

シクロヘキセンのマウスを用いた
吸入によるがん原性試験報告書

試験番号：0406

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APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0406
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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0406
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
DEATH	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0406
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
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0406
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
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0406
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 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
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	2	3	3	3	3	3	3	4
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	3	3
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	300ppm	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
DEATH	Control	2	2	3	3	5	5	5	6	8	8	9	10	10	10
	75ppm	0	0	0	0	0	0	1	1	2	2	2	2	2	3
	150ppm	4	4	5	5	5	6	6	6	8	8	8	8	8	8
	300ppm	1	1	2	2	2	2	3	3	3	3	3	3	3	4
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	150ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
DEATH	Control	10	11	12	12	12	12
	75ppm	4	5	5	7	8	8
	150ppm	8	8	8	10	12	13
	300ppm	4	4	4	4	5	5
MORIBUND SACRIFICE	Control	1	1	1	1	1	1
	75ppm	4	4	4	4	4	4
	150ppm	1	1	1	2	2	2
	300ppm	2	2	3	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	0
	300ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	2	2	1	1	2	2
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0		0	0	1	1	1	0	0	0	0	0	0
FROG BELLY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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	1	1	1	1
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	1	1	1	1	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	1	1	1	1	1	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	0	0	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	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
SOILED	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	1	1	1	0
PILOERECTION	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	2	1	1	0
	300ppm	1	1	1	1	0	0
TRAUMA	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	1	1
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	1	1	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	1	1	1	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1
	300ppm	0	1	1	2	2	1
GUM	Control	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	1	1	1	1	0
CORNEAL OPACITY	Control	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1
	300ppm	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
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	2

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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
INTERNAL MASS	Control	0	0	0	1	2	2	2	2	2	3	3	3	5	5
	75ppm	0	0	0	0	0	0	0	1	1	2	2	3	2	2
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	2	2	2	2	2	3	3	3	3	3	3	3	3	3
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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		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
INTERNAL MASS	Control	6	6	5	7	6	7	7	8	7	9	8	10	10	11
	75ppm	3	4	4	5	5	5	5	7	6	6	6	7	7	9
	150ppm	0	0	0	1	1	0	0	1	2	2	3	3	3	3
	300ppm	3	4	4	4	4	4	3	3	7	7	8	8	8	8
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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					
		99-7	100-7	101-7	102-7	103-7	104-7
INTERNAL MASS	Control	11	11	10	10	11	11
	75ppm	7	8	9	7	11	11
	150ppm	4	4	7	5	4	5
	300ppm	8	8	9	10	10	11
M. NOSE	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. EYE	Control	0	1	1	1	1	1
	75ppm	1	1	1	1	1	1
	150ppm	1	1	1	1	1	1
	300ppm	0	0	0	0	1	1
M. EAR	Control	0	0	0	0	1	1
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. BREAST	Control	0	1	1	1	1	1
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1

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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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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)
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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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	300ppm	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 OBSERVATION (SUMMARY)
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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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	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	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	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	1
	75ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

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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
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	150ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	300ppm	1	1	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	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
M. ANUS	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	0
	300ppm	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	1	1
ANEMIA	Control	0	0	0	0	0	0
	75ppm	0	0	1	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
EROSION	Control	1	1	1	1	1	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	1
CRUSTA	Control	1	1	1	1	0	0
	75ppm	1	1	1	1	2	2
	150ppm	0	0	0	0	0	1
	300ppm	1	1	1	1	1	1
TORTICOLLIS	Control	1	1	1	1	1	1
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	2	2	2	2	2
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	1	0	0	0
	300ppm	0	0	1	1	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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	49	49	49	49
	75ppm	50	50	49	49	49	49	49	49	49	49	49	49	49	49
	150ppm	50	50	49	49	49	49	49	49	49	49	49	49	49	49
	300ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	75ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	150ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	300ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

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CLINICAL OBSERVATION (SUMMARY)
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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	75ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	150ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	300ppm	50	50	50	50	50	49	49	49	49	49	49	49	49	49

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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	75ppm	49	49	49	49	49	49	49	49	49	49	49	49	48	48
	150ppm	49	49	49	49	49	49	48	48	48	48	48	48	48	48
	300ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BATS 4

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	48	48	48	48	48	48	47	47	46	46
	75ppm	48	48	48	49	49	49	49	49	49	49	48	48	48	48
	150ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	300ppm	49	49	49	49	49	49	48	48	48	48	47	47	47	45

(HAN190)

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STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NON REMARKABLE	Control	46	46	46	45	44	44	43	43	42	42	42	39	36	36
	75ppm	48	48	48	48	48	48	47	46	46	45	45	43	43	43
	150ppm	48	48	48	48	48	48	47	46	46	45	44	43	43	42
	300ppm	46	46	46	46	45	45	45	44	44	43	43	43	42	41

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CLINICAL OBSERVATION (SUMMARY)
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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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	36	36	36	35	35	34	34	32	31	29	29	26	26	25
	75ppm	42	41	41	40	40	40	39	37	37	37	37	35	35	32
	150ppm	42	42	41	40	40	40	40	39	37	37	36	36	36	36
	300ppm	40	39	40	40	40	40	40	40	36	36	35	35	35	34

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STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

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
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
NON REMARKABLE	Control	25	23	24	24	21	21
	75ppm	32	31	31	31	25	25
	150ppm	35	35	32	31	30	29
	300ppm	33	33	29	28	28	27

(HAN190)

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APPENDIX A 2

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	1	1	1	1	1	1	1	2	2	2	2	2
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	75ppm	0	0	1	1	1	1	1	1	1	1	2	2	2	2
	150ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	300ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	150ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	300ppm	1	1	1	2	2	2	2	2	2	2	3	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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 : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	2	2	3	3	3	4	4	4	5	5	5	5	5	5
	75ppm	2	2	3	3	3	3	3	3	3	3	3	3	3	3
	150ppm	3	3	3	4	4	4	4	5	5	5	5	5	5	6
	300ppm	1	1	1	1	1	1	2	2	2	2	2	3	4	6
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	75ppm	1	1	2	2	2	2	2	3	4	4	5	5	6	6
	150ppm	1	1	1	1	1	1	1	1	2	2	2	3	4	4
	300ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	5	5	5	5	5	5	6	7	7	8	9	9	9	9
	75ppm	3	3	3	3	4	5	5	7	7	7	7	9	11	11
	150ppm	7	7	7	7	9	9	10	10	11	11	11	11	13	14
	300ppm	6	7	7	7	7	7	7	7	8	8	8	9	9	9
MORIBUND SACRIFICE	Control	2	2	2	3	3	3	3	3	3	3	3	3	3	3
	75ppm	6	7	8	8	8	8	8	8	8	8	8	8	8	8
	150ppm	5	5	5	5	5	5	5	5	5	5	5	6	6	6
	300ppm	3	3	3	4	4	5	5	5	6	6	6	6	8	8
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
DEATH	Control	9	9	13	14	17	17
	75ppm	12	12	14	14	16	17
	150ppm	14	17	18	18	18	18
	300ppm	9	9	9	9	11	12
MORIBUND SACRIFICE	Control	3	3	4	4	5	6
	75ppm	8	8	8	8	8	8
	150ppm	7	7	7	7	7	8
	300ppm	8	8	8	8	8	8
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
LOCOMOTOR MOVEMENT INCR	Control	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	1	0
	300ppm	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	1	0	0	0	0	0	1	1	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	1	1	1	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	1	1	0	0	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	300ppm	0	0	0	0	0	0	1	1	1	1	2	2	1	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	0	0
	150ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	1	2	1	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0	1	0	0	1	1	1	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
FROG BELLY	Control	1	1	1	1	1	1	0	1	1	0	0	0	0	1
	75ppm	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	2	2	2	1	2	1
	300ppm	1	0	0	0	0	1	1	1	0	0	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	1	1	1	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	1	1	1	1	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
STEP BACK	Control	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
WASTING	Control	0	0	1	1	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
PILOERECTION	Control	0	1	3	2	1	0
	75ppm	0	1	0	0	1	1
	150ppm	1	1	0	0	0	1
	300ppm	0	0	0	0	0	1
FROG BELLY	Control	1	3	1	0	0	0
	75ppm	0	0	0	0	2	2
	150ppm	1	0	0	0	0	1
	300ppm	1	1	2	3	2	1
SOILED PERI-GENITALIA	Control	0	0	1	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	1	0
	300ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	1	0
	150ppm	0	0	0	0	0	0
	300ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	1	1	1
	300ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	1	1	2	2	2	2	2	2	2	2	2	1	1	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	1	1	0	1	1	1	2
	75ppm	1	1	0	0	0	0	0	0	0	0	1	1	1	2
	150ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	300ppm	3	3	3	2	1	1	1	2	3	3	2	2	3	3
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	1	1	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	3	4	3	3	3	2	1	1	2	2	2	2	2	2
	75ppm	2	2	0	0	0	0	0	2	2	2	2	2	3	3
	150ppm	0	0	1	3	3	3	3	2	1	2	2	3	3	3
	300ppm	3	3	4	5	5	6	5	5	5	5	5	5	4	4
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	1	1	1	1	1	1	1	1	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		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
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	300ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	3	3	3	4	4	4	3	2	2	1	0	0	0	0
	75ppm	3	2	1	2	1	1	1	1	1	3	3	2	1	4
	150ppm	3	3	3	4	2	2	1	3	3	3	3	3	4	4
	300ppm	4	3	2	3	4	5	5	5	4	4	5	4	3	3
M. EYE	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	150ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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	1	1	1	1	1	1
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	300ppm	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
CORNEAL OPACITY	Control	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	1
	300ppm	0	0	0	0	0	0
INTERNAL MASS	Control	0	2	3	3	1	1
	75ppm	4	4	3	3	4	5
	150ppm	4	2	2	3	3	6
	300ppm	4	4	4	6	4	4
M. EYE	Control	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	1
	75ppm	1	1	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	1	1	1
	300ppm	0	0	0	0	0	0
M. BREAST	Control	0	1	1	1	1	0
	75ppm	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	1	1	1	1	1	0
	300ppm	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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	75ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	150ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	300ppm	49	49	49	49	49	49	49	49	49	49	49	49	48	48

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		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	75ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	150ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	300ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	47

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		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	75ppm	50	50	50	50	50	50	49	49	49	49	49	49	49	49
	150ppm	50	50	50	50	50	50	50	50	50	50	50	50	49	49
	300ppm	47	47	47	47	47	47	47	47	47	47	47	47	47	47

(HAN190)

BAIS 4

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	75ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	150ppm	49	49	49	49	49	49	49	48	48	48	48	48	48	48
	300ppm	47	47	46	46	46	46	46	46	46	46	46	47	47	46

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	49	49	49	49	49	49	48	48	48	47	47	47	46
	75ppm	48	48	48	48	48	48	48	48	48	48	47	46	44	43	42
	150ppm	48	47	47	47	47	45	45	45	45	45	44	44	45	45	45
	300ppm	45	45	45	45	45	45	45	45	44	43	43	43	43	42	42

(HAN190)

BAIS 4

STUDY NO. : 0406
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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	1
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	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
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
NON REMARKABLE	Control	44	43	43	43	43	43	42	41	40	40	40	40	40	40
	75ppm	42	42	42	42	42	42	42	39	38	37	37	37	36	36
	150ppm	45	45	44	42	42	42	42	41	41	40	40	37	37	35
	300ppm	42	42	41	40	40	38	38	38	38	37	36	34	34	34

STUDY NO. : 0406
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	
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	300ppm	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	1	1	1	1	1	
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	300ppm	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	
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	300ppm	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	
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	300ppm	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	
	75ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	150ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
	300ppm	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	
	75ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	150ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
	300ppm	1	1	1	0	0	0	0	0	0	0	1	0	0	0	
NON REMARKABLE	Control	39	39	39	37	37	37	37	37	37	36	35	35	35	34	
	75ppm	36	36	36	35	35	34	34	32	32	30	30	29	28	26	
	150ppm	34	34	34	33	33	33	33	31	29	29	28	27	22	22	
	300ppm	34	34	35	34	32	31	31	31	30	30	29	29	28	28	

(HAN190)

BAIS 4

STUDY NO. : 0406
 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
M. HINDLIMB	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	75ppm	0	0	0	0	1	1
	150ppm	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	75ppm	1	1	1	1	1	1
	150ppm	1	1	0	0	0	0
	300ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	75ppm	0	1	0	0	0	0
	150ppm	0	0	0	0	0	2
	300ppm	0	0	0	0	0	1
NON REMARKABLE	Control	34	29	26	26	25	25
	75ppm	25	25	24	24	20	18
	150ppm	21	21	21	20	20	16
	300ppm	27	27	27	24	24	23

APPENDIX B 1

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

STUDY NO. : 0406
 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	22.9± 0.8	24.0± 0.9	24.9± 1.1	25.6± 1.2	26.0± 1.3	26.4± 1.3	27.1± 1.5
75ppm	22.9± 0.8	24.0± 0.9	24.8± 0.9	25.4± 1.1	25.6± 1.1	25.8± 1.3*	26.3± 1.5*
150ppm	22.9± 0.8	24.2± 0.8	24.9± 1.3	25.5± 0.9	26.0± 1.1	26.4± 1.0	27.1± 1.0
300ppm	22.9± 0.8	23.6± 1.1	24.6± 1.1	24.9± 1.1*	25.4± 1.2	25.6± 1.2**	26.2± 1.3*

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	13
Control	27.6± 1.4	28.2± 1.6	28.6± 1.7	29.1± 1.9	29.7± 1.9	30.7± 2.2	31.4± 2.1
75ppm	26.6± 1.6**	27.4± 1.7*	27.8± 1.8*	28.2± 1.9*	28.8± 2.0	29.7± 2.3*	30.4± 2.4
150ppm	27.4± 1.2	28.1± 1.4	28.7± 1.3	29.3± 1.4	30.0± 1.6	31.3± 1.6	31.6± 1.8
300ppm	26.6± 1.2**	27.3± 1.5**	27.5± 1.4**	28.2± 1.5*	28.4± 1.6**	29.3± 1.8**	29.7± 2.0**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	32.0± 2.5	34.6± 2.5	36.8± 2.9	38.8± 3.1	40.7± 3.5	42.1± 3.7	43.1± 3.9
75ppm	31.0± 2.4	34.0± 2.9	35.9± 3.4	38.4± 4.0	40.5± 4.4	41.5± 4.7	42.9± 4.9
150ppm	32.2± 2.0	35.3± 2.0	37.5± 2.5	39.3± 3.1	40.9± 3.4	42.3± 3.6	43.2± 4.0
300ppm	30.2± 2.3**	33.2± 2.7*	35.3± 3.3*	37.4± 3.9	39.1± 4.4	40.4± 4.7	41.1± 4.9

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
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	44.0± 4.1	45.0± 4.4	46.0± 4.2	46.8± 4.4	47.4± 4.3	48.1± 4.5	49.3± 4.6
75ppm	44.0± 5.2	45.1± 5.2	45.9± 5.1	46.7± 5.2	47.2± 5.2	48.0± 5.3	49.6± 5.6
150ppm	44.5± 4.1	45.1± 4.2	46.0± 5.3	47.3± 4.4	47.9± 4.6	48.4± 5.0	49.0± 5.2
300ppm	42.3± 5.1	43.1± 5.4	44.4± 5.6	45.1± 5.9	45.8± 5.8	46.1± 6.2	47.6± 6.1

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	50.2± 4.8	50.5± 5.5	50.0± 6.1	49.8± 6.8	49.5± 7.9	49.4± 7.6	49.1± 8.3
75ppm	50.3± 5.8	50.8± 5.9	51.0± 5.9	51.0± 6.8	51.8± 7.6	51.0± 7.3	49.7± 7.6
150ppm	50.1± 5.6	50.8± 6.2	50.9± 6.7	51.0± 7.1	51.8± 7.8	51.7± 7.6	50.8± 7.9
300ppm	48.4± 6.0	49.5± 6.0	49.2± 7.0	49.6± 6.8	50.7± 7.3	51.1± 7.2	50.8± 7.2

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
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	48.8± 8.4	48.0± 8.4	47.4± 8.0
75ppm	49.3± 8.3	49.0± 7.6	48.2± 8.2
150ppm	49.9± 8.8	48.3± 9.3	48.5± 8.1
300ppm	50.7± 7.5	49.6± 7.5	48.9± 6.7

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

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX B 2

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

STUDY NO. : 0406
 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	19.7± 0.9	20.6± 1.1	21.0± 1.0	21.6± 0.9	22.1± 1.1	22.7± 0.9
75ppm	19.1± 0.8	19.7± 1.0	20.5± 1.0	20.9± 1.0	21.7± 1.0	21.8± 1.0	22.5± 1.1
150ppm	19.1± 0.8	19.6± 0.8	20.7± 0.9	20.9± 0.9	21.6± 0.9	22.0± 0.9	22.6± 1.2
300ppm	19.1± 0.8	19.3± 0.9	20.2± 1.0	20.5± 0.9	21.4± 1.0	21.5± 1.0*	22.1± 1.0**

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

Test of Dunnett

STUDY NO. : 0406
 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	13
Control	23.1± 1.0	23.4± 1.0	23.4± 0.9	23.9± 1.1	24.1± 1.0	24.6± 1.2	24.5± 1.3
75ppm	22.8± 1.1	23.3± 1.1	23.3± 1.3	23.4± 1.1	24.0± 1.1	24.3± 1.2	24.3± 1.3
150ppm	22.8± 1.1	23.1± 1.1	23.3± 1.0	23.7± 1.1	23.9± 1.3	24.4± 1.3	24.5± 1.3
300ppm	22.4± 1.1**	22.9± 1.0	23.0± 1.0	23.4± 1.2	23.7± 1.1	23.8± 1.0**	24.0± 1.2

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	24.7± 1.0	26.4± 1.5	26.8± 1.4	27.3± 1.6	28.1± 2.1	28.7± 2.1	28.7± 1.9
75ppm	24.8± 1.3	25.9± 1.4	26.4± 1.6	27.5± 1.9	27.9± 2.2	28.2± 2.4	28.8± 2.3
150ppm	24.8± 1.3	26.1± 1.5	26.5± 1.8	27.1± 1.9	27.8± 2.1	28.6± 2.3	28.9± 2.4
300ppm	24.2± 1.2	25.8± 1.5	26.0± 1.5	26.3± 1.7*	27.4± 2.2	27.4± 2.0**	27.5± 1.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	29.1± 2.2	29.5± 2.7	29.9± 2.1	30.6± 2.6	30.5± 2.4	31.5± 2.7	32.3± 3.1
75ppm	29.6± 2.7	29.9± 2.7	30.4± 2.7	31.0± 3.0	31.6± 4.5	32.2± 3.6	32.8± 4.1
150ppm	29.6± 2.8	30.1± 3.1	31.0± 3.0	30.8± 3.0	31.2± 3.2	32.2± 3.6	32.6± 3.8
300ppm	28.4± 2.1	28.5± 2.1	28.9± 2.6	29.6± 3.2	30.0± 3.7	29.6± 2.1**	30.2± 2.4**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week		74		78		82		86		90		94	
	70													
Control	32.7± 3.7		33.7± 3.5		33.3± 3.5		33.7± 3.6		33.9± 3.8		33.6± 4.5		33.1± 3.8	
75ppm	33.1± 4.5		34.5± 4.7		34.8± 4.7		34.5± 4.5		35.4± 4.8		34.7± 5.0		34.3± 4.9	
150ppm	33.3± 4.2		34.0± 4.3		33.2± 4.3		33.8± 4.9		34.5± 4.6		34.5± 4.3		34.9± 4.6	
300ppm	30.7± 2.6*		31.8± 2.8*		32.2± 3.4		32.0± 4.3		32.8± 4.1		33.0± 3.9		32.5± 3.2	

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	33.8± 4.1	33.8± 4.2	33.4± 3.9
75ppm	35.2± 5.0	36.3± 6.2	36.2± 6.4
150ppm	35.3± 4.9	34.9± 4.3	34.6± 4.4
300ppm	32.9± 3.2	33.6± 4.1	33.0± 2.4

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. : 0406
 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	4.2± 0.2	4.1± 0.2	4.0± 0.2	4.0± 0.2	4.1± 0.2	4.2± 0.2	4.3± 0.2
75ppm	4.2± 0.3	4.1± 0.2	4.0± 0.2	4.1± 0.2	4.1± 0.3	4.3± 0.3	4.4± 0.3
150ppm	4.2± 0.3	3.9± 0.3*	4.0± 0.2	4.1± 0.2	4.2± 0.2	4.3± 0.2	4.4± 0.2
300ppm	4.1± 0.3	4.0± 0.2	4.0± 0.2	4.1± 0.3	4.1± 0.2	4.3± 0.2	4.3± 0.2

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	4.4± 0.3	4.5± 0.3	4.5± 0.3	4.6± 0.3	4.6± 0.3	4.6± 0.3	4.6± 0.3
75ppm	4.5± 0.4	4.6± 0.3	4.5± 0.3	4.6± 0.3	4.6± 0.3	4.6± 0.3	4.7± 0.3
150ppm	4.4± 0.2	4.6± 0.2	4.6± 0.2	4.6± 0.2	4.6± 0.2	4.5± 0.2	4.6± 0.2
300ppm	4.4± 0.2	4.6± 0.3	4.7± 0.2*	4.5± 0.2	4.6± 0.3	4.6± 0.3	4.6± 0.3

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	4.8± 0.3	4.7± 0.3	4.6± 0.3	4.7± 0.3	4.8± 0.3	4.8± 0.3	4.8± 0.3
75ppm	4.6± 0.3	4.7± 0.3	4.7± 0.3	4.8± 0.3	4.9± 0.3	4.9± 0.3	4.9± 0.3
150ppm	4.7± 0.2	4.8± 0.2	4.6± 0.3	4.6± 0.3	4.8± 0.3	4.8± 0.4	4.8± 0.3
300ppm	4.8± 0.3	4.8± 0.3	4.7± 0.3	4.7± 0.3	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

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	4.9± 0.3	4.9± 0.4	4.9± 0.3	5.1± 0.3	5.1± 0.3	5.1± 0.3	5.1± 0.4
75ppm	5.0± 0.3	4.9± 0.3	4.9± 0.3	5.1± 0.3	5.1± 0.4	5.2± 0.3	5.1± 0.4
150ppm	4.8± 0.3	4.7± 0.5	4.9± 0.3	5.1± 0.3	5.1± 0.3	5.1± 0.4	5.1± 0.3
300ppm	4.9± 0.3	4.8± 0.4	4.8± 0.6	5.0± 0.3	5.0± 0.5	5.0± 0.4	5.1± 0.3

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

Test of Dunnett

STUDY NO. : 0406
 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	5.3± 0.4	5.2± 0.4	5.2± 0.6	5.2± 0.5	5.1± 0.5	5.0± 0.5	5.1± 0.8
75ppm	5.3± 0.4	5.2± 0.5	5.2± 0.5	5.3± 0.5	5.2± 0.7	4.9± 0.6	5.0± 0.6
150ppm	5.2± 0.4	5.2± 0.3	5.1± 0.5	5.1± 0.5	5.1± 0.3	5.0± 0.5	5.0± 0.6
300ppm	5.3± 0.4	5.1± 0.5	5.2± 0.5	5.1± 0.4	5.2± 0.4	5.1± 0.5	5.1± 0.5

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
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	5.1± 0.6	4.9± 0.7
75ppm	4.9± 0.8	5.0± 0.8
150ppm	5.0± 0.6	4.9± 0.6
300ppm	5.0± 0.6	4.9± 0.6

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

Test of Dunnett

(HAN260)

BAIS 4

APPENDIX C 2

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

STUDY NO. : 0406
 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	3.6± 0.3	3.5± 0.3	3.6± 0.3	3.8± 0.2	4.0± 0.3	4.1± 0.3	4.2± 0.3
75ppm	3.6± 0.3	3.5± 0.3	3.6± 0.2	3.8± 0.3	3.9± 0.2	4.1± 0.3	4.2± 0.3
150ppm	3.5± 0.3	3.5± 0.2	3.6± 0.2	3.8± 0.3	4.0± 0.3	4.1± 0.3	4.3± 0.3
300ppm	3.4± 0.3**	3.5± 0.2	3.5± 0.3	3.8± 0.4	3.8± 0.3*	4.0± 0.3	4.2± 0.6

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

Test of Dunnett

STUDY NO. : 0406
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		4.3± 0.3	4.5± 0.3	4.4± 0.3	4.4± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3
75ppm		4.3± 0.3	4.5± 0.3	4.4± 0.3	4.4± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3
150ppm		4.3± 0.3	4.5± 0.3	4.4± 0.3	4.4± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3
300ppm		4.4± 0.8	4.5± 0.4	4.5± 0.6	4.4± 0.4	4.2± 0.3	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. : 0406
 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	4.4± 0.3	4.4± 0.3	4.2± 0.4	4.4± 0.4	4.5± 0.4	4.4± 0.4	4.4± 0.4
75ppm	4.4± 0.3	4.3± 0.4	4.3± 0.4	4.4± 0.4	4.5± 0.5	4.5± 0.4	4.5± 0.4
150ppm	4.4± 0.4	4.3± 0.4	4.2± 0.4	4.3± 0.4	4.4± 0.5	4.4± 0.4	4.4± 0.5
300ppm	4.5± 0.3	4.4± 0.3	4.3± 0.3	4.4± 0.4	4.5± 0.4	4.4± 0.4	4.4± 0.5

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

Test of Dunnett

STUDY NO. : 0406
 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	4.5± 0.5	4.4± 0.4	4.5± 0.5	4.5± 0.4	4.6± 0.4	4.7± 0.4	4.6± 0.7
75ppm	4.5± 0.4	4.4± 0.4	4.5± 0.5	4.5± 0.7	4.6± 0.4	4.6± 0.5	4.6± 1.0
150ppm	4.5± 0.5	4.4± 0.5	4.3± 0.4*	4.6± 0.5	4.5± 0.5	4.6± 0.5	4.6± 0.6
300ppm	4.5± 0.4	4.3± 0.4	4.4± 0.5	4.5± 0.5	4.4± 0.5	4.6± 0.3	4.4± 0.5

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0406
 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	4.8± 0.6	4.7± 0.6	4.7± 0.6	4.9± 0.7	4.6± 0.7	4.4± 0.6	4.7± 0.6
75ppm	5.0± 0.6	4.7± 0.7	4.8± 0.6	4.8± 0.5	4.6± 0.7	4.6± 1.0	4.7± 0.7
150ppm	4.8± 0.7	4.5± 0.5	4.7± 0.8	4.5± 0.6*	4.6± 0.6	4.6± 0.5	4.7± 0.6
300ppm	4.8± 0.6	4.7± 0.5	4.6± 0.9	4.6± 0.6	4.7± 0.6	4.7± 0.6	4.6± 0.5

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

Test of Dunnett

STUDY NO. : 0406
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	4.7± 0.6	4.6± 0.5
75ppm	5.0± 1.0	4.8± 0.7
150ppm	4.7± 0.7	4.6± 0.7
300ppm	4.9± 0.7	4.6± 0.4

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. : 0406
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	35	9.25±	2.25	12.8±	2.8	41.5±	8.4	45.5±	3.4	13.9±	0.8	30.7±	1.2	1808±	517
75ppm	38	9.60±	1.06	13.4±	1.1	43.1±	3.6	45.0±	2.4	14.0±	0.7	31.0±	0.7	1816±	523
150ppm	34	10.14±	1.58	14.1±	2.0	45.2±	5.9	44.7±	2.2	13.9±	0.7	31.1±	0.7	1793±	449
300ppm	40	9.52±	1.51	13.4±	1.9	43.3±	5.7	45.7±	2.6	14.2±	0.5	31.0±	0.9	1777±	463

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	35	7.70±	24.83	2±	4	31±	15	2±	2	0±	0	5±	2	58±	19	3±	15
75ppm	38	2.71±	1.95*	1±	1	31±	12	1±	1	0±	0	4±	2	62±	13	0±	1
150ppm	34	3.45±	2.61	1±	1	26±	10	2±	3	0±	0	5±	2	66±	11	0±	1
300ppm	40	3.50±	2.18	1±	1	27±	13	2±	2	0±	0	4±	2	65±	15	1±	1

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. : 0406
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	9.76±	0.67	13.8±	1.0	43.7±	2.6	44.8±	1.4	14.2±	0.4	31.6±	0.9	1241±	299
75ppm	23	9.10±	1.51	12.9±	2.5	41.7±	5.9	46.0±	2.4	14.1±	0.9	30.7±	2.5	1068±	385
150ppm	20	9.28±	1.05	13.2±	1.5	42.6±	4.0	46.1±	2.7	14.3±	0.7	31.0±	0.9*	1053±	480
300ppm	27	9.09±	1.64	13.3±	2.2	42.3±	5.9	47.3±	4.4**	14.7±	0.8**	31.3±	1.4	950±	332*

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

Test of Dunnett

(HCL070)

BAIS 4

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	27	2.88±	2.51	1±	1	22±	11	2±	2	0±	0	4±	2	69±	12	2±	3
75ppm	23	45.87±	196.24	1±	2	24±	12	2±	2	0±	0	4±	3	59±	21	10±	26
150ppm	20	2.91±	2.48	1±	2	32±	15*	1±	1	0±	0	5±	2	58±	17*	3±	6
300ppm	27	1.96±	1.17	1±	2	23±	11	2±	2	0±	0	4±	2	67±	12	2±	4

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Dunnett

(HCL070)BAIS 4

APPENDIX E 1

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

STUDY NO. : 0406
 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	36	5.3±	0.8	3.0±	0.5	1.3±	0.2	0.17±	0.17	172±	42	114±	53	38±	16
75ppm	38	5.1±	0.6	2.8±	0.4	1.3±	0.2	0.14±	0.04	179±	44	109±	46	42±	22
150ppm	34	5.2±	0.6	2.9±	0.4	1.3±	0.2	0.22±	0.47	172±	50	111±	41	36±	13
300ppm	41	4.8±	0.5**	2.8±	0.3	1.4±	0.2	0.14±	0.05	180±	45	96±	25	44±	22

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0406
 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	36	206±	79	214±	413	114±	150	694±	1116	165±	194	4±	5	82±	126
75ppm	38	200±	58	123±	216	68±	118	479±	679	129±	55	3±	3	50±	21
150ppm	34	199±	62	840±	4002	411±	1880	2828±	13994	166±	132	4±	10	65±	86
300ppm	41	185±	40	252±	1061**	107±	377**	591±	1603**	125±	59	3±	4	58±	62

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	36	26.5±	14.5	153±	2	4.3±	0.4	122±	4	9.3±	0.6	6.5±	1.0
75ppm	38	22.7±	7.0	153±	2	4.1±	0.4	123±	3	9.0±	0.5	6.3±	0.6
150ppm	34	24.5±	12.1	153±	2	4.3±	0.6	121±	3	9.1±	0.5	6.7±	1.6
300ppm	41	22.2±	6.6	153±	1	4.3±	0.3	122±	3	8.9±	0.3**	6.3±	0.8

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. : 0406
 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	5.0±	0.5	2.9±	0.3	1.4±	0.2	0.15±	0.06	134±	30	71±	21	30±	16
75ppm	23	5.3±	1.1	2.9±	0.4	1.3±	0.3	0.19±	0.25	121±	38	97±	54	51±	43
150ppm	23	4.9±	0.7	2.9±	0.3	1.4±	0.3	0.16±	0.07	133±	42	72±	24	36±	23
300ppm	29	4.8±	0.4	2.9±	0.2	1.6±	0.4	0.17±	0.09	126±	37	72±	16	40±	31

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0406
 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	142±	35	99±	43	39±	16	408±	515	182±	75	2±	2	64±	24
75ppm	23	189±	87	316±	780	223±	656	1597±	4222	226±	306	10±	35	109±	178
150ppm	23	143±	42	100±	40	43±	19	542±	629	134±	50	3±	2	98±	112
300ppm	29	145±	32	107±	101	44±	38	464±	563	277±	299	3±	4	83±	55

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	27	16.9±	2.8	151±	2	4.0±	0.5	123±	4	9.1±	0.4	6.4±	1.0
75ppm	23	28.9±	40.3	152±	4	4.6±	1.8	123±	3	9.5±	0.6*	7.8±	4.2
150ppm	23	20.3±	12.2	152±	2	4.2±	0.7	124±	4	9.2±	0.5	6.4±	0.9
300ppm	29	21.0±	18.9	152±	2	4.2±	0.8	124±	3	9.0±	0.3	6.3±	1.7

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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

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+
Control	36	0	5	3	8	11	9	0		0	2	24	10	0	0		36	0	0	0	0	0		13	21	2	0	0	0		35	0	0	0	1
75ppm	38	0	5	4	12	15	2	0		0	1	27	9	1	0		38	0	0	0	0	0		13	24	1	0	0	0		37	0	0	0	1
150ppm	36	0	3	3	5	13	12	0		0	1	28	7	0	0		36	0	0	0	0	0		13	23	0	0	0	0		34	0	0	0	2
300ppm	42	0	6	3	7	19	7	0		0	2	28	12	0	0		42	0	0	0	0	0		10	29	3	0	0	0		41	0	0	0	1

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0406

URINALYSIS

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	36	36	0	0	0	0	
75ppm	38	38	0	0	0	0	
150ppm	36	36	0	0	0	0	
300ppm	42	42	0	0	0	0	

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. : 0406

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	
Control	28	0	1	2	3	12	8	2		0	11	14	3	0	0		28	0	0	0	0	0		13	14	1	0	0	0		25	1	0	1	1	
75ppm	25	0	2	5	3	7	8	0		0	8	12	4	0	1		25	0	0	0	0	0		13	9	1	2	0	0		22	2	0	1	0	
150ppm	23	0	1	2	5	8	5	2		0	7	10	6	0	0		23	0	0	0	0	0		6	13	4	0	0	0		17	0	0	4	2	
300ppm	29	0	0	2	0	8	14	5		0	14	9	4	2	0		29	0	0	0	0	0		10	15	2	2	0	0		25	1	1	1	1	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0406

ANIMAL : MOUSE Crj:BDF1

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
Control	28	28 0 0 0 0
75ppm	25	25 0 0 0 0
150ppm	23	23 0 0 0 0
300ppm	29	29 0 0 0 0

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. : 0406
 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		75ppm		150ppm		300ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		0	(0)	0	(0)	1	(2)	0	(0)
	erosion		0	(0)	1	(2)	0	(0)	0	(0)
	scab		0	(0)	2	(4)	1	(2)	1	(2)
subcutis	edema		2	(4)	0	(0)	0	(0)	0	(0)
	jaundice		1	(2)	0	(0)	0	(0)	0	(0)
	mass		3	(6)	1	(2)	1	(2)	0	(0)
lung	red		1	(2)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	red zone		1	(2)	0	(0)	1	(2)	0	(0)
	edema		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		7	(14)	9	(18)	13	(26)	11	(22)
lymph node	enlarged		7	(14)	9	(18)	3	(6)	3	(6)
thymus	atrophic		0	(0)	1	(2)	1	(2)	0	(0)
spleen	enlarged		2	(4)	6	(12)	2	(4)	1	(2)
	atrophic		0	(0)	1	(2)	0	(0)	0	(0)
	white zone		0	(0)	1	(2)	0	(0)	1	(2)
	black zone		0	(0)	0	(0)	2	(4)	1	(2)
	nodule		0	(0)	3	(6)	1	(2)	1	(2)
heart	nodule		0	(0)	0	(0)	1	(2)	0	(0)
tongue	nodule		0	(0)	0	(0)	1	(2)	0	(0)
salivary gl	nodule		2	(4)	0	(0)	0	(0)	0	(0)
forestomach	nodule		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
stomach	nodule		0	(0)	0	(0)	1	(2)	0	(0)
duodenum	nodule		1	(2)	0	(0)	0	(0)	0	(0)
small intes	nodule		0	(0)	0	(0)	0	(0)	1	(2)
liver	enlarged		2	(4)	0	(0)	1	(2)	1	(2)
	pale		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		6	(12)	2	(4)	1	(2)	1	(2)
	red zone		1	(2)	3	(6)	2	(4)	1	(2)
	nodule		23	(46)	16	(32)	23	(46)	10	(20)
	cyst		1	(2)	0	(0)	0	(0)	0	(0)
pancreas	nodule		1	(2)	2	(4)	0	(0)	0	(0)
kidney	white zone		1	(2)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	0	(0)	2	(4)	0	(0)
	deformed		1	(2)	0	(0)	0	(0)	0	(0)
	hydronephrosis		4	(8)	1	(2)	2	(4)	7	(14)
urin bladd	nodule		1	(2)	1	(2)	2	(4)	0	(0)
	adhesion		0	(0)	0	(0)	1	(2)	0	(0)
	urine:marked retention		1	(2)	1	(2)	1	(2)	2	(4)
	Urine:white		0	(0)	0	(0)	0	(0)	1	(2)
pituitary	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	0	(0)
thyroid	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
adrenal	enlarged		0	(0)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
epididymis	nodule		1	(2)	0	(0)	0	(0)	1	(2)
semin ves	red zone		1	(2)	0	(0)	0	(0)	0	(0)
	adhesion		0	(0)	1	(2)	0	(0)	0	(0)
prep/cli gl	nodule		0	(0)	0	(0)	2	(4)	1	(2)
brain	nodule		0	(0)	0	(0)	1	(2)	0	(0)
Harder gl	enlarged		0	(0)	0	(0)	1	(2)	2	(4)
	nodule		1	(2)	1	(2)	2	(4)	3	(6)
vertebra	nodule		1	(2)	0	(0)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(2)	0	(0)	0	(0)
mediastinum	mass		1	(2)	1	(2)	0	(0)	0	(0)
peritoneum	nodule		0	(0)	1	(2)	0	(0)	0	(0)
retroperit	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
	mass		1	(2)	0	(0)	1	(2)	1	(2)
abdominal c	ascites		3	(6)	4	(8)	4	(8)	1	(2)
thoracic ca	hemorrhage		0	(0)	0	(0)	1	(2)	0	(0)
	pleural fluid		3	(6)	3	(6)	2	(4)	1	(2)
other	tail:nodule		0	(0)	0	(0)	0	(0)	1	(2)
whole body	anemic		0	(0)	1	(2)	0	(0)	0	(0)

APPENDIX G 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			13	(%)	12	(%)	15	(%)	8	(%)
skin/app	nodule		0	(0)	0	(0)	1	(7)	0	(0)
	scab		0	(0)	1	(8)	0	(0)	0	(0)
subcutis	edema		1	(8)	0	(0)	0	(0)	0	(0)
	mass		2	(15)	0	(0)	0	(0)	0	(0)
lung	red		1	(8)	0	(0)	0	(0)	1	(13)
	red zone		1	(8)	0	(0)	1	(7)	0	(0)
	edema		0	(0)	1	(8)	0	(0)	0	(0)
	nodule		1	(8)	3	(25)	3	(20)	2	(25)
lymph node	enlarged		1	(8)	4	(33)	1	(7)	0	(0)
thymus	atrophic		0	(0)	1	(8)	1	(7)	0	(0)
spleen	enlarged		1	(8)	4	(33)	2	(13)	0	(0)
	atrophic		0	(0)	1	(8)	0	(0)	0	(0)
	black zone		0	(0)	0	(0)	1	(7)	0	(0)
	nodule		0	(0)	1	(8)	0	(0)	0	(0)
heart	nodule		0	(0)	0	(0)	1	(7)	0	(0)
tongue	nodule		0	(0)	0	(0)	1	(7)	0	(0)
salivary gl	nodule		1	(8)	0	(0)	0	(0)	0	(0)
stomach	nodule		0	(0)	0	(0)	1	(7)	0	(0)
liver	enlarged		1	(8)	0	(0)	1	(7)	0	(0)
	pale		0	(0)	0	(0)	0	(0)	1	(13)
	white zone		5	(38)	1	(8)	1	(7)	0	(0)
	nodule		8	(62)	5	(42)	9	(60)	1	(13)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			13	(%)	12	(%)	15	(%)	8	(%)
kidney	white zone		0	(0)	0	(0)	1	(7)	0	(0)
	nodule		0	(0)	0	(0)	2	(13)	0	(0)
	hydronephrosis		1	(8)	1	(8)	2	(13)	2	(25)
urin bladd	nodule		0	(0)	0	(0)	1	(7)	0	(0)
	adhesion		0	(0)	0	(0)	1	(7)	0	(0)
	urine:marked retention		0	(0)	1	(8)	1	(7)	2	(25)
	Urine:white		0	(0)	0	(0)	0	(0)	1	(13)
pituitary	enlarged		0	(0)	0	(0)	1	(7)	0	(0)
thyroid	enlarged		0	(0)	0	(0)	0	(0)	1	(13)
adrenal	enlarged		0	(0)	1	(8)	0	(0)	0	(0)
epididymis	nodule		1	(8)	0	(0)	0	(0)	0	(0)
semin ves	adhesion		0	(0)	1	(8)	0	(0)	0	(0)
prep/cli gl	nodule		0	(0)	0	(0)	1	(7)	0	(0)
brain	nodule		0	(0)	0	(0)	1	(7)	0	(0)
Harder gl	nodule		0	(0)	0	(0)	1	(7)	0	(0)
mediastinum	mass		0	(0)	1	(8)	0	(0)	0	(0)
peritoneum	nodule		0	(0)	1	(8)	0	(0)	0	(0)
retroperit	mass		1	(8)	0	(0)	0	(0)	1	(13)
abdominal c	ascites		2	(15)	4	(33)	4	(27)	1	(13)
thoracic ca	hemorrhage		0	(0)	0	(0)	1	(7)	0	(0)
	pleural fluid		1	(8)	3	(25)	2	(13)	1	(13)
whole body	anemic		0	(0)	1	(8)	0	(0)	0	(0)

APPENDIX G 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
 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		75ppm		150ppm		300ppm	
			37	(%)	38	(%)	35	(%)	42	(%)
skin/app	erosion		0	(0)	1	(3)	0	(0)	0	(0)
	scab		0	(0)	1	(3)	1	(3)	1	(2)
subcutis	edema		1	(3)	0	(0)	0	(0)	0	(0)
	jaundice		1	(3)	0	(0)	0	(0)	0	(0)
	mass		1	(3)	1	(3)	1	(3)	0	(0)
lung	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		6	(16)	6	(16)	10	(29)	9	(21)
lymph node	enlarged		6	(16)	5	(13)	2	(6)	3	(7)
spleen	enlarged		1	(3)	2	(5)	0	(0)	1	(2)
	white zone		0	(0)	1	(3)	0	(0)	1	(2)
	black zone		0	(0)	0	(0)	1	(3)	1	(2)
	nodule		0	(0)	2	(5)	1	(3)	1	(2)
salivary gl	nodule		1	(3)	0	(0)	0	(0)	0	(0)
forestomach	nodule		0	(0)	0	(0)	0	(0)	1	(2)
duodenum	nodule		1	(3)	0	(0)	0	(0)	0	(0)
small intes	nodule		0	(0)	0	(0)	0	(0)	1	(2)
liver	enlarged		1	(3)	0	(0)	0	(0)	1	(2)
	white zone		1	(3)	1	(3)	0	(0)	1	(2)
	red zone		1	(3)	3	(8)	2	(6)	1	(2)
	nodule		15	(41)	11	(29)	14	(40)	9	(21)
	cyst		1	(3)	0	(0)	0	(0)	0	(0)
pancreas	nodule		1	(3)	2	(5)	0	(0)	0	(0)

STUDY NO. : 0406
 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		75ppm		150ppm		300ppm	
			37	(%)	38	(%)	35	(%)	42	(%)
kidney	white zone		1	(3)	0	(0)	0	(0)	0	(0)
	deformed		1	(3)	0	(0)	0	(0)	0	(0)
	hydronephrosis		3	(8)	0	(0)	0	(0)	5	(12)
urin bladd	nodule		1	(3)	1	(3)	1	(3)	0	(0)
	urine:marked retention		1	(3)	0	(0)	0	(0)	0	(0)
pituitary	nodule		0	(0)	0	(0)	1	(3)	0	(0)
epididymis	nodule		0	(0)	0	(0)	0	(0)	1	(2)
semin ves	red zone		1	(3)	0	(0)	0	(0)	0	(0)
prep/cli gl	nodule		0	(0)	0	(0)	1	(3)	1	(2)
Harder gl	enlarged		0	(0)	0	(0)	1	(3)	2	(5)
	nodule		1	(3)	1	(3)	1	(3)	3	(7)
vertebra	nodule		1	(3)	0	(0)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(3)	0	(0)	0	(0)
mediastinum	mass		1	(3)	0	(0)	0	(0)	0	(0)
retroperit	enlarged		1	(3)	0	(0)	0	(0)	0	(0)
	mass		0	(0)	0	(0)	1	(3)	0	(0)
abdominal c	ascites		1	(3)	0	(0)	0	(0)	0	(0)
thoracic ca	pleural fluid		2	(5)	0	(0)	0	(0)	0	(0)
other	tail:nodule		0	(0)	0	(0)	0	(0)	1	(2)

APPENDIX G 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
 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		75ppm		150ppm		300ppm	
			50	(%)	50	(%)	50	(%)	49	(%)
skin/app	nodule		0	(0)	1	(2)	0	(0)	1	(2)
subcutis	edema		6	(12)	5	(10)	2	(4)	4	(8)
	mass		4	(8)	0	(0)	1	(2)	0	(0)
lung	yellow		0	(0)	0	(0)	1	(2)	0	(0)
	edema		1	(2)	0	(0)	1	(2)	0	(0)
	nodule		2	(4)	5	(10)	4	(8)	3	(6)
lymph node	enlarged		10	(20)	14	(28)	13	(26)	4	(8)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
spleen	enlarged		7	(14)	13	(26)	12	(24)	6	(12)
	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	black zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	1	(2)	2	(4)	1	(2)
	deformed		0	(0)	0	(0)	1	(2)	0	(0)
	accentuation of white pulp		0	(0)	0	(0)	1	(2)	0	(0)
forestomach	nodule		0	(0)	1	(2)	0	(0)	0	(0)
gl stomach	nodule		0	(0)	0	(0)	1	(2)	0	(0)
stomach	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	gas		0	(0)	0	(0)	1	(2)	0	(0)
small intes	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	dilated		0	(0)	0	(0)	0	(0)	1	(2)
	gas		0	(0)	0	(0)	1	(2)	0	(0)
large intes	dilated		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			50	(%)	50	(%)	50	(%)	49	(%)
liver	enlarged		5	(10)	7	(14)	5	(10)	4	(8)
	white zone		3	(6)	7	(14)	5	(10)	6	(12)
	red zone		6	(12)	0	(0)	5	(10)	6	(12)
	nodule		5	(10)	4	(8)	5	(10)	6	(12)
	cyst		0	(0)	1	(2)	0	(0)	0	(0)
	rough		0	(0)	0	(0)	1	(2)	0	(0)
	nodular		0	(0)	0	(0)	1	(2)	0	(0)
	adhesion		0	(0)	1	(2)	0	(0)	0	(0)
pancreas	nodule		1	(2)	1	(2)	2	(4)	2	(4)
kidney	enlarged		1	(2)	1	(2)	0	(0)	1	(2)
	atrophic		0	(0)	0	(0)	1	(2)	0	(0)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		1	(2)	0	(0)	1	(2)	0	(0)
	deformed		0	(0)	2	(4)	0	(0)	0	(0)
	hydronephrosis		1	(2)	5	(10)	2	(4)	3	(6)
urin bladd	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	urine:marked retention		0	(0)	1	(2)	0	(0)	0	(0)
pituitary	enlarged		4	(8)	4	(8)	6	(12)	1	(2)
	nodule		3	(6)	7	(14)	3	(6)	2	(4)
adrenal	enlarged		0	(0)	1	(2)	0	(0)	0	(0)
ovary	enlarged		5	(10)	5	(10)	8	(16)	5	(10)

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
			50 (%)	50 (%)	50 (%)	49 (%)
ovary	cyst		14 (28)	9 (18)	8 (16)	7 (14)
uterus	enlarged		1 (2)	1 (2)	0 (0)	0 (0)
	nodule		14 (28)	13 (26)	15 (30)	17 (35)
	nodular		0 (0)	0 (0)	1 (2)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	0 (0)	1 (2)
eye	turbid		0 (0)	0 (0)	1 (2)	0 (0)
Harder gl	enlarged		0 (0)	1 (2)	1 (2)	1 (2)
	nodule		2 (4)	1 (2)	1 (2)	1 (2)
bone	nodule		0 (0)	0 (0)	0 (0)	1 (2)
mediastinum	mass		4 (8)	2 (4)	3 (6)	2 (4)
peritoneum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	thick		1 (2)	1 (2)	1 (2)	1 (2)
retroperit	mass		1 (2)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		0 (0)	1 (2)	2 (4)	0 (0)
	ascites		9 (18)	8 (16)	11 (22)	6 (12)
mesenterium	nodule		0 (0)	1 (2)	0 (0)	0 (0)
thoracic ca	pleural fluid		8 (16)	12 (24)	9 (18)	8 (16)
	ascites		0 (0)	0 (0)	0 (0)	1 (2)
other	hindlimb:nodule		0 (0)	0 (0)	2 (4)	0 (0)
whole body	anemic		0 (0)	1 (2)	0 (0)	0 (0)

APPENDIX G 5

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	75ppm	150ppm	300ppm
			23 (%)	25 (%)	26 (%)	20 (%)
skin/app	nodule		0 (0)	0 (0)	0 (0)	1 (5)
subcutis	edema		6 (26)	4 (16)	2 (8)	4 (20)
	mass		2 (9)	0 (0)	1 (4)	0 (0)
lung	yellow		0 (0)	0 (0)	1 (4)	0 (0)
	edema		1 (4)	0 (0)	1 (4)	0 (0)
	nodule		1 (4)	3 (12)	1 (4)	1 (5)
lymph node	enlarged		6 (26)	10 (40)	6 (23)	1 (5)
	nodule		0 (0)	1 (4)	0 (0)	0 (0)
spleen	enlarged		4 (17)	8 (32)	6 (23)	3 (15)
	nodule		0 (0)	1 (4)	1 (4)	0 (0)
	deformed		0 (0)	0 (0)	1 (4)	0 (0)
	accentuation of white pulp		0 (0)	0 (0)	1 (4)	0 (0)
gl stomach	nodule		0 (0)	0 (0)	1 (4)	0 (0)
stomach	nodule		1 (4)	0 (0)	0 (0)	0 (0)
	gas		0 (0)	0 (0)	1 (4)	0 (0)
small intes	nodule		0 (0)	1 (4)	0 (0)	0 (0)
	dilated		0 (0)	0 (0)	0 (0)	1 (5)
	gas		0 (0)	0 (0)	1 (4)	0 (0)
large intes	dilated		0 (0)	0 (0)	0 (0)	1 (5)
liver	enlarged		5 (22)	5 (20)	4 (15)	4 (20)
	white zone		3 (13)	5 (20)	3 (12)	6 (30)
	red zone		1 (4)	0 (0)	1 (4)	1 (5)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		75ppm		150ppm		300ppm	
			23	(%)	25	(%)	26	(%)	20	(%)
liver	nodule		1	(4)	2	(8)	2	(8)	6	(30)
	cyst		0	(0)	1	(4)	0	(0)	0	(0)
	nodular		0	(0)	0	(0)	1	(4)	0	(0)
	adhesion		0	(0)	1	(4)	0	(0)	0	(0)
pancreas	nodule		1	(4)	1	(4)	1	(4)	1	(5)
kidney	enlarged		1	(4)	0	(0)	0	(0)	1	(5)
	red zone		0	(0)	1	(4)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	1	(4)	0	(0)
	deformed		0	(0)	2	(8)	0	(0)	0	(0)
	hydronephrosis		1	(4)	1	(4)	2	(8)	1	(5)
urin bladd	white zone		1	(4)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(5)
	urine:marked retention		0	(0)	1	(4)	0	(0)	0	(0)
pituitary	enlarged		1	(4)	1	(4)	5	(19)	1	(5)
	nodule		0	(0)	1	(4)	0	(0)	0	(0)
adrenal	enlarged		0	(0)	1	(4)	0	(0)	0	(0)
ovary	enlarged		5	(22)	5	(20)	6	(23)	4	(20)
	cyst		6	(26)	2	(8)	1	(4)	1	(5)
uterus	enlarged		1	(4)	1	(4)	0	(0)	0	(0)
	nodule		8	(35)	7	(28)	8	(31)	10	(50)
	nodular		0	(0)	0	(0)	1	(4)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	0	(0)	1	(5)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			23	(%)	25	(%)	26	(%)	20	(%)
Harder gl	enlarged		0	(0)	1	(4)	0	(0)	0	(0)
	nodule		1	(4)	0	(0)	0	(0)	0	(0)
bone	nodule		0	(0)	0	(0)	0	(0)	1	(5)
mediastinum	mass		4	(17)	2	(8)	3	(12)	2	(10)
peritoneum	nodule		1	(4)	0	(0)	0	(0)	0	(0)
	thick		1	(4)	1	(4)	1	(4)	1	(5)
retroperit	mass		1	(4)	0	(0)	0	(0)	0	(0)
abdominal c	hemorrhage		0	(0)	1	(4)	2	(8)	0	(0)
	ascites		8	(35)	6	(24)	8	(31)	6	(30)
thoracic ca	pleural fluid		6	(26)	10	(40)	6	(23)	6	(30)
	ascites		0	(0)	0	(0)	0	(0)	1	(5)
other	hindlimb:nodule		0	(0)	0	(0)	2	(8)	0	(0)
whole body	anemic		0	(0)	1	(4)	0	(0)	0	(0)

(HPT080)

BAIS 4

APPENDIX G 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
			27 (%)	25 (%)	24 (%)	29 (%)
skin/app	nodule		0 (0)	1 (4)	0 (0)	0 (0)
subcutis	edema		0 (0)	1 (4)	0 (0)	0 (0)
	mass		2 (7)	0 (0)	0 (0)	0 (0)
lung	nodule		1 (4)	2 (8)	3 (13)	2 (7)
lymph node	enlarged		4 (15)	4 (16)	7 (29)	3 (10)
spleen	enlarged		3 (11)	5 (20)	6 (25)	3 (10)
	white zone		0 (0)	1 (4)	0 (0)	0 (0)
	black zone		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	1 (4)	1 (3)
forestomach	nodule		0 (0)	1 (4)	0 (0)	0 (0)
liver	enlarged		0 (0)	2 (8)	1 (4)	0 (0)
	white zone		0 (0)	2 (8)	2 (8)	0 (0)
	red zone		5 (19)	0 (0)	4 (17)	5 (17)
	nodule		4 (15)	2 (8)	3 (13)	0 (0)
	rough		0 (0)	0 (0)	1 (4)	0 (0)
pancreas	nodule		0 (0)	0 (0)	1 (4)	1 (3)
kidney	enlarged		0 (0)	1 (4)	0 (0)	0 (0)
	atrophic		0 (0)	0 (0)	1 (4)	0 (0)
	nodule		1 (4)	0 (0)	0 (0)	0 (0)
	hydronephrosis		0 (0)	4 (16)	0 (0)	2 (7)
pituitary	enlarged		3 (11)	3 (12)	1 (4)	0 (0)
	nodule		3 (11)	6 (24)	3 (13)	2 (7)

STUDY NO. : 0406
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		75ppm		150ppm		300ppm	
			27	(%)	25	(%)	24	(%)	29	(%)
ovary	enlarged		0	(0)	0	(0)	2	(8)	1	(3)
	cyst		8	(30)	7	(28)	7	(29)	6	(21)
uterus	nodule		6	(22)	6	(24)	7	(29)	7	(24)
eye	turbid		0	(0)	0	(0)	1	(4)	0	(0)
Harder gl	enlarged		0	(0)	0	(0)	1	(4)	1	(3)
	nodule		1	(4)	1	(4)	1	(4)	1	(3)
abdominal c	ascites		1	(4)	2	(8)	3	(13)	0	(0)
mesenterium	nodule		0	(0)	1	(4)	0	(0)	0	(0)
thoracic ca	pleural fluid		2	(7)	2	(8)	3	(13)	2	(7)

(HPT080)

BAIS 4

APPENDIX H 1

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

STUDY NO. : 0406
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	37	43.1± 8.6	0.010±	0.003	0.214±	0.043	0.229±	0.024	0.239±	0.076	0.659±	0.089
75ppm	38	44.1± 8.1	0.010±	0.003	0.202±	0.034	0.225±	0.023	0.263±	0.181	0.617±	0.046*
150ppm	35	44.1± 8.0	0.011±	0.004	0.217±	0.036	0.226±	0.025	0.255±	0.090	0.641±	0.067
300ppm	42	45.0± 6.9	0.010±	0.003	0.205±	0.031	0.223±	0.023	0.254±	0.110	0.743±	0.320

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0406
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	37	0.129±	0.098	2.017±	1.027	0.457±	0.019
75ppm	38	0.147±	0.153	1.817±	0.526	0.456±	0.013
150ppm	35	0.090±	0.049	1.817±	0.578	0.455±	0.017
300ppm	42	0.112±	0.078	1.798±	0.814	0.454±	0.016

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. : 0406
 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	29.2± 3.6	0.015± 0.003	0.079± 0.041	0.180± 0.019	0.215± 0.029	0.448± 0.059
75ppm	25	32.1± 6.4	0.014± 0.003	0.071± 0.036	0.200± 0.041	0.255± 0.098	0.614± 0.355**
150ppm	24	30.7± 4.2	0.013± 0.003	0.105± 0.130	0.187± 0.024	0.248± 0.087	0.462± 0.068
300ppm	29	29.0± 2.1	0.014± 0.003	0.082± 0.049	0.176± 0.019	0.226± 0.036	0.485± 0.279

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0406
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		BRATN	
Control	27	0.177±	0.164	1.453±	0.227	0.480±	0.022
75ppm	25	0.496±	0.909	2.464±	2.253**	0.481±	0.016
150ppm	24	0.275±	0.301	1.934±	1.248	0.479±	0.015
300ppm	29	0.304±	0.577	1.502±	0.361	0.471±	0.017
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. : 0406
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	37	43.1± 8.6	0.024± 0.008	0.516± 0.134	0.548± 0.107	0.570± 0.189	1.579± 0.348
75ppm	38	44.1± 8.1	0.025± 0.009	0.474± 0.116	0.526± 0.110	0.631± 0.553	1.444± 0.292
150ppm	35	44.1± 8.0	0.027± 0.014	0.509± 0.128	0.530± 0.130	0.622± 0.340	1.505± 0.373
300ppm	42	45.0± 6.9	0.022± 0.009	0.468± 0.111	0.506± 0.084	0.573± 0.239	1.752± 1.152

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0406
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	37	0.318± 0.272	4.790± 2.186	1.102± 0.223
75ppm	38	0.355± 0.396	4.259± 1.587	1.069± 0.209
150ppm	35	0.220± 0.151	4.308± 1.907	1.071± 0.235
300ppm	42	0.263± 0.217	4.072± 2.049	1.035± 0.172

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. : 0406
 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	29.2± 3.6	0.051± 0.013	0.280± 0.187	0.621± 0.056	0.743± 0.124	1.542± 0.200
75ppm	25	32.1± 6.4	0.045± 0.012	0.220± 0.093	0.634± 0.134	0.801± 0.261	1.997± 1.347
150ppm	24	30.7± 4.2	0.042± 0.012*	0.353± 0.457	0.618± 0.095	0.825± 0.342	1.521± 0.251
300ppm	29	29.0± 2.1	0.049± 0.010	0.280± 0.162	0.610± 0.072	0.782± 0.118	1.688± 1.020

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0406
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	0.597± 0.522	4.975± 0.536	1.663± 0.202
75ppm	25	1.485± 2.578	7.420± 5.535	1.550± 0.271
150ppm	24	0.880± 0.914	6.188± 3.255	1.588± 0.209
300ppm	29	1.085± 2.214	5.206± 1.368	1.633± 0.131

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

Test of Dunnett

(HCL042)

BAIS 4

APPENDIX J 1

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control 50				75ppm 50				150ppm 50				300ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																					
skin/app	ulcer	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	scar:dermis	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																					
nasal cavit	exudate	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	thrombus	<50>				<50>				<50>				<50>				<50>			
		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)	(0)
	eosinophilic change:olfactory epithelium	<50>				<50>				<50>				<50>				<50>			
		8	0	0	0	12	0	0	0	11	0	0	0	5	1	0	0	5	1	0	0
		(16)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(10)	(2)	(0)	(0)	(10)	(2)	(0)	(0)
	inflammation:respiratory epithelium	<50>				<50>				<50>				<50>				<50>			
		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)
	respiratory metaplasia:olfactory epithelium	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	<50>																	
	respiratory metaplasia:gland		5	0	0	0	6	0	0	0	6	0	0	0	5	0	0	0
			(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	<50>																	
	atrophy:olfactory epithelium		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung	<50>																	
	edema		0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	<50>																	
	thrombus		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	<50>																	
	inflammatory infiltration		1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	<50>																	
	perivascular 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)
	<50>																	
	accumulation of foamy cells		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	<50>																	
	bronchiolar-alveolar cell hyperplasia		8	0	0	0	9	0	0	0	5	0	0	0	7	0	0	0
			(16)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																		
< a > a : Number of animals examined at the site																		
b b : Number of animals with lesion																		
(c) c : b / a * 100																		
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow	angiectasis		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node	hemorrhage		<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)
thymus	atrophy		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
spleen	atrophy		<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)
	deposit of melanin		0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		4	5	1	0	3	3	0	0	3	3	0	0	3	2	0	0
			(8)	(10)	(2)	(0)	(6)	(6)	(0)	(0)	(6)	(6)	(0)	(0)	(6)	(4)	(0)	(0)
	hyperplasia:vascular		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			50				50				50				50			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Hematopoietic system}																		
spleen	follicular hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	
{Circulatory system}																		
heart	thrombus		<50>				<50>				<50>				<50>			
		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)	0 (0)	
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		mineralization		3 (6)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	degeneration			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		inflammatory cell nest		1 (2)	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)
	myocardial fibrosis			2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	arteritis		<50>				<50>				<50>				<50>			
		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)	2 (4)	0 (0)	0 (0)	0 (0)
artery/aort	arteritis		<50>				<50>				<50>				<50>			
		1 (2)	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)	
{Digestive system}																		
tooth	dysplasia		<50>				<50>				<50>				<50>			
		0 (0)	1 (2)	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)
tongue	mineralization		<50>				<50>				<50>				<50>			
		2 (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)	
	arteritis		1 (2)	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)
salivary gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm			
		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}																		
salivary gl	xanthogranuloma		<50>				<50>				<50>				<50>			
		1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	ulcer:forestomach		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	erosion:glandular stomach		1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hyperplasia:glandular stomach		41	0	0	0	39	0	0	0	38	0	0	0	41	0	0	0
			(82)	(0)	(0)	(0)	(78)	(0)	(0)	(0)	(76)	(0)	(0)	(0)	(82)	(0)	(0)	(0)
liver	angiectasis		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
necrosis:focal		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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study				Control				75ppm				150ppm				300ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<50>				<50>				<50>				<50>				<50>			
	clear cell focus	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	basophilic cell focus	2	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	3	1	0	0
		(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(2)	(0)	(0)
	bile ductular proliferation	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)
	biliary cyst	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	infarct	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyaline droplet	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(4)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study				Control 50				75ppm 50				150ppm 50				300ppm 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>			
	inflammatory polyp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	
	hydronephrosis	1	1	1	0	0	0	1	0	0	1	1	0	0	1	1	0	0	1	5	1
		(2)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(10)	(2)
	mineralization:papilla	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolic change:proximal tubule	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd		<50>				<50>				<50>				<50>				<50>			
	inflammation	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(2)	(0)
	xanthogranuloma	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
urethra		<50>				<50>				<50>				<50>				<50>			
	inflammation	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)

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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study				Control				75ppm				150ppm				300ppm			
		Grade				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
pituitary		<50>				<49>				<49>				<49>				<50>			
	hyperplasia	1	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	Rathke pouch	3	0	0	0	5	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
thyroid		<50>				<49>				<49>				<49>				<50>			
	C-cell hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
parathyroid		<50>				<49>				<49>				<49>				<50>			
	cyst	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
adrenal		<50>				<50>				<50>				<50>				<50>			
	spindle-cell hyperplasia	13	0	0	0	19	0	0	0	12	0	0	0	15	0	0	0	15	0	0	0
		(26)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	hyperplasia:cortical cell	4	0	0	0	8	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
		(8)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	focal fatty change:cortex	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)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 50				75ppm 50				150ppm 50				300ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																					
testis		<50>				<50>				<50>				<50>				<50>			
	atrophy	8 (16)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	13 (26)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)
	mineralization	41 (82)	6 (12)	0 (0)	0 (0)	40 (80)	7 (14)	0 (0)	0 (0)	40 (80)	7 (14)	0 (0)	0 (0)	43 (86)	5 (10)	0 (0)	0 (0)	43 (86)	5 (10)	0 (0)	0 (0)
epididymis		<50>				<50>				<50>				<50>				<50>			
	mineralization	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)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammation	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	spermatogenic granuloma	3 (6)	2 (4)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
semin ves		<50>				<50>				<50>				<50>				<50>			
	inflammation	0 (0)	4 (8)	1 (2)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
prostate		<50>				<50>				<50>				<50>				<50>			
	inflammation	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				75ppm 50				150ppm 50				300ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
mammary gl	duct ectasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
prep/cli gl	duct ectasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
{Nervous system}																		
brain	mineralization		<50>				<50>				<50>				<50>			
		26 (52)	0 (0)	0 (0)	0 (0)	27 (54)	0 (0)	0 (0)	0 (0)	25 (50)	0 (0)	0 (0)	0 (0)	28 (56)	0 (0)	0 (0)	0 (0)	
{Special sense organs/appendage}																		
Harder gl	degeneration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Body cavities}																		
retroperit	hemorrhage		<50>				<50>				<50>				<50>			
		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)	(0)	(0)
mesenterium	hemorrhage		<50>				<50>				<50>				<50>			
		0	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)

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)

BATS4

APPENDIX J 2

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 13				75ppm 12				150ppm 15				300ppm 8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app	ulcer		<13>				<12>				<15>				< 8>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	scar:dermis																	
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Respiratory system}																		
nasal cavit	thrombus		<13>				<12>				<15>				< 8>			
			1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium																	
			2 (15)	0 (0)	0 (0)	0 (0)	2 (17)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland																	
			3 (23)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung	edema		<13>				<12>				<15>				< 8>			
			0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 13				75ppm 12				150ppm 15				300ppm 8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung	thrombus		<13>				<12>				<15>				< 8>			
			0	1	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)
	inflammatory infiltration		1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(8)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
{Hematopoietic system}																		
thymus	atrophy		<13>				<12>				<15>				< 8>			
			0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)
spleen	atrophy		<13>				<12>				<15>				< 8>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of melanin		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 13				75ppm 12				150ppm 15				300ppm 8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen	extramedullary hematopoiesis		<13>				<12>				<15>				< 8>			
		1	4	1	0	1	2	0	0	2	3	0	0	0	2	0	0	
		(8)	(31)	(8)	(0)	(8)	(17)	(0)	(0)	(13)	(20)	(0)	(0)	(0)	(25)	(0)	(0)	
{Circulatory system}																		
heart	thrombus		<13>				<12>				<15>				< 8>			
		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)	(13)	(0)	(0)	(0)	
	necrosis:focal		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	mineralization		2	1	0	0	3	0	0	0	2	0	0	0	0	0	0	
			(15)	(8)	(0)	(0)	(25)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory cell nest		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)	(13)	(0)	(0)	
	myocardial fibrosis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	
	arteritis		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)	(13)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			13				12				15				8			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Circulatory system}																		
artery/aort	arteritis		<13>				<12>				<15>				< 8>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	
{Digestive system}																		
tongue	mineralization		<13>				<12>				<15>				< 8>			
		2 (15)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	
salivary gl	xanthogranuloma		<13>				<12>				<15>				< 8>			
		0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
stomach	ulcer:forestomach		<13>				<12>				<15>				< 8>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			13				12				15				8			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Digestive system}																		
stomach	hyperplasia:glandular stomach		<13>				<12>				<15>				< 8>			
		6 (46)	0 (0)	0 (0)	0 (0)	5 (42)	0 (0)	0 (0)	0 (0)	6 (40)	0 (0)	0 (0)	0 (0)	4 (50)	0 (0)	0 (0)	0 (0)	
liver	angiectasis		<13>				<12>				<15>				< 8>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	basophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	
{Urinary system}																		
kidney	hyaline droplet		<13>				<12>				<15>				< 8>			
		2 (15)	2 (15)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	
	inflammatory polyp		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	13				12				15				8			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<13>				<12>				<15>				< 8>			
	hydronephrosis		0	0	1	0	0	0	1	0	0	1	1	0	0	0	1	1
			(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(7)	(7)	(0)	(0)	(0)	(13)	(13)
	mineralization:papilla		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolic change:proximal tubule		1	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)
urin bladd			<13>				<12>				<15>				< 8>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(13)	(13)	(0)
urethra			<13>				<12>				<15>				< 8>			
	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)	(7)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<13>				<11>				<14>				< 8>			
	hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	13				12				15				8			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Endocrine system}																		
pituitary			<13>				<11>				<14>				< 8>			
	Rathke pouch		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<13>				<12>				<15>				< 8>			
	spindle-cell hyperplasia		0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	hyperplasia:cortical cell		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	focal fatty change:cortex		1	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)	(0)
{Reproductive system}																		
testis			<13>				<12>				<15>				< 8>			
	atrophy		1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		11	0	0	0	11	0	0	0	12	0	0	0	6	0	0	0
		(85)	(0)	(0)	(0)	(92)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(75)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			13				12				15				8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
epididymis	inflammation		<13>				<12>				<15>				< 8>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma		1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(8)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)
semin ves	inflammation		<13>				<12>				<15>				< 8>			
			0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)
prostate	inflammation		<13>				<12>				<15>				< 8>			
			0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)
{Nervous system}																		
brain	mineralization		<13>				<12>				<15>				< 8>			
			7	0	0	0	6	0	0	0	8	0	0	0	4	0	0	0
			(54)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(53)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
{Body cavities}																		
retroperit	hemorrhage		<13>				<12>				<15>				< 8>			
			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(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

APPENDIX J 3

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 37				75ppm 38				150ppm 35				300ppm 42			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app	ulcer	<37>				<38>				<35>				<42>				
		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
{Respiratory system}																		
nasal cavit	exudate	<37>				<38>				<35>				<42>				
		1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	thrombus	<37>				<38>				<35>				<42>				
		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	eosinophilic change:olfactory epithelium	<37>				<38>				<35>				<42>				
		6 (16)	0 (0)	0 (0)	0 (0)	10 (26)	0 (0)	0 (0)	0 (0)	9 (26)	0 (0)	0 (0)	0 (0)	3 (7)	1 (2)	0 (0)	0 (0)	
	inflammation:respiratory epithelium	<37>				<38>				<35>				<42>				
		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	respiratory metaplasia:olfactory epithelium	<37>				<38>				<35>				<42>				
		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	
	respiratory metaplasia:gland	<37>				<38>				<35>				<42>				
		2 (5)	0 (0)	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	5 (12)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		Group Name	Control				75ppm				150ppm				300ppm				
		No. of Animals on Study	37				38				35				42				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}																			
nasal cavit			<37>				<38>				<35>				<42>				
	atrophy:olfactory epithelium		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung			<37>				<38>				<35>				<42>				
	perivascular 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)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		8 (22)	0 (0)	0 (0)	0 (0)	8 (21)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	6 (14)	0 (0)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}																			
bone marrow			<37>				<38>				<35>				<42>				
	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lymph node			<37>				<38>				<35>				<42>				
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade				Control 37				75ppm 38				150ppm 35				300ppm 42			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																					
spleen		<37>				<38>				<35>				<42>							
	deposit of melanin	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis	3	1	0	0	2	1	0	0	1	0	0	0	3	0	0	0	0	0	0	0
		(8)	(3)	(0)	(0)	(5)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:vascular	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia	0	1	0	0	1	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(3)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Circulatory system}																					
heart		<37>				<38>				<35>				<42>							
	mineralization	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration	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)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b 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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 37				75ppm 38				150ppm 35				300ppm 42			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																					
heart	myocardial fibrosis	<37>				<38>				<35>				<42>							
		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
artery/aort	arteritis	<37>				<38>				<35>				<42>							
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Digestive system}																					
tooth	dysplasia	<37>				<38>				<35>				<42>							
		0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
tongue	arteritis	<37>				<38>				<35>				<42>							
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration	<37>				<38>				<35>				<42>							
		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm						
		No. of Animals on Study	37				38				35				42						
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
<hr/>																					
{Digestive system}																					
salivary gl		<37>					<38>					<35>					<42>				
	xanthogranuloma	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
stomach		<37>					<38>					<35>					<42>				
	hyperplasia:forestomach	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0			
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)			
	erosion:glandular stomach	1	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0			
		(3)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
	hyperplasia:glandular stomach	35	0	0	0	0	34	0	0	0	32	0	0	0	37	0	0	0			
		(95)	(0)	(0)	(0)	(0)	(89)	(0)	(0)	(0)	(91)	(0)	(0)	(0)	(88)	(0)	(0)	(0)			
liver		<37>					<38>					<35>					<42>				
	angiectasis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0			
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
	necrosis:focal	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)	(0)				
	clear cell focus	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0			
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(3)	(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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	37				38				35				42			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<37>				<38>				<35>				<42>			
	basophilic cell focus		2	0	0	0	4	0	0	0	4	0	0	0	3	0	0	0
			(5)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	bile ductular proliferation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Urinary system}																		
kidney			<37>				<38>				<35>				<42>			
	infarct		1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyaline droplet		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)	
	hydronephrosis		1	1	0	0	0	0	0	0	0	0	0	0	1	4	0	0
			(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(10)	(0)	(0)
	mineralization:papilla		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	37				38				35				42			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
urin bladd			<37>				<38>				<35>				<42>			
	inflammation		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	xanthogranuloma		0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	
{Endocrine system}																		
pituitary			<37>				<38>				<35>				<42>			
	hyperplasia		1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	Rathke pouch		3	0	0	0	4	0	0	0	1	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
thyroid			<37>				<38>				<35>				<42>			
	C-cell hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<37>				<38>				<35>				<42>			
parathyroid	cyst		1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	37				38				35				42			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal			<37>				<38>				<35>				<42>			
	spindle-cell hyperplasia	13	0	0	0	19	0	0	0	10	0	0	0	14	0	0	0	
		(35)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	
	hyperplasia:cortical cell	4	0	0	0	8	0	0	0	4	0	0	0	5	0	0	0	
		(11)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	
	focal fatty change:cortex	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Reproductive system}																		
testis			<37>				<38>				<35>				<42>			
	atrophy	7	0	0	0	7	0	0	0	11	0	0	0	8	0	0	0	
		(19)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	
	mineralization	30	6	0	0	29	7	0	0	28	7	0	0	37	5	0	0	
		(81)	(16)	(0)	(0)	(76)	(18)	(0)	(0)	(80)	(20)	(0)	(0)	(88)	(12)	(0)	(0)	
epididymis			<37>				<38>				<35>				<42>			
	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 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. : 0406
 ANIMAL : MOUSE Crj:BDFl
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	37				38				35				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
epididymis			<37>				<38>				<35>				<42>			
	inflammation		1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	2 (6)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	spermatogenic granuloma		2 (5)	2 (5)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
semin ves			<37>				<38>				<35>				<42>			
	inflammation		0 (0)	4 (11)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
prostate			<37>				<38>				<35>				<42>			
	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)
mammary gl			<37>				<38>				<35>				<42>			
	duct ectasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
prep/cli gl			<37>				<38>				<35>				<42>			
	duct ectasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
{Nervous system}																		
brain			<37>				<38>				<35>				<42>			
	mineralization		19 (51)	0 (0)	0 (0)	0 (0)	21 (55)	0 (0)	0 (0)	0 (0)	17 (49)	0 (0)	0 (0)	0 (0)	24 (57)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 37				75µm 38				150µm 35				300µm 42			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	degeneration	<37>				<38>				<35>				<42>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	<37>				<38>				<35>				<42>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

{Body cavities}

mesenterium	hemorrhage	<37>				<38>				<35>				<42>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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

(HPT150)

BAIS4

APPENDIX J 4

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study				Control 50				75ppm 50				150ppm 50				300ppm 49			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<49>							
	exudate	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium	7	1	0	0	11	1	0	0	10	1	0	0	7	1	0	0	0	0	0	0
		(14)	(2)	(0)	(0)	(22)	(2)	(0)	(0)	(20)	(2)	(0)	(0)	(14)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	4	0	0	0	11	1	0	0	6	0	0	0	2	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(22)	(2)	(0)	(0)	(12)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	1	0	0	0	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)
	respiratory metaplasia:gland	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory epithelium	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)	(0)
lung		<50>				<50>				<50>				<49>							
	congestion	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study				Control 50				75ppm 50				150ppm 50				300ppm 49			
		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>				<49>							
	hemorrhage	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	edema	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus	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)	(0)	(0)
	inflammatory infiltration	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)	(0)
	accumulation of foamy cells	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)	(0)
	bronchiolar-alveolar cell hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Hematopoietic system}																					
bone marrow		<50>				<50>				<50>				<49>							
	myelofibrosis	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				75ppm 50				150ppm 50				300ppm 49				
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Hematopoietic system}																			
bone marrow	erythropoiesis:increased		<50>				<50>				<50>				<49>				
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
spleen	deposit of melanin		<49>				<50>				<50>				<49>				
		2 (4)	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)		
	extramedullary hematopoiesis		2 (4)	4 (8)	4 (8)	0 (0)	5 (10)	5 (10)	5 (10)	0 (0)	7 (14)	7 (14)	3 (6)	0 (0)	3 (6)	6 (12)	3 (6)	0 (0)	
		hyperplasia:vascular		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		follicular hyperplasia		3 (6)	1 (2)	1 (2)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)
{Circulatory system}																			
heart	thrombus		<50>				<50>				<50>				<49>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	50				50				50				49			
		Grade	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	mineralization		<50>				<50>				<50>				<49>			
		3	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	arteritis		2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)
artery/aort	arteritis		<50>				<50>				<50>				<49>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Digestive system}																		
tongue	arteritis		<50>				<50>				<50>				<49>			
		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)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
salivary gl	atrophy		<50>				<50>				<50>				<49>			
		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)
	lymphocytic infiltration		7	0	0	0	5	0	0	0	4	0	0	0	6	0	1	0
		(14)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	50				50				50				49			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<50>				<50>				<50>				<49>			
	erosion:forestomach		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		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)
	erosion:glandular stomach		2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:glandular stomach		27	0	0	0	28	0	0	0	25	0	0	0	28	0	0	0
			(54)	(0)	(0)	(0)	(56)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(57)	(0)	(0)	(0)
liver			<50>				<50>				<50>				<49>			
	angiectasis		1	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	necrosis:focal		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)
	degeneration:central		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)	
	basophilic cell focus		4	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			50				50				50				49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
<hr/>																		
{Digestive system}																		
liver	biliary cyst		<50>				<50>				<50>				<49>			
		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
<hr/>																		
{Urinary system}																		
kidney	infarct		<50>				<50>				<50>				<49>			
		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)	(0)	
	hyaline droplet		6	0	0	0	8	0	0	0	12	0	0	0	10	0	0	0
		(12)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	hydronephrosis		0	0	1	0	1	1	3	0	0	0	0	0	0	0	2	1
		(0)	(0)	(2)	(0)	(2)	(2)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)
	mineralization:papilla		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)	(0)
	vacuolic change:proximal tubule		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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
<hr/>																		
{Endocrine system}																		
pituitary	hyperplasia		<50>				<50>				<50>				<49>			
		7	0	0	0	3	0	0	0	6	0	0	0	6	0	0	0	0
			(14)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	50				50				50				49			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<50>				<50>				<50>				<49>			
	vacuolic change		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal			<50>				<50>				<50>				<49>			
	spindle-cell hyperplasia		38 (76)	0 (0)	0 (0)	0 (0)	39 (78)	0 (0)	0 (0)	0 (0)	37 (74)	0 (0)	0 (0)	0 (0)	38 (78)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	focal fatty change: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)	0 (0)	0 (0)	0 (0)	0 (0)
{Reproductive system}																		
ovary			<50>				<50>				<49>				<49>			
	thrombus		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)	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

		Group Name	Control				75ppm				150ppm				300ppm				
		No. of Animals on Study	50				50				50				49				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
{Reproductive system}																			
ovary	cyst		<50>				<50>				<49>				<49>				
		8	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0		
			(16)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	
uterus	thrombus		<50>				<50>				<50>				<49>				
		0	0	0	0	0	3	0	0	0	1	0	0	0	1	0	0		
				(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	decidual change		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
	cystic endometrial hyperplasia		16	6	0	0	12	3	0	0	18	1	0	0	17	7	0	0	
			(32)	(12)	(0)	(0)	(24)	(6)	(0)	(0)	(36)	(2)	(0)	(0)	(35)	(14)	(0)	(0)	
mammary gl	squamous cell metaplasia		<50>				<50>				<50>				<49>				
		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)	
{Nervous system}																			
brain	mineralization		<50>				<50>				<50>				<49>				
		19	0	0	0	18	0	0	0	16	0	0	0	19	0	0	0		
			(38)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(39)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			50				50				50				49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	hyperplasia	<50>				<50>				<50>				<49>			
		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)

{Musculoskeletal system}

muscle	mineralization	<50>				<50>				<50>				<49>			
		1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

{Body cavities}

mesenterium	hemorrhage	<50>				<50>				<50>				<49>			
		0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

APPENDIX J 5

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				75ppm 25				150ppm 26				300ppm 20			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	exudate	<23>				<25>				<26>				<20>				
		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)	
	thrombus	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 (10)	0 (0)	0 (0)	0 (0)	
		eosinophilic change:olfactory epithelium	2 (9)	1 (4)	0 (0)	0 (0)	3 (12)	1 (4)	0 (0)	0 (0)	3 (12)	1 (4)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		2 (9)	0 (0)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
		respiratory metaplasia:gland	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
atrophy:olfactory epithelium	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)	
	lung	hemorrhage	<23>				<25>				<26>				<20>			
0 (0)			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	edema	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 10

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	23				25				26				20			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Respiratory system}																		
lung			<23>				<25>				<26>				<20>			
	thrombus		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)	(0)	(0)
	accumulation of foamy cells		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)
	bronchiolar-alveolar cell hyperplasia		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)	(5)	(0)	(0)	(0)	
{Hematopoietic system}																		
bone marrow			<23>				<25>				<26>				<20>			
	myelofibrosis		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)
	erythropoiesis:increased		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)
spleen			<23>				<25>				<26>				<20>			
	extramedullary hematopoiesis		2	4	4	0	3	5	5	0	5	7	3	0	2	6	3	0
			(9)	(17)	(17)	(0)	(12)	(20)	(20)	(0)	(19)	(27)	(12)	(0)	(10)	(30)	(15)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				75ppm 25				150ppm 26				300ppm 20			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen	hyperplasia:vascular		<23>				<25>				<26>				<20>			
		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)	
{Circulatory system}																		
heart	thrombus		<23>				<25>				<26>				<20>			
		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 (10)	0 (0)	0 (0)	0 (0)	
	mineralization		2 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
arteritis		1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	
artery/aort	arteritis		<23>				<25>				<26>				<20>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	
{Digestive system}																		
tongue	arteritis		<23>				<25>				<26>				<20>			
		2 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (5)	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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 23				75ppm 25				150ppm 26				300ppm 20			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach	erosion:forestomach		<23>				<25>				<26>				<20>			
		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)	
	erosion:glandular stomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
			hyperplasia:glandular stomach		7	0	0	0	9	0	0	0	8	0	0	0	5	0
(30)	(0)			(0)	(0)	(36)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	
liver	angiectasis				<23>				<25>				<26>				<20>	
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	degeneration:central		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
		{Urinary system}																
kidney	hyaline droplet		<23>				<25>				<26>				<20>			
		5	0	0	0	6	0	0	0	9	0	0	0	10	0	0	0	
		(22)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(35)	(0)	(0)	(0)	(50)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	23				25				26				20			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	hydronephrosis		<23>				<25>				<26>				<20>			
			0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1
			(0)	(0)	(4)	(0)	(4)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)
	vacuolic change:proximal tubule		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)
{Endocrine system}																		
pituitary	hyperplasia		<23>				<25>				<26>				<20>			
			1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	
thyroid	vacuolic change		<23>				<25>				<26>				<20>			
			1	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
			(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(5)	(0)	(0)
adrenal	spindle-cell hyperplasia		<23>				<25>				<26>				<20>			
			13	0	0	0	17	0	0	0	15	0	0	0	12	0	0	0
			(57)	(0)	(0)	(0)	(68)	(0)	(0)	(0)	(58)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	focal fatty change: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)

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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 14

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	23				25				26				20			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary	cyst		<23>				<25>				<25>				<20>			
		4	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	
		(17)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	
uterus	cystic endometrial hyperplasia		<23>				<25>				<26>				<20>			
		6	1	0	0	7	0	0	0	7	1	0	0	3	0	0	0	
		(26)	(4)	(0)	(0)	(28)	(0)	(0)	(0)	(27)	(4)	(0)	(0)	(15)	(0)	(0)	(0)	
mammary gl	squamous cell metaplasia		<23>				<25>				<26>				<20>			
		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)	
{Nervous system}																		
brain	mineralization		<23>				<25>				<26>				<20>			
		6	0	0	0	6	0	0	0	8	0	0	0	5	0	0	0	
	(26)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(25)	(0)	(0)	(0)		
{Special sense organs/appendage}																		
Harder gl	hyperplasia		<23>				<25>				<26>				<20>			
		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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control				75ppm				150ppm				300ppm			
			23				25				26				20			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Musculoskeletal system}

muscle	mineralization	<23>				<25>				<26>				<20>			
		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)	(0)	(0)	(0)	(0)

{Body cavities}

mesenterium	hemorrhage	<23>				<25>				<26>				<20>			
		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)

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

(HPT150)

BAIS4

APPENDIX J 6

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				75ppm 25				150ppm 24				300ppm 29			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	exudate	<27>				<25>				<24>				<29>				
		2 (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)		
	eosinophilic change:olfactory epithelium	5 (19)	0 (0)	0 (0)	0 (0)	8 (32)	0 (0)	0 (0)	0 (0)	7 (29)	0 (0)	0 (0)	0 (0)	5 (17)	1 (3)	0 (0)	0 (0)	
		eosinophilic change:respiratory epithelium	2 (7)	0 (0)	0 (0)	0 (0)	8 (32)	1 (4)	0 (0)	0 * (0)	4 (17)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
		respiratory metaplasia:gland	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
atrophy:olfactory epithelium	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)	
	lung	congestion	<27>				<25>				<24>				<29>			
0 (0)			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	inflammatory infiltration	2 (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)	
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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	27				25				24				29			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<27>				<25>				<24>				<29>			
	accumulation of foamy cells		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)
	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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<27>				<25>				<24>				<29>			
	myelofibrosis		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)
spleen			<26>				<25>				<24>				<29>			
	deposit of melanin		2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	hyperplasia:vascular		0	0	0	0	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)

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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	27				25				24				29			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<26>				<25>				<24>				<29>			
	follicular hyperplasia		3	1	1	0	4	0	0	0	0	0	0	0	1	2	0	0
			(12)	(4)	(4)	(0)	(16)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(7)	(0)	(0)
{Circulatory system}																		
heart			<27>				<25>				<24>				<29>			
	mineralization		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)
	arteritis		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)
{Digestive system}																		
salivary gl			<27>				<25>				<24>				<29>			
	atrophy		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)
	lymphocytic infiltration		7	0	0	0	5	0	0	0	4	0	0	0	6	0	1	0
			(26)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(21)	(0)	(3)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name		Control				75ppm				150ppm				300ppm			
		No. of Animals on Study		27				25				24				29			
		Grade		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																			
stomach				<27>				<25>				<24>				<29>			
	erosion: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)
	hyperplasia:forestomach			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)
	erosion:glandular stomach			1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
				(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	hyperplasia:glandular stomach			20	0	0	0	19	0	0	0	17	0	0	0	23	0	0	0
				(74)	(0)	(0)	(0)	(76)	(0)	(0)	(0)	(71)	(0)	(0)	(0)	(79)	(0)	(0)	(0)
liver				<27>				<25>				<24>				<29>			
	angiectasis			0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	necrosis:focal			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)
	basophilic cell focus			4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
				(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	biliary cyst			2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	27				25				24				29			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<27>				<25>				<24>				<29>			
	infarct		0	0	0	0	0	0	0	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)
	hyaline droplet		1	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	0	1	2	0	0	0	0	0	0	0	2	0
			(0)	(0)	(0)	(0)	(0)	(4)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)
	mineralization:papilla		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)
{Endocrine system}																		
pituitary			<27>				<25>				<24>				<29>			
	hyperplasia		6	0	0	0	3	0	0	0	4	0	0	0	4	0	0	0
			(22)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
thyroid			<27>				<25>				<24>				<29>			
	vacuolic change		0	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)	(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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

		Group Name	Control				75ppm				150ppm				300ppm			
		No. of Animals on Study	27				25				24				29			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<27>				<25>				<24>				<29>			
	inflammatory infiltration		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)
adrenal			<27>				<25>				<24>				<29>			
	spindle-cell hyperplasia		25	0	0	0	22	0	0	0	22	0	0	0	26	0	0	0
			(93)	(0)	(0)	(0)	(88)	(0)	(0)	(0)	(92)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	hyperplasia:cortical cell		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<27>				<25>				<24>				<29>			
	thrombus		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)
	cyst		4	0	0	0	8	0	0	0	8	0	0	0	9	0	0	0
			(15)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(31)	(0)	(0)	(0)
uterus			<27>				<25>				<24>				<29>			
	thrombus		0	0	0	0	0	3	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(4)	(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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ_____	Findings_____	Group Name No. of Animals on Study				Control 27				75ppm 25				150ppm 24				300ppm 29			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																					
uterus		<27>				<25>				<24>				<29>							
	decidual change	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)	0 (0)	0 (0)	0 (0)	0 (0)
	cystic endometrial hyperplasia	10 (37)	5 (19)	0 (0)	0 (0)	5 (20)	3 (12)	0 (0)	0 (0)	11 (46)	0 (0)	0 (0)	0 (0)	14 (48)	7 (24)	0 (0)	0 (0)				
{Nervous system}																					
brain		<27>				<25>				<24>				<29>							
	mineralization	13 (48)	0 (0)	0 (0)	0 (0)	12 (48)	0 (0)	0 (0)	0 (0)	8 (33)	0 (0)	0 (0)	0 (0)	14 (48)	0 (0)	0 (0)	0 (0)				
{Musculoskeletal system}																					
muscle		<27>				<25>				<24>				<29>							
	mineralization	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 (3)	0 (0)	0 (0)	0 (0)				
{Body cavities}																					
mesenterium		<27>				<25>				<24>				<29>							
	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)	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

APPENDIX K 1

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

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	1	1	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		1	0	3	1
	NO. OF ANIMALS WITH TUMORS		1	0	3	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	2	0
	NO. OF BENIGN TUMORS		1	0	2	0
	NO. OF MALIGNANT TUMORS		1	0	3	0
	NO. OF TOTAL TUMORS		2	0	5	0
79 - 104	NO. OF EXAMINED ANIMALS		11	11	11	7
	NO. OF ANIMALS WITH TUMORS		11	10	11	5
	NO. OF ANIMALS WITH SINGLE TUMORS		8	5	6	5
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	5	5	0
	NO. OF BENIGN TUMORS		4	6	4	0
	NO. OF MALIGNANT TUMORS		11	10	14	5
	NO. OF TOTAL TUMORS		15	16	18	5
105 - 105	NO. OF EXAMINED ANIMALS		37	38	35	42
	NO. OF ANIMALS WITH TUMORS		31	26	27	30
	NO. OF ANIMALS WITH SINGLE TUMORS		17	17	13	22
	NO. OF ANIMALS WITH MULTIPLE TUMORS		14	9	14	8
	NO. OF BENIGN TUMORS		23	17	28	22
	NO. OF MALIGNANT TUMORS		27	19	17	20
	NO. OF TOTAL TUMORS		50	36	45	42

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		43	36	41	35
	NO. OF ANIMALS WITH SINGLE TUMORS		25	22	20	27
	NO. OF ANIMALS WITH MULTIPLE TUMORS		18	14	21	8
	NO. OF BENIGN TUMORS		28	23	34	22
	NO. OF MALIGNANT TUMORS		39	29	34	25
	NO. OF TOTAL TUMORS		67	52	68	47

(HPT070)

BAIS4

APPENDIX K 2

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

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	2	1
	NO. OF ANIMALS WITH TUMORS		0	0	2	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	2	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	2	0
	NO. OF TOTAL TUMORS		0	0	2	0
53 - 78	NO. OF EXAMINED ANIMALS		6	6	4	4
	NO. OF ANIMALS WITH TUMORS		5	6	3	4
	NO. OF ANIMALS WITH SINGLE TUMORS		3	6	1	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	0	2	3
	NO. OF BENIGN TUMORS		1	0	1	3
	NO. OF MALIGNANT TUMORS		6	6	4	4
	NO. OF TOTAL TUMORS		7	6	5	7
79 - 104	NO. OF EXAMINED ANIMALS		17	19	20	15
	NO. OF ANIMALS WITH TUMORS		17	19	20	13
	NO. OF ANIMALS WITH SINGLE TUMORS		13	10	15	9
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	9	5	4
	NO. OF BENIGN TUMORS		2	8	8	3
	NO. OF MALIGNANT TUMORS		19	22	18	15
	NO. OF TOTAL TUMORS		21	30	26	18
105 - 105	NO. OF EXAMINED ANIMALS		27	25	24	29
	NO. OF ANIMALS WITH TUMORS		21	23	23	18
	NO. OF ANIMALS WITH SINGLE TUMORS		10	10	10	8
	NO. OF ANIMALS WITH MULTIPLE TUMORS		11	13	13	10
	NO. OF BENIGN TUMORS		19	22	20	21
	NO. OF MALIGNANT TUMORS		19	17	21	13
	NO. OF TOTAL TUMORS		38	39	41	34

STUDY NO. : 0406
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	75ppm	150ppm	300ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	49
	NO. OF ANIMALS WITH TUMORS		43	48	48	35
	NO. OF ANIMALS WITH SINGLE TUMORS		26	26	28	18
	NO. OF ANIMALS WITH MULTIPLE TUMORS		17	22	20	17
	NO. OF BENIGN TUMORS		22	30	29	27
	NO. OF MALIGNANT TUMORS		44	45	45	32
	NO. OF TOTAL TUMORS		66	75	74	59

(HPT070)

BAIS4

APPENDIX L 1

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 50
{Integumentary system/appandage}						
subcutis	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Respiratory system}						
larynx	squamous cell carcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
lung	bronchiolar-alveolar adenoma		<50> 7 (14%)	<50> 6 (12%)	<50> 8 (16%)	<50> 7 (14%)
	bronchiolar-alveolar carcinoma		3 (6%)	4 (8%)	8 (16%)	4 (8%)
{Hematopoietic system}						
lymph node	histiocytic sarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	malignant lymphoma		9 (18%)	9 (18%)	6 (12%)	6 (12%)
	mastcytoma:malignant		1 (2%)	0 (0%)	0 (0%)	1 (2%)
spleen	hemangioma		<50> 2 (4%)	<50> 2 (4%)	<50> 1 (2%)	<50> 1 (2%)
	malignant fibrous histiocyoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	malignant lymphoma		2 (4%)	2 (4%)	0 (0%)	1 (2%)

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 50
{Hematopoietic system}						
spleen			<50>	<50>	<50>	<50>
	mastcytoma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	hemangiosarcoma		1 (2%)	2 (4%)	1 (2%)	1 (2%)
{Circulatory system}						
heart			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Digestive system}						
tongue			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	1 (2%)	1 (2%)
salivary gl			<50>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
stomach			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
liver			<50>	<50>	<50>	<50>
	hemangioma		2 (4%)	4 (8%)	2 (4%)	1 (2%)
	hepatocellular adenoma		8 (16%)	6 (12%)	9 (18%)	5 (10%)
	histiocytic sarcoma		4 (8%)	0 (0%)	2 (4%)	2 (4%)
	hemangiosarcoma		4 (8%)	2 (4%)	7 (14%)	3 (6%)

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 50
{Digestive system}						
liver			<50>	<50>	<50>	<50>
	hepatocellular carcinoma		12 (24%)	7 (14%)	5 (10%)	3 (6%)
gall bladd			<50>	<50>	<50>	<50>
	papillary adenoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		2 (4%)	1 (2%)	2 (4%)	0 (0%)
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
urin bladd			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	2 (4%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<49>	<49>	<50>
	adenoma		1 (2%)	0 (0%)	2 (4%)	1 (2%)
thyroid			<50>	<49>	<49>	<50>
	C-cell carcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Reproductive system}						
testis			<50>	<50>	<50>	<50>
	interstitial cell tumor		0 (0%)	0 (0%)	1 (2%)	0 (0%)

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 50
{Reproductive system}						
epididymis	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
{Nervous system}						
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> 1 (2%)	<50> 4 (8%)	<50> 4 (8%)
{Musculoskeletal system}						
vertebra	chordoma:malignant		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Body cavities}						
retroperit	hemangioma		<50> 1 (2%)	<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

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 49
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<49>
	squamous cell papilloma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	sebaceous adenoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
subcutis			<50>	<50>	<50>	<49>
	hemangioma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	hemangiosarcoma		1 (2%)	0 (0%)	2 (4%)	0 (0%)
{Respiratory system}						
lung			<50>	<50>	<50>	<49>
	bronchiolar-alveolar adenoma		2 (4%)	4 (8%)	3 (6%)	4 (8%)
	bronchiolar-alveolar carcinoma		3 (6%)	1 (2%)	2 (4%)	2 (4%)
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<49>
	hemangioma		0 (0%)	2 (4%)	0 (0%)	1 (2%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
lymph node			<50>	<50>	<50>	<49>
	malignant lymphoma		18 (36%)	23 (46%)	19 (38%)	10 (20%)
spleen			<49>	<50>	<50>	<49>
	hemangioma		0 (0%)	0 (0%)	2 (4%)	1 (2%)

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 49
{Hematopoietic system}						
spleen			<49>	<50>	<50>	<49>
	malignant lymphoma		0 (0%)	2 (4%)	3 (6%)	3 (6%)
	hemangiosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
{Digestive system}						
liver			<50>	<50>	<50>	<49>
	hemangioma		1 (2%)	2 (4%)	1 (2%)	1 (2%)
	hepatocellular adenoma		3 (6%)	1 (2%)	3 (6%)	1 (2%)
	hemangiosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hepatocellular carcinoma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
gall bladd			<50>	<50>	<50>	<49>
	papillary adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<50>	<50>	<49>
	adenoma		8 (16%)	17 (34%)	13 (26%)	10 (20%)
adrenal			<50>	<50>	<50>	<49>
	pheochromocytoma		1 (2%)	1 (2%)	0 (0%)	2 (4%)
{Reproductive system}						
ovary			<50>	<50>	<49>	<49>
	cystadenoma		4 (8%)	0 (0%)	2 (4%)	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 49
{Reproductive system}						
uterus			<50>	<50>	<50>	<49>
	hemangioma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	endometrial stromal polyp		1 (2%)	0 (0%)	1 (2%)	1 (2%)
	histiocytic sarcoma		16 (32%)	16 (32%)	17 (34%)	13 (27%)
mammary gl			<50>	<50>	<50>	<49>
	adenocarcinoma		3 (6%)	0 (0%)	0 (0%)	0 (0%)
{Nervous system}						
periph nerv			<50>	<50>	<50>	<49>
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
{Special sense organs/appendage}						
Harder gl			<50>	<50>	<50>	<49>
	adenoma		2 (4%)	2 (4%)	3 (6%)	3 (6%)
	adenocarcinoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
{Musculoskeletal system}						
bone			<50>	<50>	<50>	<49>
	osteosarcoma		0 (0%)	0 (0%)	1 (2%)	1 (2%)

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

(HPT085)

BAIS4

APPENDIX M 1

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

STUDY No. : 0406
 ANIMAL : MOUSE Crj:BDF1
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	75ppm	150ppm	300ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	6/50(12.0)	8/50(16.0)	7/50(14.0)
Adjusted rates(b)	15.79	12.24	21.62	16.67
Terminal rates(c)	5/37(13.5)	3/38(7.9)	7/35(20.0)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4901			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8904			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.6129
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	4/50(8.0)	8/50(16.0)	4/50(8.0)
Adjusted rates(b)	6.38	10.53	14.29	4.76
Terminal rates(c)	2/37(5.4)	4/38(10.5)	5/35(14.3)	2/42(4.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0709			
Prevalence method(d)	P = 0.7017			
Combined analysis(d)	P = 0.3646			
Cochran-Armitage test(e)	P = 0.6539			
Fisher Exact test(e)		P = 0.5000	P = 0.0999	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	10/50(20.0)	16/50(32.0)	11/50(22.0)
Adjusted rates(b)	21.05	21.95	35.14	21.43
Terminal rates(c)	7/37(18.9)	7/38(18.4)	12/35(34.3)	9/42(21.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0709			
Prevalence method(d)	P = 0.5878			
Combined analysis(d)	P = 0.3623			
Cochran-Armitage test(e)	P = 0.6724			
Fisher Exact test(e)		P = 0.5984	P = 0.1271	P = 0.5000

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	75ppm	150ppm	300ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	9/50(18.0)	9/50(18.0)	6/50(12.0)	6/50(12.0)
Adjusted rates(b)	21.62	13.16	12.82	14.29
Terminal rates(c)	8/37(21.6)	5/38(13.2)	4/35(11.4)	6/42(14.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9038			
Prevalence method(d)	P = 0.7678			
Combined analysis(d)	P = 0.8976			
Cochran-Armitage test(e)	P = 0.3153			
Fisher Exact test(e)		P = 0.6024	P = 0.2883	P = 0.2883
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	5.41	10.26	5.71	2.38
Terminal rates(c)	2/37(5.4)	3/38(7.9)	2/35(5.7)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8339			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3871			
Fisher Exact test(e)		P = 0.3389	P = 0.6913	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	6/50(12.0)	9/50(18.0)	5/50(10.0)
Adjusted rates(b)	18.92	13.16	22.86	11.90
Terminal rates(c)	7/37(18.9)	5/38(13.2)	8/35(22.9)	5/42(11.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8864			
Prevalence method(d)	P = 0.7086			
Combined analysis(d)	P = 0.8100			
Cochran-Armitage test(e)	P = 0.4909			
Fisher Exact test(e)		P = 0.3871	P = 0.5000	P = 0.2768

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	75ppm	150ppm	300ppm
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	0/50(0.0)	2/50(4.0)	2/50(4.0)
Adjusted rates(b)	2.70	0.0	0.0	2.38
Terminal rates(c)	1/37(2.7)	0/38(0.0)	0/35(0.0)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7494			
Prevalence method(d)	P = 0.4177			
Combined analysis(d)	P = 0.6889			
Cochran-Armitage test(e)	P = 0.6256			
Fisher Exact test(e)		P = 0.0587	P = 0.3389	P = 0.3389
SITE : liver TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	2/50(4.0)	7/50(14.0)	3/50(6.0)
Adjusted rates(b)	5.41	2.63	12.50	7.14
Terminal rates(c)	2/37(5.4)	1/38(2.6)	3/35(8.6)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8812			
Prevalence method(d)	P = 0.2740			
Combined analysis(d)	P = 0.5666			
Cochran-Armitage test(e)	P = 1.0000			
Fisher Exact test(e)		P = 0.3389	P = 0.2623	P = 0.5000
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	12/50(24.0)	7/50(14.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	21.95	13.16	11.43	7.14
Terminal rates(c)	8/37(21.6)	5/38(13.2)	4/35(11.4)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9741			
Prevalence method(d)	P = 0.9796			
Combined analysis(d)	P = 0.9970			
Cochran-Armitage test(e)	P = 0.0107*			
Fisher Exact test(e)		P = 0.1540	P = 0.0542	P = 0.0113*

STUDY No. : 0406
 ANIMAL : MOUSE Crj:BDF1
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	75ppm	150ppm	300ppm
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	6/50 (12.0)	6/50 (12.0)	9/50 (18.0)	4/50 (8.0)
Adjusted rates(b)	10.81	12.82	17.50	9.52
Terminal rates(c)	4/37 (10.8)	4/38 (10.5)	5/35 (14.3)	4/42 (9.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8812			
Prevalence method(d)	P = 0.5962			
Combined analysis(d)	P = 0.7806			
Cochran-Armitage test(e)	P = 0.5877			
Fisher Exact test(e)		P = 0.6202	P = 0.2883	P = 0.3703
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	20/50 (40.0)	13/50 (26.0)	12/50 (24.0)	8/50 (16.0)
Adjusted rates(b)	40.54	26.32	28.57	19.05
Terminal rates(c)	15/37 (40.5)	10/38 (26.3)	10/35 (28.6)	8/42 (19.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9912			
Prevalence method(d)	P = 0.9795			
Combined analysis(d)	P = 0.9977			
Cochran-Armitage test(e)	P = 0.0101*			
Fisher Exact test(e)		P = 0.1008	P = 0.0664	P = 0.0067**
(HPT360A)				

BAIS4

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	75ppm	150ppm	300ppm
SITE : Harderian gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	4/50(8.0)	4/50(8.0)
Adjusted rates(b)	8.11	2.63	8.57	9.52
Terminal rates(c)	3/37(8.1)	1/38(2.6)	3/35(8.6)	4/42(9.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2441			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4207			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.5000

(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.

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	75ppm	150ppm	300ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	5/50(10.0)	7/50(14.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	12.50	15.91	10.26	4.76
Terminal rates(c)	4/37(10.8)	5/38(13.2)	3/35(8.6)	2/42(4.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9425			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1556			
Fisher Exact test(e)		P = 0.3798	P = 0.5000	P = 0.2180
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	1/50(2.0)	5/50(10.0)	4/50(8.0)
Adjusted rates(b)	5.41	0.0	2.86	7.14
Terminal rates(c)	2/37(5.4)	0/38(0.0)	1/35(2.9)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8397			
Prevalence method(d)	P = 0.2012			
Combined analysis(d)	P = 0.6000			
Cochran-Armitage test(e)	P = 0.8601			
Fisher Exact test(e)		P = 0.0559	P = 0.5000	P = 0.3703
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	11/50(22.0)	6/50(12.0)	7/50(14.0)
Adjusted rates(b)	27.03	18.42	12.82	16.67
Terminal rates(c)	10/37(27.0)	7/38(18.4)	4/35(11.4)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9038			
Prevalence method(d)	P = 0.8682			
Combined analysis(d)	P = 0.9443			
Cochran-Armitage test(e)	P = 0.1972			
Fisher Exact test(e)		P = 0.5952	P = 0.1434	P = 0.2178

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	75ppm	150ppm	300ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	7/50(14.0)	4/50(8.0)
Adjusted rates(b)	8.11	5.26	12.50	9.09
Terminal rates(c)	3/37(8.1)	2/38(5.3)	3/35(8.6)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8812			
Prevalence method(d)	P = 0.3189			
Combined analysis(d)	P = 0.5852			
Cochran-Armitage test(e)	P = 0.9675			
Fisher Exact test(e)		P = 0.3575	P = 0.3798	P = 0.5000

(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. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	75ppm	150ppm	300ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	3/50(6.0)	4/49(8.2)
Adjusted rates(b)	4.17	9.52	8.33	13.79
Terminal rates(c)	1/27(3.7)	1/25(4.0)	2/24(8.3)	4/29(13.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2531			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5085			
Fisher Exact test(e)		P = 0.3389	P = 0.5000	P = 0.3292
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	2/50(4.0)	2/49(4.1)
Adjusted rates(b)	7.32	4.00	8.33	6.90
Terminal rates(c)	1/27(3.7)	1/25(4.0)	2/24(8.3)	2/29(6.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5816			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8238			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.5097
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	5/50(10.0)	6/49(12.2)
Adjusted rates(b)	10.42	11.90	16.67	20.69
Terminal rates(c)	2/27(7.4)	2/25(8.0)	4/24(16.7)	6/29(20.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3585			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6970			
Fisher Exact test(e)		P = 0.6297	P = 0.6297	P = 0.4856

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	75ppm	150ppm	300ppm
SITE : bone marrow TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	3/50(6.0)	0/50(0.0)	1/49(2.0)
Adjusted rates(b)	0.0	8.00	0.0	3.45
Terminal rates(c)	0/27(0.0)	2/25(8.0)	0/24(0.0)	1/29(3.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4696			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9876			
Fisher Exact test(e)		P = 0.1212	P = N.C.	P = 0.4949
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	18/50(36.0)	23/50(46.0)	19/50(38.0)	10/49(20.4)
Adjusted rates(b)	25.93	26.92	41.67	17.24
Terminal rates(c)	7/27(25.9)	6/25(24.0)	10/24(41.7)	5/29(17.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9428			
Prevalence method(d)	P = 0.8478			
Combined analysis(d)	P = 0.9704			
Cochran-Armitage test(e)	P = 0.0370*			
Fisher Exact test(e)		P = 0.2081	P = 0.5000	P = 0.0665
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	0/49(0.0)	2/50(4.0)	3/50(6.0)	3/49(6.1)
Adjusted rates(b)	0.0	8.00	11.54	6.90
Terminal rates(c)	0/26(0.0)	2/25(8.0)	2/24(8.3)	2/29(6.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1069			
Prevalence method(d)	P = 0.1552			
Combined analysis(d)	P = 0.0720			
Cochran-Armitage test(e)	P = 0.1401			
Fisher Exact test(e)		P = 0.2525	P = 0.1250	P = 0.1211

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	75ppm	150ppm	300ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	3/50(5.0)	1/50(2.0)	3/50(6.0)	1/49(2.0)
Adjusted rates(b)	11.11	4.00	12.50	3.45
Terminal rates(c)	3/27(11.1)	1/25(4.0)	3/24(12.5)	1/29(3.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7861			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4763			
Fisher Exact test(e)		P = 0.3087	P = 0.6611	P = 0.3163
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	2/50(4.0)	4/50(8.0)	1/49(2.0)
Adjusted rates(b)	14.81	8.00	12.50	3.45
Terminal rates(c)	4/27(14.8)	2/25(8.0)	3/24(12.5)	1/29(3.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3889			
Prevalence method(d)	P = 0.9038			
Combined analysis(d)	P = 0.8796			
Cochran-Armitage test(e)	P = 0.2807			
Fisher Exact test(e)		P = 0.3389	P = 0.6425	P = 0.1874
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	17/50(34.0)	13/50(26.0)	10/49(20.4)
Adjusted rates(b)	25.93	59.26	33.33	28.13
Terminal rates(c)	7/27(25.9)	14/25(56.0)	8/24(33.3)	8/29(27.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5975			
Prevalence method(d)	P = 0.5507			
Combined analysis(d)	P = 0.5877			
Cochran-Armitage test(e)	P = 0.9590			
Fisher Exact test(e)		P = 0.0317*	P = 0.1631	P = 0.3792

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	75ppm	150ppm	300ppm
SITE : ovary TUMOR : cystadenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	0/50(0.0)	2/49(4.1)	0/49(0.0)
Adjusted rates(b)	12.90	0.0	6.06	0.0
Terminal rates(c)	3/27(11.1)	0/25(0.0)	1/24(4.2)	0/29(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9665			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0715			
Fisher Exact test(e)		P = 0.0587	P = 0.3485	P = 0.0612
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	16/50(32.0)	16/50(32.0)	17/50(34.0)	13/49(26.5)
Adjusted rates(b)	25.93	24.00	29.17	13.33
Terminal rates(c)	7/27(25.9)	6/25(24.0)	7/24(29.2)	3/29(10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4214			
Prevalence method(d)	P = 0.8697			
Combined analysis(d)	P = 0.7076			
Cochran-Armitage test(e)	P = 0.5471			
Fisher Exact test(e)		P = 0.5848	P = 0.5000	P = 0.3534
SITE : mammary gland TUMOR : adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	0/50(0.0)	0/49(0.0)
Adjusted rates(b)	7.41	0.0	0.0	0.0
Terminal rates(c)	2/27(7.4)	0/25(0.0)	0/24(0.0)	0/29(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8850 ?			
Prevalence method(d)	P = 0.9738 ?			
Combined analysis(d)	P = 0.9910			
Cochran-Armitage test(e)	P = 0.0395*			
Fisher Exact test(e)		P = 0.1212	P = 0.1212	P = 0.1250

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	75ppm	150ppm	300ppm
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	2/50(4.0)	3/50(6.0)	3/49(6.1)
Adjusted rates(b)	7.41	8.00	12.50	6.90
Terminal rates(c)	2/27(7.4)	2/25(8.0)	3/24(12.5)	2/29(6.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3206			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5652			
Fisher Exact test(e)		P = 0.6913	P = 0.5000	P = 0.4903
SITE : Harderian gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	3/50(6.0)	3/50(6.0)	3/49(6.1)
Adjusted rates(b)	8.33	8.00	12.50	6.90
Terminal rates(c)	2/27(7.4)	2/25(8.0)	3/24(12.5)	2/29(6.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5799			
Prevalence method(d)	P = 0.4210			
Combined analysis(d)	P = 0.4809			
Cochran-Armitage test(e)	P = 0.9781			
Fisher Exact test(e)		P = 0.6611	P = 0.6611	P = 0.6515

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

STUDY No. : 0406
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	75ppm	150ppm	300ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	4/50(8.0)	2/50(4.0)	4/49(8.2)
Adjusted rates(b)	3.70	12.00	8.00	11.76
Terminal rates(c)	1/27(3.7)	3/25(12.0)	1/24(4.2)	3/29(10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = ———			
Prevalence method(d)	P = 0.1598			
Combined analysis(d)	P = ———			
Cochran-Armitage test(e)	P = 0.3050			
Fisher Exact test(e)		P = 0.1811	P = 0.5000	P = 0.1748
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	17/50(34.0)	16/50(32.0)	17/50(34.0)	14/49(28.6)
Adjusted rates(b)	25.93	24.00	29.17	13.33
Terminal rates(c)	7/27(25.9)	6/25(24.0)	7/24(29.2)	3/29(10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3273			
Prevalence method(d)	P = 0.8873			
Combined analysis(d)	P = 0.6520			
Cochran-Armitage test(e)	P = 0.5870			
Fisher Exact test(e)		P = 0.5000	P = 0.5835	P = 0.3576

(HPT360A)

BAIS4

STUDY No. : 0406
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	75ppm	150ppm	300ppm
SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	18/50(36.0)	25/50(50.0)	22/50(44.0)	13/49(26.5)
Adjusted rates(b)	25.93	34.62	50.00	24.14
Terminal rates(c)	7/27(25.9)	8/25(32.0)	12/24(50.0)	7/29(24.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9057			
Prevalence method(d)	P = 0.6652			
Combined analysis(d)	P = 0.9024			
Cochran-Armitage test(e)	P = 0.1499			
Fisher Exact test(e)		P = 0.1127	P = 0.2703	P = 0.2123

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

APPENDIX N 1

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	0	0
subcutis			<50>	<50>	<50>	<50>
	metastasis:liver tumor		1	0	0	0
{Respiratory system}						
larynx			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	3	2	1
	metastasis:liver tumor		8	1	3	2
	metastasis:spleen tumor		0	0	1	0
	metastasis:urinary bladder tumor		0	0	1	0
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	2	0
	metastasis:liver tumor		0	0	0	1
lymph node			<50>	<50>	<50>	<50>
	metastasis:spleen tumor		0	0	1	0
	metastasis:liver tumor		0	1	0	0
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		6	7	4	4

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Hematopoietic system}						
spleen	metastasis:epididymis tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Circulatory system}						
heart	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
{Digestive system}						
tongue	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
salivary gl	leukemic cell infiltration		<50> 2	<50> 2	<50> 0	<50> 0
liver	leukemic cell infiltration		<50> 4	<50> 4	<50> 0	<50> 2
	metastasis:subcutis tumor		1	0	0	0
	metastasis:spleen tumor		0	0	1	0
pancreas	leukemic cell infiltration		<50> 1	<50> 2	<50> 0	<50> 0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 3	<50> 1	<50> 2	<50> 0
	metastasis:liver tumor		1	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney	metastasis:lung tumor		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:spleen tumor		0	0	1	0
urin bladd	leukemic cell infiltration		<50> 1	<50> 2	<50> 0	<50> 0
	metastasis:liver tumor		0	0	1	0
{Reproductive system}						
epididymis	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 0
	metastasis:liver tumor		1	0	0	0
	metastasis:urinary bladder tumor		0	0	1	0
	metastasis:lymph node tumor		0	1	0	0
semin ves	leukemic cell infiltration		<50> 0	<50> 2	<50> 0	<50> 0
	metastasis:lymph node tumor		0	1	0	0
prostate	leukemic cell infiltration		<50> 1	<50> 3	<50> 0	<50> 1
	metastasis:lymph node tumor		0	1	0	0
prep/cli gl	metastasis:liver tumor		<50> 0	<50> 0	<50> 1	<50> 0
{Nervous system}						
brain	metastasis:peripheral nerve 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. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Group Name		Control	75ppm	150ppm	300ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Special sense organs/appendage}					
eye		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
Harder gl		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	0	1	0
{Musculoskeletal system}					
muscle		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
	metastasis:liver tumor	0	0	0	1
{Body cavities}					
peritoneum		<50>	<50>	<50>	<50>
	metastasis:lymph node tumor	0	1	0	0
< a > a : Number of animals examined at the site					
b b : Number of animals with lesion					

(JPT150)

BAIS4

APPENDIX N 2

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	13	12	15	8
Organ	Findings					
{Integumentary system/appandage}						
skin/app			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	2	0	0
subcutis			<13>	<12>	<15>	< 8>
	metastasis:liver tumor		1	0	0	0
{Respiratory system}						
lung			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		1	3	1	0
	metastasis:liver tumor		5	1	1	0
	metastasis:spleen tumor		0	0	1	0
	metastasis:urinary bladder tumor		0	0	1	0
{Hematopoietic system}						
bone marrow			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	1	1	0
	metastasis:spleen tumor		0	0	1	0
lymph node			<13>	<12>	<15>	< 8>
	metastasis:liver tumor		0	1	0	0
spleen			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		1	3	2	0
{Circulatory system}						
heart			<13>	<12>	<15>	< 8>
	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. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	13	12	15	8
Organ	Findings					
{Digestive system}						
tongue			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	1	0	0
salivary gl			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	2	0	0
liver			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		1	3	0	0
	metastasis:subcutis tumor		1	0	0	0
	metastasis:spleen tumor		0	0	1	0
pancreas			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	2	0	0
{Urinary system}						
kidney			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	1	1	0
	metastasis:liver tumor		1	0	0	0
	metastasis:lung tumor		0	0	1	0
	metastasis:spleen tumor		0	0	1	0
urin bladd			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	2	0	0
	metastasis:liver tumor		0	0	1	0
{Reproductive system}						
epididymis			<13>	<12>	<15>	< 8>
	leukemic cell infiltration		0	1	1	0

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name No. of Animals on Study	Control 13	75ppm 12	150ppm 15	300ppm 8
Organ	Findings					
{Reproductive system}						
epididymis	metastasis:liver tumor		<13> 1	<12> 0	<15> 0	< 8> 0
	metastasis:urinary bladder tumor		0	0	1	0
	metastasis:lymph node tumor		0	1	0	0
semin ves	leukemic cell infiltration		<13> 0	<12> 2	<15> 0	< 8> 0
	metastasis:lymph node tumor		0	1	0	0
prostate	leukemic cell infiltration		<13> 0	<12> 3	<15> 0	< 8> 0
	metastasis:lymph node tumor		0	1	0	0
prep/cli gl	metastasis:liver tumor		<13> 0	<12> 0	<15> 1	< 8> 0
{Nervous system}						
brain	metastasis:peripheral nerve tumor		<13> 0	<12> 0	<15> 1	< 8> 0
{Special sense organs/appendage}						
eye	leukemic cell infiltration		<13> 0	<12> 1	<15> 0	< 8> 0
Harder gl	leukemic cell infiltration		<13> 0	<12> 0	<15> 1	< 8> 0
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<13> 0	<12> 1	<15> 0	< 8> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 13	75ppm 12	150ppm 15	300ppm 8
-------	----------	---------------------------------------	---------------	-------------	--------------	-------------

{Body cavities}

peritoneum	metastasis:lymph node tumor	<13> 0	<12> 1	<15> 0	< 8> 0
------------	-----------------------------	-----------	-----------	-----------	-----------

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

(JPT150)

BAIS4

APPENDIX N 3

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

		Group Name No. of Animals on Study	Control 37	75ppm 38	150ppm 35	300ppm 42
Organ	Findings					
{Respiratory system}						
larynx			<37>	<38>	<35>	<42>
	leukemic cell infiltration		1	0	0	0
lung			<37>	<38>	<35>	<42>
	leukemic cell infiltration		3	0	1	1
	metastasis:liver tumor		3	0	2	2
{Hematopoietic system}						
bone marrow			<37>	<38>	<35>	<42>
	leukemic cell infiltration		1	0	1	0
	metastasis:liver tumor		0	0	0	1
spleen			<37>	<38>	<35>	<42>
	leukemic cell infiltration		5	4	2	4
	metastasis:epididymis tumor		0	0	0	1
{Digestive system}						
salivary gl			<37>	<38>	<35>	<42>
	leukemic cell infiltration		2	0	0	0
liver			<37>	<38>	<35>	<42>
	leukemic cell infiltration		3	1	0	2
pancreas			<37>	<38>	<35>	<42>
	leukemic cell infiltration		1	0	0	0
{Urinary system}						
kidney			<37>	<38>	<35>	<42>
	leukemic cell infiltration		3	0	1	0

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

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

		Group Name No. of Animals on Study	Control 37	75ppm 38	150ppm 35	300ppm 42
Organ	Findings					
{Urinary system}						
kidney			<37>	<38>	<35>	<42>
	metastasis:liver tumor		0	0	0	1
urin bladd			<37>	<38>	<35>	<42>
	leukemic cell infiltration		1	0	0	0
{Reproductive system}						
prostate			<37>	<38>	<35>	<42>
	leukemic cell infiltration		1	0	0	1
{Special sense organs/appendage}						
Harder gl			<37>	<38>	<35>	<42>
	leukemic cell infiltration		2	0	0	0
{Musculoskeletal system}						
muscle			<37>	<38>	<35>	<42>
	metastasis:liver tumor		0	0	0	1

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

APPENDIX N 4

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Group Name		Control	75ppm	150ppm	300ppm
No. of Animals on Study		50	50	50	49
Organ	Findings				
{Integumentary system/appandage}					
skin/app		<50>	<50>	<50>	<49>
	leukemic cell infiltration	1	1	0	1
{Respiratory system}					
nasal cavit		<50>	<50>	<50>	<49>
	leukemic cell infiltration	0	2	0	0
	metastasis:peripheral nerve tumor	0	0	0	1
	metastasis:Harderian gland tumor	0	1	0	0
larynx		<50>	<50>	<50>	<49>
	leukemic cell infiltration	1	0	0	0
lung		<50>	<50>	<50>	<49>
	leukemic cell infiltration	8	16	14	10
	metastasis:liver tumor	0	0	1	0
	metastasis:uterus tumor	5	6	4	7
	metastasis:bone tumor	0	0	1	1
	metastasis:peripheral nerve tumor	0	0	0	1
{Hematopoietic system}					
bone marrow		<50>	<50>	<50>	<49>
	leukemic cell infiltration	0	4	0	1
	metastasis:uterus tumor	1	2	0	1
lymph node		<50>	<50>	<50>	<49>
	leukemic cell infiltration	0	0	1	0

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

		Group Name No. of Animals on Study	Control 50	75ppm 50	150ppm 50	300ppm 49
Organ	Findings					
{Hematopoietic system}						
lymph node			<50>	<50>	<50>	<49>
	metastasis:uterus tumor		1	1	2	3
spleen			<50>	<50>	<50>	<49>
	leukemic cell infiltration		12	11	10	5
	metastasis:uterus tumor		0	0	2	0
{Circulatory system}						
heart			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	3	1	1
	metastasis:uterus tumor		0	0	1	0
{Digestive system}						
tongue			<50>	<50>	<50>	<49>
	leukemic cell infiltration		2	2	0	0
salivary gl			<50>	<50>	<50>	<49>
	leukemic cell infiltration		4	7	6	1
	metastasis:uterus tumor		0	1	0	0
liver			<50>	<50>	<50>	<49>
	leukemic cell infiltration		6	13	5	7
	metastasis:uterus tumor		6	8	10	9
	metastasis:bone tumor		0	0	1	1
pancreas			<50>	<50>	<50>	<49>
	leukemic cell infiltration		5	4	4	3

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	50	50	50	49
Organ	Findings					
{Digestive system}						
pancreas			<50>	<50>	<50>	<49>
	metastasis:uterus tumor		0	2	0	0
{Urinary system}						
kidney			<50>	<50>	<50>	<49>
	leukemic cell infiltration		5	7	5	3
	metastasis:uterus tumor		1	4	0	4
urin bladd			<50>	<50>	<50>	<49>
	leukemic cell infiltration		2	5	3	2
	metastasis:uterus tumor		1	0	0	1
{Endocrine system}						
thyroid			<50>	<50>	<50>	<49>
	leukemic cell infiltration		1	0	2	1
adrenal			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	1	0	1
{Reproductive system}						
ovary			<50>	<50>	<50>	<49>
	leukemic cell infiltration		5	5	2	3
	metastasis:uterus tumor		5	8	8	7
uterus			<50>	<50>	<50>	<49>
	leukemic cell infiltration		1	1	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	50	50	50	49
Organ	Findings					
{Reproductive system}						
vagina	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<49> 0
{Nervous system}						
brain	leukemic cell infiltration		<50> 2	<50> 4	<50> 0	<49> 0
	metastasis:peripheral nerve tumor		0	0	0	1
spinal cord	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<49> 0
{Special sense organs/appendage}						
eye	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<49> 0
Harder gl	leukemic cell infiltration		<50> 1	<50> 3	<50> 0	<49> 1
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<50> 0	<50> 2	<50> 0	<49> 1
{Body cavities}						
peritoneum	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<49> 1

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

APPENDIX N 5

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

		Group Name No. of Animals on Study	Control 23	75ppm 25	150ppm 26	300ppm 20
Organ	Findings					
{Integumentary system/appandage}						
skin/app	leukemic cell infiltration		<23> 1	<25> 1	<26> 0	<20> 0
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<23> 0	<25> 1	<26> 0	<20> 0
	metastasis:peripheral nerve tumor		0	0	0	1
	metastasis:Harderian gland tumor		0	1	0	0
larynx	leukemic cell infiltration		<23> 1	<25> 0	<26> 0	<20> 0
lung	leukemic cell infiltration		<23> 7	<25> 12	<26> 9	<20> 6
	metastasis:liver tumor		0	0	1	0
	metastasis:uterus tumor		4	4	3	6
	metastasis:bone tumor		0	0	1	1
	metastasis:peripheral nerve tumor		0	0	0	1
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<23> 0	<25> 2	<26> 0	<20> 0
	metastasis:uterus tumor		1	1	0	1
lymph node	metastasis:uterus tumor		<23> 1	<25> 1	<26> 1	<20> 3
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

		Group Name No. of Animals on Study	Control 23	75ppm 25	150ppm 26	300ppm 20
Organ	Findings					
{Hematopoietic system}						
spleen			<23>	<25>	<26>	<20>
	leukemic cell infiltration		6	8	5	3
	metastasis:uterus tumor		0	0	2	0
{Circulatory system}						
heart			<23>	<25>	<26>	<20>
	leukemic cell infiltration		0	3	1	0
{Digestive system}						
tongue			<23>	<25>	<26>	<20>
	leukemic cell infiltration		2	2	0	0
salivary gl			<23>	<25>	<26>	<20>
	leukemic cell infiltration		3	4	4	1
liver			<23>	<25>	<26>	<20>
	leukemic cell infiltration		6	9	3	4
	metastasis:uterus tumor		6	6	9	9
	metastasis:bone tumor		0	0	1	1
pancreas			<23>	<25>	<26>	<20>
	leukemic cell infiltration		5	3	3	2
	metastasis:uterus tumor		0	2	0	0
{Urinary system}						
kidney			<23>	<25>	<26>	<20>
	leukemic cell infiltration		4	4	3	2

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

		Group Name No. of Animals on Study	Control 23	75ppm 25	150ppm 26	300ppm 20
Organ	Findings					
{Urinary system}						
kidney			<23>	<25>	<26>	<20>
	metastasis:uterus tumor		1	2	0	3
urin bladd			<23>	<25>	<26>	<20>
	leukemic cell infiltration		2	5	2	1
	metastasis:uterus tumor		1	0	0	1
{Endocrine system}						
thyroid			<23>	<25>	<26>	<20>
	leukemic cell infiltration		1	0	2	1
adrenal			<23>	<25>	<26>	<20>
	leukemic cell infiltration		0	0	0	1
{Reproductive system}						
ovary			<23>	<25>	<26>	<20>
	leukemic cell infiltration		5	4	2	2
	metastasis:uterus tumor		5	6	7	7
uterus			<23>	<25>	<26>	<20>
	leukemic cell infiltration		1	0	1	0
{Nervous system}						
brain			<23>	<25>	<26>	<20>
	leukemic cell infiltration		1	3	0	0
	metastasis:peripheral nerve tumor		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0406
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	23	25	26	20
Organ	Findings					
{Nervous system}						
spinal cord	leukemic cell infiltration		<23> 0	<25> 1	<26> 0	<20> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<23> 0	<25> 2	<26> 0	<20> 1
{Musculoskeletal system}						
muscle	leukemic cell infiltration		<23> 0	<25> 1	<26> 0	<20> 0
{Body cavities}						
peritoneum	leukemic cell infiltration		<23> 1	<25> 1	<26> 1	<20> 1

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

APPENDIX N 6

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

Group Name		Control	75ppm	150ppm	300ppm
No. of Animals on Study		27	25	24	29
Organ	Findings				
{Integumentary system/appandage}					
skin/app		<27>	<25>	<24>	<29>
	leukemic cell infiltration	0	0	0	1
{Respiratory system}					
nasal cavit		<27>	<25>	<24>	<29>
	leukemic cell infiltration	0	1	0	0
lung		<27>	<25>	<24>	<29>
	leukemic cell infiltration	1	4	5	4
	metastasis:uterus tumor	1	2	1	1
{Hematopoietic system}					
bone marrow		<27>	<25>	<24>	<29>
	leukemic cell infiltration	0	2	0	1
	metastasis:uterus tumor	0	1	0	0
lymph node		<27>	<25>	<24>	<29>
	leukemic cell infiltration	0	0	1	0
	metastasis:uterus tumor	0	0	1	0
spleen		<26>	<25>	<24>	<29>
	leukemic cell infiltration	6	3	5	2
{Circulatory system}					
heart		<27>	<25>	<24>	<29>
	leukemic cell infiltration	0	0	0	1

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Group Name		Control	75ppm	150ppm	300ppm
No. of Animals on Study		27	25	24	29
Organ	Findings				
{Circulatory system}					
heart	metastasis:uterus tumor	<27> 0	<25> 0	<24> 1	<29> 0
{Digestive system}					
salivary gl	leukemic cell infiltration	<27> 1	<25> 3	<24> 2	<29> 0
	metastasis:uterus tumor	0	1	0	0
liver	leukemic cell infiltration	<27> 0	<25> 4	<24> 2	<29> 3
	metastasis:uterus tumor	0	2	1	0
pancreas	leukemic cell infiltration	<27> 0	<25> 1	<24> 1	<29> 1
{Urinary system}					
kidney	leukemic cell infiltration	<27> 1	<25> 3	<24> 2	<29> 1
	metastasis:uterus tumor	0	2	0	1
urin bladd	leukemic cell infiltration	<27> 0	<25> 0	<24> 1	<29> 1
{Endocrine system}					
adrenal	leukemic cell infiltration	<27> 0	<25> 1	<24> 0	<29> 0

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

STUDY NO. : 0406
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

		Group Name	Control	75ppm	150ppm	300ppm
		No. of Animals on Study	27	25	24	29
Organ	Findings					
{Reproductive system}						
ovary			<27>	<25>	<24>	<29>
	leukemic cell infiltration		0	1	0	1
	metastasis:uterus tumor		0	2	1	0
uterus			<27>	<25>	<24>	<29>
	leukemic cell infiltration		0	1	0	0
vagina			<27>	<25>	<24>	<29>
	leukemic cell infiltration		0	1	0	0
{Nervous system}						
brain			<27>	<25>	<24>	<29>
	leukemic cell infiltration		1	1	0	0
{Special sense organs/appendage}						
eye			<27>	<25>	<24>	<29>
	leukemic cell infiltration		1	0	0	0
Harder gl			<27>	<25>	<24>	<29>
	leukemic cell infiltration		1	1	0	0
{Musculoskeletal system}						
muscle			<27>	<25>	<24>	<29>
	leukemic cell infiltration		0	1	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

APPENDIX O 1

IDENTITY AND IMPURITY OF CYCLOHEXENE IN THE 2-YEAR INHALATION STUDY

IDENTITY AND IMPURITY OF CYCLOHEXENE IN THE 2-YEAR INHALATION STUDY

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

A. Lot No. : KSJ6321

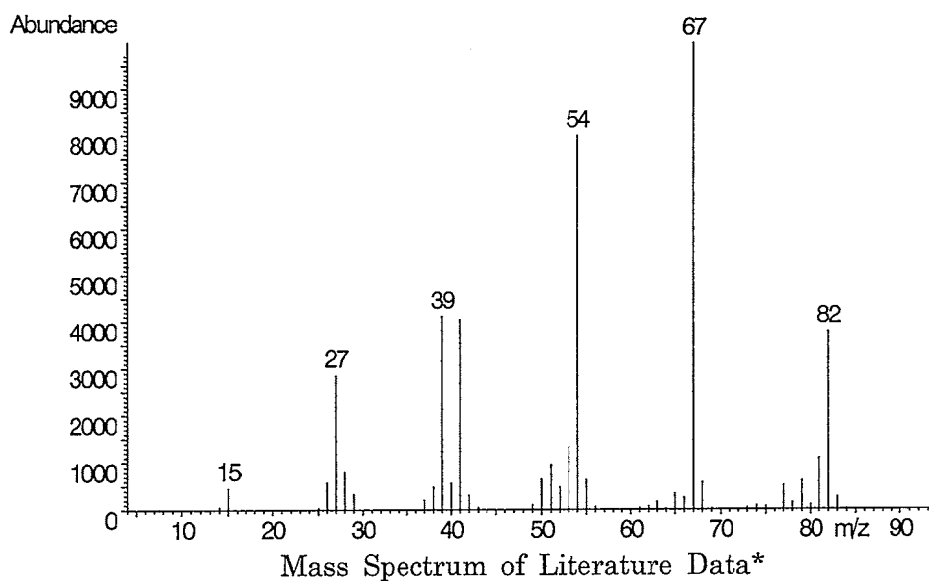
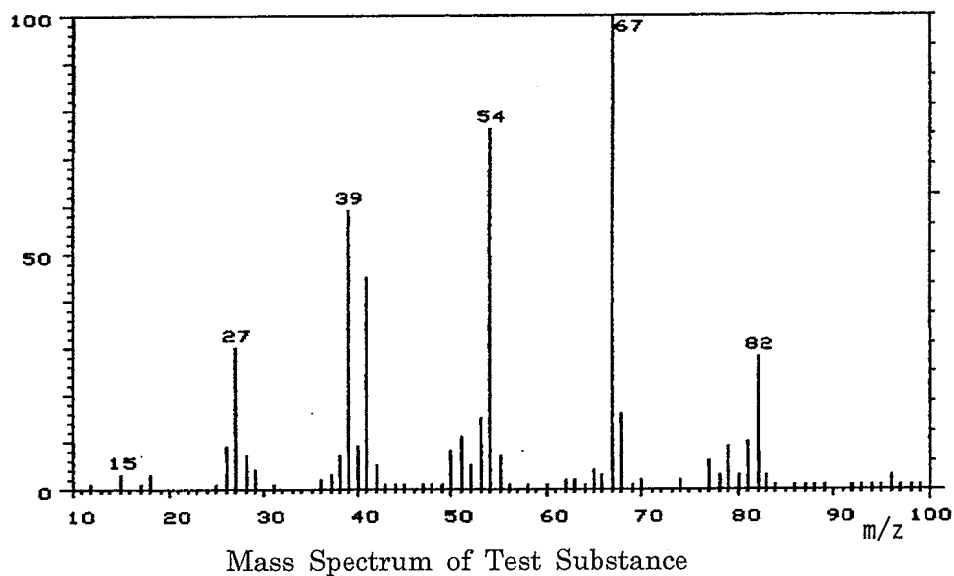
1. Spectral Data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

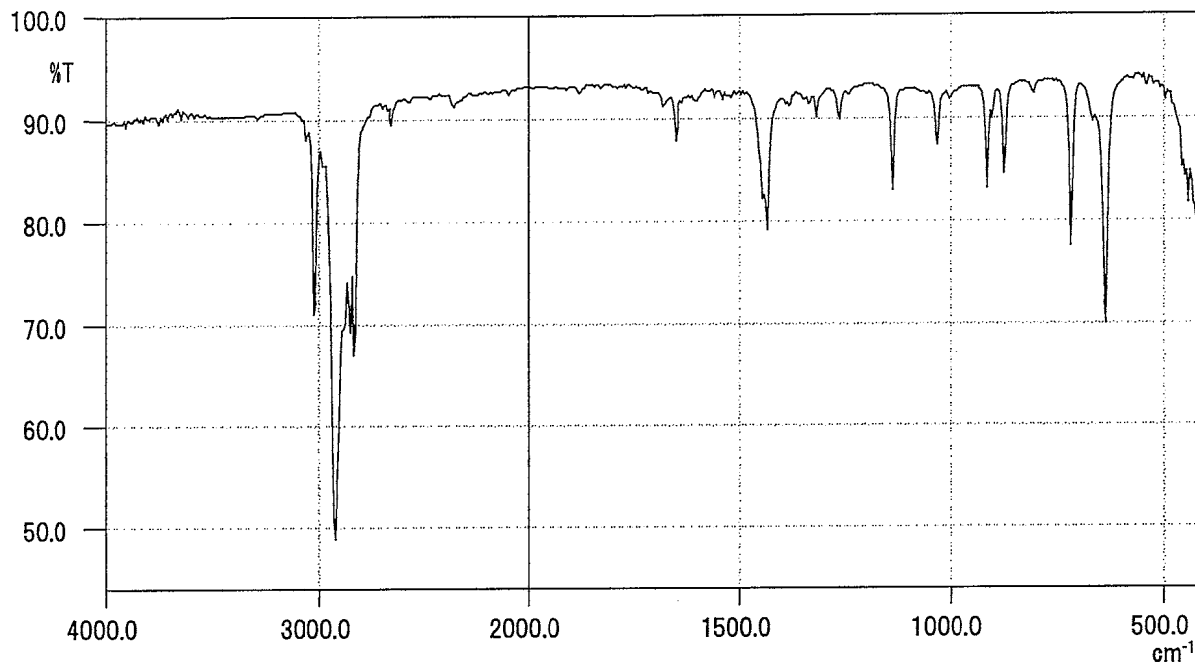
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed. New York, NY: John Wiley and Sons.)

Infrared Spectrometry

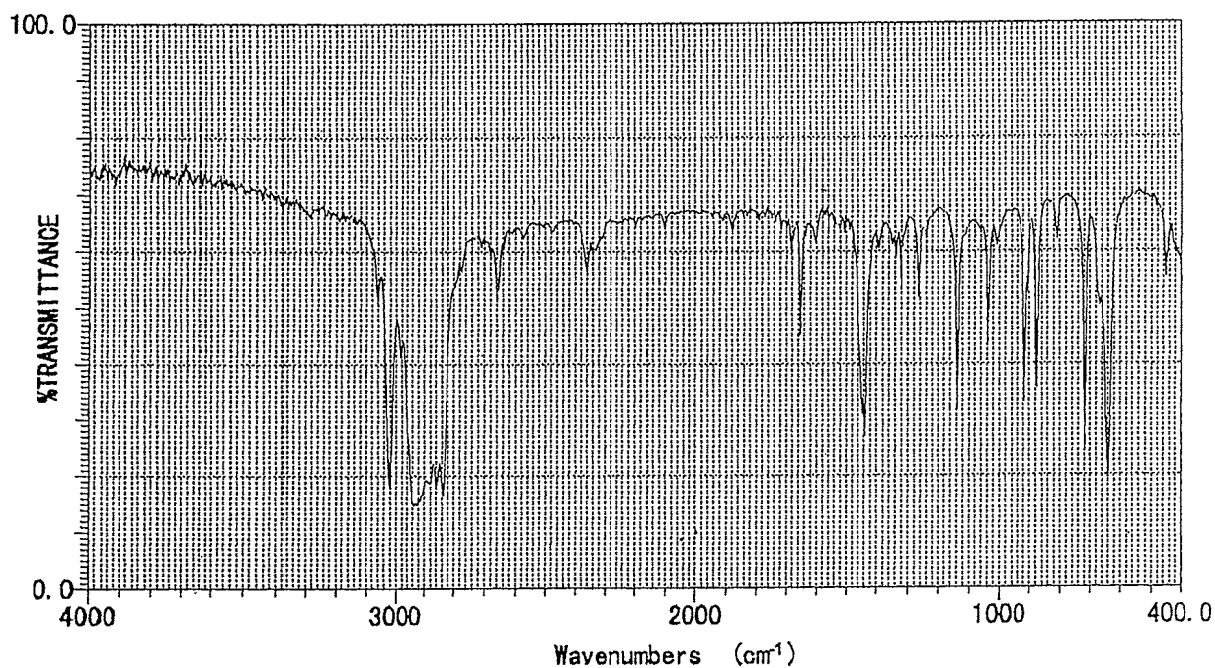
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm^{-1}



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 5890A Gas Chromatograph
Column : Methyl Silicone (0.53 mm ϕ \times 60 m)
Column Temperature: 60° C
Flow Rate : 15 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.039	1,3-Cyclohexadiene
	2	99.899	Cyclohexene
	3	0.062	1,4-Cyclohexadiene

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities. There were identified by comparing GC-MS with that of 1,3-cyclohexadiene(peak No. 1) and 1,4-cyclohexadiene(peak No. 3) in the cyclohexene. The amounts in the test substance were 0.039%(The quantity value by the standard sample was 0.035%.) and 0.062% (The quantity value by the standard sample was 0.052%.) with a gas chromatograph.

3. Conclusion: The test substance was identified as cyclohexene by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (cyclohexene) and two impurities. These impurities were 1,3-cyclohexadiene and 1,4-cyclohexadiene in the test substance.

B. Lot No. : ELN4601

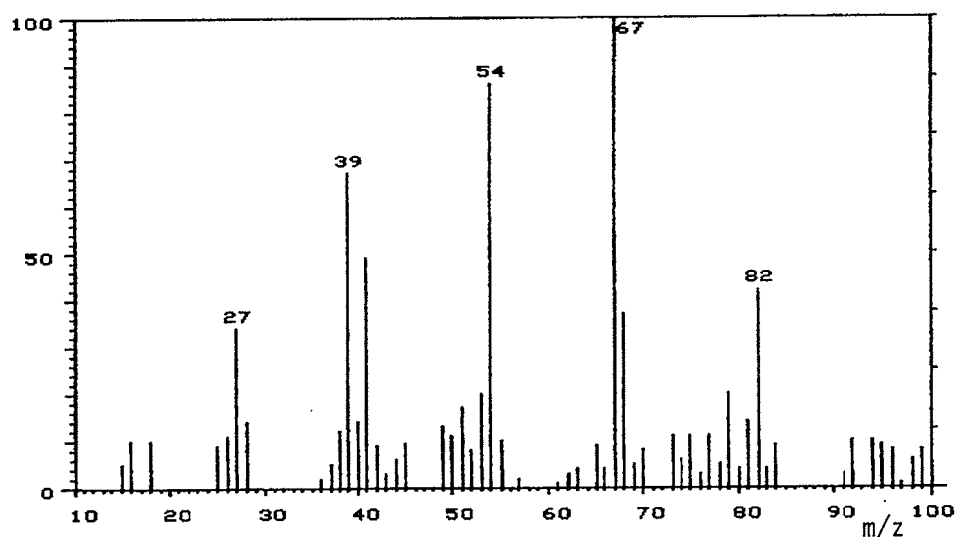
1. Spectral Data

Mass Spectrometry

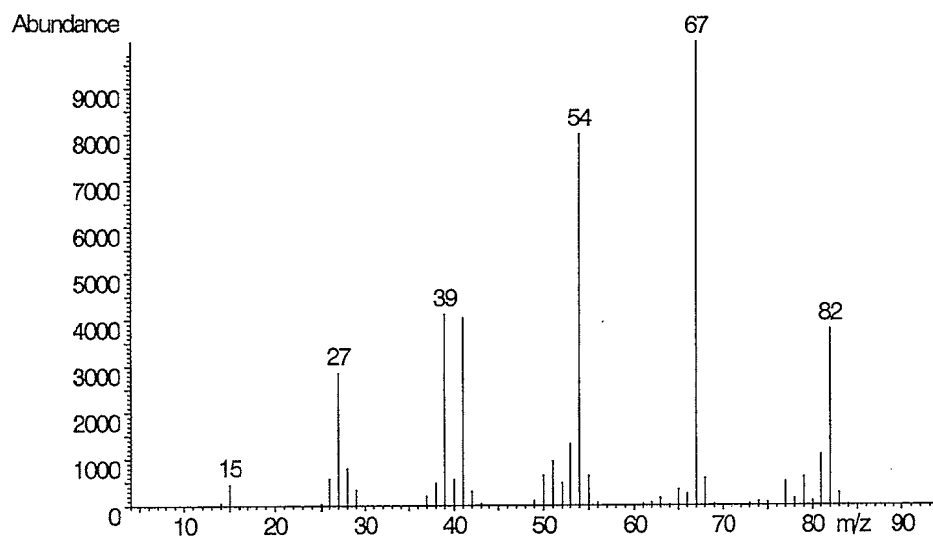
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

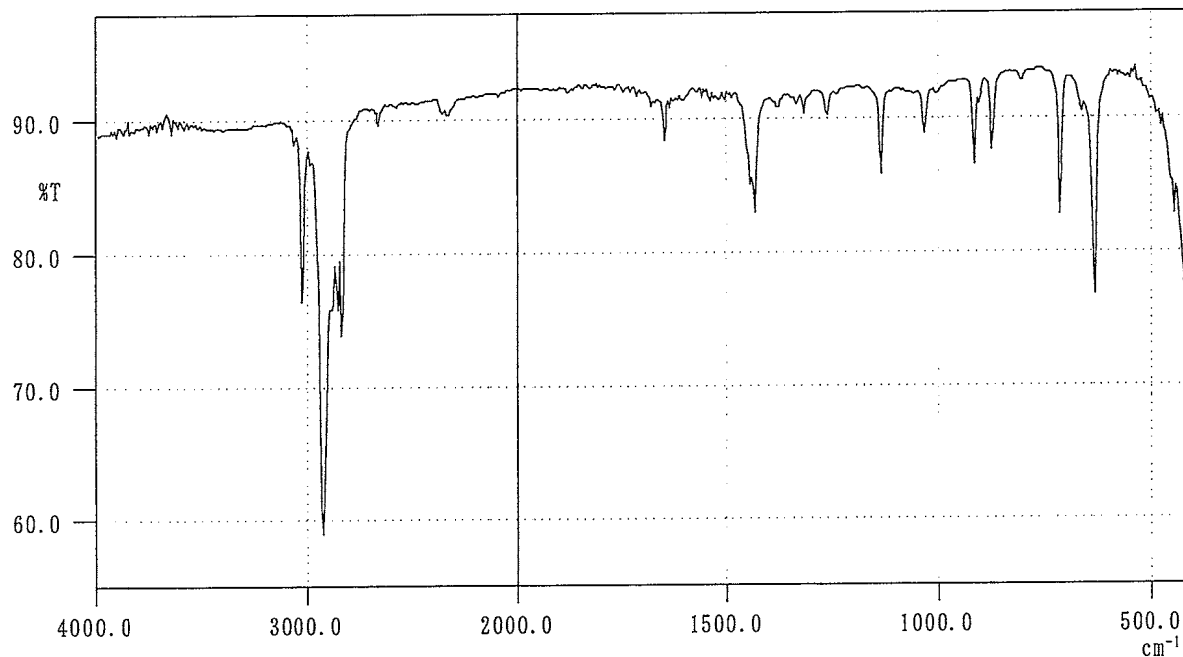
Result: The mass spectrum was consistent with literature spectrum.
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY:John Wiley and Sons.)

Infrared Spectrometry

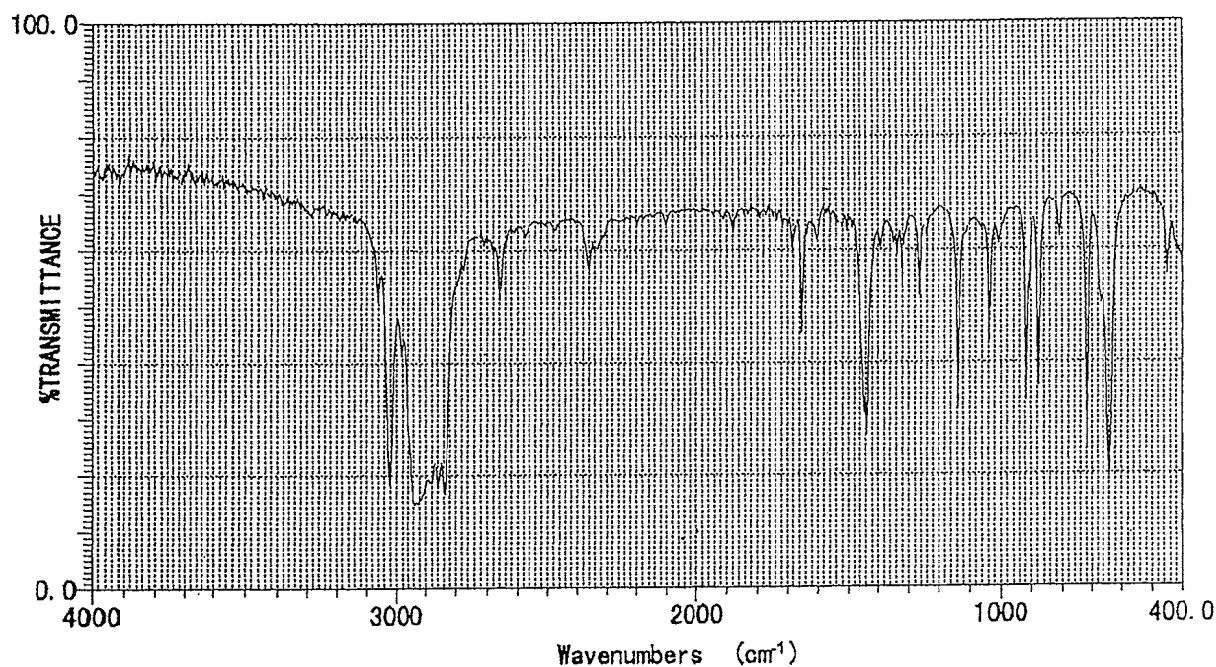
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm^{-1}



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 5890A Gas Chromatograph
Column : Methyl Silicone (0.53 mm ϕ \times 60 m)
Column Temperature: 60° C
Flow Rate : 15 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.150	1,3-Cyclohexadiene
	2	99.784	Cyclohexene
	3	0.066	1,4-Cyclohexadiene

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities. There were identified by comparing GC-MS with that of 1,3-cyclohexadiene(peak No. 1) and 1,4-cyclohexadiene(peak No. 3) in the cyclohexene. The amounts in the test substance were 0.150%(The quantity value by the standard sample was 0.137%.) and 0.066% (The quantity value by the standard sample was 0.055%.) with a gas chromatograph.

3. Conclusion: The test substance was identified as cyclohexene by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (cyclohexene) and two impurities. These impurities were 1,3-cyclohexadiene and 1,4-cyclohexadiene in the test substance.

C. Lot No. : ELG7745

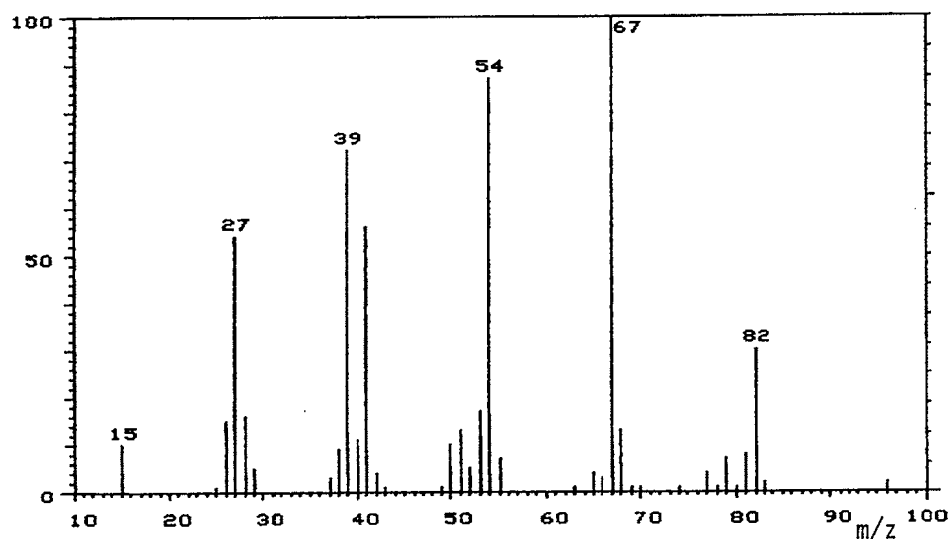
1. Spectral Data

Mass Spectrometry

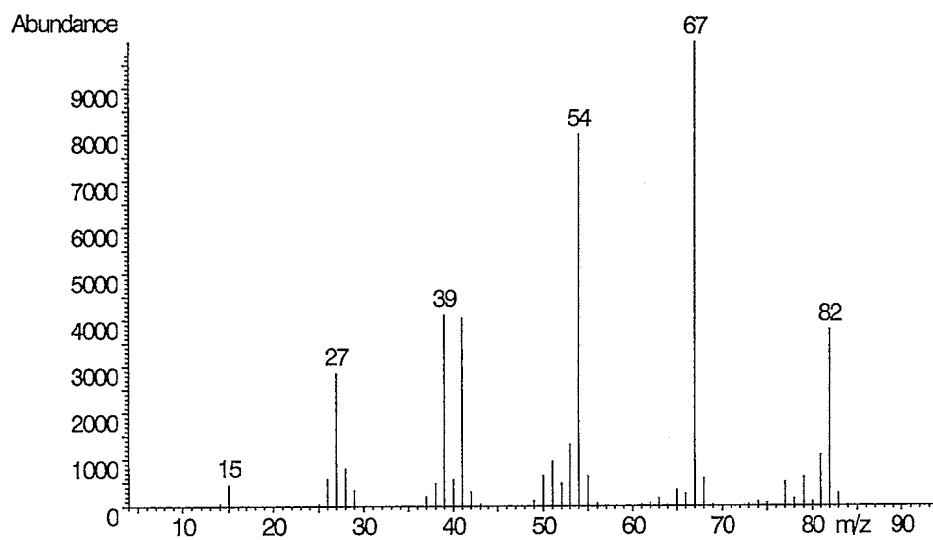
Instrument : Hitachi M-80B Mass Spectrometer

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.

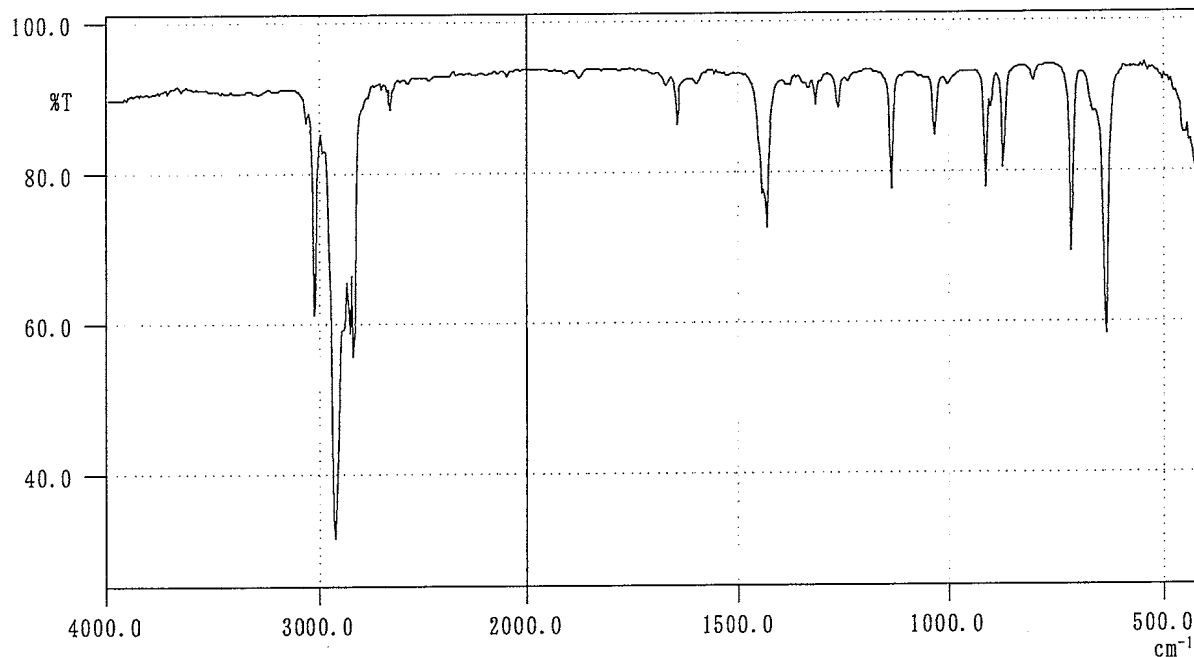
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY:John Wiley and Sons.)

Infrared Spectrometry

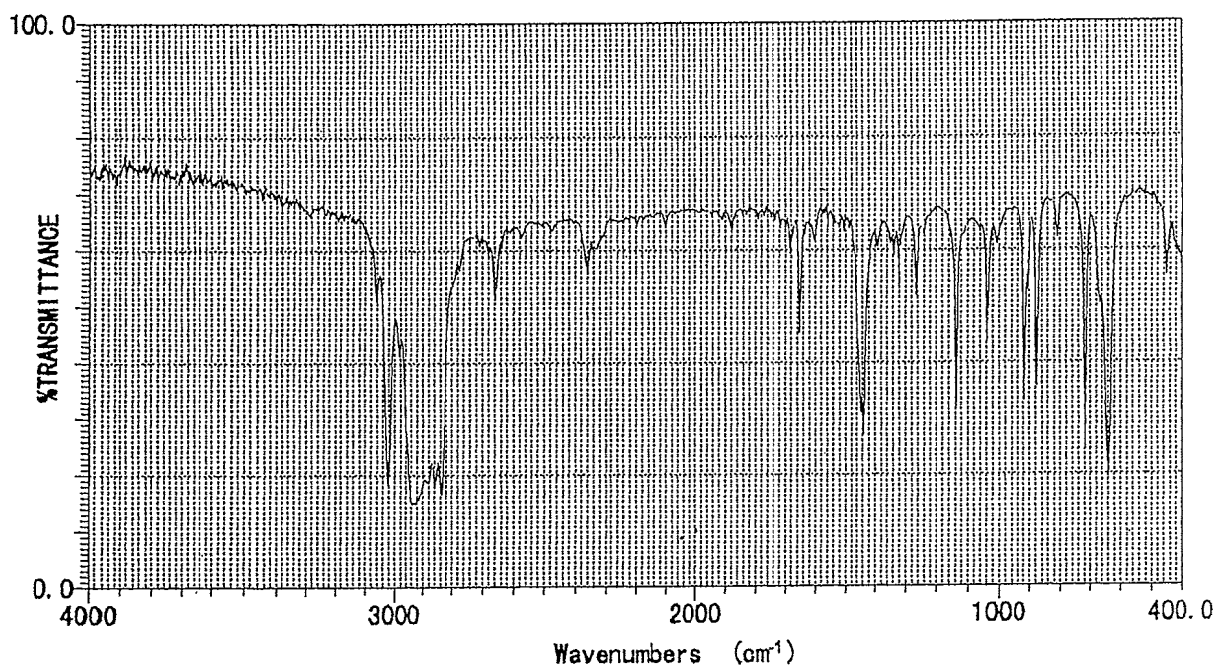
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm^{-1}



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 5890A Gas Chromatograph
Column : Methyl Silicone (0.53 mm ϕ \times 60 m)
Column Temperature: 60° C
Flow Rate : 15 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.148	1,3-Cyclohexadiene
	2	99.787	Cyclohexene
	3	0.065	1,4-Cyclohexadiene

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities. There were identified by comparing GC-MS with that of 1,3-cyclohexadiene(peak No. 1) and 1,4-cyclohexadiene(peak No. 3) in the cyclohexene. The amounts in the test substance were 0.148%(The quantity value by the standard sample was 0.134%.) and 0.065% (The quantity value by the standard sample was 0.055%.) with a gas chromatograph.

3. Conclusion: The test substance was identified as cyclohexene by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (cyclohexene) and two impurities. These impurities were 1,3-cyclohexadiene and 1,4-cyclohexadiene in the test substance.

D. Lot No. : DWM4754

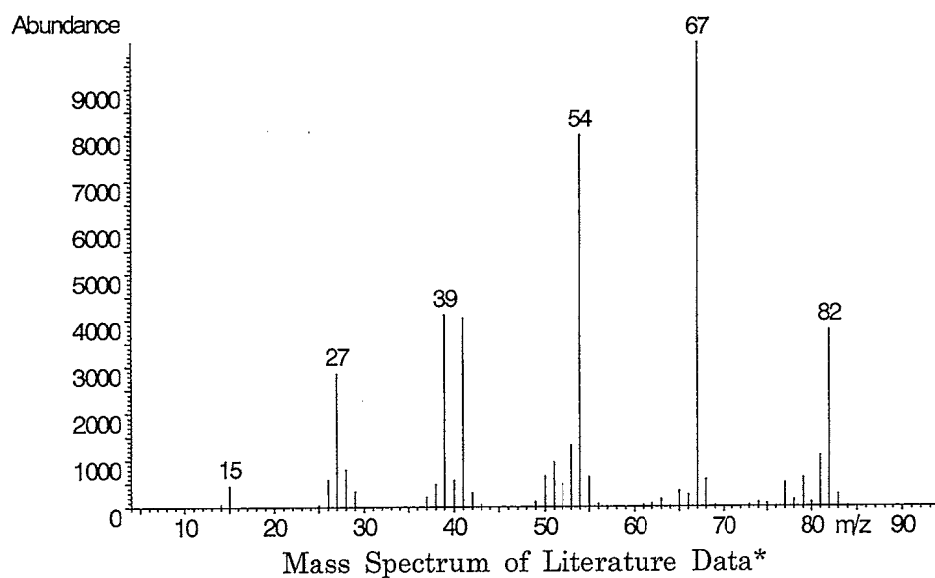
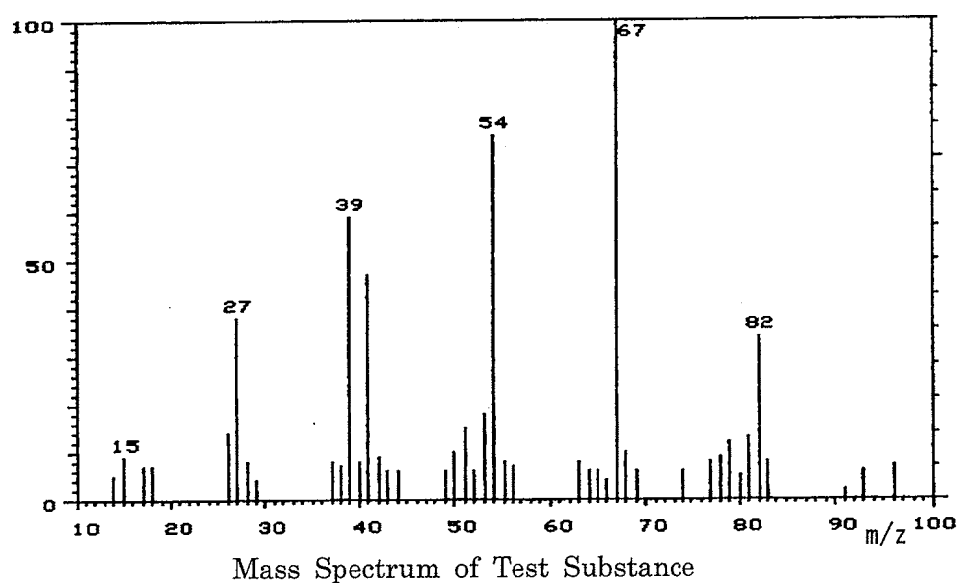
1. Spectral Data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Result: The mass spectrum was consistent with literature spectrum.

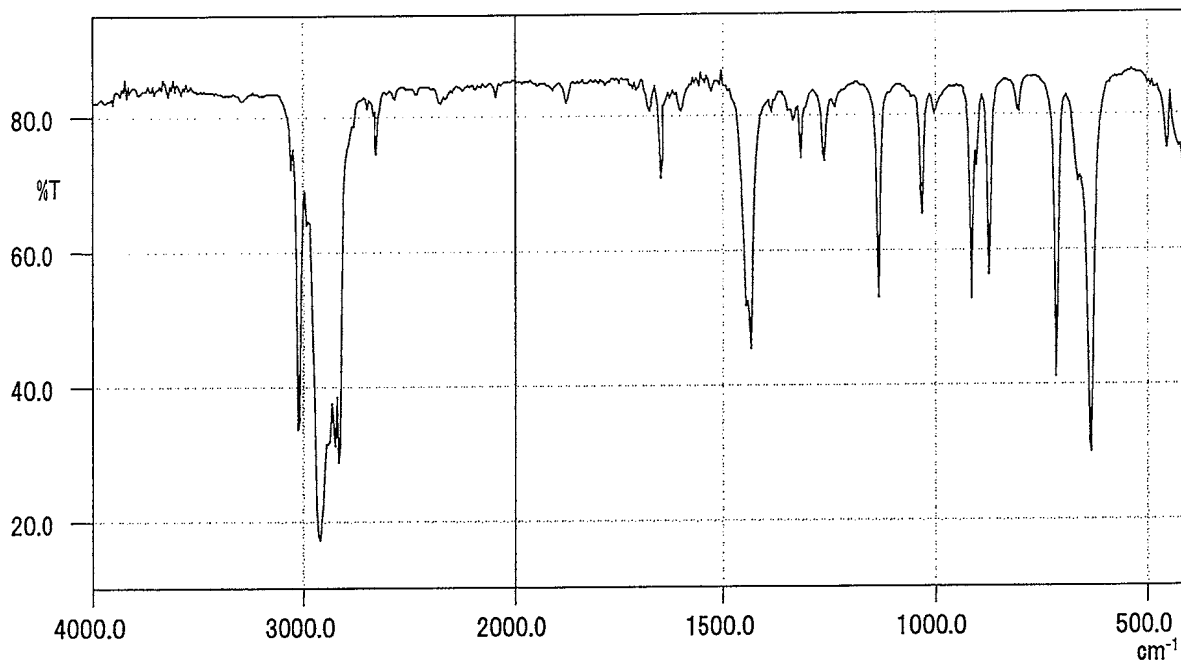
(*McLafferty FW, ed. 1994. Wiley Registry of Mass Spectral Data. 6th ed.
New York, NY:John Wiley and Sons.)

Infrared Spectrometry

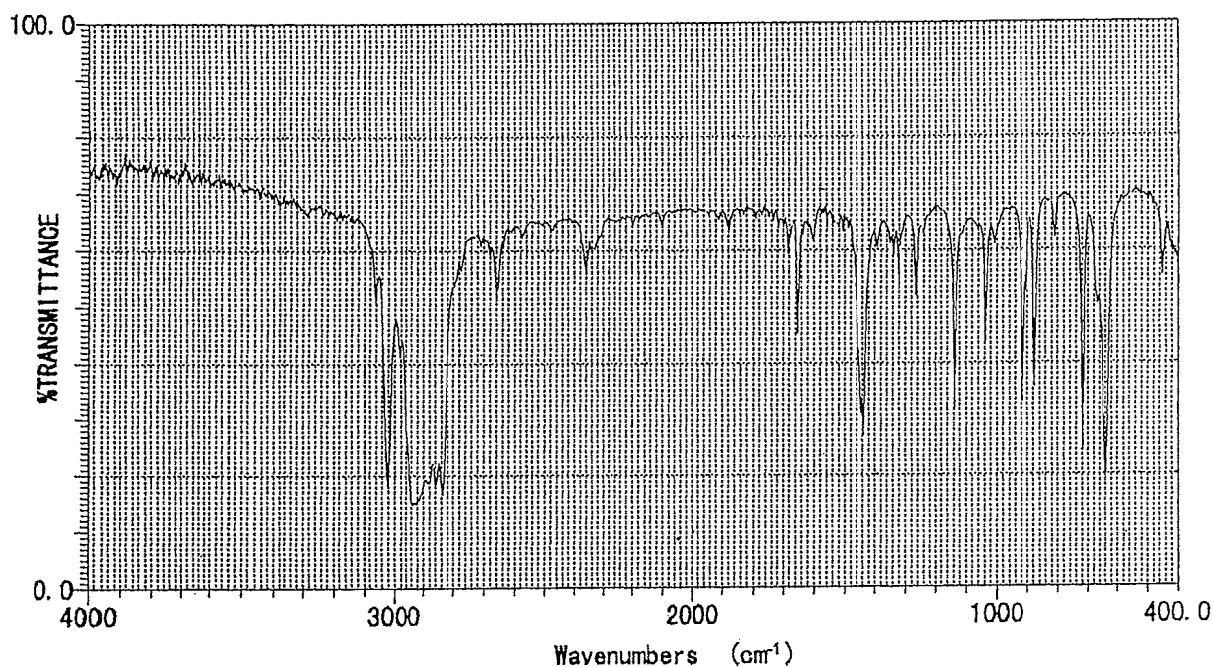
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm^{-1}



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 5890A Gas Chromatograph
Column : Methyl Silicone (0.53 mm ϕ \times 60 m)
Column Temperature: 60° C
Flow Rate : 15 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.091	1,3-Cyclohexadiene
	2	99.840	Cyclohexene
	3	0.069	1,4-Cyclohexadiene

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities. There were identified by comparing GC-MS with that of 1,3-cyclohexadiene(peak No. 1) and 1,4-cyclohexadiene(peak No. 3) in the cyclohexene. The amounts in the test substance were 0.091%(The quantity value by the standard sample was 0.055%.) and 0.069% (The quantity value by the standard sample was 0.040%.) with a gas chromatograph.

3. Conclusion: The test substance was identified as cyclohexene by mass spectrum and infrared spectrum. Gas chromatography indicated one major peak (cyclohexene) and two impurities. These impurities were 1,3-cyclohexadiene and 1,4-cyclohexadiene in the test substance.

APPENDIX O 2

STABILITY OF CYCLOHEXENE IN THE 2-YEAR INHALATION STUDY

STABILITY OF CYCLOHEXENE IN THE 2-YEAR INHALATION STUDY

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

A. Lot No. : KSJ6321

1. Sample : This lot was used from 1999.12.17 to 2000.6.16. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

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

Column Temperature: 60° C

Flow Rate : 15 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1999.11.25	1	6.710	0.039
	2	7.881	99.899
	3	8.658	0.062
2000.06.20	1	6.721	0.039
	2	7.894	99.899
	3	8.671	0.062

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 1999.11.25 and one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2000.6.20. No new trace impurity peak in the test substance analyzed on 2000.6.20 was detected.

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

B. Lot No. : ELN4601

1. Sample : This lot was used from 2000.6.19 to 2000.12.26. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

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

Column Temperature: 60° C

Flow Rate : 15 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2000.06.19	1	6.684	0.150
	2	7.895	99.784
	3	8.672	0.066
2001.01.04	1	6.684	0.149
	2	7.893	99.786
	3	8.670	0.065

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2000.6.19 and one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2001.1.4. No new trace impurity peak in the test substance analyzed on 2001.1.4 was detected.

3. Conclusion: The test substance was stable for about 6 months in a dark place at room temperature.

C. Lot No. : ELG7745

1. Sample : This lot was used from 2000.12.27 to 2001.6.28. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

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

Column Temperature: 60° C

Flow Rate : 15 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2000.12.25	1	6.683	0.148
	2	7.891	99.787
	3	8.667	0.065
2001.07.02	1	6.744	0.083
	2	7.914	99.854
	3	8.688	0.063

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2000.12.25 and one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2001.7.2. No new trace impurity peak in the test substance analyzed on 2001.7.2 was detected.

3. Conclusion: The test substance was stable for about 6 months in a dark place at room temperature.

D. Lot No. : DWM4754

1. Sample : This lot was used from 2001.6.29 to 2001.12.13. Test substance was stored in a dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

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

Column Temperature: 60° C

Flow Rate : 15 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
2001.06.27	1	6.745	0.091
	2	7.912	99.840
	3	8.688	0.069
2001.12.26	1	6.861	0.077
	2	8.053	99.839
	3	8.833	0.084

Result: Gas chromatography indicated one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2001.6.27 and one major peak (peak No. 2) and two impurities (peak No. 1, 3 < 0.5% of total area) analyzed on 2001.12.26. No new trace impurity peak in the test substance analyzed on 2001.12.26 was detected.

3. Conclusion: The test substance was stable for about 6 months in a dark place at room temperature.

APPENDIX P 1

CONCENTRATION OF CYCLOHEXENE IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATION OF CYCLOHEXENE IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration (ppm)	
	Mean	± S.D.
0ppm	0.0	± 0.0
75ppm	75.2	± 0.3
150ppm	150.4	± 0.6
300ppm	300.6	± 0.9

APPENDIX P 2

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

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

Group Name	Temperature(°C)			Humidity(%)			Ventilation Rate (L/min)			Air Changes (time/h)	
	Mean	±	S.D.	Mean	±	S.D.	Mean	±	S.D.	Mean	
0ppm	22.9	±	0.4	53.3	±	0.8	743.0	±	5.6	12.0	
75ppm	22.8	±	0.4	55.7	±	0.9	744.8	±	4.9	12.0	
150ppm	22.8	±	0.4	54.6	±	0.9	744.7	±	5.4	12.0	
300ppm	22.8	±	0.4	54.8	±	0.9	742.4	±	4.6	12.0	

APPENDIX Q

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

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

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 (ADVIA120 : Bayer Corporation)

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

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