomach	nodule		0 (0)	0 (0)	0 (0)	1 (2)			
gl stomach	nodule		0 (0)	0 (0)	0 (0)	1 (2)			
small intes	nodule		0 (0)	1 (4)	0 (0)	0 (0)			
liver	enlarged		4 (17)	3 (13)	3 (13)	4 (9)			

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			23	(%)	24	(%)	24	(%)	44	(%)
liver	pale		1	(4)	1	(4)	0	(0)	0	(0)
	yellow		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		4	(17)	1	(4)	4	(17)	3	(7)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		4	(17)	4	(17)	1	(4)	3	(7)
	cyst		0	(0)	0	(0)	0	(0)	1	(2)
	deformed		0	(0)	0	(0)	1	(4)	0	(0)
	rough		0	(0)	2	(8)	0	(0)	0	(0)
	adhesion		0	(0)	0	(0)	1	(4)	0	(0)
pancreas	nodule		1	(4)	0	(0)	0	(0)	0	(0)
kidney	enlarged		2	(9)	0	(0)	1	(4)	2	(5)
	white		0	(0)	0	(0)	0	(0)	1	(2)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	hydronephrosis		0	(0)	1	(4)	1	(4)	2	(5)
urin bladd	urine:marked retention		2	(9)	0	(0)	2	(8)	22	(50)
pituitary	enlarged		0	(0)	2	(8)	1	(4)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
ovary	enlarged		6	(26)	2	(8)	5	(21)	5	(11)
	cyst		3	(13)	3	(13)	1	(4)	4	(9)
uterus	enlarged		1	(4)	1	(4)	0	(0)	0	(0)
	nodule		7	(30)	6	(25)	7	(29)	7	(16)
brain	hemorrhage		1	(4)	0	(0)	1	(4)	0	(0)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			23	(%)	24	(%)	24	(%)	44	(%)
spinal cord	hemorrhage		1	(4)	0	(0)	0	(0)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	1	(4)	0	(0)
Harder gl	enlarged		0	(0)	2	(8)	0	(0)	4	(9)
	nodule		0	(0)	1	(4)	1	(4)	1	(2)
bone	nodule		0	(0)	1	(4)	0	(0)	0	(0)
vertebra	nodule		0	(0)	1	(4)	0	(0)	0	(0)
	mass		0	(0)	1	(4)	0	(0)	0	(0)
mediastinum	mass		3	(13)	0	(0)	3	(13)	5	(11)
peritoneum	nodular		0	(0)	0	(0)	1	(4)	0	(0)
	thick		3	(13)	0	(0)	0	(0)	0	(0)
retroperit	nodule		1	(4)	0	(0)	0	(0)	0	(0)
	mass		0	(0)	0	(0)	0	(0)	2	(5)
abdominal c	hemorrhage		0	(0)	3	(13)	0	(0)	0	(0)
	mass		1	(4)	0	(0)	0	(0)	0	(0)
	adhesion		0	(0)	0	(0)	0	(0)	1	(2)
	thick		0	(0)	0	(0)	0	(0)	1	(2)
	ascites		8	(35)	4	(17)	9	(38)	7	(16)
thoracic ca	hemorrhage		0	(0)	0	(0)	1	(4)	0	(0)
	pleural fluid		9	(39)	5	(21)	8	(33)	10	(23)

APPENDIX G 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	50ppm	100ppm	200ppm
			27 (%)	26 (%)	25 (%)	6 (%)
subcutis	mass		1 (4)	2 (8)	2 (8)	0 (0)
lung	nodule		1 (4)	2 (8)	4 (16)	1 (17)
lymph node	enlarged		1 (4)	4 (15)	3 (12)	1 (17)
thymus	enlarged		2 (7)	0 (0)	0 (0)	0 (0)
spleen	enlarged		0 (0)	2 (8)	2 (8)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (17)
	accentuation of white pulp		2 (7)	0 (0)	0 (0)	0 (0)
liver	white zone		0 (0)	1 (4)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	1 (4)	0 (0)
	nodule		4 (15)	5 (19)	4 (16)	2 (33)
	cyst		1 (4)	0 (0)	0 (0)	0 (0)
	rough		0 (0)	0 (0)	1 (4)	0 (0)
kidney	white zone		1 (4)	0 (0)	0 (0)	0 (0)
urin bladd	urine:marked retention		0 (0)	0 (0)	0 (0)	2 (33)
pituitary	enlarged		3 (11)	1 (4)	1 (4)	0 (0)
	nodule		2 (7)	1 (4)	0 (0)	0 (0)
adrenal	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
ovary	enlarged		0 (0)	0 (0)	1 (4)	0 (0)
	cyst		8 (30)	5 (19)	11 (44)	2 (33)
uterus	nodule		4 (15)	5 (19)	4 (16)	1 (17)
Harder gl	enlarged		0 (0)	0 (0)	1 (4)	1 (17)
	nodule		0 (0)	0 (0)	3 (12)	0 (0)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		50ppm		100ppm		200ppm	
			27	(%)	26	(%)	25	(%)	6	(%)
mediastinum	mass		1	(4)	1	(4)	0	(0)	0	(0)
abdominal c	thick		0	(0)	1	(4)	0	(0)	0	(0)
	ascites		2	(7)	4	(15)	3	(12)	0	(0)
thoracic ca	pleural fluid		2	(7)	1	(4)	3	(12)	0	(0)

(HPT080)

BAIS 4

APPENDIX H 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	35	40.5± 7.8	0.013±	0.004	0.202±	0.055	0.219±	0.022	0.234±	0.151	0.647±	0.186
50ppm	35	39.0± 7.0	0.012±	0.003	0.178±	0.040	0.211±	0.024	0.271±	0.183	0.700±	0.353
100ppm	33	36.7± 6.2	0.013±	0.004	0.187±	0.052	0.208±	0.021	0.234±	0.110	0.654±	0.061
200ppm	0	-	-	-	-	-	-	-	-	-	-	-

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	35	0.105±	0.192	1.608±	0.491	0.450±	0.017
50ppm	35	0.096±	0.080	1.606±	0.505	0.448±	0.017
100ppm	33	0.095±	0.082	1.521±	0.382	0.450±	0.021
200ppm	0	-		-		-	

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

Test of Dunnett

(HCL040)

BAIS 4

APPENDIX H 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	27	28.8± 2.2	0.019±	0.021	0.047±	0.033	0.174±	0.021	0.202±	0.026	0.445±	0.049
50ppm	26	27.5± 2.5	0.013±	0.003	0.068±	0.125	0.169±	0.026	0.220±	0.042	0.446±	0.048
100ppm	25	26.9± 2.6*	0.013±	0.003	0.080±	0.113	0.160±	0.019*	0.209±	0.023	0.428±	0.038
200ppm	6	24.5± 1.5**	0.011±	0.002	0.051±	0.038	0.149±	0.009**	0.215±	0.036	0.449±	0.034

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	27	0.235±	0.318	1.494±	0.258	0.470±	0.020
50ppm	26	0.171±	0.171	1.451±	0.359	0.469±	0.016
100ppm	25	0.195±	0.294	1.394±	0.356	0.465±	0.013
200ppm	6	0.115±	0.093	1.266±	0.272	0.426±	0.009**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							
(HCL040)							

BAIS 4

APPENDIX I 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	40.5± 7.8	0.032± 0.010	0.512± 0.156	0.557± 0.096	0.610± 0.491	1.649± 0.569
50ppm	35	39.0± 7.0	0.030± 0.007	0.468± 0.130	0.550± 0.074	0.732± 0.583	1.870± 1.211
100ppm	33	36.7± 6.2	0.036± 0.011	0.516± 0.149	0.579± 0.097	0.651± 0.319**	1.815± 0.238**
200ppm	0	-	-	-	-	-	-

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	35	0.288± 0.609	4.132± 1.833	1.150± 0.214
50ppm	35	0.265± 0.258	4.223± 1.538	1.186± 0.213
100ppm	33	0.280± 0.269	4.210± 1.084	1.262± 0.232
200ppm	0	-	-	-

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

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX I 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	27	28.8± 2.2	0.063± 0.065	0.168± 0.130	0.606± 0.063	0.702± 0.091	1.547± 0.146
50ppm	26	27.5± 2.5	0.048± 0.011	0.257± 0.508	0.613± 0.071	0.807± 0.173*	1.627± 0.141
100ppm	25	26.9± 2.6*	0.049± 0.010	0.298± 0.405	0.595± 0.049	0.784± 0.107*	1.595± 0.118
200ppm	6	24.5± 1.5**	0.047± 0.010	0.207± 0.151	0.611± 0.058	0.874± 0.122**	1.830± 0.091**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	27	0.816± 1.109	5.195± 0.866	1.640± 0.133
50ppm	26	0.637± 0.674	5.264± 1.001	1.721± 0.151
100ppm	25	0.711± 1.059	5.142± 0.929	1.744± 0.158
200ppm	6	0.458± 0.356	5.155± 0.997	1.742± 0.077

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

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX J 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	1	0	0	0	4	8	0	0 **	4	28	0	0 **
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(16)	(0)	(0)	(8)	(56)	(0)	(0)
	hyperplasia:epidermis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	scab		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
subcutis			<50>				<50>				<50>				<50>			
	xanthogranuloma		1	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	eosinophilic change:olfactory epithelium		6	0	0	0	17	4	0	0 **	20	2	0	0 **	6	0	0	0
			(12)	(0)	(0)	(0)	(34)	(8)	(0)	(0)	(40)	(4)	(0)	(0)	(12)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		7	1	0	0	11	2	0	0	6	4	0	0	2	1	0	0
			(14)	(2)	(0)	(0)	(22)	(4)	(0)	(0)	(12)	(8)	(0)	(0)	(4)	(2)	(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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	inflammation:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland		3	0	0	0	4	0	0	0	2	1	0	0	2	0	0	0
			(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	xanthogranuloma		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolic change:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
nasopharynx			<50>				<50>				<50>				<50>			
	eosinophilic change		0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
trachea			<50>				<50>				<50>				<50>			
	eosinophilic change		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : 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. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study				Control 50				50ppm 50				100ppm 50				200ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
lung		<50>				<50>				<50>				<50>				<50>			
	edema	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	inflammatory infiltration	2	0	0	0	2	1	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	0	0	0	0	2	1	0	0	4	2	0	0 *	8	4	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(8)	(4)	(0)	(0)	(16)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																					
bone marrow		<50>				<50>				<50>				<50>				<50>			
	increased hematopoiesis	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	granulopoiesis:increased	2	0	0	0	3	0	0	0	8	0	0	0	16	0	0	0	17	0	0	0 **
		(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(34)	(0)	(0)	(0)
lymph node		<50>				<50>				<50>				<50>				<50>			
	lymphadenitis	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			<50>				<50>				<50>				<50>			
	deposit of melanin	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis	5	0	0	0	5	2	0	0	8	1	0	0	23	3	0	0 **	
		(10)	(0)	(0)	(0)	(10)	(4)	(0)	(0)	(16)	(2)	(0)	(0)	(46)	(6)	(0)	(0)	
	follicular hyperplasia	4	3	0	0	4	1	0	0	1	3	0	0	0	0	0	0 *	
		(8)	(6)	(0)	(0)	(8)	(2)	(0)	(0)	(2)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	
[Circulatory system]																		
heart			<50>				<50>				<50>				<50>			
	thrombus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	
	mineralization	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
	arteritis	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study				Control 50				50ppm 50				100ppm 50				200ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
tooth		<50>				<50>				<50>				<50>				<50>			
	dysplasia	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
tongue		<50>				<50>				<50>				<50>				<50>			
	arteritis	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl		<50>				<50>				<50>				<50>				<50>			
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach		<50>				<50>				<50>				<50>				<50>			
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach	0	0	0	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<50>				<50>				<50>				<50>			
	ulcer:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
small intes			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<50>				<50>				<50>				<50>			
	angiectasis		0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(2)	(0)	(0)	(0)
	necrosis:central		0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	1	0	0	0	1	0	0	0	3	2	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(4)	(0)	(0)	
	inflammatory infiltration		0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	
			(0)	(2)	(0)	(0)	(0)	(0)	(2)	(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. : 0386
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 50				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		16	1	0	0	9	2	0	0	14	2	0	0	1	0	0	0 **
			(32)	(2)	(0)	(0)	(18)	(4)	(0)	(0)	(28)	(4)	(0)	(0)	(2)	(0)	(0)	(0)
	proliferation:Ito cell		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas	clear cell focus		0	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(2)	(2)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus		1	2	0	0	2	0	1	0	2	3	0	0	0	0	0	0
			(2)	(4)	(0)	(0)	(4)	(0)	(2)	(0)	(4)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<50>				<50>				<50>				<50>			
	duct ectasia		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
pancreas			<50>				<50>				<50>				<50>			
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	infarct		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic change		1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyaline cast		0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	osseous metaplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	inflammatory polyp		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolization of proximal tubule		36	0	0	0	39	0	0	0	37	0	0	0	32	0	0	0
			(72)	(0)	(0)	(0)	(78)	(0)	(0)	(0)	(74)	(0)	(0)	(0)	(64)	(0)	(0)	(0)
	hydronephrosis		2	0	2	0	0	0	2	0	0	1	0	0	0	0	2	0
			(4)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(4)	(0)
	pyelitis		0	0	0	0	1	0	0	0	0	0	0	0	3	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(2)	(0)	(0)
pyelonephritis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
papillary necrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mineralization:papilla		3	0	0	0	4	0	1	0	1	0	0	0	5	0	0	0	
		(6)	(0)	(0)	(0)	(8)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	
mineralization:pelvis		0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 50				50ppm 50				100ppm 50				200ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	mineralization:cortex	28	0	0	0	35	4	0	0 *	34	2	0	0	21	0	0	0	(56)	(0)	(0)	(0)
		(56)	(0)	(0)	(0)	(70)	(8)	(0)	(0)	(68)	(4)	(0)	(0)	(42)	(0)	(0)	(0)				
		<50>				<50>				<50>				<50>				<50>			
	hyperplasia:tubular epithelium	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	(2)	(0)	(0)	(0)
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
urin bladd																					
		<50>				<50>				<50>				<50>				<50>			
	inflammatory infiltration	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	(0)	(0)	(0)	(0)
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)				
		<50>				<50>				<50>				<50>				<50>			
	papillary hyperplasia:transitional epithelium	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	(0)	(0)	(0)	(0)
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)				
		<50>				<50>				<50>				<50>				<50>			
	xanthogranuloma	1	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	(2)	(0)	(0)	(0)
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)				
urethra																					
		<50>				<50>				<50>				<50>				<50>			
	inflammation	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	(0)	(0)	(0)	(0)
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)				
{Endocrine system}																					
pituitary		<50>				<50>				<50>				<50>				<50>			
	cyst	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	(2)	(0)	(0)	(0)
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	hyperplasia		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		1	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	hyperplasia:cortical cell		<50>				<50>				<50>				<50>			
			0	1	0	0	2	1	0	0	1	2	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:medulla		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	focal fatty change:cortex		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
testis	atrophy		<50>				<50>				<50>				<50>			
			1	1	0	0	3	3	0	0	3	4	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(6)	(6)	(0)	(0)	(6)	(8)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 50				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis	mineralization		<50>				<50>				<50>				<50>			
			7	0	0	0	14	1	0	0	6	0	0	0	9	0	0	0
			(14)	(0)	(0)	(0)	(28)	(2)	(0)	(0)	(12)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
epididymis	inflammatory infiltration		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	spermatogenic granuloma		2	0	0	0	4	0	0	0	2	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
semin ves	hemorrhage		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate	inflammation		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl	duct ectasia		<49>				<49>				<50>				<50>			
			4	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
prep/cli gl			<49>				<49>				<50>				<50>			
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
{Nervous system}																		
brain			<50>				<50>				<50>				<50>			
	mineralization		10	0	0	0	13	0	0	0	6	0	0	0	3	0	0	0
			(20)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<50>				<50>				<50>				<50>			
	squamous cell metaplasia:cornea		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Harder gl			<50>				<50>				<50>				<50>			
	degeneration		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	hyperplasia		0	0	0	0	3	0	0	0	3	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 50				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Body cavities}																		
peritoneum	inflammation		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

APPENDIX J 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<15>				<15>				<17>				<50>			
	inflammation		0	0	0	0	0	0	0	0	3	6	0	0 **	4	28	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(18)	(35)	(0)	(0)	(8)	(56)	(0)	(0)
	hyperplasia:epidermis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis			<15>				<15>				<17>				<50>			
	xanthogranuloma		1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<15>				<15>				<17>				<50>			
	eosinophilic change:olfactory epithelium		2	0	0	0	5	2	0	0	4	0	0	0	6	0	0	0
			(13)	(0)	(0)	(0)	(33)	(13)	(0)	(0)	(24)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		3	1	0	0	4	0	0	0	1	0	0	0	2	1	0	0
			(20)	(7)	(0)	(0)	(27)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	inflammation:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<15>				<15>				<17>				<50>			
	respiratory metaplasia:gland		2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
			<15>				<15>				<17>				<50>			
	vacuolic change:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
nasopharynx			<15>				<15>				<17>				<50>			
	eosinophilic change		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<15>				<15>				<17>				<50>			
	edema		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
			<15>				<15>				<17>				<50>			
	inflammatory infiltration		2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
			(13)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
			<15>				<15>				<17>				<50>			
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<15>				<15>				<17>				<50>			
	increased hematopoiesis		0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<15>				<15>				<17>				<50>			
	granulopoiesis:increased		0	0	0	0	2	0	0	0	5	0	0	0	17	0	0	0 *
			(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(34)	(0)	(0)	(0)
lymph node			<15>				<15>				<17>				<50>			
	lymphadenitis		0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(2)	(0)	(0)	(0)
spleen			<15>				<15>				<17>				<50>			
	deposit of melanin		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	extramedullary hematopoiesis		4	0	0	0	3	1	0	0	7	1	0	0	23	3	0	0
			(27)	(0)	(0)	(0)	(20)	(7)	(0)	(0)	(41)	(6)	(0)	(0)	(46)	(6)	(0)	(0)
	follicular hyperplasia		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Circulatory system}																		
heart			<15>				<15>				<17>				<50>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<15>				<15>				<17>				<50>			
	mineralization		1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
		arteritis		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Digestive system}																		
tooth			<15>				<15>				<17>				<50>			
	dysplasia		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		arteritis		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
tongue			<15>				<15>				<17>				<50>			
	arteritis		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		arteritis		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
stomach			<15>				<15>				<17>				<50>			
	arteritis		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		ulcer:forestomach		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 15				50ppm 15				100ppm 17				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<15>				<15>				<17>				<50>			
	ulcer:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
small intes			<15>				<15>				<17>				<50>			
	inflammation		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<15>				<15>				<17>				<50>			
	angiectasis		0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(2)	(0)	(0)	(0)
	necrosis:central		0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(7)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	1	0	0	0	1	0	0	0	3	2	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(4)	(0)	(0)
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Digestive system}																		
liver			<15>				<15>				<17>				<50>			
	basophilic cell focus		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<15>				<15>				<17>				<50>			
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<15>				<15>				<17>				<50>			
	infarct		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic change		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<15>				<15>				<17>				<50>			
	deposit of hemosiderin		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hyaline cast		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolization of proximal tubule		4	0	0	0	6	0	0	0	6	0	0	0	32	0	0	0 *
			(27)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(35)	(0)	(0)	(0)	(64)	(0)	(0)	(0)
	hydronephrosis		2	0	1	0	0	0	1	0	0	1	0	0	0	0	2	0 *
			(13)	(0)	(7)	(0)	(0)	(0)	(7)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(4)	(0)
pyelitis		0	0	0	0	1	0	0	0	0	0	0	0	3	1	0	0	
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	
pyelonephritis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
mineralization:papilla		3	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	
		(20)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	
mineralization:pelvis		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	mineralization:cortex		<15>				<15>				<17>				<50>			
		5	0	0	0	9	1	0	0	7	0	0	0	21	0	0	0	
		(33)	(0)	(0)	(0)	(60)	(7)	(0)	(0)	(41)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	
urin bladd	inflammatory infiltration		<15>				<15>				<17>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	
	papillary hyperplasia:transitional epithelium		<15>				<15>				<17>				<50>			
0		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	xanthogranuloma		<15>				<15>				<17>				<50>			
		0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	
	urethra	inflammation		<15>				<15>				<17>				<50>		
0			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	
{Endocrine system}																		
adrenal	hyperplasia:medulla		<15>				<15>				<17>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)		

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis			<15>				<15>				<17>				<50>			
	atrophy		0 (0)	1 (7)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization		4 (27)	0 (0)	0 (0)	0 (0)	5 (33)	0 (0)	0 (0)	0 (0)	4 (24)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)
epididymis			<15>				<15>				<17>				<50>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	spermatogenic granuloma		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
semin ves			<15>				<15>				<17>				<50>			
	hemorrhage		1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
prostate			<15>				<15>				<17>				<50>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
prep/cli gl			<15>				<15>				<17>				<50>			
	duct ectasia		1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ_____	Findings_____	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	15				15				17				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
prep/cli gl			<15>				<15>				<17>				<50>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Nervous system}																		
brain			<15>				<15>				<17>				<50>			
	mineralization		1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
			(7)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
{Special sense organs/appendage}																		
Harder gl			<15>				<15>				<17>				<50>			
	degeneration		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Body cavities}																		
peritoneum			<15>				<15>				<17>				<50>			
	inflammation		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

APPENDIX J 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app	inflammation		<35>				<35>				<33>				< 0>			
			0	0	0	0	1	0	0	0	1	2	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(6)	(0)	(0)	(-)	(-)	(-)	(-)
	scab		1	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
subcutis	xanthogranuloma		<35>				<35>				<33>				< 0>			
			0	0	0	0	1	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Respiratory system}																		
nasal cavit	eosinophilic change:olfactory epithelium		<35>				<35>				<33>				< 0>			
			4	0	0	0	12	2	0	0 *	16	2	0	0 **	-	-	-	-
			(11)	(0)	(0)	(0)	(34)	(6)	(0)	(0)	(48)	(6)	(0)	(0)	(-)	(-)	(-)	(-)
	eosinophilic change:respiratory epithelium		4	0	0	0	7	2	0	0	5	4	0	0	-	-	-	-
			(11)	(0)	(0)	(0)	(20)	(6)	(0)	(0)	(15)	(12)	(0)	(0)	(-)	(-)	(-)	(-)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit	respiratory metaplasia:gland		<35>				<35>				<33>				< 0>			
			1	0	0	0	4	0	0	0	2	1	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(6)	(3)	(0)	(0)	(-)	(-)	(-)	(-)
	xanthogranuloma		0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
nasopharynx	eosinophilic change		<35>				<35>				<33>				< 0>			
			0	0	0	0	3	0	0	0	0	1	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(-)	(-)	(-)	(-)
trachea	eosinophilic change		<35>				<35>				<33>				< 0>			
			0	1	0	0	0	0	0	0	0	0	0	0	-	-	-	-
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
lung	inflammatory infiltration		<35>				<35>				<33>				< 0>			
			0	0	0	0	1	1	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	lymphocytic infiltration		0	0	0	0	0	0	0	0	0	1	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(-)	(-)	(-)	(-)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	2	1	0	0	2	1	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(6)	(3)	(0)	(0)	(6)	(3)	(0)	(0)	(-)	(-)	(-)	(-)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	35				35				33				0			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<35>				<35>				<33>				< 0>			
	increased hematopoiesis		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	granulopoiesis:increased		2	0	0	0	1	0	0	0	3	0	0	0	-	-	-	-
			(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
spleen			<35>				<35>				<33>				< 0>			
	deposit of melanin		2	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	extramedullary hematopoiesis		1	0	0	0	2	1	0	0	1	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(6)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	follicular hyperplasia		4	3	0	0	3	0	0	0	1	3	0	0	-	-	-	-
			(11)	(9)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(9)	(0)	(0)	(-)	(-)	(-)	(-)
{Circulatory system}																		
heart			<35>				<35>				<33>				< 0>			
	thrombus		1	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

		Group Name	Control				50ppm				100ppm				200ppm				
		No. of Animals on Study	35				35				33				0				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Circulatory system}																			
heart			<35>				<35>				<33>				< 0>				
	mineralization		1	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	
	arteritis		1	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-	
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	
{Digestive system}																			
tooth			<35>				<35>				<33>				< 0>				
	dysplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
tongue			<35>				<35>				<33>				< 0>				
	arteritis		0	0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
salivary gl			<35>				<35>				<33>				< 0>				
	lymphocytic infiltration		0	0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
stomach			<35>				<35>				<33>				< 0>				
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach	<35>																	
	erosion:glandular stomach		0	0	0	0	2	0	0	0	4	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	<35>																	
	squamous cell hyperplasia:forestomach		0	0	0	0	0	1	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
liver	<35>																	
	inflammatory infiltration		0	0	0	0	0	0	1	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	<35>																	
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	<33>																	
	granulation		16	1	0	0	9	2	0	0	14	2	0	0	-	-	-	-
			(46)	(3)	(0)	(0)	(26)	(6)	(0)	(0)	(42)	(6)	(0)	(0)	(-)	(-)	(-)	(-)
	<0>																	
	proliferation:Ito cell		0	0	0	0	0	1	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	<0>																	
	clear cell focus		0	1	0	0	1	1	1	0	1	0	0	0	-	-	-	-
			(0)	(3)	(0)	(0)	(3)	(3)	(3)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	<0>																	
	acidophilic cell focus		0	0	0	0	0	0	0	0	0	1	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	35				35				33				0			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<35>				<35>				<33>				< 0>			
	basophilic cell focus		1	1	0	0	2	0	1	0	1	3	0	0	-	-	-	-
			(3)	(3)	(0)	(0)	(6)	(0)	(3)	(0)	(3)	(9)	(0)	(0)	(-)	(-)	(-)	(-)
	biliary cyst		1	0	0	0	1	0	0	0	1	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
pancreas			<35>				<35>				<33>				< 0>			
	duct ectasia		0	0	0	0	0	1	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Urinary system}																		
kidney			<35>				<35>				<33>				< 0>			
	basophilic change		1	0	0	0	0	1	0	0	0	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	hyaline cast		0	1	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	osseous metaplasia		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<35>				<35>				<33>				< 0>			
	inflammatory polyp		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	vacuolization of proximal tubule		32 (91)	0 (0)	0 (0)	0 (0)	33 (94)	0 (0)	0 (0)	0 (0)	31 (94)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	hydronephrosis		0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	papillary necrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)
	mineralization:cortex		23 (66)	0 (0)	0 (0)	0 (0)	26 (74)	3 (9)	0 (0)	0 (0)	27 (82)	2 (6)	0 (0)	0 * (0)	- (-)	- (-)	- (-)	- (-)
	hyperplasia:tubular epithelium		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	- (-)	- (-)	- (-)	- (-)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
urin bladd			<35>				<35>				<33>				< 0>			
	inflammatory infiltration		0	0	0	0	0	1	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	xanthogranuloma		1	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Endocrine system}																		
pituitary			<35>				<35>				<33>				< 0>			
	cyst		1	0	0	0	2	0	0	0	1	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	Rathke pouch		1	0	0	0	3	0	0	0	1	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
adrenal			<35>				<35>				<33>				< 0>			
	hyperplasia:cortical cell		0	1	0	0	2	1	0	0	1	2	0	0	-	-	-	-
			(0)	(3)	(0)	(0)	(6)	(3)	(0)	(0)	(3)	(6)	(0)	(0)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal			<35>				<35>				<33>				< 0>			
	focal fatty change:cortex		1	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Reproductive system}																		
testis			<35>				<35>				<33>				< 0>			
	atrophy		1	0	0	0	2	3	0	0	3	3	0	0	-	-	-	-
			(3)	(0)	(0)	(0)	(6)	(9)	(0)	(0)	(9)	(9)	(0)	(0)	(-)	(-)	(-)	(-)
	mineralization		3	0	0	0	9	1	0	0	2	0	0	0	-	-	-	-
			(9)	(0)	(0)	(0)	(26)	(3)	(0)	(0)	(6)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
epididymis			<35>				<35>				<33>				< 0>			
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	spermatogenic granuloma		2	0	0	0	3	0	0	0	2	0	0	0	-	-	-	-
			(6)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
prostate			<35>				<35>				<33>				< 0>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 35				50ppm 35				100ppm 33				200ppm 0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
prostate			<35>				<35>				<33>				< 0>			
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
prep/cli gl			<34>				<34>				<33>				< 0>			
	duct ectasia		3	0	0	0	0	0	0	0	7	0	0	0	-	-	-	-
			(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Nervous system}																		
brain			<35>				<35>				<33>				< 0>			
	mineralization		9	0	0	0	12	0	0	0	6	0	0	0	-	-	-	-
			(26)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(-)	(-)	(-)	(-)
{Special sense organs/appendage}																		
eye			<35>				<35>				<33>				< 0>			
	squamous cell metaplasia:cornea		0	0	0	0	0	0	0	0	1	0	0	0	-	-	-	-
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name		Control				50ppm				100ppm				200ppm			
		No. of Animals on Study		35				35				33				0			
		Grade		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	hyperplasia	<35>				<35>				<33>				< 0>			
		0	0	0	0	3	0	0	0	2	0	0	0	-	-	-	-
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

(HPT150)

BAIS4

APPENDIX J 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<49>				<50>			
	inflammation		0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0
			(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<49>				<50>			
	eosinophilic change:olfactory epithelium		15	3	0	0	24	5	0	0	8	6	0	0	3	1	0	0 **
			(30)	(6)	(0)	(0)	(48)	(10)	(0)	(0)	(16)	(12)	(0)	(0)	(6)	(2)	(0)	(0)
	eosinophilic change:respiratory epithelium		20	12	4	0	24	17	3	0	16	24	2	0	17	7	1	0
			(40)	(24)	(8)	(0)	(48)	(34)	(6)	(0)	(33)	(49)	(4)	(0)	(34)	(14)	(2)	(0)
	inflammation:respiratory epithelium		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		5	1	0	0	1	0	0	0	4	0	0	0	1	0	0	0
			(10)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	respiratory metaplasia:gland		9	1	1	0	9	3	0	0	11	3	0	0	3	0	0	0
			(18)	(2)	(2)	(0)	(18)	(6)	(0)	(0)	(22)	(6)	(0)	(0)	(6)	(0)	(0)	(0)
nasopharynx			<50>				<50>				<49>				<50>			
	eosinophilic change		6	2	0	0	14	1	0	0	10	5	0	0	6	2	0	0
			(12)	(4)	(0)	(0)	(28)	(2)	(0)	(0)	(20)	(10)	(0)	(0)	(12)	(4)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<50>				<50>				<49>				<50>			
	congestion		0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	edema		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<50>				<50>				<49>				<50>			
	granulation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				49				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Hematopoietic system}																		
bone marrow			<50>				<50>				<49>				<50>			
	myelofibrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulopoiesis:increased		1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
lymph node			<50>				<50>				<49>				<50>			
	lymphadenitis		0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
spleen			<50>				<50>				<49>				<50>			
	adhesion		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		14	0	0	0	8	1	0	0	11	0	0	0	12	1	0	0
			(28)	(0)	(0)	(0)	(16)	(2)	(0)	(0)	(22)	(0)	(0)	(0)	(24)	(2)	(0)	(0)
	follicular hyperplasia		2	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Circulatory system}																		
heart			<50>				<50>				<49>				<50>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	50				50				49				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<50>				<50>				<49>				<50>			
	mineralization		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	arteritis		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
{Digestive system}																		
tooth			<50>				<50>				<49>				<50>			
	dysplasia		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
salivary gl			<50>				<50>				<49>				<50>			
	lymphocytic infiltration		3	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	
stomach			<50>				<50>				<49>				<50>			
	erosion:glandular stomach		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	ulcer:glandular stomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<50>				<50>				<49>				<50>			
	squamous cell hyperplasia:forestomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<50>				<50>				<49>				<50>			
	angiectasis		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	necrosis:focal		0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	granulation		20	6	0	0	16	7	0	0	16	4	0	0	9	2	0	0 **
			(40)	(12)	(0)	(0)	(32)	(14)	(0)	(0)	(33)	(8)	(0)	(0)	(18)	(4)	(0)	(0)
	clear cell focus		0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<49>				<50>			
	basophilic cell focus		2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	biliary cyst		4	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)	(0)	(0)	(0)	(0)
	intestinal metaplasia:bile duct		1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<50>				<50>				<49>				<49>			
	eosinophilic change		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<50>				<50>				<49>				<50>			
	intestinal metaplasia		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<50>				<50>				<49>				<50>			
	hyaline droplet		3	4	0	0	3	2	0	0	4	3	0	0	3	3	0	0
			(6)	(8)	(0)	(0)	(6)	(4)	(0)	(0)	(8)	(6)	(0)	(0)	(6)	(6)	(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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<50>				<50>				<49>				<50>			
	deposit of amyloid		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyaline cast		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)	1 (2)	0 (0)	0 (0)
	lymphocytic infiltration		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 (0)	0 (0)
	inflammatory polyp		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	hydronephrosis		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	1 (2)	1 (2)	2 (4)	0 (0)
	mineralization:papilla		7 (14)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0* (0)
	mineralization:cortex		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	glomerulosclerosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<50>				<50>				<49>				<49>			
	angiectasis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia		1	0	0	0	2	1	0	0	2	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	Rathke pouch		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
adrenal			<50>				<50>				<48>				<50>			
	focal fatty change:cortex		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<50>				<50>				<48>				<50>			
	thrombus		1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary	cyst		<50>				<50>				<48>				<50>			
			9	0	0	0	6	0	0	0	10	1	0	0	5	0	0	0
			(18)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(21)	(2)	(0)	(0)	(10)	(0)	(0)	(0)
uterus	cystic endometrial hyperplasia		<50>				<50>				<49>				<50>			
			14	1	0	0	11	1	0	0	23	1	0	0	16	0	0	0
			(28)	(2)	(0)	(0)	(22)	(2)	(0)	(0)	(47)	(2)	(0)	(0)	(32)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<50>				<50>				<49>				<50>			
			8	0	0	0	7	0	0	0	2	0	0	0	3	0	0	0
			(16)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	hemorrhage		<50>				<50>				<49>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
Harder gl	hemorrhage		<50>				<50>				<49>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				50ppm 50				100ppm 49				200ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	degeneration	<50>				<50>				<49>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)

{Body cavities}

retroperit	hemorrhage	<50>				<50>				<49>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

(HPT150)

BAIS4

APPENDIX J 5

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 11

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	23				24				24				44			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<23>				<24>				<24>				<44>			
	inflammation		0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0
			(0)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)
{Respiratory system}																		
nasal cavit			<23>				<24>				<24>				<44>			
	eosinophilic change:olfactory epithelium		6	1	0	0	9	2	0	0	2	6	0	0	2	1	0	0 *
			(26)	(4)	(0)	(0)	(38)	(8)	(0)	(0)	(8)	(25)	(0)	(0)	(5)	(2)	(0)	(0)
	eosinophilic change:respiratory epithelium		11	4	1	0	11	8	1	0	4	12	2	0	14	6	1	0
			(48)	(17)	(4)	(0)	(46)	(33)	(4)	(0)	(17)	(50)	(8)	(0)	(32)	(14)	(2)	(0)
	respiratory metaplasia:olfactory epithelium		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	respiratory metaplasia:gland		4	1	0	0	2	2	0	0	4	2	0	0	3	0	0	0
			(17)	(4)	(0)	(0)	(8)	(8)	(0)	(0)	(17)	(8)	(0)	(0)	(7)	(0)	(0)	(0)
nasopharynx			<23>				<24>				<24>				<44>			
	eosinophilic change		3	1	0	0	9	0	0	0	7	3	0	0	5	2	0	0
			(13)	(4)	(0)	(0)	(38)	(0)	(0)	(0)	(29)	(13)	(0)	(0)	(11)	(5)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	23				24				24				44			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<23>				<24>				<24>				<44>			
	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	hemorrhage		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 (0)	1 (2)	0 (0)	0 (0)
	edema		1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)
	bronchiolar-alveolar cell hyperplasia		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 (0)	0 (0)	1 (2)	0 (0)
{Hematopoietic system}																		
bone marrow			<23>				<24>				<24>				<44>			
	increased hematopoiesis		1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	myelofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				50ppm 24				100ppm 24				200ppm 44			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow	granulopoiesis:increased		<23>				<24>				<24>				<44>			
			1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
lymph node	lymphadenitis		<23>				<24>				<24>				<44>			
			0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
spleen	adhesion		<23>				<24>				<24>				<44>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		<23>				<24>				<24>				<44>			
			13	0	0	0	7	1	0	0	10	0	0	0	12	1	0	0
			(57)	(0)	(0)	(0)	(29)	(4)	(0)	(0)	(42)	(0)	(0)	(0)	(27)	(2)	(0)	(0)
(Circulatory system)																		
heart	thrombus		<23>				<24>				<24>				<44>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	23				24				24				44			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<23>				<24>				<24>				<44>			
	arteritis		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Digestive system}																		
salivary gl			<23>				<24>				<24>				<44>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<23>				<24>				<24>				<44>			
	erosion:glandular stomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	ulcer:glandular stomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<23>				<24>				<24>				<44>			
	angiectasis		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm				
		No. of Animals on Study	23				24				24				44				
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Digestive system}																			
liver			<23>				<24>				<24>				<44>				
	necrosis:focal		0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	granulation		2	0	0	0	1	1	0	0	2	0	0	0	5	2	0	0	
			(9)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(8)	(0)	(0)	(0)	(11)	(5)	(0)	(0)	
	acidophilic cell focus		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)		
	basophilic 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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	biliary cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	intestinal metaplasia:bile duct		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

{Urinary system}

kidney		<23>				<24>				<24>				<44>							
	hyaline droplet	2	4	0	0	2	2	0	0	3	3	0	0	3	3	0	0	3	3	0	0
		(9)	(17)	(0)	(0)	(8)	(8)	(0)	(0)	(13)	(13)	(0)	(0)	(7)	(7)	(0)	(0)	(7)	(7)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				50ppm 24				100ppm 24				200ppm 44			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<23>				<24>				<24>				<44>			
	deposit of amyloid		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyaline cast		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	inflammatory polyp		1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
			(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	hydronephrosis		0	1	0	0	0	0	1	0	0	1	1	0	1	1	2	0
			(0)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(4)	(4)	(0)	(2)	(2)	(5)	(0)
	mineralization:papilla		3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(13)	(0)	(0)	(0)	(8)	(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	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	glomerulosclerosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

{Endocrine system}

pituitary			<23>				<24>				<24>				<43>			
	cyst		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				50ppm 24				100ppm 24				200ppm 44			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	hyperplasia		<23>				<24>				<24>				<43>			
			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
adrenal	focal fatty change:cortex		<23>				<24>				<23>				<44>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary	thrombus		<23>				<24>				<24>				<44>			
			1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(2)	(2)	(0)	(0)
	cyst		3	0	0	0	2	0	0	0	1	0	0	0	3	0	0	0
			(13)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
uterus	cystic endometrial hyperplasia		<23>				<24>				<24>				<44>			
			1	1	0	0	0	0	0	0	6	0	0	0	13	0	0	0 *
			(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<23>				<24>				<24>				<44>			
			2	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0
			(9)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

		Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	23				24				24				44			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Special sense organs/appendage}																		
eye			<23>				<24>				<24>				<44>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)
Harder gl			<23>				<24>				<24>				<44>			
	hemorrhage		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
retroperit			<23>				<24>				<24>				<44>			
	hemorrhage		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)

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

APPENDIX J 6

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<27>				<26>				<25>				< 6>			
	eosinophilic change:olfactory epithelium		9	2	0	0	15	3	0	0	6	0	0	0	1	0	0	0
			(33)	(7)	(0)	(0)	(58)	(12)	(0)	(0)	(24)	(0)	(0)	(0)	(17)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		9	8	3	0	13	9	2	0	12	12	0	0 *	3	1	0	0
			(33)	(30)	(11)	(0)	(50)	(35)	(8)	(0)	(48)	(48)	(0)	(0)	(50)	(17)	(0)	(0)
	inflammation:respiratory epithelium		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		4	1	0	0	1	0	0	0	4	0	0	0	0	0	0	0
			(15)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland		5	0	1	0	7	1	0	0	7	1	0	0	0	0	0	0
			(19)	(0)	(4)	(0)	(27)	(4)	(0)	(0)	(28)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx			<27>				<26>				<25>				< 6>			
	eosinophilic change		3	1	0	0	5	1	0	0	3	2	0	0	1	0	0	0
			(11)	(4)	(0)	(0)	(19)	(4)	(0)	(0)	(12)	(8)	(0)	(0)	(17)	(0)	(0)	(0)
lung			<27>				<26>				<25>				< 6>			
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : 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. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<27>				<26>				<25>				< 6>			
	granulation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulopoiesis:increased		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<27>				<26>				<25>				< 6>			
	extramedullary hematopoiesis		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		2	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(16)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth			<27>				<26>				<25>				< 6>			
	dysplasia		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
salivary gl			<27>				<26>				<25>				< 6>			
	lymphocytic infiltration		3	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(11)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<27>				<26>				<25>				< 6>			
	erosion:glandular stomach		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<27>				<26>				<25>				< 6>			
	necrosis:focal		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		18	6	0	0	15	6	0	0	14	4	0	0	4	0	0	0
			(67)	(22)	(0)	(0)	(58)	(23)	(0)	(0)	(56)	(16)	(0)	(0)	(67)	(0)	(0)	(0)
	clear cell focus		0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<27>				<26>				<25>				< 6>			
	basophilic cell focus		2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(17)	(0)	(0)
	biliary cyst		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	intestinal metaplasia:bile duct		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<27>				<26>				<25>				< 6>			
	eosinophilic change		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<27>				<26>				<25>				< 6>			
	intestinal metaplasia		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<27>				<26>				<25>				< 6>			
	hyaline droplet		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<27>				<26>				<25>				< 6>			
	deposit of amyloid		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:papilla		4	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0
			(15)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortex		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<27>				<26>				<25>				< 6>			
	angiectasis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		1	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	Rathke pouch		<27>				<26>				<25>				< 6>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(17)	(0)	(0)	(0)
adrenal	focal fatty change:cortex		<27>				<26>				<25>				< 6>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary	cyst		<27>				<26>				<24>				< 6>			
			6	0	0	0	4	0	0	0	9	1	0	0	2	0	0	0
			(22)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(38)	(4)	(0)	(0)	(33)	(0)	(0)	(0)
uterus	cystic endometrial hyperplasia		<27>				<26>				<25>				< 6>			
			13	0	0	0	11	1	0	0	17	1	0	0	3	0	0	0
			(48)	(0)	(0)	(0)	(42)	(4)	(0)	(0)	(68)	(4)	(0)	(0)	(50)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<27>				<26>				<25>				< 6>			
			6	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
			(22)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				50ppm 26				100ppm 25				200ppm 6			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	hyperplasia	<27>				<26>				<25>				< 6>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

(HPT150)

BAIS4

APPENDIX K 1

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF
TUMORS-TIME RELATED, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Time-related Weeks	Items	Group Name	Control	50ppm	100ppm	200ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	2	16
	NO. OF ANIMALS WITH TUMORS		0	0	1	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	1	0
	NO. OF TOTAL TUMORS		0	0	1	0
53 - 78	NO. OF EXAMINED ANIMALS		2	1	0	26
	NO. OF ANIMALS WITH TUMORS		1	1	0	8
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	0	8
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		1	0	0	7
	NO. OF MALIGNANT TUMORS		2	1	0	1
	NO. OF TOTAL TUMORS		3	1	0	8
79 - 104	NO. OF EXAMINED ANIMALS		12	14	15	8
	NO. OF ANIMALS WITH TUMORS		10	13	9	7
	NO. OF ANIMALS WITH SINGLE TUMORS		7	9	6	7
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	4	3	0
	NO. OF BENIGN TUMORS		3	9	7	6
	NO. OF MALIGNANT TUMORS		11	10	6	1
	NO. OF TOTAL TUMORS		14	19	13	7
105 - 105	NO. OF EXAMINED ANIMALS		35	35	33	0
	NO. OF ANIMALS WITH TUMORS		22	26	24	0
	NO. OF ANIMALS WITH SINGLE TUMORS		17	17	10	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		5	9	14	0
	NO. OF BENIGN TUMORS		18	25	31	0
	NO. OF MALIGNANT TUMORS		10	13	12	0
	NO. OF TOTAL TUMORS		28	38	43	0

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Time-related Weeks	Items	Group Name	Control	50ppm	100ppm	200ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		33	40	34	15
	NO. OF ANIMALS WITH SINGLE TUMORS		24	27	17	15
	NO. OF ANIMALS WITH MULTIPLE TUMORS		9	13	17	0
	NO. OF BENIGN TUMORS		22	34	38	13
	NO. OF MALIGNANT TUMORS		23	24	19	2
	NO. OF TOTAL TUMORS		45	58	57	15

(HPT070)

BAIS4

APPENDIX K 2

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF
TUMORS-TIME RELATED, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Time-related Weeks	Items	Group Name	Control	50ppm	100ppm	200ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	1	4
	NO. OF ANIMALS WITH TUMORS		1	0	1	3
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	1	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	1	3
	NO. OF TOTAL TUMORS		1	0	1	3
53 - 78	NO. OF EXAMINED ANIMALS		5	9	7	6
	NO. OF ANIMALS WITH TUMORS		5	9	7	4
	NO. OF ANIMALS WITH SINGLE TUMORS		5	8	6	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	1	1	1
	NO. OF BENIGN TUMORS		0	1	2	1
	NO. OF MALIGNANT TUMORS		5	9	6	4
	NO. OF TOTAL TUMORS		5	10	8	5
79 - 104	NO. OF EXAMINED ANIMALS		17	15	16	34
	NO. OF ANIMALS WITH TUMORS		17	14	15	22
	NO. OF ANIMALS WITH SINGLE TUMORS		13	6	13	13
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	8	2	9
	NO. OF BENIGN TUMORS		4	8	3	11
	NO. OF MALIGNANT TUMORS		18	15	14	22
	NO. OF TOTAL TUMORS		22	23	17	33
105 - 105	NO. OF EXAMINED ANIMALS		27	26	25	6
	NO. OF ANIMALS WITH TUMORS		17	21	19	3
	NO. OF ANIMALS WITH SINGLE TUMORS		8	15	13	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		9	6	6	3
	NO. OF BENIGN TUMORS		15	11	18	7
	NO. OF MALIGNANT TUMORS		14	19	11	2
	NO. OF TOTAL TUMORS		29	30	29	9

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Time-related Weeks	Items	Group Name	Control	50ppm	100ppm	200ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	49	50
	NO. OF ANIMALS WITH TUMORS		40	44	42	32
	NO. OF ANIMALS WITH SINGLE TUMORS		27	29	33	19
	NO. OF ANIMALS WITH MULTIPLE TUMORS		13	15	9	13
	NO. OF BENIGN TUMORS		19	20	23	19
	NO. OF MALIGNANT TUMORS		38	43	32	31
	NO. OF TOTAL TUMORS		57	63	55	50

(HPT070)

BAIS4

APPENDIX L 1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDf1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 50	200ppm 50
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	leiomyoma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
	hemangioma		1 (2%)	2 (4%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Respiratory system}						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		4 (8%)	13 (26%)	11 (22%)	3 (6%)
	bronchiolar-alveolar carcinoma		3 (6%)	4 (8%)	2 (4%)	0 (0%)
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
lymph node			<50>	<50>	<50>	<50>
	malignant lymphoma		7 (14%)	7 (14%)	5 (10%)	1 (2%)
	mastcytoma:malignant		1 (2%)	0 (0%)	1 (2%)	0 (0%)
spleen			<50>	<50>	<50>	<50>
	hemangioma		3 (6%)	1 (2%)	1 (2%)	0 (0%)
	malignant lymphoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 50	200ppm 50
{Hematopoietic system}						
spleen	mastcytoma:malignant		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	hemangiosarcoma		2 (4%)	1 (2%)	0 (0%)	0 (0%)
{Circulatory system}						
heart	hemangioma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Digestive system}						
stomach	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)
liver	hemangioma		<50> 2 (4%)	<50> 2 (4%)	<50> 2 (4%)	<50> 0 (0%)
	hepatocellular adenoma		7 (14%)	9 (18%)	4 (8%)	1 (2%)
	histiocytic sarcoma		2 (4%)	2 (4%)	2 (4%)	0 (0%)
	hemangiosarcoma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
	hepatocellular carcinoma		6 (12%)	6 (12%)	4 (8%)	1 (2%)
{Urinary system}						
kidney	renal cell carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 50	200ppm 50
{Endocrine system}						
pituitary	adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Reproductive system}						
epididymis	histiocytic sarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Nervous system}						
brain	meningioma:benign		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
periph nerv	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 3 (6%)	<50> 4 (8%)	<50> 14 (28%)	<50> 8 (16%)
{Body cavities}						
retroperit	mastcytoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	hemangiosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
adipose	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

(HPT085)

BAIS4

APPENDIX L 2

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 49	200ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
subcutis	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 0 (0%)	<50> 3 (6%)	<49> 6 (12%)	<50> 5 (10%)
	bronchiolar-alveolar carcinoma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
{Hematopoietic system}						
bone marrow	hemangioma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
lymph node	malignant lymphoma		<50> 17 (34%)	<50> 19 (38%)	<49> 17 (35%)	<50> 16 (32%)
spleen	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)	<50> 1 (2%)
	malignant lymphoma		5 (10%)	2 (4%)	1 (2%)	2 (4%)
	hemangiosarcoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
{Digestive system}						
salivary gl	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)	<50> 1 (2%)

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 49	200ppm 50
{Digestive system}						
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 2 (4%)	<49> 1 (2%)	<50> 0 (0%)
	mastcytoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
liver	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
	hepatocellular adenoma		2 (4%)	2 (4%)	3 (6%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hepatocellular carcinoma		3 (6%)	1 (2%)	0 (0%)	1 (2%)
{Endocrine system}						
pituitary	adenoma		<50> 8 (16%)	<50> 5 (10%)	<49> 2 (4%)	<49> 1 (2%)
adrenal	pheochromocytoma:malignant		<50> 1 (2%)	<50> 0 (0%)	<48> 0 (0%)	<50> 0 (0%)
{Reproductive system}						
ovary	hemangioma		<50> 3 (6%)	<50> 2 (4%)	<48> 0 (0%)	<50> 2 (4%)
uterus	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	50ppm 50	100ppm 49	200ppm 50
{Reproductive system}						
uterus	endometrial stromal polyp		<50> 4 (8%)	<50> 1 (2%)	<49> 0 (0%)	<50> 1 (2%)
	histiocytic sarcoma		7 (14%)	13 (26%)	9 (18%)	8 (16%)
mammary gl	adenocarcinoma		<50> 1 (2%)	<50> 2 (4%)	<49> 3 (6%)	<50> 0 (0%)
{Nervous system}						
periph nerv	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 0 (0%)	<50> 4 (8%)	<49> 8 (16%)	<50> 9 (18%)
{Musculoskeletal system}						
bone	osteosarcoma		<50> 0 (0%)	<50> 3 (6%)	<49> 0 (0%)	<50> 0 (0%)
{Body cavities}						
retroperit	schwannoma:malignant		<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)	<50> 0 (0%)

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

(HPT085)

BAIS4

APPENDIX M 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE : MALE (2-YEAR STUDY)

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	50ppm	100ppm	200ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	13/50(26.0)	11/50(22.0)	3/50(6.0)
Adjusted rates(b)	8.57	29.73	27.27	37.50
Terminal rates(c)	3/35(8.6)	10/35(28.6)	9/33(27.3)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0100**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3382			
Fisher Exact test(e)		P = 0.0155*	P = 0.0453*	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	4/50(8.0)	2/50(4.0)	0/50(0.0)
Adjusted rates(b)	5.71	11.43	6.06	0.0
Terminal rates(c)	2/35(5.7)	4/35(11.4)	2/33(6.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8277			
Prevalence method(d)	P = 0.4719			
Combined analysis(d)	P = 0.6293			
Cochran-Armitage test(e)	P = 0.0739			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1212
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	17/50(34.0)	13/50(26.0)	3/50(6.0)
Adjusted rates(b)	14.29	40.54	33.33	37.50
Terminal rates(c)	5/35(14.3)	14/35(40.0)	11/33(33.3)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8277			
Prevalence method(d)	P = 0.0141*			
Combined analysis(d)	P = 0.0235*			
Cochran-Armitage test(e)	P = 0.0730			
Fisher Exact test(e)		P = 0.0169*	P = 0.1054	P = 0.1589

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	50ppm	100ppm	200ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	7/50(14.0)	5/50(10.0)	1/50(2.0)
Adjusted rates(b)	11.43	8.57	9.09	0.0
Terminal rates(c)	4/35(11.4)	3/35(8.6)	3/33(9.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2918			
Prevalence method(d)	P = 0.6260			
Combined analysis(d)	P = 0.4192			
Cochran-Armitage test(e)	P = 0.0257*			
Fisher Exact test(e)		P = 0.6129	P = 0.3798	P = 0.0297*
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	1/50(2.0)	0/50(0.0)
Adjusted rates(b)	6.98	2.86	3.03	0.0
Terminal rates(c)	2/35(5.7)	1/35(2.9)	1/33(3.0)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8494			
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 : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	2/50(4.0)	1/50(2.0)	0/50(0.0)
Adjusted rates(b)	10.42	5.71	3.03	0.0
Terminal rates(c)	2/35(5.7)	2/35(5.7)	1/33(3.0)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9750			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0147*			
Fisher Exact test(e)		P = 0.2180	P = 0.1022	P = 0.0281*

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	50ppm	100ppm	200ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	9/50(18.0)	4/50(8.0)	1/50(2.0)
Adjusted rates(b)	20.00	20.00	12.12	11.11
Terminal rates(c)	7/35(20.0)	7/35(20.0)	4/33(12.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6407			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0140*			
Fisher Exact test(e)		P = 0.3929	P = 0.2623	P = 0.0297*
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	6/50(12.0)	4/50(8.0)	1/50(2.0)
Adjusted rates(b)	10.64	9.52	11.11	5.00
Terminal rates(c)	3/35(8.6)	2/35(5.7)	3/33(9.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7564			
Prevalence method(d)	P = 0.6732			
Combined analysis(d)	P = 0.7596			
Cochran-Armitage test(e)	P = 0.0440*			
Fisher Exact test(e)		P = 0.6202	P = 0.3703	P = 0.0559
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	2/50(4.0)	0/50(0.0)
Adjusted rates(b)	2.86	8.57	3.03	0.0
Terminal rates(c)	1/35(2.9)	3/35(8.6)	1/33(3.0)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5476			
Prevalence method(d)	P = 0.4780			
Combined analysis(d)	P = 0.5278			
Cochran-Armitage test(e)	P = 0.1432			
Fisher Exact test(e)		P = 0.3389	P = 0.6913	P = 0.2475

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	50ppm	100ppm	200ppm
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	12/50(24.0)	13/50(26.0)	6/50(12.0)	2/50(4.0)
Adjusted rates(b)	25.71	25.00	16.67	11.11
Terminal rates(c)	9/35(25.7)	8/35(22.9)	5/33(15.2)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7564			
Prevalence method(d)	P = 0.8275			
Combined analysis(d)	P = 0.8722			
Cochran-Armitage test(e)	P = 0.0014**			
Fisher Exact test(e)		P = 0.5000	P = 0.0961	P = 0.0038**
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	4/50(8.0)	14/50(28.0)	8/50(16.0)
Adjusted rates(b)	8.57	9.09	40.00	50.00
Terminal rates(c)	3/35(8.6)	3/35(8.6)	12/33(36.4)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0720			
Fisher Exact test(e)		P = 0.5000	P = 0.0032**	P = 0.0999

(HPT360A)

BAIS4

- (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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$
N.C. : Statistical value cannot be calculated and was not significant.

STUDY No. : 0366
 ANIMAL : MOUSE Crj:BDF1
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	50ppm	100ppm	200ppm
SITE : ALL SITE TUMOR : hemangioma				
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	14.29	9.09	0.0
Terminal rates(c)	3/35(8.6)	5/35(14.3)	3/33(9.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5525			
Prevalence method(d)	P = 0.7987			
Combined analysis(d)	P = 0.7987			
Cochran-Armitage test(e)	P = 0.0115*			
Fisher Exact test(e)		P = 0.5000	P = 0.3703	P = 0.0133*
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	4/50(8.0)	0/50(0.0)
Adjusted rates(b)	2.86	0.0	3.03	0.0
Terminal rates(c)	1/35(2.9)	0/35(0.0)	1/33(3.0)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4529			
Prevalence method(d)	P = 0.4860			
Combined analysis(d)	P = 0.4537			
Cochran-Armitage test(e)	P = 0.1848			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1212
(HPT360A)				
BAIS4				

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	50ppm	100ppm	200ppm
SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	8/50(16.0)	6/50(12.0)	1/50(2.0)
Adjusted rates(b)	11.43	11.43	12.12	0.0
Terminal rates(c)	4/35(11.4)	4/35(11.4)	4/33(12.1)	0/ 0(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2918			
Prevalence method(d)	P = 0.4650			
Combined analysis(d)	P = 0.3235			
Cochran-Armitage test(e)	P = 0.0267*			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.0297*

(HPT360A)

BAIS4

- (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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C.:Statistical value cannot be calculated and was not significant.

APPENDIX M 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE : FEMALE (2-YEAR STUDY)

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	50ppm	100ppm	200ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	3/50(6.0)	6/49(12.2)	5/50(10.0)
Adjusted rates(b)	0.0	7.69	20.00	44.44
Terminal rates(c)	0/27(0.0)	2/26(7.7)	5/25(20.0)	2/ 6(33.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0012**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0493*			
Fisher Exact test(e)		P = 0.1212	P = 0.0125*	P = 0.0281*
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	4/50(8.0)	7/49(14.3)	5/50(10.0)
Adjusted rates(b)	3.70	7.69	20.00	44.44
Terminal rates(c)	1/27(3.7)	2/26(7.7)	5/25(20.0)	2/ 6(33.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4466			
Prevalence method(d)	P = 0.0033**			
Combined analysis(d)	P = 0.0057**			
Cochran-Armitage test(e)	P = 0.1571			
Fisher Exact test(e)		P = 0.1811	P = 0.0277*	P = 0.1022
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	17/50(34.0)	19/50(38.0)	17/49(34.7)	16/50(32.0)
Adjusted rates(b)	11.11	37.93	20.00	7.69
Terminal rates(c)	3/27(11.1)	9/26(34.6)	5/25(20.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0850			
Prevalence method(d)	P = 0.5429			
Combined analysis(d)	P = 0.1193			
Cochran-Armitage test(e)	P = 0.7129			
Fisher Exact test(e)		P = 0.4176	P = 0.5551	P = 0.5000

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	50ppm	100ppm	200ppm
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	2/50(4.0)	1/49(2.0)	2/50(4.0)
Adjusted rates(b)	18.52	7.69	4.00	16.67
Terminal rates(c)	5/27(18.5)	2/26(7.7)	1/25(4.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5998			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2298			
Fisher Exact test(e)		P = 0.2180	P = 0.1068	P = 0.2180
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	2/50(4.0)	3/49(6.1)	0/50(0.0)
Adjusted rates(b)	5.00	7.69	12.00	0.0
Terminal rates(c)	1/27(3.7)	2/26(7.7)	3/25(12.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6683			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2710			
Fisher Exact test(e)		P = 0.6913	P = 0.4903	P = 0.2475
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/49(0.0)	1/50(2.0)
Adjusted rates(b)	7.41	0.0	0.0	0.0
Terminal rates(c)	2/27(7.4)	0/26(0.0)	0/25(0.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4790			
Prevalence method(d)	P = 0.9674 ?			
Combined analysis(d)	P = 0.7790			
Cochran-Armitage test(e)	P = 0.2527			
Fisher Exact test(e)		P = 0.3087	P = 0.1250	P = 0.3087

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	50ppm	100ppm	200ppm
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	3/50(6.0)	3/49(6.1)	1/50(2.0)
Adjusted rates(b)	7.69	7.69	12.00	0.0
Terminal rates(c)	2/27(7.4)	2/26(7.7)	3/25(12.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4790			
Prevalence method(d)	P = 0.7878			
Combined analysis(d)	P = 0.7358			
Cochran-Armitage test(e)	P = 0.1920			
Fisher Exact test(e)		P = 0.5000	P = 0.5114	P = 0.1811
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	5/50(10.0)	2/49(4.1)	1/49(2.0)
Adjusted rates(b)	25.93	13.79	4.00	0.0
Terminal rates(c)	7/27(25.9)	3/26(11.5)	1/25(4.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1476			
Prevalence method(d)	P = 0.9989			
Combined analysis(d)	P = 0.9759			
Cochran-Armitage test(e)	P = 0.0090**			
Fisher Exact test(e)		P = 0.2768	P = 0.0491*	P = 0.0166*
SITE : ovary TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	0/48(0.0)	2/50(4.0)
Adjusted rates(b)	8.82	5.71	0.0	16.67
Terminal rates(c)	2/27(7.4)	1/26(3.8)	0/24(0.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5948			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5633			
Fisher Exact test(e)		P = 0.5000	P = 0.1289	P = 0.5000

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	50ppm	100ppm	200ppm
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	4/50(8.0)	1/50(2.0)	0/49(0.0)	1/50(2.0)
Adjusted rates(b)	13.33	3.85	0.0	16.67
Terminal rates(c)	3/27(11.1)	1/26(3.8)	0/25(0.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7749			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1246			
Fisher Exact test(e)		P = 0.1811	P = 0.0612	P = 0.1811
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	13/50(26.0)	9/49(18.4)	8/50(16.0)
Adjusted rates(b)	7.41	19.23	12.00	16.67
Terminal rates(c)	2/27(7.4)	5/26(19.2)	3/25(12.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2432			
Prevalence method(d)	P = 0.3140			
Combined analysis(d)	P = 0.2007			
Cochran-Armitage test(e)	P = 0.8342			
Fisher Exact test(e)		P = 0.1054	P = 0.3758	P = 0.5000
SITE : mammary gland TUMOR : adenocarcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	2/50(4.0)	3/49(6.1)	0/50(0.0)
Adjusted rates(b)	0.0	7.69	10.71	0.0
Terminal rates(c)	0/27(0.0)	2/26(7.7)	2/25(8.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9080 ?			
Prevalence method(d)	P = 0.2070			
Combined analysis(d)	P = 0.4370			
Cochran-Armitage test(e)	P = 0.4859			
Fisher Exact test(e)		P = 0.5000	P = 0.3010	P = 0.5000

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	50ppm	100ppm	200ppm
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	4/50(8.0)	8/49(16.3)	9/50(18.0)
Adjusted rates(b)	0.0	9.09	24.00	33.33
Terminal rates(c)	0/27(0.0)	1/26(3.8)	6/25(24.0)	2/ 6(33.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0009**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0027**			
Fisher Exact test(e)		P = 0.0587	P = 0.0026**	P = 0.0013**
SITE : bone TUMOR : osteosarcoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	3/50(6.0)	0/49(0.0)	0/50(0.0)
Adjusted rates(b)	0.0	0.0	0.0	0.0
Terminal rates(c)	0/27(0.0)	0/26(0.0)	0/25(0.0)	0/ 6(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7404			
Prevalence method(d)	P = -----			
Combined analysis(d)	P = 0.7404			
Cochran-Armitage test(e)	P = 0.3781			
Fisher Exact test(e)		P = 0.1212	P = N. C.	P = N. C.
(HPT360A)				

BAIS4

- (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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C.:Statistical value cannot be calculated and was not significant.

STUDY No. : 0366
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	50ppm	100ppm	200ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	2/49(4.1)	3/50(6.0)
Adjusted rates(b)	14.81	8.57	8.00	33.33
Terminal rates(c)	4/27(14.8)	1/26(3.8)	2/25(8.0)	2/ 6(33.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5968			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4700			
Fisher Exact test(e)		P = 0.3575	P = 0.2264	P = 0.3575
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	13/50(26.0)	10/49(20.4)	11/50(22.0)
Adjusted rates(b)	7.41	19.23	12.00	22.22
Terminal rates(c)	2/27(7.4)	5/26(19.2)	3/25(12.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1437			
Prevalence method(d)	P = 0.2013			
Combined analysis(d)	P = 0.0906			
Cochran-Armitage test(e)	P = 0.6772			
Fisher Exact test(e)		P = 0.1631	P = 0.3792	P = 0.3055
(HPT360A)				

BAIS4

STUDY No. : 0366
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	50ppm	100ppm	200ppm
SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	22/50(44.0)	21/50(42.0)	18/49(36.7)	18/50(36.0)
Adjusted rates(b)	29.63	44.83	24.00	16.67
Terminal rates(c)	8/27(29.6)	11/26(42.3)	6/25(24.0)	1/ 6(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0850			
Prevalence method(d)	P = 0.6205			
Combined analysis(d)	P = 0.1488			
Cochran-Armitage test(e)	P = 0.3712			
Fisher Exact test(e)		P = 0.5000	P = 0.2976	P = 0.2703

(HPT360A)

BAIS4

- (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 outcomes cannot be estimated or this P-value is beyond the estimated P-value.
 — : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C.: Statistical value cannot be calculated and was not significant.

APPENDIX N 1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	0	1
	metastasis:liver tumor		2	2	0	0
	metastasis:lympho node tumor		1	0	0	0
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	1	0	0
	metastasis:liver tumor		0	1	0	0
	metastasis:spleen tumor		0	1	0	0
lymph node			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	0	2	0
thymus			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	5	4	1

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 50	50ppm 50	100ppm 50	200ppm 50
{Hematopoietic system}						
spleen	metastasis:lympho node tumor		<50> 1	<50> 0	<50> 1	<50> 0
{Circulatory system}						
heart	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:lung tumor		0	0	1	0
{Digestive system}						
salivary gl	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
stomach	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 1
small intes	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<50> 0
liver	leukemic cell infiltration		<50> 2	<50> 3	<50> 1	<50> 0
	metastasis:subcutis tumor		0	0	1	0
	metastasis:lung tumor		0	0	1	0
	metastasis:spleen tumor		0	1	0	0
	metastasis:lympho node tumor		1	0	1	0
pancreas	metastasis:liver tumor		<50> 0	<50> 0	<50> 1	<50> 0
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney	leukemic cell infiltration		<50> 1	<50> 0	<50> 1	<50> 1
	metastasis:lung tumor		0	0	1	0
	metastasis:lympho node tumor		1	0	0	0
urin bladd	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
{Reproductive system}						
testis	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
{Body cavities}						
mediastinum	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
	metastasis:liver tumor		1	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

APPENDIX N 2

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 15	50ppm 15	100ppm 17	200ppm 50
Organ	Findings				
{Respiratory system}					
nasal cavit		<15>	<15>	<17>	<50>
	leukemic cell infiltration	1	0	0	0
lung		<15>	<15>	<17>	<50>
	leukemic cell infiltration	0	3	0	1
	metastasis:liver tumor	2	2	0	0
	metastasis:lympho node tumor	1	0	0	0
{Hematopoietic system}					
bone marrow		<15>	<15>	<17>	<50>
	leukemic cell infiltration	1	1	0	0
	metastasis:liver tumor	0	1	0	0
	metastasis:lympho node tumor	1	0	0	0
lymph node		<15>	<15>	<17>	<50>
	metastasis:liver tumor	0	0	2	0
spleen		<15>	<15>	<17>	<50>
	leukemic cell infiltration	2	3	2	1
	metastasis:lympho node tumor	1	0	0	0
{Circulatory system}					
heart		<15>	<15>	<17>	<50>
	metastasis:liver tumor	1	0	0	0
{Digestive system}					
stomach		<15>	<15>	<17>	<50>
	leukemic cell infiltration	0	1	0	1
< a >		a : Number of animals examined at the site			
b		b : Number of animals with lesion			

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		Group Name No. of Animals on Study	Control 15	50ppm 15	100ppm 17	200ppm 50
Organ_____	Findings_____					
{Digestive system}						
small intes			<15>	<15>	<17>	<50>
	leukemic cell infiltration		0	1	0	0
liver			<15>	<15>	<17>	<50>
	leukemic cell infiltration		1	3	1	0
	metastasis:lympho node tumor		1	0	0	0
pancreas			<15>	<15>	<17>	<50>
	metastasis:liver tumor		0	0	1	0
{Urinary system}						
kidney			<15>	<15>	<17>	<50>
	leukemic cell infiltration		0	0	0	1
	metastasis:lympho node tumor		1	0	0	0
{Reproductive system}						
testis			<15>	<15>	<17>	<50>
	metastasis:liver tumor		1	0	0	0
{Body cavities}						
mediastinum			<15>	<15>	<17>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:liver tumor		1	0	0	0
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

APPENDIX N 3

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 35	50ppm 35	100ppm 33	200ppm 0
Organ	Findings				
{Integumentary system/appandage}					
skin/app	leukemic cell infiltration	<35> 1	<35> 0	<33> 0	< 0> -
{Respiratory system}					
lung	leukemic cell infiltration	<35> 2	<35> 0	<33> 0	< 0> -
{Hematopoietic system}					
bone marrow	leukemic cell infiltration	<35> 2	<35> 0	<33> 0	< 0> -
	metastasis:spleen tumor	0	1	0	-
thymus	leukemic cell infiltration	<35> 1	<35> 0	<33> 0	< 0> -
spleen	leukemic cell infiltration	<35> 3	<35> 2	<33> 2	< 0> -
	metastasis:lympho node tumor	0	0	1	-
{Circulatory system}					
heart	metastasis:lung tumor	<35> 0	<35> 0	<33> 1	< 0> -
{Digestive system}					
salivary gl	leukemic cell infiltration	<35> 1	<35> 0	<33> 0	< 0> -

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

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

Organ	Findings	Group Name No. of Animals on Study	Control 35	50ppm 35	100ppm 33	200ppm 0
{Digestive system}						
stomach			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	0	-
small intes			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	1	-
liver			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	0	-
	metastasis:subcutis tumor		0	0	1	-
	metastasis:lung tumor		0	0	1	-
	metastasis:spleen tumor		0	1	0	-
	metastasis:lympho node tumor		0	0	1	-
{Urinary system}						
kidney			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	1	-
	metastasis:lung tumor		0	0	1	-
urin bladd			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	0	-
{Reproductive system}						
semin ves			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	0	-
{Special sense organs/appendage}						
Harder gl			<35>	<35>	<33>	< 0>
	leukemic cell infiltration		1	0	0	-

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

APPENDIX N 4

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Group Name No. of Animals on Study		Control 50	50ppm 50	100ppm 49	200ppm 50
Organ	Findings				
{Integumentary system/appandage}					
skin/app	leukemic cell infiltration	<50> 0	<50> 0	<49> 0	<50> 1
subcutis	leukemic cell infiltration	<50> 0	<50> 0	<49> 0	<50> 2
{Respiratory system}					
nasal cavit	leukemic cell infiltration	<50> 1	<50> 0	<49> 1	<50> 0
	metastasis:uterus tumor	2	0	0	1
nasopharynx	metastasis:uterus tumor	<50> 0	<50> 0	<49> 0	<50> 1
larynx	leukemic cell infiltration	<50> 1	<50> 3	<49> 0	<50> 2
trachea	leukemic cell infiltration	<50> 2	<50> 1	<49> 1	<50> 0
lung	leukemic cell infiltration	<50> 15	<50> 10	<49> 9	<50> 6
	metastasis:liver tumor	0	0	0	2
	metastasis:uterus tumor	2	1	2	3
	metastasis:bone tumor	0	2	0	0
{Hematopoietic system}					
bone marrow	leukemic cell infiltration	<50> 9	<50> 1	<49> 3	<50> 4
< a > a : Number of animals examined at the site					
b b : Number of animals with lesion					

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Group Name No. of Animals on Study		Control 50	50ppm 50	100ppm 49	200ppm 50
Organ	Findings				
{Hematopoietic system}					
bone marrow	metastasis:liver tumor	<50> 0	<50> 0	<49> 0	<50> 1
	metastasis:uterus tumor	0	1	0	0
	metastasis:subcutis tumor	1	0	0	0
lymph node	metastasis:liver tumor	<50> 0	<50> 0	<49> 0	<50> 1
	metastasis:uterus tumor	1	0	0	0
	metastasis:lung tumor	0	0	1	0
thymus	leukemic cell infiltration	<50> 1	<50> 0	<49> 0	<50> 1
spleen	leukemic cell infiltration	<50> 15	<50> 13	<49> 12	<50> 8
	metastasis:liver tumor	0	0	0	1
	metastasis:uterus tumor	0	0	0	1
{Circulatory system}					
heart	leukemic cell infiltration	<50> 4	<50> 4	<49> 7	<50> 7
	metastasis:uterus tumor	0	0	0	1
{Digestive system}					
tongue	leukemic cell infiltration	<50> 1	<50> 1	<49> 1	<50> 2

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	50	50	49	50
Organ	Findings					
(Digestive system)						
salivary gl			<50>	<50>	<49>	<50>
	leukemic cell infiltration		14	5	8	6
esophagus			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	0	0
stomach			<50>	<50>	<49>	<50>
	leukemic cell infiltration		7	9	8	3
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	3	2	3
small intes			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	2	0	0
	metastasis:uterus tumor		0	0	0	2
liver			<50>	<50>	<49>	<50>
	leukemic cell infiltration		15	9	10	9
	metastasis:uterus tumor		6	6	7	7
	metastasis:subcutis tumor		1	0	0	0
	metastasis:stomach tumor		0	0	0	1
gall bladd			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	0	1	1
pancreas			<50>	<50>	<49>	<50>
	leukemic cell infiltration		7	5	4	4
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	50	50	49	50
Organ	Findings					
{Urinary system}						
kidney			<50>	<50>	<49>	<50>
	leukemic cell infiltration		13	8	7	3
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	3	2	1
urin bladd			<50>	<50>	<49>	<50>
	leukemic cell infiltration		6	3	2	2
{Endocrine system}						
pituitary			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	0	1	0
thyroid			<50>	<50>	<49>	<50>
	leukemic cell infiltration		2	1	0	0
adrenal			<50>	<50>	<49>	<50>
	leukemic cell infiltration		2	1	3	0
{Reproductive system}						
ovary			<50>	<50>	<49>	<50>
	leukemic cell infiltration		11	9	7	7
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		5	5	5	4
uterus			<50>	<50>	<49>	<50>
	leukemic cell infiltration		3	3	3	2
vagina			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	0	0

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

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Group Name No. of Animals on Study		Control 50	50ppm 50	100ppm 49	200ppm 50
Organ	Findings				
{Reproductive system}					
mammary gl		<50>	<50>	<49>	<50>
	leukemic cell infiltration	2	0	3	0
{Nervous system}					
brain		<50>	<50>	<49>	<50>
	leukemic cell infiltration	1	2	3	1
spinal cord		<50>	<50>	<49>	<50>
	leukemic cell infiltration	1	0	1	0
{Special sense organs/appendage}					
eye		<50>	<50>	<49>	<50>
	leukemic cell infiltration	2	2	2	3
Harder gl		<50>	<50>	<49>	<50>
	leukemic cell infiltration	4	1	4	3
{Musculoskeletal system}					
muscle		<50>	<50>	<49>	<50>
	leukemic cell infiltration	3	2	5	3
	metastasis:uterus tumor	0	0	0	1
{Body cavities}					
mediastinum		<50>	<50>	<49>	<50>
	leukemic cell infiltration	4	3	3	6
peritoneum		<50>	<50>	<49>	<50>
	leukemic cell infiltration	2	1	0	1

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	50	50	49	50
Organ_____	Findings_____					
{Body cavities}						
peritoneum			<50>	<50>	<49>	<50>
	metastasis:liver tumor		0	0	0	1
retroperit			<50>	<50>	<49>	<50>
	metastasis:liver tumor		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
(JPT150)						BAIS

APPENDIX N 6

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

		Group Name No. of Animals on Study	Control 27	50ppm 26	100ppm 25	200ppm 6
Organ	Findings					
{Respiratory system}						
larynx			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	2	0	0
lung			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		2	3	1	0
{Hematopoietic system}						
bone marrow			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		2	1	0	0
	metastasis:uterus tumor		0	1	0	0
thymus			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	0	0	0
spleen			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		2	7	4	0
{Circulatory system}						
heart			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	2	2	0
{Digestive system}						
tongue			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	0	0	0
salivary gl			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		4	3	3	0
esophagus			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	1	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

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

Organ	Findings	Group Name No. of Animals on Study	Control 27	50ppm 26	100ppm 25	200ppm 6
{Digestive system}						
stomach			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	3	2	0
small intes			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	1	0	0
liver			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		3	4	2	0
	metastasis:uterus tumor		1	1	1	1
pancreas			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	2	1	0
{Urinary system}						
kidney			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		3	4	1	0
urin bladd			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	2	0	0
{Reproductive system}						
ovary			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	3	1	0
uterus			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	1	1	0
mammary gl			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		1	0	0	0
{Nervous system}						
brain			<27>	<26>	<25>	< 6>
	leukemic cell infiltration		0	1	0	0

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

		Group Name No. of Animals on Study	Control 27	50ppm 26	100ppm 25	200ppm 6
Organ	Findings					
{Special sense organs/appendage}						
eye	leukemic cell infiltration		<27> 0	<26> 1	<25> 0	< 6> 0
Harder gl	leukemic cell infiltration		<27> 0	<26> 1	<25> 0	< 6> 0
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<27> 0	<26> 1	<25> 1	< 6> 0
{Body cavities}						
mediastinum	leukemic cell infiltration		<27> 1	<26> 1	<25> 0	< 6> 0
peritoneum	leukemic cell infiltration		<27> 0	<26> 1	<25> 0	< 6> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
(JPT150)						BAIS4

APPENDIX N 5

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

Group Name No. of Animals on Study		Control 23	50ppm 24	100ppm 24	200ppm 44
Organ	Findings				
{Integumentary system/appandage}					
skin/app	leukemic cell infiltration	<23> 0	<24> 0	<24> 0	<44> 1
subcutis	leukemic cell infiltration	<23> 0	<24> 0	<24> 0	<44> 2
{Respiratory system}					
nasal cavit	leukemic cell infiltration	<23> 1	<24> 0	<24> 1	<44> 0
	metastasis:uterus tumor	2	0	0	1
nasopharynx	metastasis:uterus tumor	<23> 0	<24> 0	<24> 0	<44> 1
larynx	leukemic cell infiltration	<23> 1	<24> 1	<24> 0	<44> 2
trachea	leukemic cell infiltration	<23> 2	<24> 1	<24> 1	<44> 0
lung	leukemic cell infiltration	<23> 13	<24> 7	<24> 8	<44> 6
	metastasis:liver tumor	0	0	0	2
	metastasis:uterus tumor	2	1	2	3
	metastasis:bone tumor	0	2	0	0
{Hematopoietic system}					
bone marrow	leukemic cell infiltration	<23> 7	<24> 0	<24> 3	<44> 4

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

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	23	24	24	44
Organ	Findings					
(Hematopoietic system)						
bone marrow			<23>	<24>	<24>	<44>
	metastasis:liver tumor		0	0	0	1
	metastasis:subcutis tumor		1	0	0	0
lymph node			<23>	<24>	<24>	<44>
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	0	0	0
	metastasis:lung tumor		0	0	1	0
thymus			<23>	<24>	<24>	<44>
	leukemic cell infiltration		0	0	0	1
spleen			<23>	<24>	<24>	<44>
	leukemic cell infiltration		13	6	8	8
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		0	0	0	1
(Circulatory system)						
heart			<23>	<24>	<24>	<44>
	leukemic cell infiltration		3	2	5	7
	metastasis:uterus tumor		0	0	0	1
(Digestive system)						
tongue			<23>	<24>	<24>	<44>
	leukemic cell infiltration		3	1	1	2
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

		Group Name No. of Animals on Study	Control 23	50ppm 24	100ppm 24	200ppm 44
Organ	Findings					
{Digestive system}						
salivary gl			<23>	<24>	<24>	<44>
	leukemic cell infiltration		10	2	5	6
stomach			<23>	<24>	<24>	<44>
	leukemic cell infiltration		7	6	6	3
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	3	2	3
small intes			<23>	<24>	<24>	<44>
	leukemic cell infiltration		1	1	0	0
	metastasis:uterus tumor		0	0	0	2
liver			<23>	<24>	<24>	<44>
	leukemic cell infiltration		12	5	8	9
	metastasis:uterus tumor		5	5	6	6
	metastasis:subcutis tumor		1	0	0	0
	metastasis:stomach tumor		0	0	0	1
gall bladd			<23>	<24>	<24>	<43>
	leukemic cell infiltration		0	0	1	1
pancreas			<23>	<24>	<24>	<44>
	leukemic cell infiltration		6	3	3	4
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		0	0	0	1
{Urinary system}						
kidney			<23>	<24>	<24>	<44>
	leukemic cell infiltration		10	4	6	3
< a >		a : Number of animals examined at the site				
b		b : Number of animals with lesion				

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

		Group Name	Control	50ppm	100ppm	200ppm
		No. of Animals on Study	23	24	24	44
Organ	Findings					
{Urinary system}						
kidney	metastasis:liver tumor		<23> 0	<24> 0	<24> 0	<44> 1
	metastasis:uterus tumor		1	3	2	1
urin bladd	leukemic cell infiltration		<23> 6	<24> 1	<24> 2	<44> 2
{Endocrine system}						
pituitary	leukemic cell infiltration		<23> 0	<24> 0	<24> 1	<44> 0
	leukemic cell infiltration		<23> 2	<24> 1	<24> 0	<44> 0
adrenal	leukemic cell infiltration		<23> 2	<24> 1	<24> 3	<44> 0
{Reproductive system}						
ovary	leukemic cell infiltration		<23> 10	<24> 6	<24> 6	<44> 7
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		5	5	5	4
uterus	leukemic cell infiltration		<23> 3	<24> 2	<24> 2	<44> 2
vagina	leukemic cell infiltration		<23> 0	<24> 1	<24> 0	<44> 0
< a >		a : Number of animals examined at the site				
b		b : Number of animals with lesion				

STUDY NO. : 0366
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Group Name No. of Animals on Study		Control 23	50ppm 24	100ppm 24	200ppm 44
Organ	Findings				
{Reproductive system}					
mammary gl		<23>	<24>	<24>	<44>
	leukemic cell infiltration	1	0	3	0
{Nervous system}					
brain		<23>	<24>	<24>	<44>
	leukemic cell infiltration	1	1	3	1
spinal cord		<23>	<24>	<24>	<44>
	leukemic cell infiltration	1	0	1	0
{Special sense organs/appendage}					
eye		<23>	<24>	<24>	<44>
	leukemic cell infiltration	2	1	2	3
Harder gl		<23>	<24>	<24>	<44>
	leukemic cell infiltration	4	0	4	3
{Musculoskeletal system}					
muscle		<23>	<24>	<24>	<44>
	leukemic cell infiltration	3	1	4	3
	metastasis:uterus tumor	0	0	0	1
{Body cavities}					
mediastinum		<23>	<24>	<24>	<44>
	leukemic cell infiltration	3	2	3	6
peritoneum		<23>	<24>	<24>	<44>
	leukemic cell infiltration	2	0	0	1
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

STUDY NO. : 0366
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

		Group Name No. of Animals on Study	Control 23	50ppm 24	100ppm 24	200ppm 44
Organ_____	Findings_____					
{Body cavities}						
peritoneum			<23>	<24>	<24>	<44>
	metastasis:liver tumor		0	0	0	1
retroperit			<23>	<24>	<24>	<44>
	metastasis:liver tumor		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
(JPT150)						BAIS

APPENDIX O 1

IDENTITY AND IMPURITY OF ALLYL CHLORIDE IN THE 2-YEAR INHALATION STUDY

IDENTITY AND IMPURITY OF ALLYL CHLORIDE IN THE 2-YEAR INHALATION STUDY

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

A. Lot No. : WTK5293

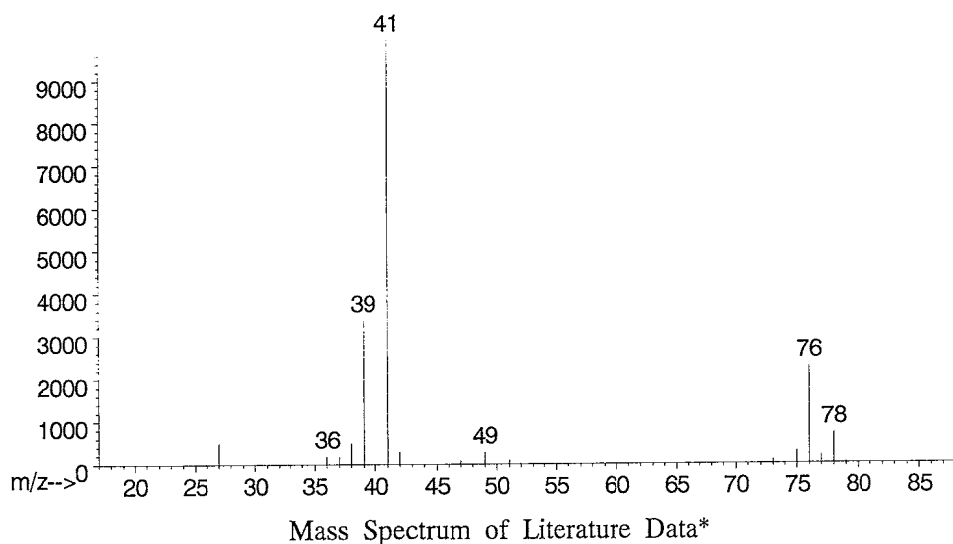
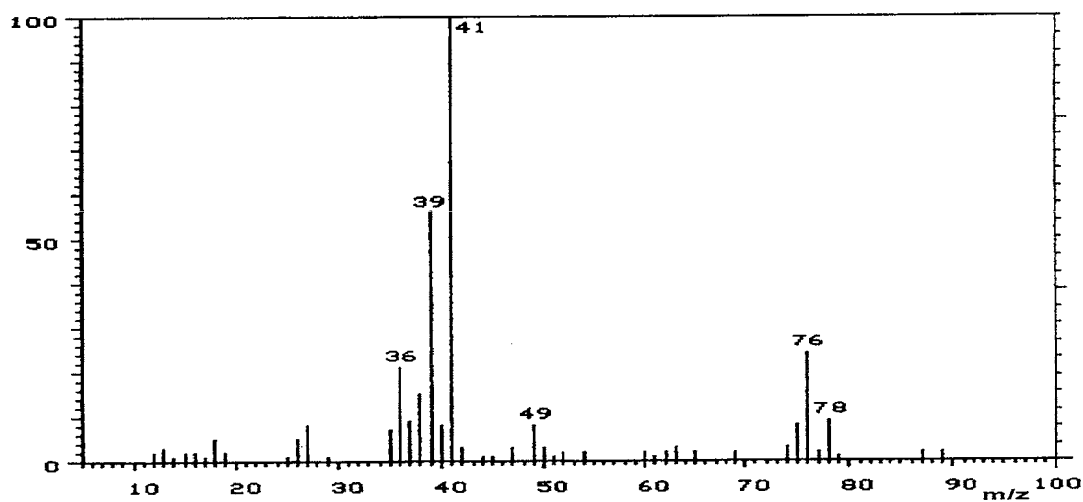
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

(*McLafferty, F.W. (1994)

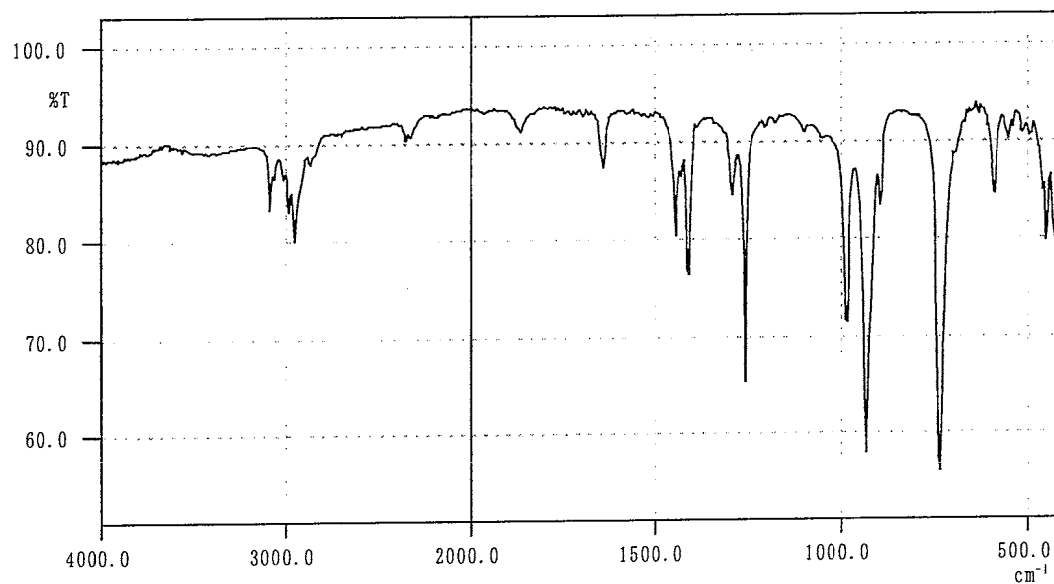
Wiley Registry of Mass Spectral Data, 6th edition, Entry Number 1989
John Wiley and Sons, Inc. New York)

Infrared Spectrometry

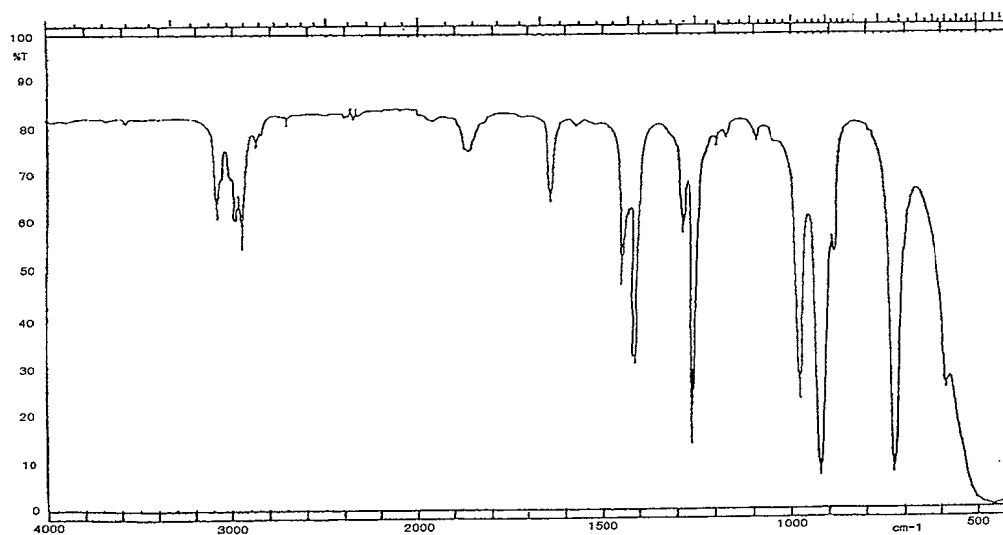
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

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

2. Impurity

Instrument : Hewlett Packard 6890
Column : INNOWAX (0.53 mm ϕ \times 60 m)
Column Temperature : 50° C
Flow Rate : 10 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.8111	1-Chloropropene
	2	0.6247	1,5-Hexadiene
	3	98.5397	Allyl chloride
	4	0.0245	2-Propanol

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.8111%, 0.6247% and 0.0245%.

3. Conclusion: The test substance was identified as allyl chloride by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.8111%, 0.6247% and 0.0245%.

B. Lot No. : PAK5623

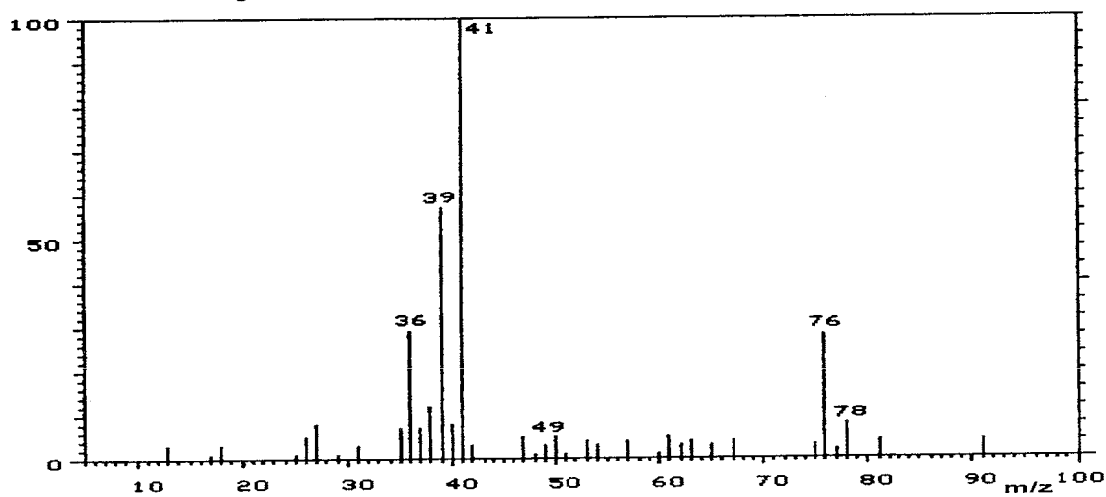
1. Spectral data

Mass Spectrometry

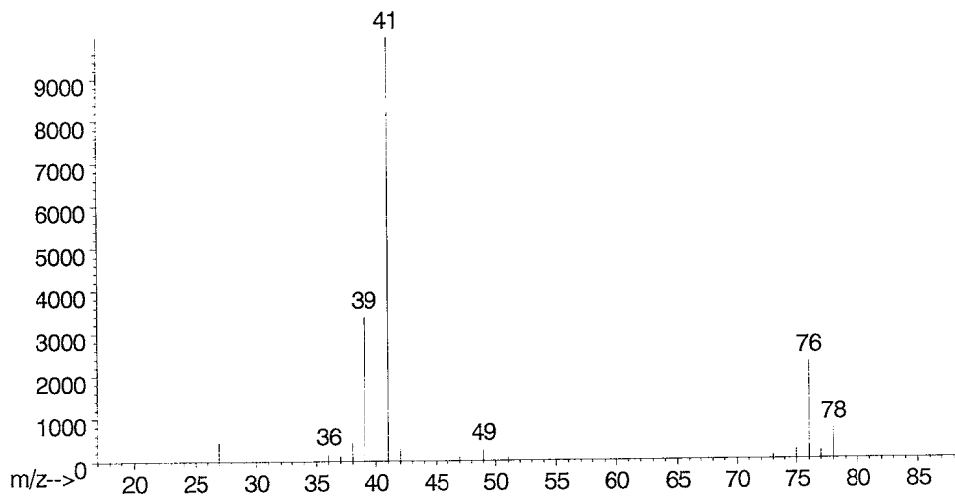
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

Result: The mass spectrum was consistent with literature spectrum.

(*McLafferty, F.W. (1994)

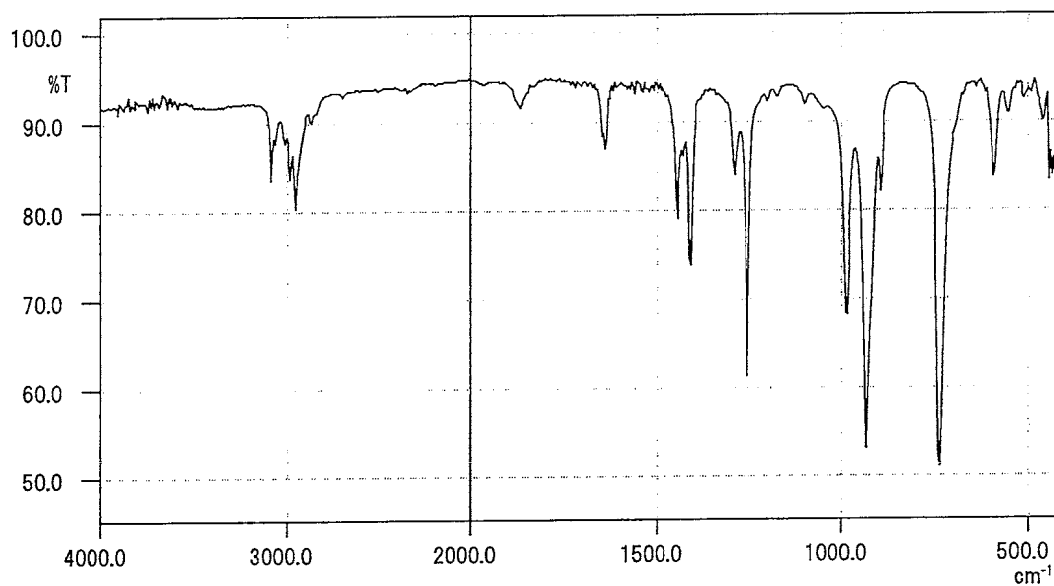
Wiley Registry of Mass Spectral Data, 6th edition, Entry Number 1989
John Wiley and Sons, Inc. New York)

Infrared Spectrometry

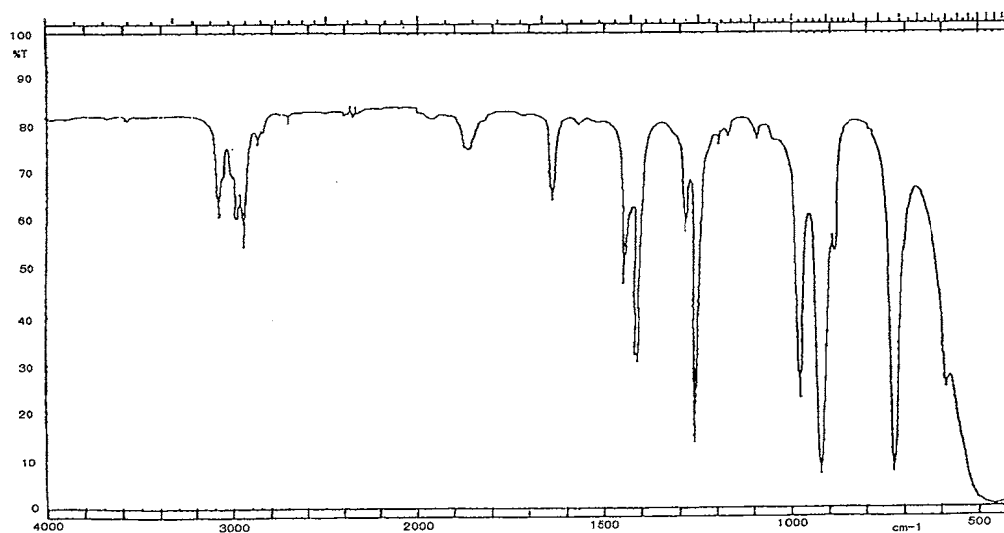
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

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

2. Impurity

Instrument	: Hewlett Packard 6890
Column	: INNOWAX (0.53 mm ϕ \times 60 m)
Column Temperature	: 50° C
Flow Rate	: 10 mL/min
Detector	: FID (Flame Ionization Detector)
Injection Volume	: 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.7956	1-Chloropropene
	2	0.7229	1,5-Hexadiene
	3	98.4731	Allyl chloride
	4	0.0084	2-Propanol

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7956%, 0.7229% and 0.0084%.

3. Conclusion: The test substance was identified as allyl chloride by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7956%, 0.7229% and 0.0084%.

C. Lot No. : CKJ5754

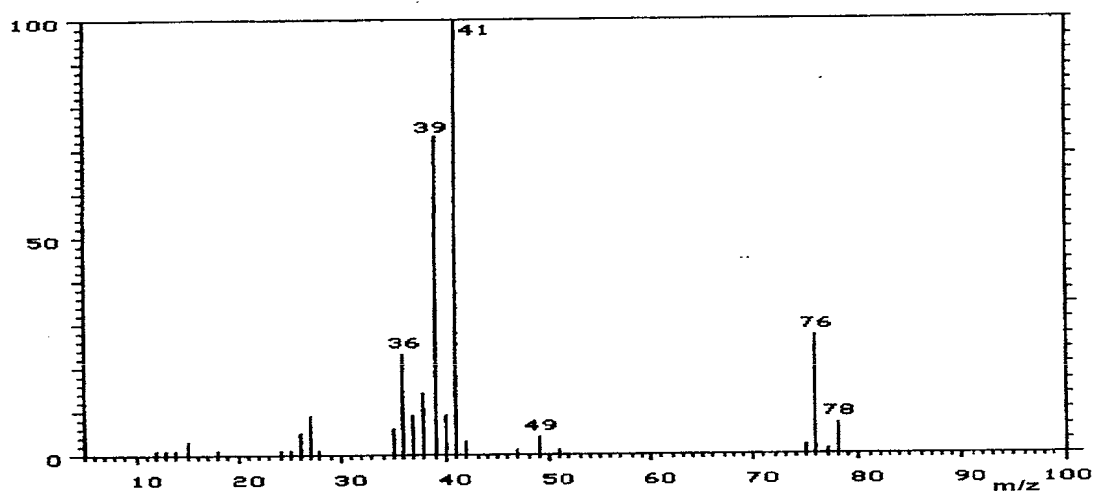
1. Spectral data

Mass Spectrometry

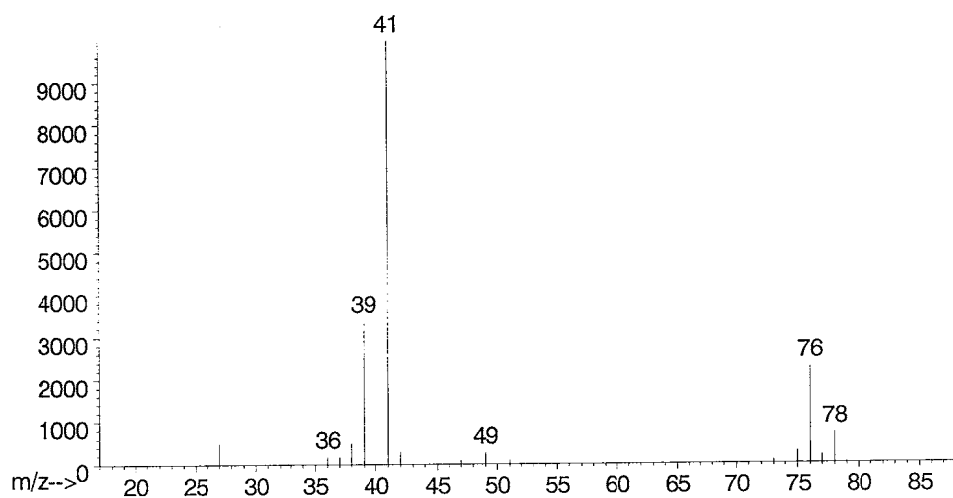
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

Result: The mass spectrum was consistent with literature spectrum.

(*McLafferty, F.W. (1994)

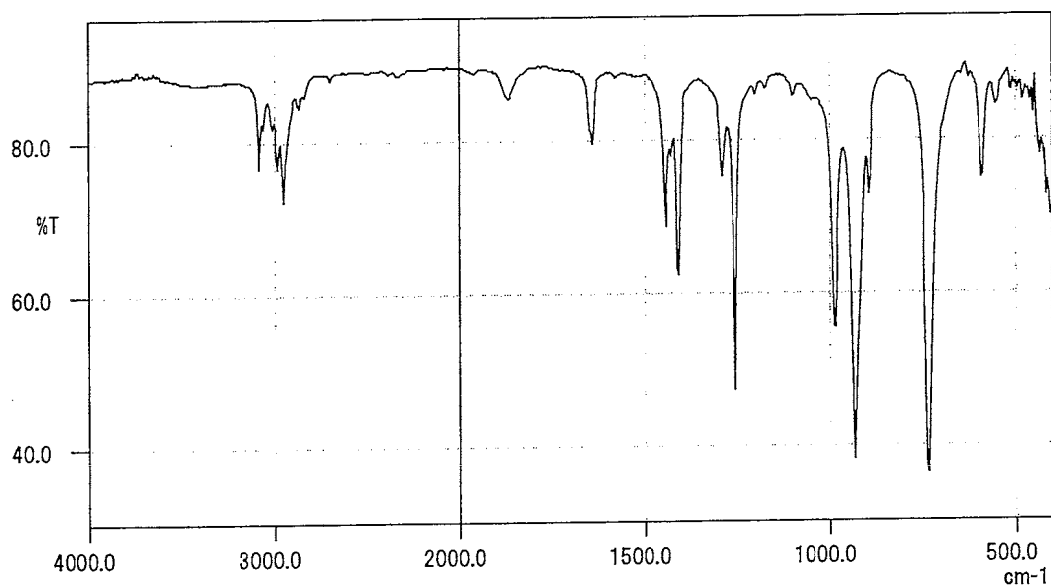
Wiley Registry of Mass Spectral Data, 6th edition, Entry Number 1989
John Wiley and Sons, Inc. New York)

Infrared Spectrometry

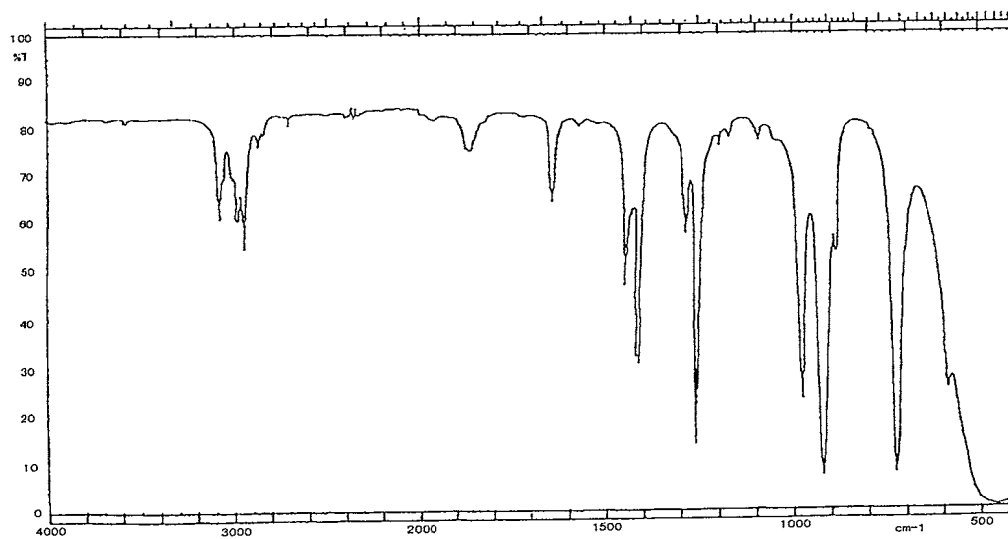
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

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

2. Impurity

Instrument	: Hewlett Packard 6890
Column	: INNOWAX (0.53 mm ϕ \times 60 m)
Column Temperature	: 50° C
Flow Rate	: 10 mL/min
Detector	: FID (Flame Ionization Detector)
Injection Volume	: 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.7944	1-Chloropropene
	2	0.6958	1,5-Hexadiene
	3	98.4961	Allyl chloride
	4	0.0137	2-Propanol

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7944%, 0.6958% and 0.0137%.

3. Conclusion: The test substance was identified as allyl chloride by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7944%, 0.6958% and 0.0137%.

D. Lot No. : SEK5898

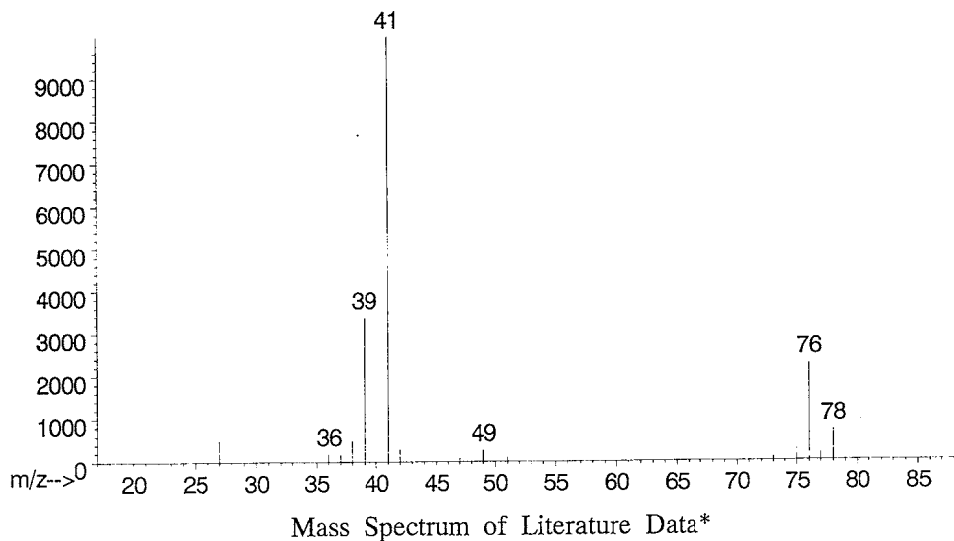
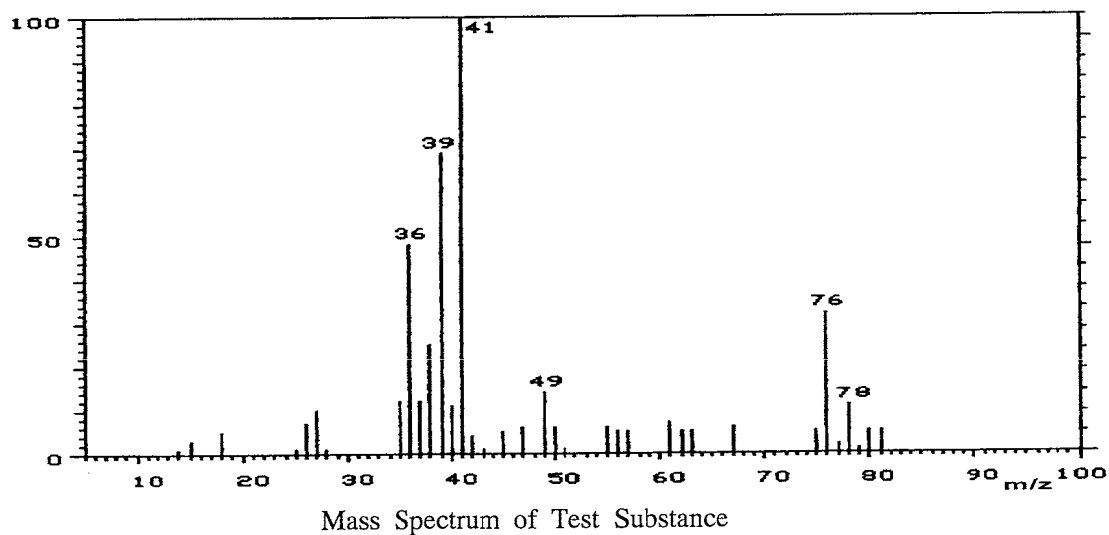
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

(*McLafferty, F.W. (1994)

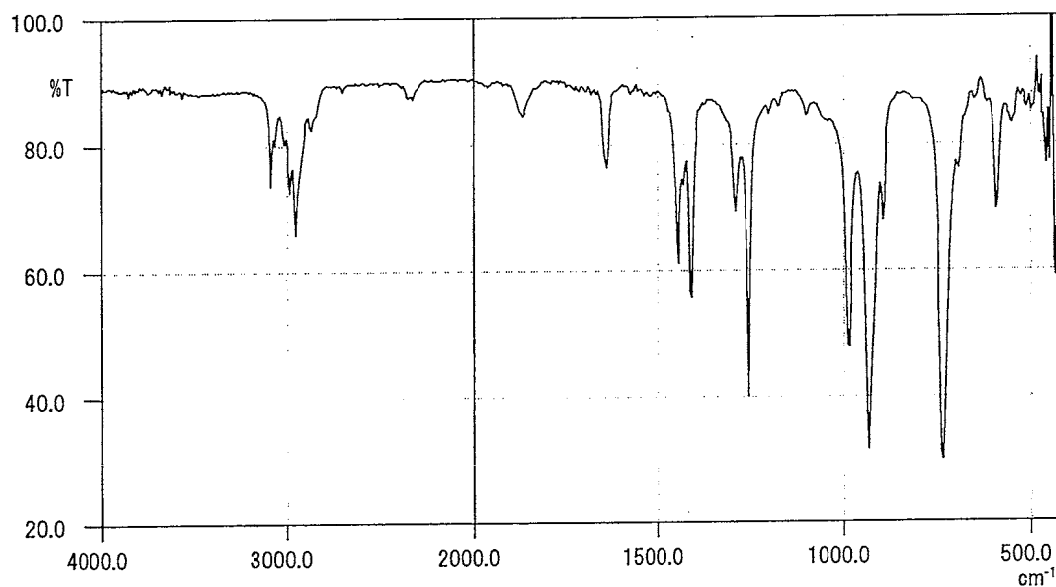
Wiley Registry of Mass Spectral Data, 6th edition, Entry Number 1989
John Wiley and Sons, Inc. New York)

Infrared Spectrometry

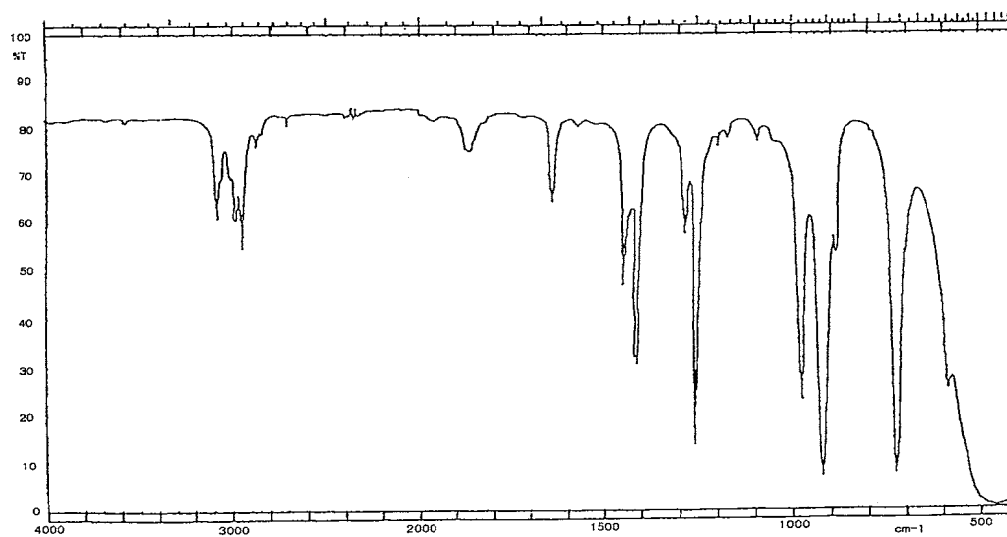
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

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

2. Impurity

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.8178	1-Chloropropene
	2	0.6306	1,5-Hexadiene
	3	98.5275	Allyl chloride
	4	0.0241	2-Propanol

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.8178%, 0.6306% and 0.0241%.

3. Conclusion: The test substance was identified as allyl chloride by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.8178%, 0.6306% and 0.0241%.

E. Lot No. : SER4744

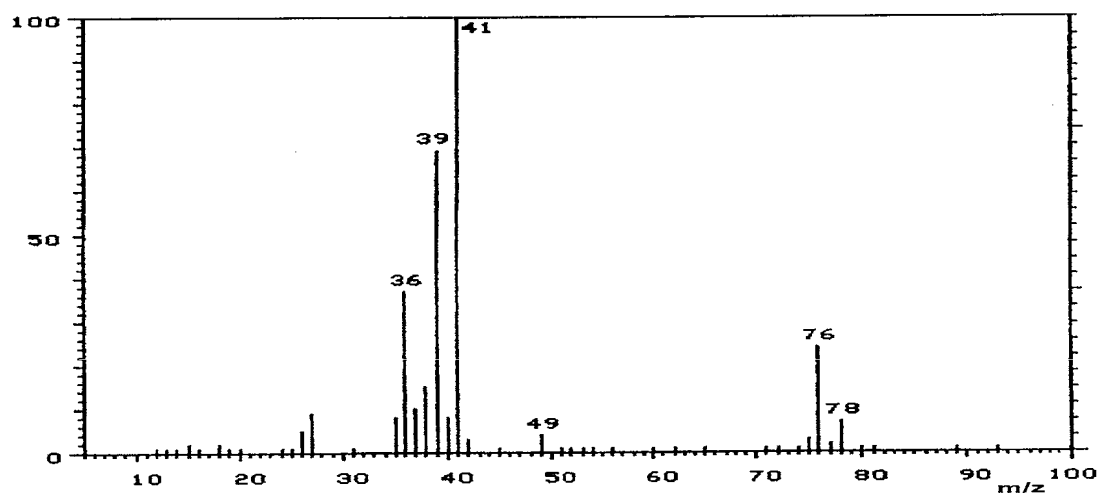
1. Spectral data

Mass Spectrometry

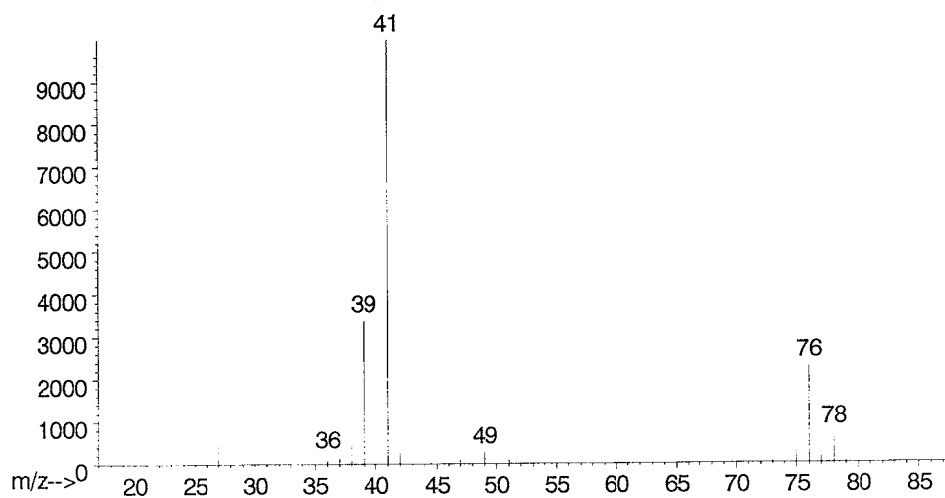
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

Result: The mass spectrum was consistent with literature spectrum.

(*McLafferty, F.W. (1994)

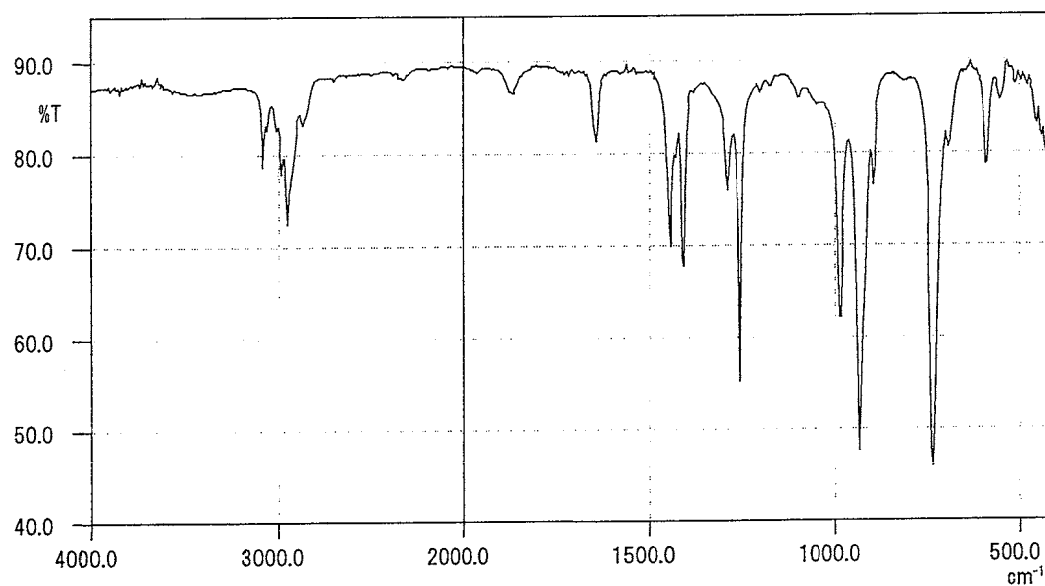
Wiley Registry of Mass Spectral Data, 6th edition, Entry Number 1989
John Wiley and Sons, Inc. New York)

Infrared Spectrometry

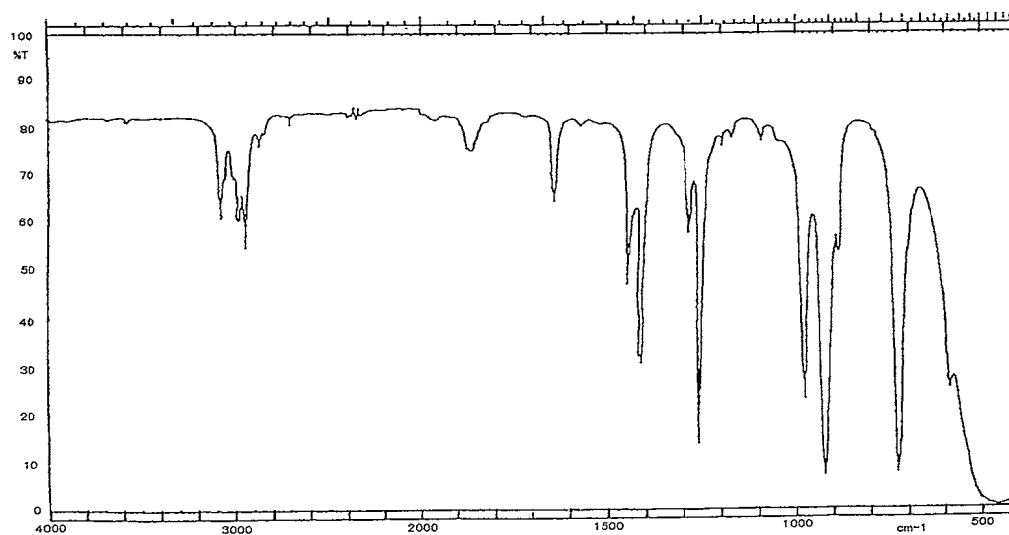
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

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

2. Impurity

Instrument : Hewlett Packard 6890
Column : INNOWAX (0.53 mm ϕ \times 60 m)
Column Temperature : 50° C
Flow Rate : 10 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.7882	1-Chloropropene
	2	0.6948	1,5-Hexadiene
	3	98.5032	Allyl chloride
	4	0.0138	2-Propanol

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7882%, 0.6948% and 0.0138%.

3. Conclusion: The test substance was identified as allyl chloride by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (peak No.3) and three impurities. It was identified only by comparing its gas chromatograph with that of 1-chloropropene (peak No.1), 1,5-hexadiene (peak No.2) and 2-propanol (peak No.4) in the allyl chloride, the amount in the test substance were 0.7882%, 0.6948% and 0.0138%.

APPENDIX O 2

STABILITY OF ALLYL CHLORIDE IN THE 2-YEAR INHALATION STUDY

STABILITY OF ALLYL CHLORIDE IN THE 2-YEAR INHALATION STUDY

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

A. Lot No. : WTK5293

1. Sample : This lot was used from 1998.11.19 to 1999.1.26. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1998.10.14	1	2.586	0.8111
	2	2.911	0.6247
	3	3.305	98.5397
	4	5.527	0.0245
1999.01.27	1	2.586	0.7849
	2	2.911	0.7262
	3	3.305	98.4805
	4	5.530	0.0084

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 1998.10.14 and one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 1999.1.27. No new trace impurity peak in the test substance analyzed on 1999.1.27 was detected.

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

B. Lot No. : PAK5623

1. Sample : This lot was used from 1999.1.27 to 1999.10.26. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1999.01.26	1	2.582	0.7956
	2	2.907	0.7229
	3	3.303	98.4731
	4	5.526	0.0084
1999.10.27	1	2.583	0.7954
	2	2.908	0.7233
	3	3.302	98.4730
	4	5.525	0.0083

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 1999.1.26 and one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 1999.10.27. No new trace impurity peak in a test substance analyzed on 1999.10.27 was detected.

3. Conclusion: The test substance was stable for about 9 months in a dark place at room temperature.

C. Lot No. : CKJ5754

1. Sample : This lot was used from 1999.10.27 to 2000.8.4. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1999.10.25	1	2.582	0.7944
	2	2.908	0.6958
	3	3.302	98.4961
	4	5.522	0.0137
2000.08.07	1	2.583	0.7975
	2	2.909	0.6934
	3	3.302	98.4953
	4	5.523	0.0138

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 1999.10.25 and one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 2000.8.7. No new trace impurity peak in the test substance analyzed on 2000.8.7 was detected.

3. Conclusion: The test substance was stable for about 9 months in a dark place at room temperature.

D. Lot No. : SEK5898

1. Sample : This lot was used from 2000.8.7 to 2000.9.7. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2000.07.24	1	2.584	0.8178
	2	2.908	0.6306
	3	3.301	98.5275
	4	5.521	0.0241
2000.09.08	1	2.584	0.8225
	2	2.909	0.6303
	3	3.302	98.5233
	4	5.522	0.0239

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 2000.7.24 and one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 2000.9.8. No new trace impurity peak in the test substance analyzed on 2000.9.8 was detected.

3. Conclusion: The test substance was stable for about 1 month in a dark place at room temperature.

E. Lot No. : SER4744

1. Sample : This lot was used from 2000.9.8 to 2000.11.15. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : INNOWAX (0.53 mm ϕ \times 60 m)

Column Temperature : 50° C

Flow Rate : 10 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2000.09.07	1	2.583	0.7882
	2	2.908	0.6948
	3	3.301	98.5032
	4	5.523	0.0138
2000.11.30	1	2.593	0.8018
	2	2.923	0.6976
	3	3.321	98.4857
	4	5.584	0.0149

Result : Gas chromatography indicated one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 2000.9.7 and one major peak (peak No.3) and three impurities (peak No.1,2,4 < 2% of total area) analyzed on 2000.11.30. No new trace impurity peak in the test substance analyzed on 2000.11.30 was detected.

3. Conclusion: The test substance was stable for about 2 months in a dark place at room temperature.

APPENDIX P 1

CONCENTRATION OF ALLYL CHLORIDE IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATION OF ALLYL CHLORIDE IN THE INHALATION
CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration (ppm)	
	Mean	± S.D.
0ppm	0.0	± 0.0
50ppm	50.1	± 0.2
100ppm	100.2	± 0.3
200ppm	200.1	± 0.5

APPENDIX P 2

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF ALLYL CHLORIDE

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER
IN THE 2-YEAR INHALATION STUDY OF ALLYL CHLORIDE

Group Name	Temperature(°C)			Humidity(%)			Ventilation Rate (L/min)			Air Changes (time/h)	
	Mean	±	S.D.	Mean	±	S.D.	Mean	±	S.D.	Mean	
0ppm	22.3	±	0.3	53.5	±	1.5	780.0	±	2.1	12.0	
50ppm	22.3	±	0.3	53.8	±	1.7	780.7	±	2.5	12.0	
100ppm	22.2	±	0.2	52.2	±	1.7	779.3	±	2.3	12.0	
200ppm	22.1	±	0.3	52.7	±	2.0	781.6	±	2.1	12.0	

APPENDIX Q

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

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

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

1) Automatic blood cell analyzer (Technicon H·1 : Bayer Corporation)

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

3) Automatic analyzer (Hitachi 7070 : Hitachi, Ltd.)