

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

試験番号：0348

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APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
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
	750 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348
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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													
		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
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348
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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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0

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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													
		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
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1	1	1	1	1	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0

STUDY NO. : 0348
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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	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	2	2	2	2	2	3	3	3	3	3
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	3000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REPORT TYPE : A1 104

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
DEATH	Control	1	1	1	1	1	2	2	2	3	3	3	3	4	4
	750 ppm	3	3	3	3	3	3	3	4	4	4	4	4	4	4
	1500 ppm	2	2	2	3	3	4	4	4	4	4	4	4	4	5
	3000 ppm	3	3	3	4	4	4	4	5	5	5	5	5	6	6
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	1
	1500 ppm	0	0	0	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
DEATH	Control	4	4	4	5	5	5	5	5	5	6	6	6	6	6
	750 ppm	4	4	5	6	6	6	6	9	9	9	9	9	10	11
	1500 ppm	5	5	5	5	5	5	5	5	5	5	6	6	6	6
	3000 ppm	6	6	6	6	6	6	6	6	6	6	6	6	6	6
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	1	1	1	1	1	1	1	1	2	2
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	1	1	1	0	0	1	1	1	1	0	0	0	1
	750 ppm	1	2	1	0	0	0	1	0	0	0	0	0	1	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	6	6	8	8	11	12	12
	750 ppm	13	13	13	13	13	13	13
	1500 ppm	7	7	7	7	7	8	10
	3000 ppm	6	6	6	6	6	6	7
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	2	2	2	2	2	2	2
	3000 ppm	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
PILOERECTION	Control	1	1	1	2	0	0	0
	750 ppm	0	0	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	0

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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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPIHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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 ANIMAL : MOUSE Crj:BDP1
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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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	3	3	3	3	3	3	3	3	3	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	1	1	1	1	1	1	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	1	1	1	1	1	1	2	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	750 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	3	0	3	3	3	3	3	3	3	3	3	3	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	0	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	0	1	1	1	1	1	1	1	1	1	1	1	2
	750 ppm	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day			87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
		84-7	85-7	86-7											
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	0	0	0	0	0	1	2	2	2	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	0	0	0	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	1	2	2	2
	750 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	0
	1500 ppm	1	1	1	1	1	1	1	1	2	3	2	2	2	2
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
FROG BELLY	Control	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	1	1	1
	3000 ppm	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	4	4	4	4	4	4	2
	3000 ppm	0	0	0	0	0	0	0
LACRYMATION	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	1
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0
	750 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	1	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0

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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	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1500 ppm	1	1	1	1	1	1	2	2	2	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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												
INTERNAL MASS	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	2
	750 ppm	2	2	2		2	1	1	1	1	1	1	2	2	2	2
	1500 ppm	1	1	1		1	1	1	1	1	2	2	2	1	1	1
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0		0	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		1	1	1	1	1	1	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	1	1	1	1	1	1	0	0
EDEMA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
INTERNAL MASS	Control	3	0	2	2	2	1	3	3	3	1	1	1	1	1
	750 ppm	3	0	4	4	4	4	4	3	3	3	3	3	4	4
	1500 ppm	1	0	1	1	1	1	1	1	2	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	750 ppm	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0

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Clinical sign	Group Name	Administration Week-day													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
INTERNAL MASS	Control	1	1	2	1	1	1	4	1	1	1	2	2	4	3
	750 ppm	4	4	3	2	3	4	4	3	3	3	3	3	2	2
	1500 ppm	1	1	2	2	1	2	2	2	2	2	2	2	3	3
	3000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. EAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	750 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
INTERNAL MASS	Control	3	4	7	7	6	5	5
	750 ppm	2	2	2	2	2	2	2
	1500 ppm	3	4	6	6	6	5	5
	3000 ppm	1	1	2	2	2	2	2
M. EAR	Control	1	1	1	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0

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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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

CLINICAL OBSERVATION (SUMMARY)
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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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ANIMAL : MOUSE Crj:BDF1
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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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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 ANIMAL : MOUSE Crj:BDf1
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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	0	1	0	0	0	1	1	1	1	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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Clinical sign	Group Name	Administration Week-day													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	1	2	2
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	1
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	1
	1500 ppm	0	0	0	0	1	0	0	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
ULCER	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
CRUSTA	Control	2	2	2	2	2	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0
TORTICOLLIS	Control	2	2	2	2	1	1	1
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	1	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1
ABNORMAL RESPIRATION	Control	0	1	1	1	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1
BRADYPNEA	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	1

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
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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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	0	0	0	1	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0348
ANIMAL : MOUSE Crj:BD71
REPORT TYPE : A1 104

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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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0348
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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0348
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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	1	0	0	0	0	0	0	0	0	1	0	0
	750 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDP1
 REPORT TYPE : A1 104

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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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	2	0	0	0	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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				73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		71-7	72-7	72-7												
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	1	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0		0	0	0	1	0	0	0	0	1	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	1	1	0	0
	750 ppm	0	0	0		0	0	0	1	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	1	0	1	1	1	1	1	1	1	0
	3000 ppm	0	0	0		0	0	0	1	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0348
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													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
SMALL STOOL	Control	0	0	1	0	0	0	1	1	1	1	0	0	0	1
	750 ppm	0	1	1	0	0	0	1	1	1	0	0	0	1	0
	1500 ppm	0	0	0	0	0	0	1	0	0	1	0	1	2	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	1	1	1	1	0	1	1	2
	750 ppm	0	1	0	0	0	1	2	1	2	0	1	1	0	0
	1500 ppm	0	1	2	1	1	1	1	0	1	1	0	1	2	1
	3000 ppm	0	1	1	1	0	0	0	0	0	0	0	0	1	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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STUDY NO. : 0348
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						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
SMALL STOOL	Control	1	1	1	2	0	0	0
	750 ppm	0	0	0	0	0	0	1
	1500 ppm	0	0	1	0	0	0	0
	3000 ppm	0	0	0	0	0	1	0
OLIGO-STOOL	Control	3	3	2	2	0	0	0
	750 ppm	0	1	1	1	1	1	2
	1500 ppm	0	0	4	2	1	1	0
	3000 ppm	0	0	0	0	0	0	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0
	750 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0

(HAN190)

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APPENDIX A 2

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

STUDY NO. : 0348
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													
		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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0348
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													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ANIMAL : MOUSE Crj:BDF1
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CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

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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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	2
	500 ppm	1	1	1	1	1	1	1	1	2	2	3	3	3	3
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	2
MORIBUND SACRIFICE	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
DEATH	Control	2	3	3	3	3	3	3	3	4	4	5	5	5	5
	500 ppm	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	4500 ppm	2	3	3	3	3	3	3	3	3	4	4	4	4	4
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day			87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
		84-7	85-7	86-7											
DEATH	Control	5	5	5	6	7	7	7	7	7	8	9	9	9	9
	500 ppm	5	6	6	6	6	7	8	9	11	11	12	14	15	17
	1500 ppm	2	2	3	3	5	6	6	7	8	8	9	10	10	12
	4500 ppm	5	5	5	5	6	6	7	7	8	8	8	9	9	9
MORIBUND SACRIFICE	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	500 ppm	1	1	1	2	2	2	2	2	2	3	3	3	3	3
	1500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	1	1	0	0	0	1	0	0	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	10	11	13	13	14	16	16
	500 ppm	17	17	18	19	21	21	22
	1500 ppm	12	14	15	17	18	18	18
	4500 ppm	9	10	10	11	11	12	12
MORIBUND SACRIFICE	Control	2	2	3	3	3	3	3
	500 ppm	3	4	4	4	4	4	4
	1500 ppm	1	2	2	3	4	4	4
	4500 ppm	1	1	1	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0	0
	500 ppm	0	0	0	0	0	1	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	1	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	1
	500 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0

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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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	0	2	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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	1	1	1	1	1	1	1	1	1	1	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1500 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1

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Clinical sign	Group Name	Administration Week-day				73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		71-7	72-7	72-7												
PILOERECTION	Control	1	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		1	1	1	1	1	1	1	1	1	2	2
	4500 ppm	0	0	0		1	1	1	1	1	1	1	1	1	1	1
TRAUMA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0		0	0	0	0	0	1	1	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
SOILED PERI GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0		0	0	0	1	0	0	0	0	0	1	1
	1500 ppm	1	0	1		1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	1	0	1		1	1	1	1	1	1	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day			87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
		84-7	85-7	86-7											
PILOERECTION	Control	0	0	1	0	0	0	0	0	1	1	0	0	0	0
	500 ppm	0	0	0	1	2	1	0	0	1	3	5	4	3	2
	1500 ppm	2	2	2	3	2	1	2	1	1	3	1	1	1	0
	4500 ppm	0	0	0	1	1	1	0	0	2	4	4	3	3	4
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	1	0	2	1	0	1	0	0	0	0	0	0	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	2	3	2	2	2	3	3
	500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	1
	1500 ppm	1	1	2	2	2	2	2	2	2	2	1	1	2	2
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
PILOERECTION	Control	0	0	0	1	1	2	2
	500 ppm	3	2	2	3	3	3	2
	1500 ppm	1	1	2	2	2	2	2
	4500 ppm	4	3	4	4	4	5	3
TRAUMA	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	1	1	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	1	1	1	1	1
	500 ppm	0	1	1	0	0	0	0
	1500 ppm	1	2	1	0	0	0	0
	4500 ppm	1	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	1
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	1
	4500 ppm	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	2	2	1	1	1	1
	500 ppm	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	0	0	0
	4500 ppm	1	2	3	3	3	1	1

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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	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		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	1	1	1	1
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
INTERNAL MASS	Control	1	1	1	1	0	0	0	1	1	1	1	1	1	0
	500 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	2	2	2	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
INTERNAL MASS	Control	1	0	0	0	0	1	2	2	1	1	1	1	1	1
	500 ppm	1	0	1	2	2	3	3	3	2	2	2	2	2	3
	1500 ppm	0	0	2	2	2	2	2	2	2	3	3	2	3	3
	4500 ppm	2	0	1	1	1	2	1	2	2	2	2	2	2	2
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
INTERNAL MASS	Control	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	500 ppm	2	1	1	5	6	5	5	3	3	4	4	4	2	2
	1500 ppm	3	3	3	3	5	4	6	5	7	8	7	7	7	5
	4500 ppm	1	1	2	3	2	2	2	1	1	1	1	1	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	1	1	1	1	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	1	2	2	2	2	2	2
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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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. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		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. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	500 ppm	0	0	0	1	1	0	0	0	1	0	1	0	1	0
	1500 ppm	0	0	1	2	0	0	0	0	0	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	500 ppm	0	0	0	1	2	1	0	0	1	0	1	0	1	0
	1500 ppm	0	0	1	2	0	0	0	0	0	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
M. TAIL	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	1
	1500 ppm	0	0	0	0	1	1	1
	4500 ppm	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	1	1
	1500 ppm	0	0	2	2	1	1	1
	4500 ppm	0	0	0	1	1	1	1
ABNORMAL RESPIRATION	Control	0	0	1	0	0	0	0
	500 ppm	0	0	0	0	0	1	1
	1500 ppm	0	0	2	3	1	1	1
	4500 ppm	0	0	0	1	1	1	1
TACHYPNEA	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	1	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0
	1500 ppm	0	0	0	1	0	0	0
	4500 ppm	0	0	0	0	0	0	0

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 73

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

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 74

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

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 75

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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 76

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
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	1	1	1	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 77

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

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 78

Clinical sign	Group Name	Administration Week-day			73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		71-7	72-7	72-7											
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	1	1	0	0	0	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	1	0	1	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	2	1	1	1	0	1	0
	1500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	1
	4500 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 79

Clinical sign	Group Name	Administration Week-day													
		84-7	85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7
SMALL STOOL	Control	0	0	2	1	1	1	0	0	0	1	0	0	0	0
	500 ppm	1	1	2	2	1	1	0	0	0	1	2	1	0	0
	1500 ppm	0	1	1	2	0	0	0	0	0	0	1	0	0	1
	4500 ppm	0	0	0	0	0	1	0	0	0	0	0	0	1	2
OLIGO-STOOL	Control	0	0	1	0	0	0	0	0	0	1	1	0	0	0
	500 ppm	2	1	1	1	2	1	0	0	0	4	3	2	2	2
	1500 ppm	1	1	1	1	2	1	0	1	1	1	1	0	0	1
	4500 ppm	0	0	0	0	0	0	0	0	0	0	2	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	4500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

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

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 80

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

(HAN190)

BATS 3

APPENDIX B 1

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

STUDY NO. : 0348
 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	23.0± 0.8	23.6± 0.8	24.6± 1.3	25.2± 1.2	25.8± 1.5	26.9± 1.4	27.6± 1.6
750 ppm	23.0± 0.8	23.4± 1.0	24.6± 1.5	25.0± 1.0	26.0± 1.1	26.7± 1.3	27.2± 1.4
1500 ppm	23.0± 0.8	23.4± 0.9	24.6± 1.0	25.2± 0.9	25.6± 1.1	26.1± 1.3**	26.2± 1.2**
3000 ppm	23.0± 0.8	22.8± 1.4**	23.8± 1.3**	24.3± 1.2**	24.8± 1.0**	25.3± 1.2**	25.1± 1.2**

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

Test of Dunnett

STUDY NO. : 0348
 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	28.6± 1.8	29.2± 1.9	29.8± 2.1	30.8± 2.3	32.1± 2.4	32.3± 2.5	33.2± 2.7
750 ppm	28.0± 1.5	28.7± 1.7	29.2± 1.7	30.4± 2.0	31.3± 2.0	31.5± 2.3	32.4± 2.4
1500 ppm	27.2± 1.5**	27.6± 1.6**	28.4± 1.8**	29.1± 2.1**	30.0± 2.3**	30.1± 2.3**	31.1± 2.5**
3000 ppm	26.0± 1.4**	26.3± 1.4**	26.9± 1.3**	27.3± 1.4**	27.9± 1.7**	28.1± 1.8**	29.1± 1.9**

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

Test of Dunnett

STUDY NO. : 0348
 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	33.4± 2.7	36.2± 3.2	38.1± 3.8	40.1± 4.1	41.9± 4.3	42.7± 4.3	44.2± 4.3
750 ppm	32.5± 2.4	35.4± 2.6	36.7± 3.0	38.5± 3.2	40.0± 3.5	41.0± 3.7	42.2± 3.8*
1500 ppm	31.2± 2.5**	33.5± 3.0**	34.5± 3.0**	35.8± 3.4**	36.9± 3.8**	37.5± 3.7**	38.4± 3.8**
3000 ppm	29.1± 1.9**	30.9± 2.1**	31.7± 2.3**	32.7± 2.6**	33.5± 2.7**	33.9± 2.7**	34.7± 3.0**

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

Test of Dunnett

STUDY NO. : 0348
 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	44.9± 4.5	46.5± 4.5	47.4± 4.3	48.1± 4.6	48.5± 4.6	49.4± 4.9	50.5± 5.0
750 ppm	43.3± 4.0	44.7± 4.0	45.6± 4.0	46.3± 4.1	46.4± 3.9	48.0± 4.2	48.7± 4.2
1500 ppm	39.4± 4.0**	40.3± 4.6**	40.8± 4.8**	41.7± 4.8**	41.4± 5.1**	42.5± 5.2**	42.6± 5.5**
3000 ppm	35.6± 3.2**	36.4± 3.7**	37.0± 4.1**	37.9± 4.0**	38.3± 4.1**	39.3± 4.5**	39.3± 4.4**

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

Test of Dunnett

STUDY NO. : 0348
 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	51.1± 4.6	51.1± 4.9	51.2± 5.0	51.4± 5.2	51.2± 5.8	51.8± 6.2	52.0± 6.3
750 ppm	49.1± 4.4	48.4± 4.9*	48.8± 4.3	48.8± 4.4*	47.9± 4.7*	47.8± 5.4**	47.3± 5.8**
1500 ppm	42.9± 6.2**	42.8± 6.3**	42.9± 5.9**	43.0± 6.4**	42.0± 5.9**	42.0± 5.7**	41.4± 5.6**
3000 ppm	39.5± 4.8**	39.2± 4.9**	39.0± 4.9**	39.0± 4.8**	38.3± 4.8**	38.6± 4.7**	38.0± 4.7**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0348
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	50.7± 7.9	51.0± 6.9	51.1± 6.5
750 ppm	47.1± 5.7	45.9± 5.9	45.8± 5.8**
1500 ppm	41.3± 5.3**	40.8± 5.2**	40.4± 5.2**
3000 ppm	37.7± 4.6**	37.5± 4.4**	37.4± 4.6**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			
(HAN260)			BAIS 3

APPENDIX B 2

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

STUDY NO. : 0348
 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	18.9± 0.7	19.4± 1.0	19.8± 0.9	20.2± 1.2	21.0± 0.9	21.4± 0.9	21.9± 1.0
500 ppm	18.9± 0.7	18.9± 1.1	20.0± 0.7	20.2± 0.6	21.2± 0.8	21.5± 0.8	21.9± 0.9
1500 ppm	18.9± 0.7	19.3± 1.2	19.8± 0.8	20.2± 0.9	21.1± 1.0	21.3± 1.1	21.9± 1.2
4500 ppm	18.9± 0.7	18.5± 0.8**	19.2± 0.8**	19.7± 0.8**	20.1± 0.7**	20.6± 0.8**	21.1± 0.9**

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

Test of Dunnett

STUDY NO. : 0348
 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	22.4± 1.0	22.8± 0.9	23.3± 1.3	23.4± 1.1	24.0± 1.2	24.0± 1.3	24.4± 1.2
500 ppm	22.5± 0.8	22.7± 0.8	23.2± 1.0	23.4± 0.9	24.0± 1.1	24.0± 1.3	24.3± 1.0
1500 ppm	22.4± 1.2	22.6± 1.3	23.1± 1.2	23.1± 1.3	23.6± 1.3	23.5± 1.2	24.0± 1.4
4500 ppm	21.6± 1.1**	21.8± 1.0**	22.5± 1.1**	22.4± 1.2**	23.0± 1.1**	23.0± 1.2**	23.2± 1.1**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 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	24.6± 1.3	26.0± 1.8	26.6± 2.2	27.9± 2.3	29.0± 2.7	29.4± 2.7	29.8± 2.9
500 ppm	24.4± 1.2	25.6± 1.7	26.5± 2.1	27.6± 2.6	28.4± 2.8	28.8± 3.0	29.7± 3.1
1500 ppm	23.9± 1.3*	24.7± 1.5**	25.4± 1.8**	26.4± 1.9**	26.6± 2.0**	26.7± 1.8**	27.1± 2.1**
4500 ppm	23.3± 1.2**	23.9± 1.3**	24.5± 1.4**	25.0± 1.8**	25.2± 1.8**	25.5± 1.8**	25.8± 1.7**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 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	30.6± 3.0	31.3± 3.1	32.1± 3.3	32.6± 3.5	32.8± 3.3	33.6± 3.7	34.5± 3.8			
500 ppm	30.1± 3.0	30.9± 3.4	31.5± 3.4	31.7± 3.9	32.5± 4.3	32.9± 4.4	33.1± 4.5			
1500 ppm	27.7± 2.4**	28.3± 2.9**	28.5± 2.8**	28.5± 2.5**	29.1± 2.8**	29.2± 2.8**	29.6± 2.7**			
4500 ppm	25.9± 1.7**	26.2± 2.0**	26.4± 1.9**	26.7± 2.1**	26.6± 2.0**	27.0± 2.0**	27.1± 2.2**			

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week											
	70		74		78		82		86		90		94	
Control	35.1±	3.6	35.2±	3.5	35.5±	4.1	36.1±	3.8	34.8±	4.7	35.7±	4.2	36.0±	3.9
500 ppm	33.5±	4.8	33.2±	4.6	33.8±	4.9	34.1±	5.3	33.7±	5.4	34.1±	4.7	33.6±	4.9
1500 ppm	29.7±	2.5**	29.4±	2.9**	30.1±	2.7**	29.6±	3.0**	29.7±	3.0**	30.1±	2.9**	30.3±	3.0**
4500 ppm	27.2±	2.2**	27.1±	2.2**	27.2±	2.4**	27.5±	3.0**	27.1±	2.2**	27.0±	2.3**	27.2±	2.7**
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01														

STUDY NO. : 0348
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	36.5± 5.7	34.4± 4.5	34.6± 3.9
500 ppm	33.6± 5.1	32.9± 4.7	33.3± 4.6
1500 ppm	30.1± 2.9**	29.6± 2.7**	29.6± 2.9**
4500 ppm	27.1± 2.9**	26.8± 2.3**	26.7± 1.9**

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

Test of Dunnett

APPENDIX C 1

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

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

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

(HAN260)

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	18-7(4)	22-7(4)	26-7(4)	30-7(4)	34-7(4)	38-7(4)	42-7(4)
Control	3.5± 0.5	3.3± 0.4	3.6± 0.4	3.6± 0.4	3.6± 0.4	3.7± 0.4	3.8± 0.4
750 ppm	3.0± 0.4**	2.8± 0.3**	3.0± 0.3**	3.1± 0.3**	3.1± 0.3**	3.1± 0.3**	3.3± 0.3**
1500 ppm	2.4± 0.3**	2.4± 0.3**	2.5± 0.3**	2.6± 0.4**	2.5± 0.3**	2.6± 0.3**	2.8± 0.3**
3000 ppm	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.2**	2.2± 0.3**	2.2± 0.3**	2.3± 0.3**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)						
	46-7(4)	50-7(4)	54-7(4)	58-7(4)	62-7(4)	66-7(4)	70-7(4)
Control	3.9± 0.4	3.8± 0.3	3.9± 0.5	4.1± 0.4	4.1± 0.4	4.3± 0.5	4.4± 0.7
750 ppm	3.4± 0.3**	3.3± 0.4**	3.5± 0.4**	3.4± 0.6**	3.6± 0.3**	3.6± 0.4**	3.6± 0.4**
1500 ppm	2.8± 0.3**	2.7± 0.3**	2.8± 0.4**	2.8± 0.8**	2.9± 0.4**	3.0± 0.5**	3.0± 0.4**
3000 ppm	2.4± 0.2**	2.3± 0.3**	2.4± 0.3**	2.4± 0.2**	2.5± 0.3**	2.6± 0.3**	2.6± 0.3**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDP1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week-day(effective)						
	74-7(4)	78-7(4)	82-7(4)	86-7(4)	90-7(4)	94-7(4)	98-7(4)
Control	4.2± 0.6	4.3± 0.4	4.3± 0.5	4.5± 0.5	4.7± 0.6	4.6± 0.7	4.8± 0.8
750 ppm	3.6± 0.6**	3.6± 0.5**	3.5± 0.7**	3.7± 0.6**	4.0± 0.8**	3.9± 0.6**	4.0± 0.6*
1500 ppm	3.0± 0.5**	3.1± 0.6**	3.0± 0.6**	3.0± 0.7**	3.2± 0.7**	3.2± 0.7**	3.3± 0.6**
3000 ppm	2.6± 0.3**	2.7± 0.3**	2.5± 0.3**	2.6± 0.3**	2.7± 0.3**	2.8± 0.3**	2.8± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7(4)	104-7(4)
Control	4.9± 0.8	4.7± 0.7
750 ppm	4.0± 0.8**	4.0± 0.7*
1500 ppm	3.4± 0.7**	3.3± 0.7**
3000 ppm	2.8± 0.4**	2.7± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX C 2

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

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

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day(effective)						
	8-7(4)	9-7(4)	10-7(4)	11-7(4)	12-7(4)	13-7(4)	14-7(4)
Control	4.3± 0.5	4.2± 0.5	4.3± 0.5	4.4± 0.6	4.3± 0.5	4.2± 0.6	4.1± 0.4
500 ppm	3.4± 0.4**	3.3± 0.4**	3.3± 0.4**	3.4± 0.4**	3.4± 0.5**	3.3± 0.4**	3.3± 0.3**
1500 ppm	2.7± 0.3**	2.7± 0.3**	2.7± 0.4**	2.8± 0.3**	2.7± 0.3**	2.8± 0.3**	2.7± 0.4**
4500 ppm	2.0± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.3**	2.1± 0.2**	2.1± 0.3**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)						
	18-7(4)	22-7(4)	26-7(4)	30-7(4)	34-7(4)	38-7(4)	42-7(4)
Control	3.9± 0.4	3.9± 0.4	3.8± 0.4	3.9± 0.5	4.0± 0.5	3.9± 0.5	4.0± 0.5
500 ppm	3.2± 0.4**	3.1± 0.3**	3.0± 0.4**	3.1± 0.4**	3.2± 0.3**	3.2± 0.3**	3.2± 0.3**
1500 ppm	2.5± 0.3**	2.4± 0.3**	2.6± 0.3**	2.6± 0.3**	2.6± 0.3**	2.4± 0.3**	2.5± 0.3**
4500 ppm	2.0± 0.3**	1.8± 0.3**	1.5± 0.3**	1.9± 0.3**	2.1± 0.3**	1.9± 0.3**	2.0± 0.3**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	46-7(4)	50-7(4)	54-7(4)	58-7(4)	62-7(4)	66-7(4)	70-7(4)
Control	3.9± 0.6	4.1± 0.5	4.0± 0.7	4.1± 0.6	4.1± 0.6	4.4± 0.7	4.1± 0.5
500 ppm	3.1± 0.4**	3.2± 0.4**	3.2± 0.4**	3.2± 0.3**	3.1± 0.4**	3.4± 0.4**	3.2± 0.4**
1500 ppm	2.5± 0.3**	2.5± 0.3**	2.5± 0.3**	2.6± 0.3**	2.5± 0.4**	2.7± 0.3**	2.7± 0.4**
4500 ppm	2.0± 0.2**	2.0± 0.3**	2.1± 0.3**	2.2± 0.3**	2.1± 0.3**	2.2± 0.3**	2.1± 0.3**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

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

(HAN260)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDf1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(4)	104-7(4)
Control	4.8± 1.1	4.4± 1.1
500 ppm	3.5± 1.2**	3.7± 0.8
1500 ppm	3.1± 0.5**	3.0± 0.6**
4500 ppm	2.6± 0.7**	2.6± 0.8**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS 3

APPENDIX D 1

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.8± 0.2	3.7± 0.3	3.8± 0.3	3.8± 0.3	4.0± 0.4	3.9± 0.3	3.9± 0.3
750 ppm	3.7± 0.3	3.6± 0.4	3.8± 0.3	3.8± 0.3	4.0± 0.4	3.7± 0.3*	3.8± 0.3
1500 ppm	3.7± 0.3*	3.6± 0.3	3.6± 0.2	3.7± 0.3	3.6± 0.3**	3.5± 0.3**	3.7± 0.4*
3000 ppm	3.5± 0.4**	3.5± 0.3**	3.4± 0.3**	3.6± 0.2**	3.5± 0.3**	3.4± 0.3**	3.5± 0.3**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDf1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

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

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	4.1± 0.3	4.2± 0.3	4.3± 0.3	4.4± 0.3	4.4± 0.3	4.5± 0.3	4.5± 0.3
750 ppm	4.1± 0.2	4.1± 0.2	4.2± 0.2	4.4± 0.3	4.4± 0.2	4.4± 0.3	4.5± 0.3
1500 ppm	3.9± 0.3**	3.9± 0.3**	4.1± 0.3*	4.1± 0.3**	4.2± 0.3**	4.3± 0.3**	4.4± 0.4
3000 ppm	3.7± 0.3**	3.9± 0.3**	3.9± 0.3**	3.9± 0.3**	4.0± 0.3**	4.0± 0.3**	4.2± 0.3**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	4.6± 0.3	4.5± 0.3	4.6± 0.4	4.6± 0.5	4.7± 0.3	4.9± 0.4	4.8± 0.3
750 ppm	4.6± 0.3	4.5± 0.3	4.5± 0.3	4.5± 0.3	4.6± 0.3	4.7± 0.3	4.7± 0.3
1500 ppm	4.4± 0.4**	4.3± 0.4**	4.2± 0.4**	4.1± 0.4**	4.4± 0.4**	4.4± 0.5**	4.4± 0.4**
3000 ppm	4.2± 0.3**	4.2± 0.5**	4.1± 0.4**	4.1± 0.3**	4.3± 0.4**	4.2± 0.4**	4.2± 0.4**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week-day(effective)					
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)
Control	4.8± 0.5	4.8± 0.4	4.9± 0.3	4.8± 0.5	5.0± 0.6	5.1± 0.6
750 ppm	4.7± 0.3	4.7± 0.5	4.8± 0.5	4.6± 0.6	5.0± 0.6	5.0± 0.5
1500 ppm	4.4± 0.6**	4.4± 0.4**	4.5± 0.6**	4.3± 0.6**	4.6± 0.6**	4.6± 0.5**
3000 ppm	4.3± 0.4**	4.2± 0.4**	4.3± 0.3**	4.2± 0.4**	4.4± 0.4**	4.4± 0.3**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett						

(HAN260)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	5.1± 0.4	4.9± 0.5
750 ppm	4.8± 0.6	4.7± 0.5
1500 ppm	4.7± 0.6**	4.5± 0.5**
3000 ppm	4.5± 0.4**	4.2± 0.6**
Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS 3

APPENDIX D 2

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.3± 0.3	3.3± 0.3	3.4± 0.3	3.6± 0.3	3.5± 0.2	3.4± 0.3	3.6± 0.2
500 ppm	3.3± 0.3	3.4± 0.4	3.3± 0.3	3.5± 0.2	3.5± 0.2	3.4± 0.3	3.6± 0.3
1500 ppm	3.3± 0.5	3.2± 0.4	3.3± 0.3	3.4± 0.3*	3.4± 0.2	3.4± 0.2	3.5± 0.3*
4500 ppm	3.0± 0.3**	3.1± 0.3**	3.2± 0.2**	3.2± 0.2**	3.2± 0.3**	3.3± 0.3*	3.4± 0.2**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	3.7± 0.2	3.8± 0.3	3.8± 0.2	3.8± 0.3	3.8± 0.3	3.9± 0.3	3.8± 0.3
500 ppm	3.7± 0.3	3.6± 0.3*	3.7± 0.3	3.7± 0.3	3.7± 0.3	3.8± 0.3	3.8± 0.3
1500 ppm	3.6± 0.3*	3.6± 0.3*	3.7± 0.3	3.7± 0.3*	3.6± 0.3*	3.7± 0.3*	3.7± 0.3
4500 ppm	3.5± 0.3**	3.5± 0.3**	3.5± 0.3**	3.6± 0.3**	3.5± 0.3**	3.6± 0.3**	3.5± 0.2**

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

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

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

Test of Dunnett

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	4.0± 0.4	4.2± 0.4	4.1± 0.6	4.0± 0.5	4.4± 0.7	4.4± 0.5	4.2± 0.5
500 ppm	4.0± 0.4	4.0± 0.4	4.0± 0.5	4.0± 0.4	4.0± 0.5**	4.2± 0.5	3.9± 0.6*
1500 ppm	3.9± 0.4	3.9± 0.4*	3.7± 0.3**	3.8± 0.4*	4.0± 0.5**	4.0± 0.4**	4.0± 0.4
4500 ppm	3.6± 0.3**	3.7± 0.4**	3.6± 0.4**	3.6± 0.4**	3.8± 0.3**	3.7± 0.4**	3.8± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day(effective)						
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	4.4± 0.5	4.3± 0.6	4.4± 0.5	4.2± 0.6	4.5± 0.8	4.8± 0.6	4.5± 1.0
500 ppm	4.1± 0.5**	4.2± 0.6	4.0± 0.7*	4.3± 0.6	4.4± 0.6	4.5± 1.0	4.3± 0.7
1500 ppm	3.8± 0.4**	4.0± 0.3**	3.8± 0.5**	4.0± 0.5	4.2± 0.4	4.3± 0.5**	4.0± 0.5**
4500 ppm	3.6± 0.4**	3.7± 0.4**	3.7± 0.5**	3.7± 0.4**	3.9± 0.5**	4.2± 0.7**	4.0± 0.7**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	4.4± 1.1	4.5± 1.0
500 ppm	4.4± 0.8	4.5± 0.7
1500 ppm	4.2± 0.4	4.0± 0.4*
4500 ppm	4.0± 0.6*	3.8± 0.7**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS 3

APPENDIX E 1

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

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		(weeks)											
	1	2	3	4	5	6	7							
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
750 ppm	0.116±	0.021	0.107±	0.024	0.108±	0.024	0.100±	0.023	0.098±	0.019	0.100±	0.019	0.098±	0.017
1500 ppm	0.197±	0.025	0.170±	0.024	0.168±	0.024	0.163±	0.031	0.167±	0.031	0.173±	0.033	0.162±	0.027
3000 ppm	0.326±	0.052	0.278±	0.042	0.286±	0.045	0.276±	0.046	0.279±	0.047	0.277±	0.057	0.288±	0.056

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
750 ppm	0.090± 0.016	0.086± 0.016	0.079± 0.015	0.077± 0.013	0.075± 0.012	0.071± 0.011	0.071± 0.011			
1500 ppm	0.147± 0.023	0.140± 0.022	0.131± 0.018	0.130± 0.018	0.128± 0.019	0.124± 0.022	0.123± 0.020			
3000 ppm	0.259± 0.046	0.257± 0.044	0.248± 0.054	0.241± 0.037	0.234± 0.038	0.223± 0.036	0.223± 0.034			

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

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

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)							
	46	50	54	58	62	66	70	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
750 ppm	0.058± 0.007	0.055± 0.007	0.056± 0.007	0.056± 0.010	0.056± 0.006	0.056± 0.007	0.055± 0.007	
1500 ppm	0.105± 0.014	0.102± 0.014	0.103± 0.016	0.100± 0.030	0.104± 0.018	0.106± 0.024	0.108± 0.026	
3000 ppm	0.194± 0.023	0.191± 0.030	0.195± 0.033	0.193± 0.028	0.191± 0.030	0.197± 0.030	0.198± 0.029	

(HAN300)

BAIS 3

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks)													
	74		78		82		86		90		94		98	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
750 ppm	0.056±	0.010	0.056±	0.009	0.055±	0.012	0.059±	0.012	0.063±	0.018	0.063±	0.013	0.064±	0.012
1500 ppm	0.108±	0.026	0.111±	0.030	0.107±	0.031	0.108±	0.035	0.117±	0.034	0.120±	0.038	0.122±	0.036
3000 ppm	0.200±	0.030	0.207±	0.031	0.196±	0.032	0.208±	0.031	0.211±	0.028	0.224±	0.032	0.223±	0.036
(HAN300)														
BAIS														

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
750 ppm	0.067± 0.016	0.066± 0.015
1500 ppm	0.128± 0.041	0.125± 0.042
3000 ppm	0.224± 0.034	0.215± 0.037

(HAN300)

BAIS 3

APPENDIX E 2

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

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

(HAN300)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
500 ppm	0.075± 0.009	0.071± 0.008	0.071± 0.009	0.071± 0.009	0.070± 0.011	0.067± 0.008	0.067± 0.007			
1500 ppm	0.182± 0.025	0.179± 0.021	0.176± 0.025	0.179± 0.022	0.172± 0.025	0.173± 0.022	0.168± 0.027			
4500 ppm	0.417± 0.052	0.415± 0.056	0.422± 0.051	0.415± 0.048	0.404± 0.049	0.414± 0.041	0.401± 0.052			

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

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

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)									
	46	50	54	58	62	66	70			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
500 ppm	0.051± 0.008	0.051± 0.008	0.051± 0.008	0.050± 0.008	0.048± 0.009	0.052± 0.008	0.049± 0.007			
1500 ppm	0.132± 0.020	0.133± 0.018	0.133± 0.018	0.137± 0.018	0.128± 0.019	0.139± 0.018	0.136± 0.023			
4500 ppm	0.341± 0.034	0.339± 0.039	0.351± 0.039	0.377± 0.040	0.357± 0.047	0.372± 0.049	0.350± 0.040			

(HAN300)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
500 ppm	0.049± 0.008	0.050± 0.009	0.048± 0.011	0.055± 0.025	0.054± 0.015	0.052± 0.015	0.058± 0.024			
1500 ppm	0.132± 0.036	0.133± 0.054	0.148± 0.077	0.153± 0.086	0.149± 0.030	0.154± 0.046	0.146± 0.023			
4500 ppm	0.356± 0.052	0.358± 0.060	0.345± 0.074	0.370± 0.076	0.394± 0.092	0.427± 0.121	0.422± 0.137			

(HAN300)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDf1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)			
	102		104	
Control	0.000±	0.000	0.000±	0.000
500 ppm	0.054±	0.021	0.056±	0.013
1500 ppm	0.155±	0.022	0.155±	0.028
4500 ppm	0.435±	0.110	0.443±	0.147

(HAN300)

BAIS 3

APPENDIX F 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
 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 ³ /μl	
Control	34	9.55±	0.81	13.6±	1.2	43.8±	3.5	45.9±	1.5	14.2±	0.5	30.9±	0.7	1817±	347
750 ppm	31	9.67±	1.37	13.6±	1.8	44.2±	5.4	46.0±	3.0	14.1±	0.6	30.8±	1.0	1856±	501
1500 ppm	35	9.83±	0.86	13.7±	1.0	44.4±	3.3	45.2±	1.6	14.0±	0.6	30.9±	0.6	1830±	302
3000 ppm	40	9.52±	0.79	13.5±	1.1	44.0±	3.4	46.3±	1.1	14.2±	0.4	30.7±	0.6	1941±	218

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

Test of Dunnett

(HCL070)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	34	2.94±	1.51	1±	1	27±	9	2±	2	0±	0	4±	2	65±	11	1±	2
750 ppm	31	2.88±	1.60	2±	2	32±	15	1±	1	0±	0	5±	2	59±	17	1±	2
1500 ppm	35	2.25±	1.00	2±	2	30±	13	1±	1	0±	0	4±	2	61±	15	2±	3*
3000 ppm	40	2.01±	2.56**	1±	2	25±	12	1±	1	0±	0	4±	2	67±	14	1±	2

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

APPENDIX F 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0348
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	28	9.42±	1.83	13.7±	2.4	43.7±	7.4	46.9±	4.2	14.6±	0.9	31.2±	1.1	1075±	304
500 ppm	24	9.04±	1.66	12.9±	2.3	42.0±	6.8	46.8±	3.5	14.4±	0.7	30.8±	1.1	1111±	293
1500 ppm	24	9.40±	1.45	13.3±	2.1	43.1±	5.4	46.3±	3.5	14.1±	0.5	30.7±	1.9	1180±	313
4500 ppm	33	9.23±	1.51	12.9±	2.1	42.2±	6.3	46.0±	2.3	14.0±	0.5**	30.5±	1.1**	1336±	241**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDf1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	28	3.99±	9.86	2±	3	28±	14	2±	3	0±	0	5±	3	55±	17	8±	13
500 ppm	24	2.00±	1.22	2±	3	29±	13	1±	1	0±	0	4±	3	58±	18	5±	16
1500 ppm	24	1.45±	0.72	2±	2	26±	9	1±	1	0±	0	5±	2	63±	14	4±	6
4500 ppm	33	3.25±	10.52	4±	3	28±	11	1±	1	0±	0	5±	3	61±	14	2±	5

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

APPENDIX G 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
 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	35	5.1±	0.5	2.8±	0.3	1.2±	0.1	0.13±	0.03	204±	36	110±	28	42±	18
750 ppm	33	5.3±	0.7	2.9±	0.5	1.2±	0.2	0.13±	0.03	186±	40	122±	49	48±	81
1500 ppm	36	5.1±	0.5	2.8±	0.3	1.2±	0.2	0.13±	0.03	188±	43	109±	44	32±	13*
3000 ppm	41	4.9±	0.4*	2.8±	0.2	1.3±	0.1**	0.13±	0.02	204±	22	102±	20	31±	11*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0348
 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	35	201±	42	112±	253	54±	118	553±	1049	129±	44	2±	1	52±	22
750 ppm	33	218±	73	246±	768*	166±	536	770±	1585	138±	74	2±	1	63±	33
1500 ppm	36	196±	48	102±	158	65±	128	450±	555	139±	85	2±	2	59±	36
3000 ppm	41	198±	30	52±	11	22±	10**	265±	87	130±	19	2±	3	61±	29

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0348
 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	35	21.8±	2.5	153±	1	4.4±	0.4	122±	3	8.8±	0.4	6.6±	0.8
750 ppm	33	23.6±	5.8	154±	1	4.3±	0.5	122±	3	8.9±	0.6	6.5±	0.8
1500 ppm	36	24.2±	11.1	154±	1	4.1±	0.7**	122±	3	8.7±	0.4	6.7±	1.0
3000 ppm	41	21.9±	3.8	154±	2	4.1±	0.5**	121±	3	8.6±	0.3	6.3±	0.8

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

Test of Dunnett

(HCL074)

BAIS 3

APPENDIX G 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0348
 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	30	5.2±	1.1	2.8±	0.4	1.2±	0.3	0.14±	0.03	130±	41	78±	36	30±	17
500 ppm	24	5.2±	0.7	2.9±	0.5	1.3±	0.2	0.15±	0.07	149±	37	98±	57	29±	15
1500 ppm	26	4.9±	0.3	2.8±	0.2	1.4±	0.2*	0.13±	0.03	147±	22	75±	15	25±	14
4500 ppm	34	4.7±	0.4*	2.8±	0.3	1.5±	0.2**	0.12±	0.02	157±	31**	92±	16**	19±	11**

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

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0348
 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	30	141±	55	96±	52	43±	34	548±	559	191±	82	2±	1	99±	77
500 ppm	24	182±	104	84±	33	40±	29	403±	524	203±	119	2±	2	75±	71
1500 ppm	26	145±	26	76±	23	28±	10	462±	752	310±	258**	2±	2	77±	35
4500 ppm	34	172±	24**	85±	114**	28±	18**	495±	1365**	255±	94**	2±	2	89±	77

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDP1
 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	30	23.3±	14.1	154±	4	4.3±	0.8	123±	4	8.8±	0.5	6.8±	1.4
500 ppm	24	19.9±	8.4	152±	2	4.0±	0.5	122±	3	9.2±	0.9	6.4±	0.7
1500 ppm	26	18.8±	4.5	154±	2	4.1±	0.4	123±	2	8.9±	0.4	6.8±	0.9
4500 ppm	34	21.9±	11.5	153±	2	4.2±	0.4	121±	3*	8.8±	0.3	5.7±	1.1**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

APPENDIX H 1

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

STUDY NO. : 0348
 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+		3+	4+				
Control	37	0	3	6	16	12	0	0		0	0	31	3	2	1		37	0	0	0	0	0		29	7	1	0	0	0		28	3	1	1	4					
750 ppm	36	0	6	19	9	2	0	0	**	0	3	21	11	0	1	*	36	0	0	0	0	0		13	14	8	1	0	0	**	29	1	1	0	5					
1500 ppm	39	0	4	32	2	0	1	0	**	0	0	17	19	2	1	**	39	0	0	0	0	0		11	13	12	2	1	0	**	37	0	0	0	2					
3000 ppm	43	0	10	33	0	0	0	0	**	0	0	14	28	1	0	**	43	0	0	0	0	0		10	20	11	2	0	0	**	39	1	0	0	3					

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

Test of CHI SQUARE

(HCL101)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	37	37	0	0	0	0	0
750 ppm	36	36	0	0	0	0	0
1500 ppm	39	39	0	0	0	0	0
3000 ppm	43	43	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 3

APPENDIX H 2

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

STUDY NO. : 0348
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	4+		—	±	+	2+	3+	
Control	31	0	1	5	1	3	19	2		0	0	17	13	1	0		31	0	0	0	0	0		9	18	4	0	0	0		24	4	0	0	3	
500 ppm	24	0	0	3	6	4	11	0		0	0	9	15	0	0		24	0	0	0	0	0		1	20	3	0	0	0		20	3	0	0	1	
1500 ppm	27	0	1	9	7	6	4	0	**	0	0	13	12	2	0		27	0	0	0	0	0		0	11	10	6	0	0	**	22	0	1	3	1	
4500 ppm	36	0	5	23	4	3	1	0	**	0	0	7	25	4	0	**	36	0	0	0	0	0		4	14	11	7	0	0	**	19	5	1	3	8	

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

Test of CHI SQUARE

(HCL101)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDP1
MEASURE. TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	31	31	0	0	0	0	0
500 ppm	24	24	0	0	0	0	0
1500 ppm	27	27	0	0	0	0	0
4500 ppm	36	36	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 3

APPENDIX I 1

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

STUDY NO. : 0348
 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 50 (%)	750 ppm 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)
skin/app	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	scab		1 (2)	0 (0)	1 (2)	0 (0)
subcutis	edema		0 (0)	2 (4)	1 (2)	1 (2)
	mass		1 (2)	1 (2)	2 (4)	1 (2)
lung	white		0 (0)	1 (2)	0 (0)	0 (0)
	white zone		1 (2)	1 (2)	1 (2)	0 (0)
	red zone		1 (2)	1 (2)	1 (2)	1 (2)
	nodule		5 (10)	4 (8)	6 (12)	3 (6)
lymph node	enlarged		5 (10)	11 (22)	6 (12)	3 (6)
spleen	enlarged		3 (6)	4 (8)	4 (8)	3 (6)
	white zone		0 (0)	1 (2)	0 (0)	0 (0)
	black zone		2 (4)	1 (2)	3 (6)	0 (0)
	nodule		1 (2)	2 (4)	1 (2)	0 (0)
forestomach	nodule		0 (0)	0 (0)	1 (2)	5 (10)
	ulcer		1 (2)	0 (0)	1 (2)	1 (2)
gl stomach	ulcer		1 (2)	0 (0)	0 (0)	0 (0)
	thick		9 (18)	7 (14)	9 (18)	0 (0)
duodenum	dilated		0 (0)	1 (2)	0 (0)	0 (0)
small intes	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	adhesion		0 (0)	1 (2)	1 (2)	0 (0)
	dilated		0 (0)	1 (2)	0 (0)	0 (0)
cecum	nodule		0 (0)	0 (0)	1 (2)	0 (0)

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

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

PAGE : 2

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

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

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

PAGE : 3

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

(HPT080)

BAIS 3

APPENDIX I 2

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

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

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

PAGE : 4

Organ	Findings	Group Name	Control	500 ppm	1500 ppm	4500 ppm
		NO. of Animals	50 (%)	50 (%)	49 (%)	50 (%)
skin/app	edema		0 (0)	0 (0)	1 (2)	0 (0)
subcutis	edema		2 (4)	1 (2)	4 (8)	0 (0)
	mass		3 (6)	2 (4)	0 (0)	3 (6)
lung	red		1 (2)	3 (6)	0 (0)	1 (2)
	brown		1 (2)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	1 (2)	0 (0)	0 (0)
	edema		0 (0)	2 (4)	0 (0)	0 (0)
	nodule		2 (4)	1 (2)	1 (2)	2 (4)
lymph node	enlarged		12 (24)	11 (22)	10 (20)	7 (14)
thymus	enlarged		0 (0)	0 (0)	0 (0)	2 (4)
spleen	enlarged		12 (24)	11 (22)	7 (14)	2 (4)
	nodule		0 (0)	0 (0)	1 (2)	2 (4)
tongue	nodule		0 (0)	1 (2)	0 (0)	0 (0)
forestomach	nodule		0 (0)	3 (6)	0 (0)	9 (18)
	thick		0 (0)	0 (0)	0 (0)	16 (32)
gl stomach	ulcer		1 (2)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	5 (10)	2 (4)	1 (2)
small intes	nodule		1 (2)	0 (0)	0 (0)	0 (0)
cecum	dilated		0 (0)	0 (0)	0 (0)	5 (10)
liver	enlarged		3 (6)	3 (6)	7 (14)	6 (12)
	white zone		3 (6)	4 (8)	5 (10)	5 (10)
	red zone		3 (6)	2 (4)	1 (2)	0 (0)

STUDY NO. : 0348
 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 50 (%)	500 ppm 50 (%)	1500 ppm 49 (%)	4500 ppm 50 (%)
liver	nodule		7 (14)	11 (22)	9 (18)	5 (10)
	cyst		0 (0)	1 (2)	1 (2)	0 (0)
	rough		1 (2)	0 (0)	0 (0)	0 (0)
	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
kidney	enlarged		1 (2)	0 (0)	0 (0)	0 (0)
	atrophic		0 (0)	0 (0)	1 (2)	0 (0)
	white zone		1 (2)	1 (2)	0 (0)	1 (2)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	cyst		0 (0)	0 (0)	0 (0)	1 (2)
	nodular		0 (0)	1 (2)	0 (0)	0 (0)
	hydronephrosis		1 (2)	3 (6)	3 (6)	4 (8)
ureter	dilated		0 (0)	1 (2)	0 (0)	1 (2)
urin bladd	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	red zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	urine:marked retention		1 (2)	0 (0)	1 (2)	1 (2)
pituitary	enlarged		2 (4)	3 (6)	1 (2)	0 (0)
	red zone		2 (4)	2 (4)	0 (0)	1 (2)
	nodule		1 (2)	4 (8)	1 (2)	0 (0)
ovary	enlarged		4 (8)	2 (4)	7 (14)	2 (4)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	cyst		15 (30)	12 (24)	8 (16)	14 (28)

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

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	500 ppm 50 (%)	1500 ppm 49 (%)	4500 ppm 50 (%)
uterus	nodule		5 (10)	6 (12)	13 (27)	9 (18)
	cyst		0 (0)	0 (0)	0 (0)	1 (2)
	dilated		1 (2)	0 (0)	0 (0)	2 (4)
brain	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
Harder gl	nodule		0 (0)	1 (2)	1 (2)	0 (0)
bone	nodule		0 (0)	0 (0)	1 (2)	0 (0)
vertebra	elevated		0 (0)	0 (0)	1 (2)	0 (0)
mediastinum	mass		1 (2)	2 (4)	3 (6)	1 (2)
peritoneum	cyst		0 (0)	1 (2)	0 (0)	0 (0)
	thick		1 (2)	1 (2)	0 (0)	1 (2)
retroperit	mass		0 (0)	0 (0)	1 (2)	0 (0)
abdominal c	hemorrhage		3 (6)	0 (0)	0 (0)	0 (0)
	pleural fluid		0 (0)	0 (0)	1 (2)	0 (0)
	ascites		8 (16)	6 (12)	9 (18)	2 (4)
thoracic ca	hemorrhage		0 (0)	2 (4)	1 (2)	0 (0)
	pleural fluid		11 (22)	12 (24)	10 (20)	2 (4)
whole body	anemic		0 (0)	2 (4)	0 (0)	0 (0)

APPENDIX I 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
 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 13 (%)	750 ppm 14 (%)	1500 ppm 12 (%)	3000 ppm 7 (%)
skin/app	nodule		1 (8)	0 (0)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	1 (8)	0 (0)
subcutis	edema		0 (0)	2 (14)	1 (8)	1 (14)
	mass		0 (0)	1 (7)	2 (17)	1 (14)
lung	red zone		1 (8)	0 (0)	1 (8)	1 (14)
	nodule		2 (15)	0 (0)	3 (25)	0 (0)
lymph node	enlarged		3 (23)	6 (43)	3 (25)	0 (0)
spleen	enlarged		2 (15)	2 (14)	2 (17)	2 (29)
	white zone		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (8)	1 (7)	1 (8)	0 (0)
forestomach	ulcer		1 (8)	0 (0)	0 (0)	0 (0)
gl stomach	ulcer		1 (8)	0 (0)	0 (0)	0 (0)
small intes	adhesion		0 (0)	1 (7)	1 (8)	0 (0)
	dilated		0 (0)	1 (7)	0 (0)	0 (0)
liver	enlarged		2 (15)	3 (21)	0 (0)	2 (29)
	white zone		1 (8)	1 (7)	1 (8)	1 (14)
	red zone		1 (8)	0 (0)	0 (0)	0 (0)
	nodule		5 (38)	3 (21)	0 (0)	0 (0)
	rough		0 (0)	0 (0)	0 (0)	1 (14)
pancreas	thick		0 (0)	1 (7)	0 (0)	0 (0)
kidney	enlarged		0 (0)	1 (7)	0 (0)	0 (0)
	white zone		0 (0)	1 (7)	0 (0)	0 (0)

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

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

PAGE : 2

Organ	Findings	Group Name	Control	750 ppm	1500 ppm	3000 ppm
		NO. of Animals	13 (%)	14 (%)	12 (%)	7 (%)
kidney	brown zone		1 (8)	0 (0)	0 (0)	0 (0)
	hydronephrosis		1 (8)	2 (14)	2 (17)	2 (29)
urin bladd	urine:marked retention		2 (15)	0 (0)	1 (8)	1 (14)
pituitary	enlarged		0 (0)	0 (0)	1 (8)	0 (0)
epididymis	nodule		1 (8)	1 (7)	0 (0)	2 (29)
semin ves	enlarged		1 (8)	0 (0)	0 (0)	0 (0)
Harder gl	enlarged		0 (0)	0 (0)	1 (8)	0 (0)
	nodule		0 (0)	0 (0)	1 (8)	0 (0)
Zymbal gl	nodule		1 (8)	0 (0)	0 (0)	0 (0)
abdominal c	ascites		1 (8)	1 (7)	0 (0)	0 (0)
thoracic ca	pleural fluid		1 (8)	4 (29)	2 (17)	2 (29)
other	hindlimb:nodule		0 (0)	1 (7)	0 (0)	0 (0)
	ear:absence		0 (0)	0 (0)	1 (8)	0 (0)

APPENDIX I 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
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 19 (%)	500 ppm 26 (%)	1500 ppm 22 (%)	4500 ppm 14 (%)
skin/app	edema		0 (0)	0 (0)	1 (5)	0 (0)
subcutis	edema		2 (11)	1 (4)	4 (18)	0 (0)
	mass		2 (11)	1 (4)	0 (0)	2 (14)
lung	red		1 (5)	3 (12)	0 (0)	1 (7)
	red zone		0 (0)	1 (4)	0 (0)	0 (0)
	edema		0 (0)	2 (8)	0 (0)	0 (0)
	nodule		1 (5)	0 (0)	0 (0)	1 (7)
lymph node	enlarged		7 (37)	8 (31)	6 (27)	3 (21)
thymus	enlarged		0 (0)	0 (0)	0 (0)	1 (7)
spleen	enlarged		10 (53)	8 (31)	5 (23)	2 (14)
	nodule		0 (0)	0 (0)	1 (5)	0 (0)
tongue	nodule		0 (0)	1 (4)	0 (0)	0 (0)
forestomach	thick		0 (0)	0 (0)	0 (0)	1 (7)
gl stomach	thick		0 (0)	0 (0)	0 (0)	1 (7)
liver	enlarged		3 (16)	3 (12)	6 (27)	6 (43)
	white zone		3 (16)	3 (12)	5 (23)	5 (36)
	red zone		1 (5)	0 (0)	1 (5)	0 (0)
	nodule		1 (5)	6 (23)	4 (18)	2 (14)
	cyst		0 (0)	0 (0)	1 (5)	0 (0)
	rough		1 (5)	0 (0)	0 (0)	0 (0)
	adhesion		0 (0)	0 (0)	0 (0)	1 (7)
kidney	enlarged		1 (5)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0348
 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 19 (%)	500 ppm 26 (%)	1500 ppm 22 (%)	4500 ppm 14 (%)
kidney	atrophic		0 (0)	0 (0)	1 (5)	0 (0)
	white zone		0 (0)	0 (0)	0 (0)	1 (7)
	nodule		0 (0)	1 (4)	0 (0)	0 (0)
	nodular		0 (0)	1 (4)	0 (0)	0 (0)
	hydronephrosis		1 (5)	3 (12)	2 (9)	0 (0)
ureter	dilated		0 (0)	1 (4)	0 (0)	0 (0)
urin bladd	white zone		0 (0)	0 (0)	1 (5)	0 (0)
	red zone		0 (0)	0 (0)	1 (5)	0 (0)
	nodule		0 (0)	0 (0)	1 (5)	0 (0)
	urine:marked retention		0 (0)	0 (0)	1 (5)	1 (7)
pituitary	enlarged		1 (5)	1 (4)	1 (5)	0 (0)
	red zone		0 (0)	1 (4)	0 (0)	0 (0)
ovary	enlarged		3 (16)	2 (8)	6 (27)	2 (14)
	cyst		4 (21)	4 (15)	2 (9)	3 (21)
uterus	nodule		3 (16)	4 (15)	9 (41)	7 (50)
	cyst		0 (0)	0 (0)	0 (0)	1 (7)
brain	hemorrhage		0 (0)	1 (4)	0 (0)	0 (0)
Harder gl	nodule		0 (0)	1 (4)	0 (0)	0 (0)
mediastinum	mass		1 (5)	2 (8)	3 (14)	1 (7)
peritoneum	thick		1 (5)	1 (4)	0 (0)	1 (7)
retroperit	mass		0 (0)	0 (0)	1 (5)	0 (0)
abdominal c	hemorrhage		2 (11)	0 (0)	0 (0)	0 (0)

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

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

PAGE : 5

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

(HPT080)

BAIS 3

APPENDIX I 5

GROSS FINDINGS : SUMMARY, MOUSE : MALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
 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 37 (%)	750 ppm 36 (%)	1500 ppm 38 (%)	3000 ppm 43 (%)
skin/app	scab		1 (3)	0 (0)	0 (0)	0 (0)
subcutis	mass		1 (3)	0 (0)	0 (0)	0 (0)
lung	white		0 (0)	1 (3)	0 (0)	0 (0)
	white zone		1 (3)	1 (3)	1 (3)	0 (0)
	red zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		3 (8)	4 (11)	3 (8)	3 (7)
lymph node	enlarged		2 (5)	5 (14)	3 (8)	3 (7)
spleen	enlarged		1 (3)	2 (6)	2 (5)	1 (2)
	black zone		2 (5)	1 (3)	3 (8)	0 (0)
	nodule		0 (0)	1 (3)	0 (0)	0 (0)
forestomach	nodule		0 (0)	0 (0)	1 (3)	5 (12)
	ulcer		0 (0)	0 (0)	1 (3)	1 (2)
gl stomach	thick		9 (24)	7 (19)	9 (24)	0 (0)
duodenum	dilated		0 (0)	1 (3)	0 (0)	0 (0)
small intes	nodule		0 (0)	1 (3)	0 (0)	0 (0)
cecum	nodule		0 (0)	0 (0)	1 (3)	0 (0)
liver	white zone		1 (3)	0 (0)	1 (3)	0 (0)
	red zone		0 (0)	1 (3)	0 (0)	2 (5)
	nodule		11 (30)	15 (42)	9 (24)	4 (9)
kidney	atrophic		0 (0)	0 (0)	0 (0)	2 (5)
	nodule		0 (0)	0 (0)	1 (3)	0 (0)
	deformed		0 (0)	1 (3)	0 (0)	0 (0)

STUDY NO. : 0348
 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		750 ppm		1500 ppm		3000 ppm	
			37	(%)	36	(%)	38	(%)	43	(%)
kidney	hydronephrosis		0	(0)	3	(8)	4	(11)	1	(2)
urin bladd	nodule		0	(0)	1	(3)	1	(3)	0	(0)
	urine:marked retention		1	(3)	0	(0)	0	(0)	0	(0)
pituitary	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
prep/cli gl	nodule		0	(0)	1	(3)	1	(3)	0	(0)
Harder gl	enlarged		1	(3)	1	(3)	1	(3)	0	(0)
	nodule		1	(3)	1	(3)	1	(3)	1	(2)
abdominal c	ascites		0	(0)	1	(3)	0	(0)	0	(0)
mesenterium	nodule		1	(3)	0	(0)	0	(0)	0	(0)
thoracic ca	pleural fluid		1	(3)	0	(0)	0	(0)	0	(0)
other	ear:nodule		0	(0)	0	(0)	1	(3)	0	(0)
	lower jaw:nodule		0	(0)	0	(0)	1	(3)	0	(0)

(HPT080)

BAIS 3

APPENDIX I 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0348
 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	500 ppm	1500 ppm	4500 ppm
			31 (%)	24 (%)	27 (%)	36 (%)
subcutis	mass		1 (3)	1 (4)	0 (0)	1 (3)
lung	brown		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		1 (3)	1 (4)	1 (4)	1 (3)
lymph node	enlarged		5 (16)	3 (13)	4 (15)	4 (11)
thymus	enlarged		0 (0)	0 (0)	0 (0)	1 (3)
spleen	enlarged		2 (6)	3 (13)	2 (7)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	2 (6)
forestomach	nodule		0 (0)	3 (13)	0 (0)	9 (25)
	thick		0 (0)	0 (0)	0 (0)	15 (42)
gl stomach	ulcer		1 (3)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	5 (21)	2 (7)	0 (0)
small intes	nodule		1 (3)	0 (0)	0 (0)	0 (0)
cecum	dilated		0 (0)	0 (0)	0 (0)	5 (14)
liver	enlarged		0 (0)	0 (0)	1 (4)	0 (0)
	white zone		0 (0)	1 (4)	0 (0)	0 (0)
	red zone		2 (6)	2 (8)	0 (0)	0 (0)
	nodule		6 (19)	5 (21)	5 (19)	3 (8)
	cyst		0 (0)	1 (4)	0 (0)	0 (0)
kidney	white zone		1 (3)	1 (4)	0 (0)	0 (0)
	cyst		0 (0)	0 (0)	0 (0)	1 (3)
	hydronephrosis		0 (0)	0 (0)	1 (4)	4 (11)
ureter	dilated		0 (0)	0 (0)	0 (0)	1 (3)

STUDY NO. : 0348
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	500 ppm	1500 ppm	4500 ppm
			31 (%)	24 (%)	27 (%)	36 (%)
urin bladd	urine:marked retention		1 (3)	0 (0)	0 (0)	0 (0)
pituitary	enlarged		1 (3)	2 (8)	0 (0)	0 (0)
	red zone		2 (6)	1 (4)	0 (0)	1 (3)
	nodule		1 (3)	4 (17)	1 (4)	0 (0)
ovary	enlarged		1 (3)	0 (0)	1 (4)	0 (0)
	nodule		0 (0)	1 (4)	0 (0)	0 (0)
	cyst		11 (35)	8 (33)	6 (22)	11 (31)
uterus	nodule		2 (6)	2 (8)	4 (15)	2 (6)
	dilated		1 (3)	0 (0)	0 (0)	2 (6)
Harder gl	nodule		0 (0)	0 (0)	1 (4)	0 (0)
bone	nodule		0 (0)	0 (0)	1 (4)	0 (0)
vertebra	elevated		0 (0)	0 (0)	1 (4)	0 (0)
peritoneum	cyst		0 (0)	1 (4)	0 (0)	0 (0)
abdominal c	hemorrhage		1 (3)	0 (0)	0 (0)	0 (0)
	pleural fluid		0 (0)	0 (0)	1 (4)	0 (0)
	ascites		2 (6)	0 (0)	2 (7)	0 (0)
thoracic ca	pleural fluid		4 (13)	1 (4)	0 (0)	0 (0)

APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
 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	47.5± 6.5	0.010±	0.002	0.207±	0.036	0.227±	0.030	0.225±	0.026	0.616±	0.048
750 ppm	36	42.3± 5.7**	0.009±	0.002	0.227±	0.040*	0.220±	0.027	0.246±	0.150	1.261±	3.470
1500 ppm	38	37.2± 5.1**	0.010±	0.002	0.201±	0.027	0.203±	0.025**	0.216±	0.040	0.690±	0.340
3000 ppm	43	34.7± 4.5**	0.009±	0.002	0.214±	0.030	0.201±	0.018**	0.202±	0.017**	0.636±	0.053

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

Test of Dunnett

(HCL040)

BAIS 3

STUDY NO. : 0348
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	0.134±	0.219	1.799±	0.863	0.448±	0.018
750 ppm	36	0.115±	0.116	1.805±	0.509	0.448±	0.014
1500 ppm	38	0.108±	0.139	1.551±	0.340*	0.446±	0.014
3000 ppm	43	0.078±	0.074**	1.447±	0.205**	0.448±	0.015

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

Test of Dunnett

(HCL040)

BAIS 3

APPENDIX J 2

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

STUDY NO. : 0348
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	31	31.7± 3.8	0.013±	0.002	0.052±	0.052	0.176±	0.024	0.226±	0.049	0.431±	0.065
500 ppm	24	30.2± 4.5	0.015±	0.007	0.142±	0.492	0.179±	0.025	0.209±	0.029	0.463±	0.043*
1500 ppm	27	27.0± 2.7**	0.012±	0.003	0.335±	1.196	0.159±	0.014*	0.202±	0.021	0.473±	0.117
4500 ppm	36	24.7± 2.1**	0.012±	0.002	0.067±	0.134	0.155±	0.021**	0.192±	0.035**	0.531±	0.243**

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

Test of Dunnett

(HCL040)

BAIS 3

STUDY NO. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	31	0.196±	0.156	1.754±	1.036	0.471±	0.020
500 ppm	24	0.220±	0.248	1.579±	0.514	0.470±	0.023
1500 ppm	27	0.158±	0.160	1.470±	0.859*	0.471±	0.017
4500 ppm	36	0.179±	0.236	1.275±	0.235**	0.453±	0.015**

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

Test of Dunnett

APPENDIX K 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
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	47.5± 6.5	0.021± 0.006	0.445± 0.099	0.482± 0.057	0.481± 0.078	1.313± 0.140
750 ppm	36	42.3± 5.7**	0.022± 0.006	0.547± 0.124**	0.527± 0.076*	0.635± 0.676	2.772± 6.753**
1500 ppm	38	37.2± 5.1**	0.027± 0.008**	0.549± 0.107**	0.552± 0.080**	0.591± 0.126**	1.883± 0.923**
3000 ppm	43	34.7± 4.5**	0.027± 0.007**	0.624± 0.101**	0.585± 0.062**	0.592± 0.084**	1.853± 0.186**

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

Test of Dunnett

(HCL042)

BAIS 3

STUDY NO. : 0348
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	0.317± 0.623	3.866± 2.147	0.960± 0.126
750 ppm	36	0.288± 0.313	4.346± 1.458**	1.082± 0.187**
1500 ppm	38	0.298± 0.402	4.240± 1.212**	1.222± 0.169**
3000 ppm	43	0.227± 0.220	4.222± 0.718**	1.314± 0.179**

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

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX K 2

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

STUDY NO. : 0348
 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	31	31.7± 3.8	0.040± 0.007	0.162± 0.152	0.560± 0.089	0.720± 0.154	1.370± 0.200
500 ppm	24	30.2± 4.5	0.050± 0.026	0.441± 1.476	0.605± 0.122	0.708± 0.135	1.560± 0.218**
1500 ppm	27	27.0± 2.7**	0.045± 0.012	1.088± 3.752	0.595± 0.067	0.756± 0.106	1.771± 0.481**
4500 ppm	36	24.7± 2.1**	0.048± 0.009**	0.268± 0.543	0.632± 0.110**	0.784± 0.195	2.151± 0.953**

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

Test of Dunnett

(HCL042)

BAIS 3

STUDY NO. : 0348
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	31	0.624± 0.481	5.505± 2.942	1.508± 0.197
500 ppm	24	0.711± 0.739	5.270± 1.511	1.597± 0.286
1500 ppm	27	0.573± 0.514	5.389± 2.637	1.767± 0.210**
4500 ppm	36	0.727± 0.957	5.166± 0.885**	1.845± 0.155**

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

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX L 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:epidermis		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)
	scab		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)
subcutis			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	eosinophilic change:olfactory epithelium		14	1	0	0	17	1	0	0	9	1	0	0	13	1	0	0
			(28)	(2)	(0)	(0)	(34)	(2)	(0)	(0)	(18)	(2)	(0)	(0)	(26)	(2)	(0)	(0)
	eosinophilic change:respiratory epithelium		2	2	0	0	8	0	0	0	6	1	0	0	3	1	0	0
			(4)	(4)	(0)	(0)	(16)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(6)	(2)	(0)	(0)

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

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

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

PAGE : 2

Organ	Findings	Control 50				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																	
nasal cavit		<50>				<50>				<50>				<50>			
	respiratory metaplasia:olfactory epithelium	4 (8)	1 (2)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	1 (2)	2 (4)	0 (0)	0 (0)	10 (20)	1 (2)	0 (0)	0 * (0)	14 (28)	3 (6)	0 (0)	0 ** (0)	10 (20)	0 (0)	0 (0)	0 ** (0)
nasopharynx		<50>				<50>				<50>				<50>			
	eosinophilic change	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung		<50>				<50>				<50>				<50>			
	congestion	2 (4)	2 (4)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hemorrhage	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (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)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)

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

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

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

PAGE : 3

Organ_____	Findings_____	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<50>				<50>				<50>				<50>			
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			<50>				<50>				<50>				<50>			
	deposit of amyloid		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<50>				<50>				<50>				<50>			
	deposit of amyloid		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of melanin		0	2	0	0	1	0	0	0	0	3	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		5	2	0	0	4	5	0	0	2	0	0	0	1	2	0	0
			(10)	(4)	(0)	(0)	(8)	(10)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(4)	(0)	(0)

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

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

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

PAGE : 4

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
spleen		<50>				<50>				<50>				<50>			
	follicular hyperplasia	6	1	0	0	2	2	0	0	5	2	0	0	7	0	0	0
		(12)	(2)	(0)	(0)	(4)	(4)	(0)	(0)	(10)	(4)	(0)	(0)	(14)	(0)	(0)	(0)
{Circulatory system}																	
heart		<50>				<50>				<50>				<50>			
	mineralization	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	arteritis	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
{Digestive system}																	
tooth		<50>				<50>				<50>				<50>			
	dysplasia	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
tongue		<50>				<50>				<49>				<50>			
	arteritis	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
salivary gl		<50>				<50>				<50>				<50>			
	xanthogranuloma	1	0	0	0	0	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)
stomach		<50>				<50>				<50>				<50>			
	mineralization	7	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0 *
		(14)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	erosion:glandular stomach	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hyperplasia:glandular stomach	13	0	0	0	9	0	0	0	11	0	0	0	2	0	0	0 **
		(26)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach	2	0	0	0	0	0	0	0	1	0	0	0	4	4	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(8)	(0)	(0)
small intes		<50>				<50>				<50>				<50>			
	inflammation	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)

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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

Organ	Findings	Control 50				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
large intes		<50>				<50>				<50>				<50>			
	xanthogranuloma	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
liver		<50>				<50>				<50>				<50>			
	angiectasis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central	1	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0
		(2)	(2)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	1	1	1	0	2	3	0	0	2	1	0	0	1	0	0	0
		(2)	(2)	(2)	(0)	(4)	(6)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	fatty change	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	fatty change:central	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)
	degeneration:central	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study				Control 50				750 ppm 50				1500 ppm 50				3000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<50>				<50>				<50>				<50>				<50>			
	granulation	22	1	0	0	22	0	0	0	20	2	0	0	19	0	0	0	0	0	0	0
		(44)	(2)	(0)	(0)	(44)	(0)	(0)	(0)	(40)	(4)	(0)	(0)	(38)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	clear cell focus	4	0	0	0	0	2	0	0 *	2	1	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd	basophilic cell focus	2	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
		(4)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(2)	(0)	(0)
	vacuolated cell focus	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)
	biliary cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas	inflammatory infiltration	<50>				<50>				<50>				<50>				<50>			
	arteritis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ_____	Findings_____	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	infarct		1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		4	1	0	0	2	1	0	0	1	0	0	0	1	0	0	0
			(8)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	basophilic change		0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	deposit of hemosiderin		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)	
	inflammatory infiltration		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)	
	lymphocytic infiltration		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammatory polyp		0	0	0	0	0	1	2	0	0	1	2	0	0	2	0	
			(0)	(0)	(0)	(0)	(0)	(2)	(4)	(0)	(0)	(2)	(4)	(0)	(0)	(4)	(0)	

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

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

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

PAGE : 9

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney		<50>				<50>				<50>				<50>			
	arteritis	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)
	vacuolization of proximal tubule	32	4	0	0	27	1	0	0	32	1	0	0	30	0	0	0
		(64)	(8)	(0)	(0)	(54)	(2)	(0)	(0)	(64)	(2)	(0)	(0)	(60)	(0)	(0)	(0)
	hydronephrosis	0	0	1	0	0	3	3	0	0	2	4	0	0	3	2	0
		(0)	(0)	(2)	(0)	(0)	(6)	(6)	(0)	(0)	(4)	(8)	(0)	(0)	(6)	(4)	(0)
	tubular necrosis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortico-medullary junction	3	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	mineralization:papilla	5	0	0	0	9	0	0	0	7	0	0	0	7	0	0	0
		(10)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	mineralization:pelvis	4	0	0	0	1	0	0	0	5	0	0	0	5	0	0	0
		(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	mineralization:cortex	15	0	0	0	5	0	0	0 *	4	0	0	0 *	7	0	0	0
		(30)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(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 : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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

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

PAGE : 10

Organ_____	Findings_____	Group Name	Control				750 ppm				1500 ppm				3000 ppm						
		No. of Animals on Study	50				50				50				50						
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
<hr/>																					
(Urinary system)																					
kidney		<50>					<50>					<50>					<50>				
	hyperplasia:tubular epithelium	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	desquamation:pelvis	0	0	0	0	0	1	0	0	1	0	0	0	1	2	0	0				
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(4)	(0)	(0)				
urin bladd		<50>					<50>					<49>					<50>				
	xanthogranuloma	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
<hr/>																					
(Endocrine system)																					
pituitary		<50>					<50>					<50>					<50>				
	angiectasis	1	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)	
	cyst	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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hyperplasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
<hr/>																					
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																					
<hr/>																					
(HPT150)																					

BAIS3

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

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

PAGE : 11

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 50				1500 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																	
pituitary		<50>				<50>				<50>				<50>			
	Rathke pouch	3	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
adrenal		<50>				<50>				<50>				<50>			
	spindle-cell hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	hyperplasia:cortical cell	3	0	0	0	5	0	0	0	4	0	0	0	2	1	0	0
		(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	hyperplasia:medulla	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																	
testis		<50>				<50>				<50>				<50>			
	atrophy	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	16	3	0	0	16	2	0	0	8	0	0	0 *	7	2	0	0
		(32)	(6)	(0)	(0)	(32)	(4)	(0)	(0)	(16)	(0)	(0)	(0)	(14)	(4)	(0)	(0)

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

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

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

PAGE : 12

Organ	Findings	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Reproductive system}																		
testis	xanthogranuloma		<50>				<50>				<50>				<50>			
		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)	(2)	(0)	(0)	
epididymis	mineralization		<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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma		1	1	0	0	0	2	0	0	1	0	0	0	2	1	0	0
			(2)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
prep/cli gl	duct ectasia		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<50>				<50>				<50>				<50>			
		37	0	0	0	29	0	0	0	19	0	0	0 **	21	1	0	0 **	
			(74)	(0)	(0)	(0)	(58)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(42)	(2)	(0)	(0)
{Special sense organs/appendage}																		
Harder gl	hyperplasia		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
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																		

APPENDIX L 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app	inflammation		<50>				<50>				<49>				<50>			
			2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit	eosinophilic change:olfactory epithelium		<50>				<50>				<49>				<50>			
			8	0	0	0	8	2	0	0	3	0	0	0	10	0	0	0
			(16)	(0)	(0)	(0)	(16)	(4)	(0)	(0)	(6)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		21	1	1	0	17	2	1	0	24	2	0	0	21	4	0	0
			(42)	(2)	(2)	(0)	(34)	(4)	(2)	(0)	(49)	(4)	(0)	(0)	(42)	(8)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland		3	0	0	0	5	0	0	0	12	0	0	0 *	14	0	0	0 **
			(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(28)	(0)	(0)	(0)
nasopharynx	eosinophilic change		<50>				<50>				<49>				<50>			
			6	0	0	0	2	0	0	0	1	0	0	0	3	0	0	0
			(12)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)

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

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

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

PAGE : 14

Organ	Findings	Control 50				500 ppm 50				1500 ppm 49				1500 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																	
lung		<50>				<50>				<49>				<50>			
	congestion	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	hemorrhage	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)
	edema	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammatory infiltration	1	1	0	0	1	2	0	0	1	0	0	0	0	0	0	0
		(2)	(2)	(0)	(0)	(2)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	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)
	eosinophilic change:bronchial epithelium	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)
	alveolar proteinosis	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)

{Hematopoietic system}

lymph node		<50>				<50>				<49>				<50>			
	lymphadenitis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Control No. of Animals on Study Grade				500 ppm 50				1500 ppm 49				4500 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
spleen		<50>				<50>				<49>				<50>			
	deposit of melanin	3	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
		(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	extramedullary hematopoiesis	4	5	0	0	3	4	0	0	5	5	0	0	7	4	0	0
		(8)	(10)	(0)	(0)	(6)	(8)	(0)	(0)	(10)	(10)	(0)	(0)	(14)	(8)	(0)	(0)
	follicular hyperplasia	7	1	0	0	2	0	0	0	5	0	0	0	3	0	0	0
		(14)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Circulatory system}																	
heart		<50>				<50>				<49>				<50>			
	mineralization	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	arteritis	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Digestive system}																	
tongue		<50>				<50>				<49>				<50>			
	arteritis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

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

PAGE : 16

Organ	Findings	Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
salivary gl		<50>				<50>				<49>				<50>			
	lymphocytic infiltration	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)
stomach		<50>				<50>				<49>				<50>			
	ectopic sebaceous gland	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)	(8)	(0)	(0)	(0)
	mineralization	3	0	0	0	7	0	0	0	1	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	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)
	erosion:forestomach	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	erosion:glandular stomach	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)
	ulcer:glandular stomach	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach	0	0	0	0	8	0	0	0 **	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(16)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<50>				<50>				<49>				<50>			
	squamous cell hyperplasia:forestomach		5	0	0	0	7	2	0	0	13	2	0	0 *	10	33	2	0 **
			(10)	(0)	(0)	(0)	(14)	(4)	(0)	(0)	(27)	(4)	(0)	(0)	(20)	(66)	(4)	(0)
small intes			<50>				<50>				<49>				<50>			
	hyperplasia:epithelium		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
liver			<50>				<50>				<49>				<50>			
	adhesion		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)
	angiectasis		1	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(2)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	necrosis:focal		0	0	0	0	3	1	0	0	2	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	cyst		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Control No. of Animals on Study Grade				500 ppm 50				1500 ppm 49				4500 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver		<50>				<50>				<49>				<50>			
	deposit of amyloid	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration:peripheral	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	24	3	0	0	19	0	0	0	21	0	0	0	25	0	0	0
		(48)	(6)	(0)	(0)	(38)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	clear cell focus	1	1	0	0	0	0	0	0	1	0	0	0	3	0	0	0
		(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	acidophilic cell focus	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(4)	(0)	(2)	(0)	(0)	(0)
	basophilic cell focus	1	0	0	0	3	1	0	0	1	3	0	0	0	1	0	0
		(2)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(2)	(6)	(0)	(0)	(0)	(2)	(0)	(0)
	biliary cyst	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
		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>				<49>				<50>							
	infarct	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	cyst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyaline droplet	4	1	0	0	4	1	0	0	10	0	0	0	7	0	0	0	7	0	0	0
		(8)	(2)	(0)	(0)	(8)	(2)	(0)	(0)	(20)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	basophilic change	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of amyloid	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast	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)
	inflammatory infiltration	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)
	lymphocytic infiltration	2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(4)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name	Control				500 ppm				1500 ppm				4500 ppm			
		No. of Animals on Study	50				50				49				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	osseous metaplasia		<50>				<50>				<49>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp		1	1	0	0	3	0	0	0	1	0	0	0	0	3	0	0
			(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(6)	(0)	(0)
	arteritis		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)
	hydronephrosis		1	0	0	1	0	2	1	1	1	2	0	0	0	3	1	0
		(2)	(0)	(0)	(2)	(0)	(4)	(2)	(2)	(2)	(4)	(0)	(0)	(0)	(6)	(2)	(0)	
tubular necrosis		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)	
mineralization:papilla		4	0	0	0	4	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)	
mineralization:pelvis		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)	
mineralization:cortex		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
		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>				<49>				<50>							
	desquamation:pelvis	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)	10 (20)	4 (8)	0 (0)	0 * (0)	4 (8)	3 (6)	0 (0)	0 (0)	4 (8)	3 (6)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis	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)
ureter		<50>				<50>				<49>				<50>							
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Endocrine system)																					
pituitary		<50>				<50>				<49>				<50>							
	angiectasis	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	hyperplasia	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)

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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	Rathke pouch		<50>				<50>				<49>				<50>			
			3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
thyroid	focal follicular cell hyperplasia		<50>				<50>				<49>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	fatty change		<50>				<50>				<49>				<50>			
			0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:cortical cell		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary	thrombus		<49>				<50>				<49>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

		Group Name No. of Animals on Study Grade				Control 50				500 ppm 50				1500 ppm 49				4500 ppm 50			
Organ	Findings	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
{Reproductive system}																					
ovary		<49>				<50>				<49>				<50>							
	cyst	10 (20)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)				
uterus	hyperplasia:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	cystic endometrial hyperplasia	24 (48)	6 (12)	0 (0)	0 (0)	23 (46)	0 (0)	0 (0)	0 * (0)	18 (38)	5 (11)	0 (0)	0 (0)	21 (42)	8 (16)	0 (0)	0 (0)				
	xanthogranuloma	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
{Nervous system}																					
brain		<50>				<50>				<49>				<50>							
	mineralization	15 (30)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	15 (31)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)				
{Special sense organs/appendage}																					
Harder gl		<50>				<50>				<49>				<50>							
	degeneration	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 sito																				
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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ_____	Findings_____	Group Name				Control				500 ppm				1500 ppm				4500 ppm			
		No. of Animals on Study				50				50				49				50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			

{Special sense organs/appendage}

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

{Musculoskeletal system}

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

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)

BAIS3

APPENDIX L 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

HISTOLOGICAL 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				750 ppm 14				1500 ppm 12				3000 ppm 7			
		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		<13>				<14>				<12>				< 7>							
	inflammation	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scab	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis		<13>				<14>				<12>				< 7>							
	inflammation	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)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																					
nasal cavit		<13>				<14>				<12>				< 7>							
	eosinophilic change:olfactory epithelium	1	0	0	0	7	0	0	0 *	2	1	0	0	1	0	0	0	1	0	0	0
		(8)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(17)	(8)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	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)	(14)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL 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				750 ppm 14				1500 ppm 12				3000 ppm 7			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit	respiratory metaplasia:gland	<13>				<14>				<12>				< 7>							
		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx	eosinophilic change	<13>				<14>				<12>				< 7>							
		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)	(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung	congestion	<13>				<14>				<12>				< 7>							
		2	2	0	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(15)	(15)	(0)	(0)	(7)	(14)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage	<13>				<14>				<12>				< 7>							
		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	<13>				<14>				<12>				< 7>							
		0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(14)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																					
spleen	extramedullary hematopoiesis	<13>				<14>				<12>				< 7>							
		3	2	0	0	1	4	0	0	1	0	0	0	0	2	0	0	0	0	0	0
		(23)	(15)	(0)	(0)	(7)	(29)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(29)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	13				14				12				7			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<13>				<14>				<12>				< 7>			
	follicular hyperplasia		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)	(0)	(0)	(0)	(0)	(0)	(0)
{Circulatory system}																		
heart			<13>				<14>				<12>				< 7>			
	mineralization		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)	(0)	(0)	(0)	(0)	(0)
	arteritis		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tongue			<13>				<14>				<12>				< 7>			
	arteritis		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<13>				<14>				<12>				< 7>			
	mineralization		3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(23)	(0)	(0)	(0)	(0)	(7)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 14				1500 ppm 12				3000 ppm 7			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
stomach		<13>				<14>				<12>				< 7>			
	inflammatory infiltration	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)
	ulcer:forestomach	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	hyperplasia:glandular stomach	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)
	squamous cell hyperplasia:forestomach	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)
small intes		<13>				<14>				<12>				< 7>			
	inflammation	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
liver		<13>				<14>				<12>				< 7>			
	necrosis:conral	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(8)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	1	0	1	0	0	2	0	0	0	1	0	0	0	0	0	0
		(8)	(0)	(8)	(0)	(0)	(14)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

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

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

PAGE : 5

		Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	13				14				12				7			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Digestive system}																		
liver			<13>				<14>				<12>				< 7>			
	fatty change:central		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)
	degeneration:central		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		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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<13>				<14>				<12>				< 7>			
	arteritis		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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
<hr/>																		
{Urinary system}																		
kidney			<13>				<14>				<12>				< 7>			
	hyaline droplet		3	1	0	0	2	1	0	0	0	0	0	0	1	0	0	0
		(23)	(8)	(0)	(0)	(14)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 14				1500 ppm 12				3000 ppm 7			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney		<13>				<14>				<12>				< 7>			
	basophilic change	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)	(14)	(0)	(0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(17)	(0)	(0)	(14)	(0)	(0)
	arteritis	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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolization of proximal tubule	1	0	0	0	3	1	0	0	2	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(21)	(7)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis	0	0	1	0	0	1	2	0	0	0	2	0	0	1	1	0
		(0)	(0)	(8)	(0)	(0)	(7)	(14)	(0)	(0)	(0)	(17)	(0)	(0)	(14)	(14)	(0)
	tubular necrosis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortico-medullary junction	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)	(14)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 13				750 ppm 14				1500 ppm 12				3000 ppm 7			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney	mineralization:papilla		<13>				<14>				<12>				< 7>			
			0	0	0	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)	(14)	(0)	(0)	(0)
	mineralization:pelvis		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)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortex		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(31)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																		
pituitary	Rathke pouch		<13>				<14>				<12>				< 7>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	hyperplasia:cortical cell		<13>				<14>				<12>				< 7>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Reproductive system)																		
testis	mineralization		<13>				<14>				<12>				< 7>			
			5	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0
			(38)	(0)	(0)	(0)	(21)	(7)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

		Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	13				14				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
epididymis			<13>				<14>				<12>				< 7>			
	spermatogenic granuloma		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl			<13>				<14>				<12>				< 7>			
	duct ectasia		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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain			<13>				<14>				<12>				< 7>			
	mineralization		10	0	0	0	6	0	0	0	3	0	0	0 *	1	0	0	0 *
			(77)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(14)	(0)	(0)	(0)

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

(HPT150)

BAIS3

APPENDIX L 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 19				500 ppm 26				1500 ppm 22				4500 ppm 14			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<19>				<26>				<22>				<14>			
	inflammation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<19>				<26>				<22>				<14>			
	eosinophilic change:olfactory epithelium		5	0	0	0	4	1	0	0	1	0	0	0	2	0	0	0
			(26)	(0)	(0)	(0)	(15)	(4)	(0)	(0)	(5)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		7	0	0	0	6	0	1	0	9	0	0	0	3	0	0	0
			(37)	(0)	(0)	(0)	(23)	(0)	(4)	(0)	(41)	(0)	(0)	(0)	(21)	(0)	(0)	(0)
	respiratory metaplasia:gland		0	0	0	0	2	0	0	0	5	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(29)	(0)	(0)	(0)
nasopharynx			<19>				<26>				<22>				<14>			
	eosinophilic change		3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(16)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<19>				<26>				<22>				<14>			
	congestion		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(7)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 19				500 ppm 26				1500 ppm 22				4500 ppm 14			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<19>				<26>				<22>				<14>			
	hemorrhage		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	edema		1	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)	(7)	(0)	(0)	(0)
	inflammatory infiltration		1	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0
			(5)	(5)	(0)	(0)	(4)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			<19>				<26>				<22>				<14>			
	lymphadenitis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<19>				<26>				<22>				<14>			
	extramedullary hematopoiesis		2	3	0	0	2	3	0	0	3	5	0	0	6	1	0	0
			(11)	(16)	(0)	(0)	(8)	(12)	(0)	(0)	(14)	(23)	(0)	(0)	(43)	(7)	(0)	(0)
{Circulatory system}																		
heart			<19>				<26>				<22>				<14>			
	mineralization		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(11)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 11

Organ	Findings	Control No. of Animals on Study Grade				500 ppm 26				1500 ppm 22				4500 ppm 14			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																	
heart		<19>				<26>				<22>				<14>			
	arteritis	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(7)	(0)	(0)
{Digestive system}																	
tongue		<19>				<26>				<22>				<14>			
	arteritis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach		<19>				<26>				<22>				<14>			
	ectopic sebaceous gland	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)	(7)	(0)	(0)	(0)
	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	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)	(7)	(0)	(0)
	erosion:forestomach	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)

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

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

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

PAGE : 12

Organ_____	Findings_____	Group Name	Control				500 ppm				1500 ppm				4500 ppm			
		No. of Animals on Study	19				26				22				14			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Digestive system}

stomach

erosion:glandular stomach

<19>

1000

(5) (0) (0) (0)

<26>

0000

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

<22>

0000

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

<14>

0000

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

ulcer:glandular stomach

0000

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

1000

(4) (0) (0) (0)

0000

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

0000

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

hyperplasia:glandular stomach

0000

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

1000

(4) (0) (0) (0)

0000

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

0000

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

squamous cell hyperplasia:forestomach

3000

(16) (0) (0) (0)

6100

(23) (4) (0) (0)

8200

(36) (9) (0) (0)

3900**

(21) (64) (0) (0)

small intes

hyperplasia:epithelium

<19>

0000

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

<26>

0000

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

<22>

0100

(0) (5) (0) (0)

<14>

0000

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

liver

adhesion

<19>

0000

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

<26>

0000

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

<22>

1000

(5) (0) (0) (0)

<14>

0000

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

angiectasis

0100

(0) (5) (0) (0)

0000

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

0000

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

0000

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

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

STUDY NO. : 0348
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 REPORT TYPE : A1
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HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 13

Organ	Findings	Control No. of Animals on Study Grade				500 ppm 26				1500 ppm 22				4500 ppm 14			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver		<19>				<26>				<22>				<14>			
	necrosis:central	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)
	necrosis:focal	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration:peripheral	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(5)	(5)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus	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)
	basophilic cell focus	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																	
kidney		<19>				<26>				<22>				<14>			
	hyaline droplet	3	0	0	0	4	1	0	0	9	0	0	0	7	0	0	0
		(16)	(0)	(0)	(0)	(15)	(4)	(0)	(0)	(41)	(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 : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study				Control 19				500 ppm 26				1500 ppm 22				4500 ppm 14			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<19>				<26>				<22>				<14>							
	basophilic change	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)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of amyloid	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	osseous metaplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)
	hydronephrosis	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(5)	(0)	(4)	(4)	(4)	(4)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	tubular necrosis	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)	(4)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(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 : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 19				500 ppm 26				1500 ppm 22				4500 ppm 14			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<19>				<26>				<22>				<14>			
	mineralization: papilla		2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization: cortex		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	desquamation: pelvis		1	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(4)	(8)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ureter			<19>				<26>				<22>				<14>			
	inflammation		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)
{Endocrine system}																		
pituitary			<19>				<26>				<22>				<14>			
	cyst		3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(16)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ;	* : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																	

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

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study				Control 19				500 ppm 26				1500 ppm 22				4500 ppm 14			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
thyroid		<19>				<26>				<22>				<14>							
	focal follicular cell hyperplasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal		<19>				<26>				<22>				<14>							
	spindle-cell hyperplasia	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																					
ovary		<19>				<26>				<22>				<14>							
	thrombus	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)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst	2	0	0	0	3	0	0	0	1	0	0	0	3	0	0	0	3	0	0	0
		(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(21)	(0)	(0)	(0)
uterus		<19>				<26>				<20>				<14>							
	hyperplasia:epithelium	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia	5	1	0	0	8	0	0	0	3	1	0	0	2	0	0	0	2	0	0	0
		(26)	(5)	(0)	(0)	(31)	(0)	(0)	(0)	(15)	(5)	(0)	(0)	(14)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

		Group Name	Control				500 ppm				1500 ppm				4500 ppm			
		No. of Animals on Study	19				26				22				14			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
uterus			<19>				<26>				<20>				<14>			
	xanthogranuloma		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)	(0)
{Nervous system}																		
brain			<19>				<26>				<22>				<14>			
	mineralization		5	0	0	0	6	0	0	0	3	0	0	0	3	0	0	0
		(26)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(21)	(0)	(0)	(0)
{Special sense organs/appendage}																		
Harder gl			<19>				<26>				<22>				<14>			
	degeneration		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)	(7)	(0)	(0)	(0)	
{Musculoskeletal system}																		
muscle			<19>				<26>				<22>				<14>			
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(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

(HPT150)

BAIS3

APPENDIX L 5

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

		Group Name No. of Animals on Study				Control 37				750 ppm 36				1500 ppm 38				3000 ppm 43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
{Integumentary system/appandage}																					
skin/app			<37>				<36>				<38>				<43>						
	hyperplasia:epidermis		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)			
{Respiratory system}																					
nasal cavit			<37>				<36>				<38>				<43>						
	eosinophilic change:olfactory epithelium		13	1	0	0	10	1	0	0	7	0	0	0	12	1	0	0			
			(35)	(3)	(0)	(0)	(28)	(3)	(0)	(0)	(18)	(0)	(0)	(0)	(28)	(2)	(0)	(0)			
	eosinophilic change:respiratory epithelium		2	2	0	0	7	0	0	0	5	1	0	0	2	1	0	0			
			(5)	(5)	(0)	(0)	(19)	(0)	(0)	(0)	(13)	(3)	(0)	(0)	(5)	(2)	(0)	(0)			
	respiratory metaplasia:olfactory epithelium		4	1	0	0	4	1	0	0	1	0	0	0	4	0	0	0			
			(11)	(3)	(0)	(0)	(11)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(9)	(0)	(0)	(0)			
	respiratory metaplasia:gland		1	2	0	0	9	1	0	0 *	12	3	0	0 **	10	0	0	0 *			
			(3)	(5)	(0)	(0)	(25)	(3)	(0)	(0)	(32)	(8)	(0)	(0)	(23)	(0)	(0)	(0)			
nasopharynx			<37>				<36>				<38>				<43>						
	eosinophilic change		1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0			
			(3)	(3)	(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	b : Number of animals with lesion																				
(c)	c : b / a * 100																				
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																					
(HPT150)																					

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

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

PAGE : 2

		Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	37				36				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<37>				<36>				<38>				<43>			
	inflammation		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)	(5)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			<37>				<36>				<38>				<43>			
	deposit of amyloid		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)
spleen			<37>				<36>				<38>				<43>			
	deposit of amyloid		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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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

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

PAGE : 3

		Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	37				36				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			<37>				<36>				<38>				<43>			
	deposit of melanin		0	2	0	0	1	0	0	0	0	3	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		2	0	0	0	3	1	0	0	1	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(8)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	follicular hyperplasia		5	1	0	0	1	2	0	0	5	2	0	0	7	0	0	0
			(14)	(3)	(0)	(0)	(3)	(6)	(0)	(0)	(13)	(5)	(0)	(0)	(16)	(0)	(0)	(0)
[Circulatory system]																		
heart			<37>				<36>				<38>				<43>			
	mineralization		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	arteritis		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)
[Digestive system]																		
tooth			<37>				<36>				<38>				<43>			
	dysplasia		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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 37				750 ppm 36				1500 ppm 38				3000 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
tongue	arteritis	<37>				<36>				<37>				<43>							
		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)	(0)	(0)	(0)	(0)
salivary gl	xanthogranuloma	<37>				<36>				<38>				<43>							
		1	0	0	0	0	0	0	0	1	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)	(2)	(0)	(0)	(0)
stomach	mineralization	<37>				<36>				<38>				<43>							
		4	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		(11)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach	<37>				<36>				<38>				<43>							
		0	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)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	erosion:glandular stomach	<37>				<36>				<38>				<43>							
		1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	hyperplasia:glandular stomach	<37>				<36>				<38>				<43>							
		12	0	0	0	9	0	0	0	11	0	0	0	2	0	0	0	2	0	0	0 **
		(32)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach	<37>				<36>				<38>				<43>							
		0	0	0	0	0	0	0	0	1	0	0	0	4	3	0	0	4	3	0	0 *
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(9)	(7)	(0)	(0)	(9)	(7)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Control 37				750 ppm 36				1500 ppm 38				3000 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
large intes		<37>				<36>				<38>				<43>			
	xanthogranuloma	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
liver		<37>				<36>				<38>				<43>			
	angiectasis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	0	1	0	0	2	1	0	0	2	0	0	0	1	0	0	0
		(0)	(3)	(0)	(0)	(6)	(3)	(0)	(0)	(5)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	fatty change	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	granulation	22	1	0	0	22	0	0	0	20	2	0	0	19	0	0	0
		(59)	(3)	(0)	(0)	(61)	(0)	(0)	(0)	(53)	(5)	(0)	(0)	(44)	(0)	(0)	(0)
	clear cell focus	4	0	0	0	0	2	0	0 *	2	1	0	0	0	0	0	0
		(11)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(5)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus	2	0	0	0	1	1	0	0	2	1	0	0	2	1	0	0
		(5)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(5)	(3)	(0)	(0)	(5)	(2)	(0)	(0)

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

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

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

PAGE : 6

Organ	Findings	Group Name	Control				750 ppm				1500 ppm				3000 ppm			
		No. of Animals on Study	37				36				38				43			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<37>				<36>				<38>				<43>			
	vacuolated cell focus		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)
	biliary cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<37>				<36>				<38>				<43>			
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<37>				<36>				<38>				<43>			
	infarct		1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 36				1500 ppm 38				3000 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney		<37>				<36>				<38>				<43>			
	basophilic change	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)
	vacuolization of proximal tubule	31	4	0	0	24	0	0	0 **	30	1	0	0	30	0	0	0 **
		(84)	(11)	(0)	(0)	(67)	(0)	(0)	(0)	(79)	(3)	(0)	(0)	(70)	(0)	(0)	(0)
	hydronephrosis	0	0	0	0	0	2	1	0	0	2	2	0	0	2	1	0
		(0)	(0)	(0)	(0)	(0)	(6)	(3)	(0)	(0)	(5)	(5)	(0)	(0)	(5)	(2)	(0)
	mineralization:cortico-medullary junction	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization:papilla	5	0	0	0	9	0	0	0	6	0	0	0	6	0	0	0
		(14)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(16)	(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 : Number of animals with lesion

(c) c : b / a * 100

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

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

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

PAGE : 8

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 36				1500 ppm 38				3000 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney		<37>				<36>				<38>				<43>			
	mineralization:pelvis	3	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	mineralization:cortex	11	0	0	0	5	0	0	0	4	0	0	0	7	0	0	0
		(30)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	hyperplasia:tubular epithelium	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	desquamation:pelvis	0	0	0	0	0	1	0	0	1	0	0	0	1	2	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(5)	(0)	(0)
urin bladd		<37>				<36>				<37>				<43>			
	xanthogranuloma	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																	
pituitary		<37>				<36>				<36>				<43>			
	angiectasis	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)

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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ	Findings	Control No. of Animals on Study Grade				750 ppm 36				1500 ppm 38				3000 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																	
pituitary		<37>				<36>				<38>				<43>			
	cyst	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch	3	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
adrenal		<37>				<36>				<38>				<43>			
	spindle-cell hyperplasia	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)	(7)	(0)	(0)	(0)
	hyperplasia:cortical cell	3	0	0	0	5	0	0	0	3	0	0	0	2	1	0	0
		(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(2)	(0)	(0)
	hyperplasia:medulla	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>				<36>				<38>				<43>			
	atrophy	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 37				750 ppm 36				1500 ppm 38				3000 ppm 43															
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)											
{Reproductive system}																																	
testis	mineralization	<37>				11	3	0	0	<36>				13	1	0	0	<38>				8	0	0	0	<43>				7	2	0	0
		(30)	(8)	(0)	(0)	(36)	(3)	(0)	(0)	(21)	(0)	(0)	(0)	(16)	(5)	(0)	(0)																
	xanthogranuloma	<37>				0	0	0	0	<36>				0	0	0	0	<38>				0	0	0	0	<43>				0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)																
epididymis	mineralization	<37>				0	0	0	0	<36>				0	0	0	0	<38>				1	0	0	0	<43>				0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)																
	spermatogenic granuloma	<37>				1	1	0	0	<36>				0	1	0	0	<38>				1	0	0	0	<43>				2	1	0	0
		(3)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(2)	(0)	(0)																
prep/cli gl	duct ectasia	<37>				0	0	0	0	<36>				1	0	0	0	<38>				0	1	0	0	<43>				0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)																
{Nervous system}																																	
brain	mineralization	<37>				27	0	0	0	<36>				23	0	0	0	<38>				16	0	0	0 *	<43>				20	1	0	0 *
		(73)	(0)	(0)	(0)	(64)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(47)	(2)	(0)	(0)																
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																																	
< a > a : Number of animals examined at the site																																	
b b : Number of animals with lesion																																	
(c) c : b / a * 100																																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																																	

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

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study				Control 37				750 ppm 36				1500 ppm 38				3000 ppm 43			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl	hyperplasia	<37>				<36>				<38>				<43>			
		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)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

(HPT150)

BAIS3

APPENDIX L 6

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade				Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		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	inflammation	<31>				<24>				<27>				<36>							
		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)
{Respiratory system}																					
nasal cavit	eosinophilic change:olfactory epithelium	<31>				<24>				<27>				<36>							
		3	0	0	0	4	1	0	0	2	0	0	0	8	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(17)	(4)	(0)	(0)	(7)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	<31>				<24>				<27>				<36>							
		14	1	1	0	11	2	0	0	15	2	0	0	18	4	0	0	0	0	0	0
		(45)	(3)	(3)	(0)	(46)	(8)	(0)	(0)	(56)	(7)	(0)	(0)	(50)	(11)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	<31>				<24>				<27>				<36>							
		3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland	<31>				<24>				<27>				<36>							
		3	0	0	0	3	0	0	0	7	0	0	0	10	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx	eosinophilic change	<31>				<24>				<27>				<36>							
		3	0	0	0	1	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<31>				<24>				<27>				<36>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	eosinophilic change:bronchial epithelium		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)
	alveolar proteinosis		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			<31>				<24>				<27>				<36>			
	lymphadenitis		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)
spleen			<31>				<24>				<27>				<36>			
	deposit of melanin		3	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
			(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)

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

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

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

PAGE : 14

Organ	Findings	Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
spleen		<31>				<24>				<27>				<36>			
	extramedullary hematopoiesis	2	2	0	0	1	1	0	0	2	0	0	0	1	3	0	0
		(6)	(6)	(0)	(0)	(4)	(4)	(0)	(0)	(7)	(0)	(0)	(0)	(3)	(8)	(0)	(0)
	follicular hyperplasia	7	1	0	0	2	0	0	0	5	0	0	0	3	0	0	0
		(23)	(3)	(0)	(0)	(8)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
{Circulatory system}																	
heart		<31>				<24>				<27>				<36>			
	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)	(3)	(0)	(0)	(0)
{Digestive system}																	
salivary gl		<31>				<24>				<27>				<36>			
	lymphocytic infiltration	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach		<31>				<24>				<27>				<36>			
	ectopic sebaceous gland	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)	(8)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																
< a >	a : Number of animals examined at the site																
b	b : Number of animals with lesion																
(c)	c : b / a * 100																
Significant difference :	* : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																

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

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

PAGE : 15

Organ	Findings	Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
stomach		<31>				<24>				<27>				<36>			
	mineralization	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:forestomach	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	erosion:glandular stomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:glandular stomach	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach	0	0	0	0	7	0	0	0 **	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia:forestomach	2	0	0	0	1	1	0	0	5	0	0	0	7	24	2	0 **
		(6)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(19)	(0)	(0)	(0)	(19)	(67)	(6)	(0)
small intes		<31>				<24>				<27>				<36>			
	hyperplasia:epithelium	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)	(3)	(0)	(0)
liver		<31>				<24>				<27>				<36>			
	angiectasis	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(3)	(10)	(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

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

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

PAGE : 16

Organ	Findings	Control No. of Animals on Study Grade				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver		<31>				<24>				<27>				<36>			
	necrosis:focal	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	cyst	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)
	deposit of amyloid	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	23	2	0	0	18	0	0	0	21	0	0	0	25	0	0	0
		(74)	(6)	(0)	(0)	(75)	(0)	(0)	(0)	(78)	(0)	(0)	(0)	(69)	(0)	(0)	(0)
	clear cell focus	1	1	0	0	0	0	0	0	1	0	0	0	3	0	0	0
		(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	acidophilic cell focus	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(3)	(0)	(0)	(0)
	basophilic cell focus	1	0	0	0	2	1	0	0	1	2	0	0	0	1	0	0
		(3)	(0)	(0)	(0)	(8)	(4)	(0)	(0)	(4)	(7)	(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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver		<31>				<24>				<27>				<36>			
	biliary cyst	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																	
kidney		<31>				<24>				<27>				<36>			
	infarct	0	1	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)	(3)	(0)	(0)	(0)
	cyst	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	hyaline droplet	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic change	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)
	deposit of amyloid	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)
	inflammatory infiltration	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)

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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade				Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
{Urinary system}																					
kidney		<31>				<24>				<27>				<36>							
	lymphocytic infiltration	2 (6)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)				
	inflammatory polyp	1 (3)	1 (3)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)				
	hydronephrosis	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	3 (8)	1 (3)	0 (0)				
	mineralization:papilla	2 (6)	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)				
	mineralization:pelvis	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)	0 (0)	0 (0)				
	desquamation:pelvis	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	7 (26)	4 (15)	0 (0)	0 (0)	** (0)	4 (11)	3 (8)	0 (0)				
urothelial hyperplasia:pelvis	0 (0)	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)					
{Endocrine system}																					
pituitary		<31>				<24>				<27>				<36>							
	angiectasis	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<31>				<24>				<27>				<36>			
	cyst		0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	hyperplasia		1	1	0	0	1	0	0	0	3	0	0	0	3	0	0	0
			(3)	(3)	(0)	(0)	(4)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	Rathke pouch		3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
adrenal			<31>				<24>				<27>				<36>			
	fatty change		0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	hyperplasia:cortical cell		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<30>				<24>				<27>				<36>			
	cyst		8	0	0	0	6	0	0	0	6	0	0	0	11	0	0	0
			(27)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(31)	(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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade				Control 31				500 ppm 24				1500 ppm 27				4500 ppm 36			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																					
uterus	hyperplasia:epithelium	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia	19	5	0	0	15	0	0	0	15	4	0	0	19	8	0	0	19	8	0	0
		(61)	(16)	(0)	(0)	(63)	(0)	(0)	(0)	(56)	(15)	(0)	(0)	(53)	(22)	(0)	(0)	(53)	(22)	(0)	(0)
{Nervous system}																					
brain	mineralization	10	0	0	0	5	0	0	0	12	0	0	0	15	0	0	0	15	0	0	0
		(32)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(42)	(0)	(0)	(0)
{Special sense organs/appendage}																					
Harder gl	degeneration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(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

(HPT150)

BAIS3

APPENDIX M 1

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

MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0348
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	750 ppm	1500 ppm	3000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	1	1	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		3	3	3	5
	NO. OF ANIMALS WITH TUMORS		2	1	2	3
	NO. OF ANIMALS WITH SINGLE TUMORS		1	1	2	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		1	0	1	0
	NO. OF MALIGNANT TUMORS		2	1	1	3
	NO. OF TOTAL TUMORS		3	1	2	3
79 - 104	NO. OF EXAMINED ANIMALS		10	10	8	2
	NO. OF ANIMALS WITH TUMORS		10	9	8	2
	NO. OF ANIMALS WITH SINGLE TUMORS		7	7	4	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	2	4	0
	NO. OF BENIGN TUMORS		0	1	4	0
	NO. OF MALIGNANT TUMORS		14	10	8	2
	NO. OF TOTAL TUMORS		14	11	12	2
105 - 105	NO. OF EXAMINED ANIMALS		37	36	38	43
	NO. OF ANIMALS WITH TUMORS		24	31	22	16
	NO. OF ANIMALS WITH SINGLE TUMORS		11	23	16	15
	NO. OF ANIMALS WITH MULTIPLE TUMORS		13	8	6	1
	NO. OF BENIGN TUMORS		19	19	13	8
	NO. OF MALIGNANT TUMORS		19	21	17	9
	NO. OF TOTAL TUMORS		38	40	30	17

STUDY NO. : 0348
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	750 ppm	1500 ppm	3000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		36	41	32	21
	NO. OF ANIMALS WITH SINGLE TUMORS		19	31	22	20
	NO. OF ANIMALS WITH MULTIPLE TUMORS		17	10	10	1
	NO. OF BENIGN TUMORS		20	20	18	8
	NO. OF MALIGNANT TUMORS		35	32	26	14
	NO. OF TOTAL TUMORS		55	52	44	22
(HPT070)						BAIS3

APPENDIX M 2

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

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0348
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	500 ppm	1500 ppm	4500 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	1
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		4	5	1	3
	NO. OF ANIMALS WITH TUMORS		3	3	1	2
	NO. OF ANIMALS WITH SINGLE TUMORS		3	3	1	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	1
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		3	3	1	3
	NO. OF TOTAL TUMORS		3	3	1	3
79 - 104	NO. OF EXAMINED ANIMALS		14	21	21	10
	NO. OF ANIMALS WITH TUMORS		14	19	17	10
	NO. OF ANIMALS WITH SINGLE TUMORS		10	12	15	9
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	7	2	1
	NO. OF BENIGN TUMORS		4	8	3	1
	NO. OF MALIGNANT TUMORS		14	19	16	10
	NO. OF TOTAL TUMORS		18	27	19	11
105 - 105	NO. OF EXAMINED ANIMALS		31	24	27	36
	NO. OF ANIMALS WITH TUMORS		16	18	14	14
	NO. OF ANIMALS WITH SINGLE TUMORS		12	11	11	12
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	7	3	2
	NO. OF BENIGN TUMORS		7	13	9	5
	NO. OF MALIGNANT TUMORS		14	14	9	12
	NO. OF TOTAL TUMORS		21	27	18	17

STUDY NO. : 0348
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	500 ppm	1500 ppm	4500 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	49	50
	NO. OF ANIMALS WITH TUMORS		33	40	32	26
	NO. OF ANIMALS WITH SINGLE TUMORS		25	26	27	22
	NO. OF ANIMALS WITH MULTIPLE TUMORS		8	14	5	4
	NO. OF BENIGN TUMORS		11	21	12	6
	NO. OF MALIGNANT TUMORS		31	36	26	25
	NO. OF TOTAL TUMORS		42	57	38	31

(HPT070)

BAIS3

APPENDIX N 1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE: ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	mastcytoma:malignant		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	hemangiosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Respiratory system}						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		5 (10%)	6 (12%)	4 (8%)	3 (6%)
	bronchiolar-alveolar carcinoma		4 (8%)	3 (6%)	5 (10%)	1 (2%)
{Hematopoietic system}						
lymph node			<50>	<50>	<50>	<50>
	malignant lymphoma		7 (14%)	11 (22%)	9 (18%)	6 (12%)
	mastcytoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
spleen			<50>	<50>	<50>	<50>
	hemangioma		3 (6%)	1 (2%)	1 (2%)	0 (0%)
	malignant lymphoma		2 (4%)	3 (6%)	2 (4%)	1 (2%)
	hemangiosarcoma		2 (4%)	1 (2%)	1 (2%)	0 (0%)

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

(HPT085)

BAIS3

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

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
{Circulatory system}						
heart	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
{Digestive system}						
stomach	squamous cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
small intes	adenocarcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
liver	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	hepatocellular adenoma		7 (14%)	8 (16%)	5 (10%)	3 (6%)
	histiocytic sarcoma		3 (6%)	1 (2%)	0 (0%)	2 (4%)
	hemangiosarcoma		7 (14%)	3 (6%)	3 (6%)	0 (0%)
	hepatocellular carcinoma		6 (12%)	7 (14%)	4 (8%)	0 (0%)
	hepatoblastoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
gall bladd	adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
pancreas	islet cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Urinary system}						
urin bladd	xanthoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)

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

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

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
{Endocrine system}						
pituitary	adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
{Reproductive system}						
epididymis	histiocytic sarcoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)
{Nervous system}						
periph nerv	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 2 (4%)	<50> 3 (6%)	<50> 4 (8%)	<50> 1 (2%)

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

(IPT085)

BAIS3

APPENDIX N 2

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
{Integumentary system/appandage}						
subcutis	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)	<50> 1 (2%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 0 (0%)	<50> 1 (2%)	<49> 1 (2%)	<50> 0 (0%)
	bronchiolar-alveolar carcinoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
{Hematopoietic system}						
lymph node	malignant lymphoma		<50> 18 (36%)	<50> 17 (34%)	<49> 9 (18%)	<50> 9 (18%)
	mastcytoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
thymus	thymoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
spleen	malignant lymphoma		<50> 4 (8%)	<50> 2 (4%)	<49> 1 (2%)	<50> 3 (6%)
{Digestive system}						
tongue	squamous cell carcinoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)

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

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

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
(Digestive system)						
stomach			<50>	<50>	<49>	<50>
	mastcytoma:malignant		0 (0%)	1 (2%)	0 (0%)	1 (2%)
liver			<50>	<50>	<49>	<50>
	hemangioma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
	hepatocellular adenoma		0 (0%)	6 (12%)	1 (2%)	2 (4%)
	histiocytic sarcoma		1 (2%)	2 (4%)	1 (2%)	0 (0%)
	hepatocellular carcinoma		1 (2%)	2 (4%)	0 (0%)	0 (0%)
(Urinary system)						
kidney			<50>	<50>	<49>	<50>
	renal cell carcinoma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
(Endocrine system)						
pituitary			<50>	<50>	<49>	<50>
	adenoma		5 (10%)	6 (12%)	1 (2%)	1 (2%)
	adenocarcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
adrenal			<50>	<50>	<49>	<50>
	pheochromocytoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Reproductive system)						
ovary			<49>	<50>	<49>	<50>
	cystadenoma		1 (2%)	3 (6%)	2 (4%)	1 (2%)

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

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

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
{Reproductive system}						
ovary	hemangioma		<49> 2 (4%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
uterus	endometrial stromal polyp		<50> 1 (2%)	<50> 0 (0%)	<47> 3 (6%)	<50> 2 (4%)
	histiocytic sarcoma		5 (10%)	6 (12%)	12 (26%)	9 (18%)
mammary gl	adenocarcinoma		<50> 2 (4%)	<50> 0 (0%)	<49> 0 (0%)	<50> 0 (0%)
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 2 (4%)	<50> 2 (4%)	<49> 1 (2%)	<50> 0 (0%)
{Musculoskeletal system}						
bone	osteosarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
vertebra	hemangioma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)

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

(HPT085)

BAIS3

APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : MALE: (2-YEAR STUDY)

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	750 ppm	1500 ppm	3000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	6/50(12.0)	4/50(8.0)	3/50(6.0)
Adjusted rates(b)	13.51	16.67	10.53	6.98
Terminal rates(c)	5/37(13.5)	6/36(16.7)	4/38(10.5)	3/43(7.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8826			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3582			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3575
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	3/50(6.0)	5/50(10.0)	1/50(2.0)
Adjusted rates(b)	5.41	8.33	5.26	2.33
Terminal rates(c)	2/37(5.4)	3/36(8.3)	2/38(5.3)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7930			
Prevalence method(d)	P = 0.8103			
Combined analysis(d)	P = 0.8914			
Cochran-Armitage test(e)	P = 0.2648			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1811
SITE : lung TUMOR : bronchiolar-alveolar adenoma,bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	9/50(18.0)	9/50(18.0)	9/50(18.0)	4/50(8.0)
Adjusted rates(b)	18.92	25.00	15.79	9.30
Terminal rates(c)	7/37(18.9)	9/36(25.0)	6/38(15.8)	4/43(9.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7930			
Prevalence method(d)	P = 0.9409			
Combined analysis(d)	P = 0.9630			
Cochran-Armitage test(e)	P = 0.1372			
Fisher Exact test(e)		P = 0.6024	P = 0.6024	P = 0.1168

(HPT360A)

BAIS3

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	750 ppm	1500 ppm	3000 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	11/50(22.0)	9/50(18.0)	6/50(12.0)
Adjusted rates(b)	10.81	13.89	13.16	11.63
Terminal rates(c)	4/37(10.8)	5/36(13.9)	5/38(13.2)	5/43(11.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8911			
Prevalence method(d)	P = 0.4983			
Combined analysis(d)	P = 0.7942			
Cochran-Armitage test(e)	P = 0.5407			
Fisher Exact test(e)		P = 0.2178	P = 0.3929	P = 0.5000
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	1/50(2.0)	0/50(0.0)
Adjusted rates(b)	8.11	2.78	2.13	0.0
Terminal rates(c)	3/37(8.1)	1/36(2.8)	0/38(0.0)	0/43(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9650			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0783			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.1212
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	5.41	8.33	5.26	2.33
Terminal rates(c)	2/37(5.4)	3/36(8.3)	2/38(5.3)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8103			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4642			
Fisher Exact test(e)		P = 0.5000	P = 0.6913	P = 0.5000

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	750 ppm	1500 ppm	3000 ppm
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	2/50(4.0)	2/50(4.0)	0/50(0.0)
Adjusted rates(b)	11.63	5.56	4.26	0.0
Terminal rates(c)	4/37(10.8)	2/36(5.6)	0/38(0.0)	0/43(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9906			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0245*			
Fisher Exact test(e)		P = 0.2180	P = 0.2180	P = 0.0281*
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	8/50(16.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	18.92	19.44	11.11	6.98
Terminal rates(c)	7/37(18.9)	7/36(19.4)	4/38(10.5)	3/43(7.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5856			
Prevalence method(d)	P = 0.9526			
Combined analysis(d)	P = 0.9595			
Cochran-Armitage test(e)	P = 0.1245			
Fisher Exact test(e)		P = 0.5000	P = 0.3798	P = 0.1589
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/50(0.0)	2/50(4.0)
Adjusted rates(b)	2.70	0.0	0.0	2.33
Terminal rates(c)	1/37(2.7)	0/36(0.0)	0/38(0.0)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7515			
Prevalence method(d)	P = 0.4288			
Combined analysis(d)	P = 0.6817			
Cochran-Armitage test(e)	P = 0.6742			
Fisher Exact test(e)		P = 0.3087	P = 0.1212	P = 0.5000

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	750 ppm	1500 ppm	3000 ppm
SITE : liver TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	3/50(6.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	9.30	5.56	7.89	0.0
Terminal rates(c)	3/37(8.1)	2/36(5.6)	3/38(7.9)	0/43(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9889			
Prevalence method(d)	P = 0.9716			
Combined analysis(d)	P = 0.9979			
Cochran-Armitage test(e)	P = 0.0077**			
Fisher Exact test(e)		P = 0.1589	P = 0.1589	P = 0.0062**
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	7/50(14.0)	4/50(8.0)	0/50(0.0)
Adjusted rates(b)	11.63	17.95	10.53	0.0
Terminal rates(c)	4/37(10.8)	6/36(16.7)	4/38(10.5)	0/43(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9036 ?			
Prevalence method(d)	P = 0.9929			
Combined analysis(d)	P = 0.9965			
Cochran-Armitage test(e)	P = 0.0115*			
Fisher Exact test(e)		P = 0.5000	P = 0.3703	P = 0.0133*
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	3/50(6.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	11.63	5.56	7.89	0.0
Terminal rates(c)	4/37(10.8)	2/36(5.6)	3/38(7.9)	0/43(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9889			
Prevalence method(d)	P = 0.9877			
Combined analysis(d)	P = 0.9992			
Cochran-Armitage test(e)	P = 0.0037**			
Fisher Exact test(e)		P = 0.0999	P = 0.0999	P = 0.0029**

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	750 ppm	1500 ppm	3000 ppm
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	15/50(30.0)	9/50(18.0)	3/50(6.0)
Adjusted rates(b)	24.32	36.11	21.05	6.98
Terminal rates(c)	9/37(24.3)	13/36(36.1)	8/38(21.1)	3/43(7.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8776			
Prevalence method(d)	P = 0.9956			
Combined analysis(d)	P = 0.9978			
Cochran-Armitage test(e)	P = 0.0088**			
Fisher Exact test(e)		P = 0.2472	P = 0.4016	P = 0.0204*
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	3/50(6.0)	4/50(8.0)	1/50(2.0)
Adjusted rates(b)	4.08	8.33	10.00	2.33
Terminal rates(c)	1/37(2.7)	3/36(8.3)	2/38(5.3)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7169			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5834			
Fisher Exact test(e)		P = 0.5000	P = 0.3389	P = 0.5000

(HPT360A)

BAIS3

- (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 O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : FEMALE: (2-YEAR STUDY)

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	500 ppm	1500 ppm	4500 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	18/50(36.0)	17/50(34.0)	9/49(18.4)	9/50(18.0)
Adjusted rates(b)	22.58	29.17	11.11	16.67
Terminal rates(c)	7/31(22.6)	7/24(29.2)	3/27(11.1)	6/36(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9947			
Prevalence method(d)	P = 0.7996			
Combined analysis(d)	P = 0.9934			
Cochran-Armitage test(e)	P = 0.0301*			
Fisher Exact test(e)		P = 0.5000	P = 0.0400*	P = 0.0352*
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	2/50(4.0)	1/49(2.0)	3/50(6.0)
Adjusted rates(b)	12.90	4.17	0.0	8.33
Terminal rates(c)	4/31(12.9)	1/24(4.2)	0/27(0.0)	3/36(8.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6377			
Prevalence method(d)	P = 0.5274			
Combined analysis(d)	P = 0.6162			
Cochran-Armitage test(e)	P = 0.9621			
Fisher Exact test(e)		P = 0.3389	P = 0.1874	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	6/50(12.0)	1/49(2.0)	2/50(4.0)
Adjusted rates(b)	0.0	15.63	3.70	5.00
Terminal rates(c)	0/31(0.0)	3/24(12.5)	1/27(3.7)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5904			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8255			
Fisher Exact test(e)		P = 0.0133*	P = 0.4949	P = 0.2475

STUDY No. : 0348
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	500 ppm	1500 ppm	4500 ppm
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	8/50(16.0)	1/49(2.0)	2/50(4.0)
Adjusted rates(b)	3.23	19.35	3.70	5.00
Terminal rates(c)	1/31(3.2)	4/24(16.7)	1/27(3.7)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5471			
Prevalence method(d)	P = 0.7732			
Combined analysis(d)	P = 0.8283			
Cochran-Armitage test(e)	P = 0.3941			
Fisher Exact test(e)		P = 0.0154*	P = 0.7475	P = 0.5000
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	6/50(12.0)	1/49(2.0)	1/50(2.0)
Adjusted rates(b)	9.68	20.83	3.70	2.78
Terminal rates(c)	3/31(9.7)	5/24(20.8)	1/27(3.7)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8797			
Prevalence method(d)	P = 0.9771			
Combined analysis(d)	P = 0.9910			
Cochran-Armitage test(e)	P = 0.0467*			
Fisher Exact test(e)		P = 0.5000	P = 0.1068	P = 0.1022
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	7/50(14.0)	2/49(4.1)	1/50(2.0)
Adjusted rates(b)	9.68	25.00	3.70	2.78
Terminal rates(c)	3/31(9.7)	6/24(25.0)	1/27(3.7)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8373			
Prevalence method(d)	P = 0.9846			
Combined analysis(d)	P = 0.9927			
Cochran-Armitage test(e)	P = 0.0400*			
Fisher Exact test(e)		P = 0.3798	P = 0.2264	P = 0.1022

STUDY No. : 0348
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	500 ppm	1500 ppm	4500 ppm
SITE : ovary TUMOR : cystadenoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	3/50(6.0)	2/49(4.1)	1/50(2.0)
Adjusted rates(b)	3.13	8.33	5.26	2.78
Terminal rates(c)	0/30(0.0)	2/24(8.3)	1/27(3.7)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5364			
Prevalence method(d)	P = 0.6441			
Combined analysis(d)	P = 0.7253			
Cochran-Armitage test(e)	P = 0.5921			
Fisher Exact test(e)		P = 0.3163	P = 0.5000	P = 0.7576
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	1/50(2.0)	0/50(0.0)	3/47(6.4)	2/50(4.0)
Adjusted rates(b)	2.38	0.0	11.11	5.56
Terminal rates(c)	0/31(0.0)	0/24(0.0)	3/27(11.1)	2/36(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2314			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3781			
Fisher Exact test(e)		P = 0.5000	P = 0.2855	P = 0.5000

(HPT360A)

BAIS3

STUDY No. : 0348
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	500 ppm	1500 ppm	4500 ppm
SITE : uterus				
TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	6/50(12.0)	12/47(25.5)	9/50(18.0)
Adjusted rates(b)	8.11	8.33	17.24	2.78
Terminal rates(c)	2/31(6.5)	2/24(8.3)	4/27(14.8)	1/36(2.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0547			
Prevalence method(d)	P = 0.8465			
Combined analysis(d)	P = 0.2273			
Cochran-Armitage test(e)	P = 0.2999			
Fisher Exact test(e)		P = 0.5000	P = 0.0399*	P = 0.1940

(IHP360A)

BAIS3

(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 P 1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE: ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

Group Name No. of Animals on Study		Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
Organ	Findings				
{Integumentary system/appandage}					
skin/app		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
subcutis		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
{Respiratory system}					
nasal cavit		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	2	0
trachea		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
lung		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	6	4	1
	metastasis:liver tumor	3	4	1	1
	metastasis:epididymis tumor	1	1	0	2
{Hematopoietic system}					
bone marrow		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	3	1	1
	metastasis:liver tumor	1	0	0	1
lymph node		<50>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
spleen		<50>	<50>	<50>	<50>
	leukemic cell infiltration	6	8	7	4
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

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

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

PAGE : 2

Group Name		Control	750 ppm	1500 ppm	3000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Hematopoietic system}					
spleen		<50>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
	metastasis:epididymis tumor	0	0	0	2
{Circulatory system}					
heart		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
{Digestive system}					
tongue		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
salivary gl		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	2	0
	metastasis:liver tumor	1	0	0	0
esophagus		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
stomach		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	2	0
small intes		<50>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
large intes		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	0
liver		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	3	3	1

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

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

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

PAGE : 3

Group Name No. of Animals on Study		Control 50	750 ppm 50	1500 ppm 50	3000 ppm 50
Organ	Findings				
{Digestive system}					
liver		<50>	<50>	<50>	<50>
	metastasis:epididymis tumor	1	1	0	2
pancreas		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	4	1
{Urinary system}					
kidney		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	3	3	0
	metastasis:liver tumor	0	0	0	1
urin bladd	metastasis:epididymis tumor	1	0	0	0
		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
{Endocrine system}					
pituitary		<50>	<50>	<50>	<50>
	metastasis:peripheral nerve tumor	0	0	0	1
thyroid		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	2	0
adrenal		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	3	1	0
{Reproductive system}					
testis		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0

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

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

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

PAGE : 4

Group Name		Control	750 ppm	1500 ppm	3000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Reproductive system}					
epididymis	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
semin ves	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
prostate	leukemic cell infiltration	<50> 0	<50> 1	<50> 1	<50> 0
{Special sense organs/appendage}					
eye	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
{Musculoskeletal system}					
muscle	leukemic cell infiltration	<50> 0	<50> 2	<50> 2	<50> 0
{Body cavities}					
mesenterium	metastasis:liver tumor	<50> 1	<50> 0	<50> 0	<50> 0
< a > a : Number of animals examined at the site b b : Number of animals with lesion					
(JPT150)					BAIS3

APPENDIX P 2

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
{Integumentary system/appandage}						
skin/app	leukemic cell infiltration		<50> 0	<50> 2	<49> 2	<50> 1
subcutis	leukemic cell infiltration		<50> 1	<50> 1	<49> 0	<50> 0
	metastasis:uterus tumor		0	0	0	1
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<50> 0	<50> 1	<49> 1	<50> 0
	metastasis:liver tumor		0	0	1	0
trachea	leukemic cell infiltration		<50> 3	<50> 1	<49> 1	<50> 0
lung	leukemic cell infiltration		<50> 16	<50> 12	<49> 7	<50> 6
	metastasis:liver tumor		1	3	1	0
	metastasis:uterus tumor		2	2	6	4
	metastasis:subcutis tumor		0	0	0	1
	metastasis:mammary gland tumor		1	0	0	0
	metastasis:thymus tumor		0	0	1	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 2	<50> 0	<49> 1	<50> 1

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

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

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
(Hematopoietic system)						
bone marrow			<50>	<50>	<49>	<50>
	metastasis:uterus tumor		1	1	1	1
	metastasis:lympho node tumor		0	1	0	0
lymph node			<50>	<50>	<49>	<50>
	metastasis:liver tumor		0	1	1	0
	metastasis:uterus tumor		0	0	2	0
	metastasis:stomach tumor		0	0	0	1
thymus			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	0	0	1
spleen			<50>	<50>	<49>	<50>
	leukemic cell infiltration		13	12	7	7
	metastasis:uterus tumor		0	1	1	0
	metastasis:stomach tumor		0	0	0	1
(Circulatory system)						
heart			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	6	3	2
	metastasis:liver tumor		0	1	1	0
(Digestive system)						
tongue			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	1	3	1

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

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

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

PAGE : 7

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

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

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study	Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
{Urinary system}						
urin bladd			<50>	<50>	<49>	<50>
	leukemic cell infiltration		5	3	5	2
	metastasis:uterus tumor		0	0	2	0
{Endocrine system}						
pituitary			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	2	0	0
thyroid			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	0	2	0
adrenal			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	4	2	2
	metastasis:lympho node tumor		0	1	0	0
{Reproductive system}						
ovary			<50>	<50>	<49>	<50>
	leukemic cell infiltration		10	7	5	3
	metastasis:liver tumor		1	0	1	0
	metastasis:uterus tumor		3	4	6	6
uterus			<50>	<50>	<49>	<50>
	leukemic cell infiltration		3	5	4	2
vagina			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	0	2	0
	metastasis:uterus tumor		0	1	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

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

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

PAGE : 9

Group Name No. of Animals on Study		Control 50	500 ppm 50	1500 ppm 49	4500 ppm 50
Organ	Findings				
{Reproductive system}					
mammary gl	leukemic cell infiltration	<50> 0	<50> 1	<49> 0	<50> 0
{Nervous system}					
brain	leukemic cell infiltration	<50> 2	<50> 1	<49> 0	<50> 0
	metastasis:pituitary tumor	0	1	1	0
spinal cord	leukemic cell infiltration	<50> 0	<50> 1	<49> 0	<50> 0
{Special sense organs/appendage}					
eye	leukemic cell infiltration	<50> 0	<50> 1	<49> 1	<50> 0
Harder gl	leukemic cell infiltration	<50> 0	<50> 2	<49> 1	<50> 1
{Musculoskeletal system}					
muscle	leukemic cell infiltration	<50> 1	<50> 0	<49> 3	<50> 2
	metastasis:uterus tumor	0	0	1	0
	metastasis:subcutis tumor	0	1	0	0
{Body cavities}					
mediastinum	leukemic cell infiltration	<50> 3	<50> 2	<49> 2	<50> 1

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

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

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

PAGE : 10

		Group Name	Control	500 ppm	1500 ppm	4500 ppm
		No. of Animals on Study	50	50	49	50
Organ	Findings					
{Body cavities}						
peritoneum			<50>	<50>	<49>	<50>
	leukemic cell infiltration		1	2	0	0
	metastasis:subcutis tumor		0	0	0	1
adipose			<50>	<50>	<49>	<50>
	metastasis:stomach tumor		0	0	0	1
< a >		a : Number of animals examined at the site				
b		b : Number of animals with lesion				

{JPT150}

BAIS3

APPENDIX P 3

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

Group Name No. of Animals on Study		Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
Organ	Findings				
{Integumentary system/appandage}					
skin/app		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	0	1	0
subcutis		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	1	0	0
{Respiratory system}					
nasal cavit		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	1	2	0
trachea		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	0	1	0
lung		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	5	4	1
	metastasis:liver tumor	2	1	0	1
	metastasis:epididymis tumor	1	1	0	2
{Hematopoietic system}					
bone marrow		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	2	1	1
	metastasis:liver tumor	1	0	0	1
spleen		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	2	4	4	1
	metastasis:liver tumor	1	0	0	0
	metastasis:epididymis tumor	0	0	0	2

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

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

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

PAGE : 2

Group Name No. of Animals on Study		Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
Organ	Findings				
{Circulatory system}					
heart	leukemic cell infiltration	<13> 0	<14> 0	<12> 1	< 7> 0
{Digestive system}					
tongue	leukemic cell infiltration	<13> 0	<14> 0	<12> 1	< 7> 0
salivary gl	leukemic cell infiltration	<13> 0	<14> 0	<12> 2	< 7> 0
esophagus	leukemic cell infiltration	<13> 0	<14> 0	<12> 1	< 7> 0
stomach	leukemic cell infiltration	<13> 0	<14> 1	<12> 2	< 7> 0
large intes	leukemic cell infiltration	<13> 1	<14> 0	<12> 0	< 7> 0
liver	leukemic cell infiltration	<13> 0	<14> 3	<12> 3	< 7> 1
	metastasis:epididymis tumor	1	1	0	2
pancreas	leukemic cell infiltration	<13> 0	<14> 0	<12> 3	< 7> 0
{Urinary system}					
kidney	leukemic cell infiltration	<13> 0	<14> 2	<12> 2	< 7> 0
	metastasis:liver tumor	0	0	0	1

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

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

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

PAGE : 3

Group Name No. of Animals on Study		Control 13	750 ppm 14	1500 ppm 12	3000 ppm 7
Organ	Findings				
{Urinary system}					
kidney		<13>	<14>	<12>	< 7>
	metastasis:epididymis tumor	1	0	0	0
urin bladd		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	0	1	0
{Endocrine system}					
thyroid		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	0	2	0
adrenal		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	2	1	0
{Reproductive system}					
testis		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	1	0	0
epididymis		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	0	1	0
semin ves		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	1	0	0	0
prostate		<13>	<14>	<12>	< 7>
	leukemic cell infiltration	0	1	1	0
{Special sense organs/appendage}					
eye		<13>	<14>	<12>	< 7>
	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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

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

(JPT150)

BAIS3

APPENDIX P 4

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 19	500 ppm 26	1500 ppm 22	4500 ppm 14
{Integumentary system/appandage}						
skin/app			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	2	2	1
subcutis			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	0	0
	metastasis:uterus tumor		0	0	0	1
{Respiratory system}						
nasal cavit			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	1	0
	metastasis:liver tumor		0	0	1	0
trachea			<19>	<26>	<22>	<14>
	leukemic cell infiltration		2	1	1	0
lung			<19>	<26>	<22>	<14>
	leukemic cell infiltration		9	11	6	3
	metastasis:liver tumor		0	3	1	0
	metastasis:uterus tumor		2	2	6	4
	metastasis:subcutis tumor		0	0	0	1
	metastasis:mammary gland tumor		1	0	0	0
{Hematopoietic system}						
bone marrow			<19>	<26>	<22>	<14>
	leukemic cell infiltration		1	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

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

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

PAGE : 6

Group Name No. of Animals on Study		Control 19	500 ppm 26	1500 ppm 22	4500 ppm 14
Organ	Findings				
(Hematopoietic system)					
bone marrow		<19>	<26>	<22>	<14>
	metastasis:uterus tumor	1	1	1	1
lymph node		<19>	<26>	<22>	<14>
	metastasis:liver tumor	0	1	1	0
	metastasis:uterus tumor	0	0	2	0
spleen		<19>	<26>	<22>	<14>
	leukemic cell infiltration	8	6	5	3
	metastasis:uterus tumor	0	1	1	0
(Circulatory system)					
heart		<19>	<26>	<22>	<14>
	leukemic cell infiltration	1	6	3	1
	metastasis:liver tumor	0	1	1	0
(Digestive system)					
tongue		<19>	<26>	<22>	<14>
	leukemic cell infiltration	0	1	3	1
salivary gl		<19>	<26>	<22>	<14>
	leukemic cell infiltration	3	5	3	2
stomach		<19>	<26>	<22>	<14>
	leukemic cell infiltration	6	3	4	3
	metastasis:uterus tumor	0	0	2	2
	metastasis:subcutis tumor	0	0	0	1

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

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

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

PAGE : 7

		Group Name	Control	500 ppm	1500 ppm	4500 ppm
		No. of Animals on Study	19	26	22	14
Organ	Findings					
{Digestive system}						
small intes			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	0	1	0
liver			<19>	<26>	<22>	<14>
	leukemic cell infiltration		11	10	5	3
	metastasis:uterus tumor		2	4	8	8
	metastasis:stomach tumor		0	1	0	0
pancreas			<19>	<26>	<22>	<14>
	leukemic cell infiltration		1	2	0	0
{Urinary system}						
kidney			<19>	<26>	<22>	<14>
	leukemic cell infiltration		7	5	4	2
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		1	1	4	3
urin bladd			<19>	<26>	<22>	<14>
	leukemic cell infiltration		4	2	4	2
	metastasis:uterus tumor		0	0	2	0
{Endocrine system}						
pituitary			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	0	0
thyroid			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	0	2	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

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

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

PAGE : 8

		Group Name	Control	500 ppm	1500 ppm	4500 ppm
		No. of Animals on Study	19	26	22	14
Organ	Findings					
{Endocrine system}						
adrenal			<19>	<26>	<22>	<14>
	leukemic cell infiltration		1	4	2	2
{Reproductive system}						
ovary			<19>	<26>	<22>	<14>
	leukemic cell infiltration		9	7	4	3
	metastasis:liver tumor		1	0	1	0
	metastasis:uterus tumor		2	4	6	6
uterus			<19>	<26>	<22>	<14>
	leukemic cell infiltration		3	4	4	1
vagina			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	0	2	0
	metastasis:uterus tumor		0	1	1	0
mammary gl			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	0	0
{Nervous system}						
brain			<19>	<26>	<22>	<14>
	leukemic cell infiltration		2	1	0	0
	metastasis:pituitary tumor		0	0	1	0
spinal cord			<19>	<26>	<22>	<14>
	leukemic cell infiltration		0	1	0	0
{Special sense organs/appendage}						
eye			<19>	<26>	<22>	<14>
	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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 9

Group Name No. of Animals on Study		Control 19	500 ppm 26	1500 ppm 22	4500 ppm 14
Organ	Findings				
{Special sense organs/appendage}					
Harder gl		<19>	<26>	<22>	<14>
	leukemic cell infiltration	0	2	1	0
{Musculoskeletal system}					
muscle		<19>	<26>	<22>	<14>
	leukemic cell infiltration	1	0	3	2
	metastasis:uterus tumor	0	0	1	0
{Body cavities}					
mediastinum		<19>	<26>	<22>	<14>
	leukemic cell infiltration	1	2	2	1
peritoneum		<19>	<26>	<22>	<14>
	leukemic cell infiltration	1	2	0	0
	metastasis:subcutis tumor	0	0	0	1
< a >		a : Number of animals examined at the site			
b		b : Number of animals with lesion			

(JPT150)

BAIS3

APPENDIX P 5

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 37	750 ppm 36	1500 ppm 38	3000 ppm 43
{Respiratory system}						
lung			<37>	<36>	<38>	<43>
	leukemic cell infiltration		2	1	0	0
	metastasis:liver tumor		1	3	1	0
{Hematopoietic system}						
bone marrow			<37>	<36>	<38>	<43>
	leukemic cell infiltration		0	1	0	0
lymph node			<37>	<36>	<38>	<43>
	metastasis:liver tumor		1	0	0	0
spleen			<37>	<36>	<38>	<43>
	leukemic cell infiltration		4	4	3	3
{Digestive system}						
salivary gl			<37>	<36>	<38>	<43>
	metastasis:liver tumor		1	0	0	0
small intes			<37>	<36>	<38>	<43>
	metastasis:liver tumor		1	0	0	0
pancreas			<37>	<36>	<38>	<43>
	leukemic cell infiltration		0	0	1	1
{Urinary system}						
kidney			<37>	<36>	<38>	<43>
	leukemic cell infiltration		0	1	1	0
{Endocrine system}						
pituitary			<37>	<36>	<38>	<43>
	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. : 0348
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

		Group Name	Control	750 ppm	1500 ppm	3000 ppm
		No. of Animals on Study	37	36	38	43
Organ	Findings					
{Endocrine system}						
adrenal			<37>	<36>	<38>	<43>
	leukemic cell infiltration		0	1	0	0
{Body cavities}						
mesenterium			<37>	<36>	<38>	<43>
	metastasis:liver tumor		1	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS3

APPENDIX P 6

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: SACRIFICED ANIMALS

(2-YEAR STUDY)

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

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study	Control 31	500 ppm 24	1500 ppm 27	4500 ppm 36
(Integumentary system/appandage)						
subcutis			<31>	<24>	<27>	<36>
	leukemic cell infiltration		1	0	0	0
(Respiratory system)						
trachea			<31>	<24>	<27>	<36>
	leukemic cell infiltration		1	0	0	0
lung			<31>	<24>	<27>	<36>
	leukemic cell infiltration		7	1	1	3
	metastasis:liver tumor		1	0	0	0
	metastasis:thymus tumor		0	0	1	0
(Hematopoietic system)						
bone marrow			<31>	<24>	<27>	<36>
	leukemic cell infiltration		1	0	0	1
	metastasis:lympho node tumor		0	1	0	0
lymph node			<31>	<24>	<27>	<36>
	metastasis:stomach tumor		0	0	0	1
thymus			<31>	<24>	<27>	<36>
	leukemic cell infiltration		0	0	0	1
spleen			<31>	<24>	<27>	<36>
	leukemic cell infiltration		5	6	2	4
	metastasis:stomach tumor		0	0	0	1
(Circulatory system)						
heart			<31>	<24>	<27>	<36>
	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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Group Name		Control	500 ppm	1500 ppm	4500 ppm
No. of Animals on Study		31	24	27	36
Organ	Findings				
{Digestive system}					
tongue		<31>	<24>	<27>	<36>
	leukemic cell infiltration	1	0	0	0
salivary gl		<31>	<24>	<27>	<36>
	leukemic cell infiltration	3	1	2	2
stomach		<31>	<24>	<27>	<36>
	leukemic cell infiltration	2	0	1	1
small intes		<31>	<24>	<27>	<36>
	leukemic cell infiltration	1	1	0	1
	metastasis:uterus tumor	0	0	0	1
liver		<31>	<24>	<27>	<36>
	leukemic cell infiltration	2	1	3	2
	metastasis:uterus tumor	1	0	2	0
	metastasis:stomach tumor	0	0	0	1
	metastasis:lympho node tumor	0	1	0	0
pancreas		<31>	<24>	<27>	<36>
	leukemic cell infiltration	2	0	1	1
{Urinary system}					
kidney		<31>	<24>	<27>	<36>
	leukemic cell infiltration	1	4	1	3
	metastasis:uterus tumor	1	0	0	0
urin bladd		<31>	<24>	<27>	<36>
	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. : 0348
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Group Name No. of Animals on Study		Control 31	500 ppm 24	1500 ppm 27	4500 ppm 36
Organ	Findings				
{Endocrine system}					
pituitary		<31>	<24>	<27>	<36>
	leukemic cell infiltration	0	1	0	0
adrenal		<31>	<24>	<27>	<36>
	metastasis:lympho node tumor	0	1	0	0
{Reproductive system}					
ovary		<31>	<24>	<27>	<36>
	leukemic cell infiltration	1	0	1	0
uterus		<31>	<24>	<27>	<36>
	metastasis:uterus tumor	1	0	0	0
vagina		<31>	<24>	<27>	<36>
	leukemic cell infiltration	1	0	0	0
{Nervous system}					
brain		<31>	<24>	<27>	<36>
	metastasis:pituitary tumor	0	1	0	0
{Special sense organs/appendage}					
Harder gl		<31>	<24>	<27>	<36>
	leukemic cell infiltration	0	0	0	1
{Musculoskeletal system}					
muscle		<31>	<24>	<27>	<36>
	metastasis:subcutis tumor	0	1	0	0

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

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

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

PAGE : 6

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

APPENDIX Q 1

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

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

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

A. Lot No. : WTP4588

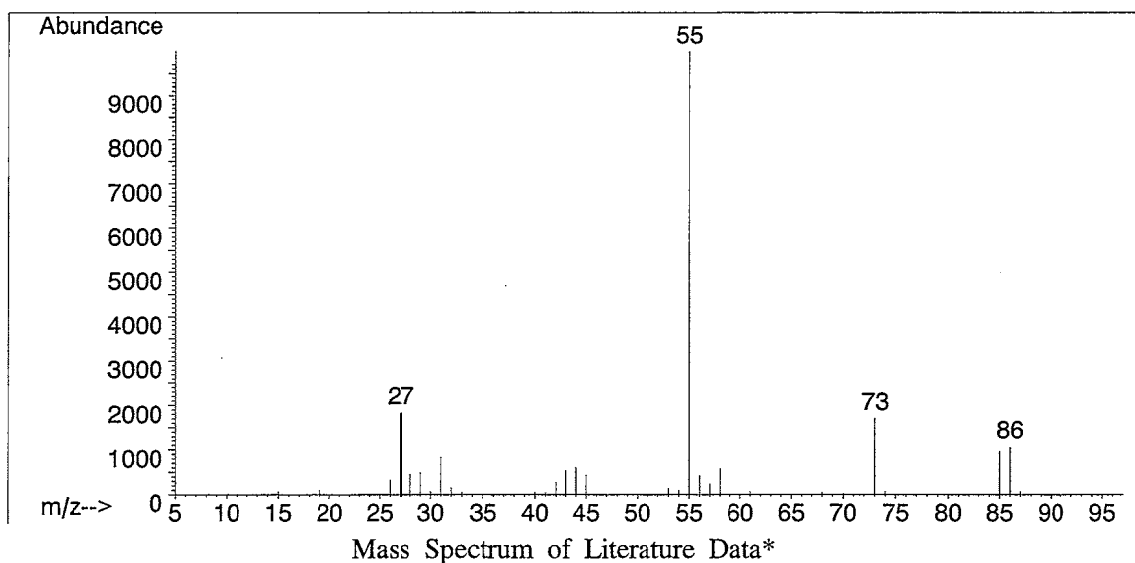
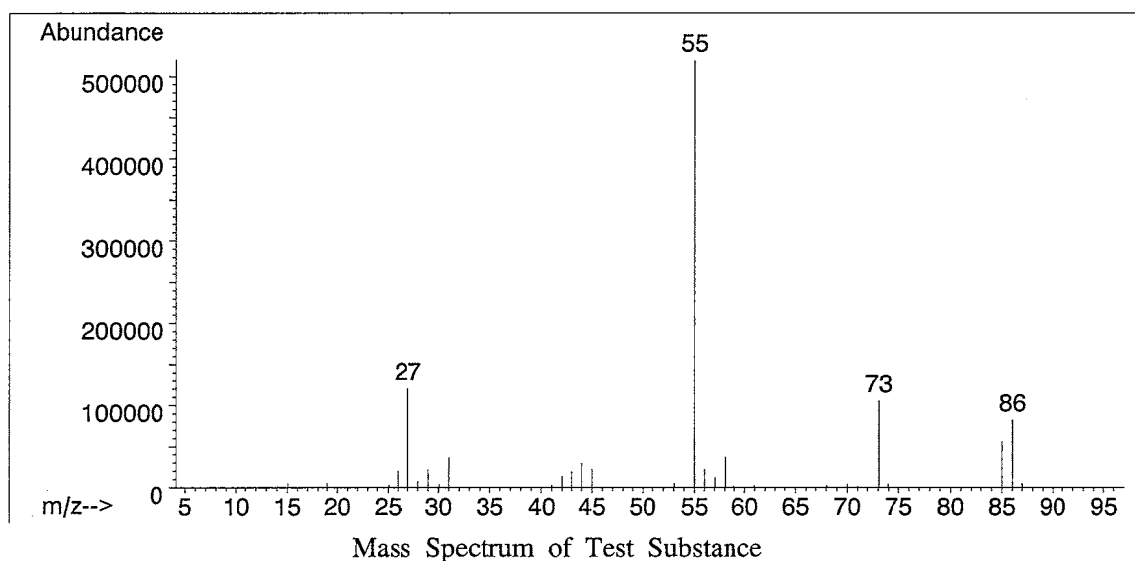
1. Spectral Data

Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



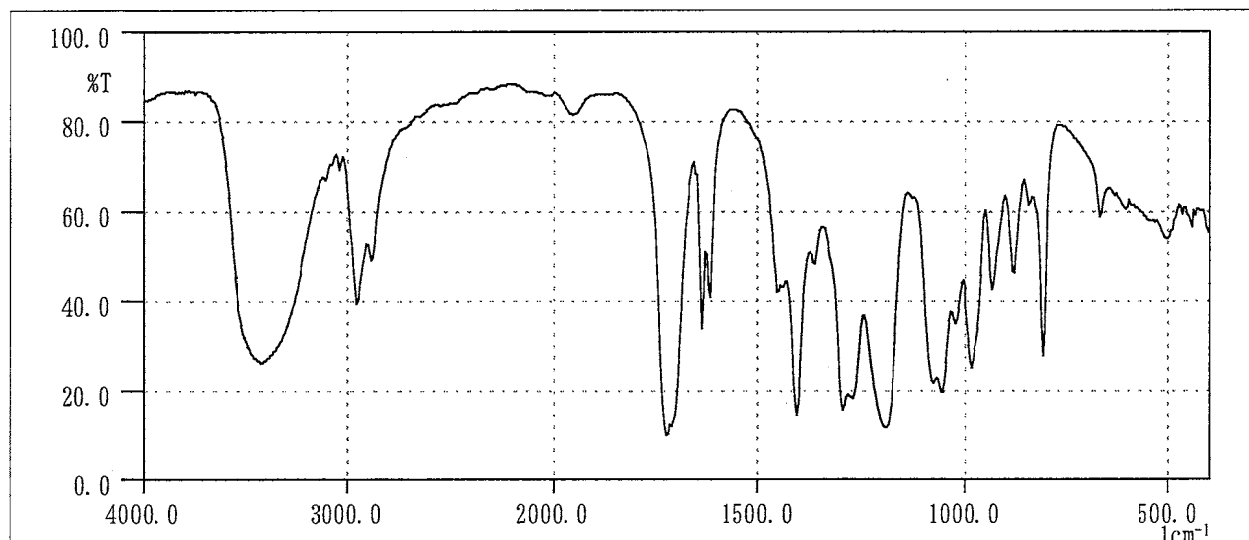
Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.
John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1} 

Infrared Spectrum of Test Substance

Determined ValuesWave Number (cm^{-1})

650~680

770~850

850~910

910~950

950~1010

1010~1140

1140~1250

1250~1350

1350~1550

1580~1660

1660~1850

1920~2000

2750~3020

3060~3700

Literature Values*Wave Number (cm^{-1})

650~680

770~850

850~910

910~950

950~1010

1010~1140

1140~1250

1250~1350

1350~1550

1580~1660

1660~1850

1920~2000

2750~3020

3060~3700

Results: The infrared spectrum was consistent with literature spectrum.

(*Performed by Wako Pure Chemical Industries, Ltd.)

2. Impurity

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : FFAP (0.53 mm ϕ \times 30 m)
Column Temperature : 180 °C
Flow Rate : 3 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

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

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

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

B. Lot No. : WTH5799

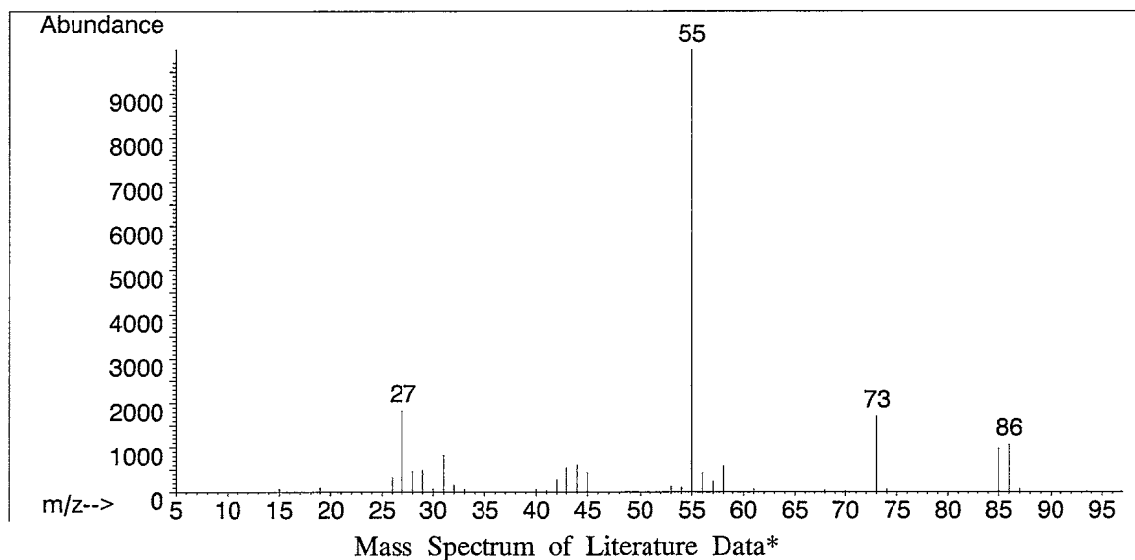
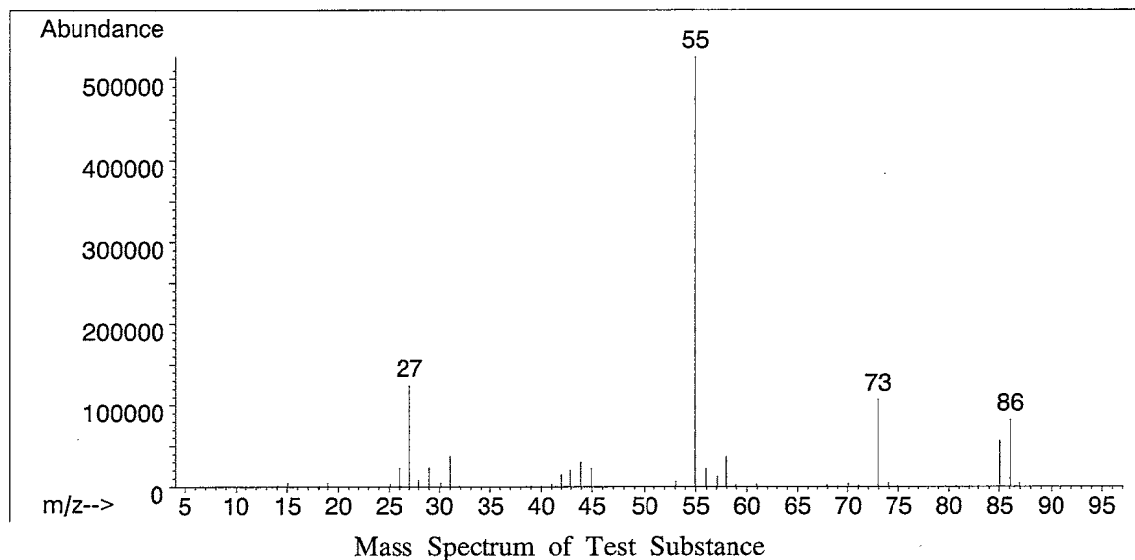
1. Spectral Data

Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



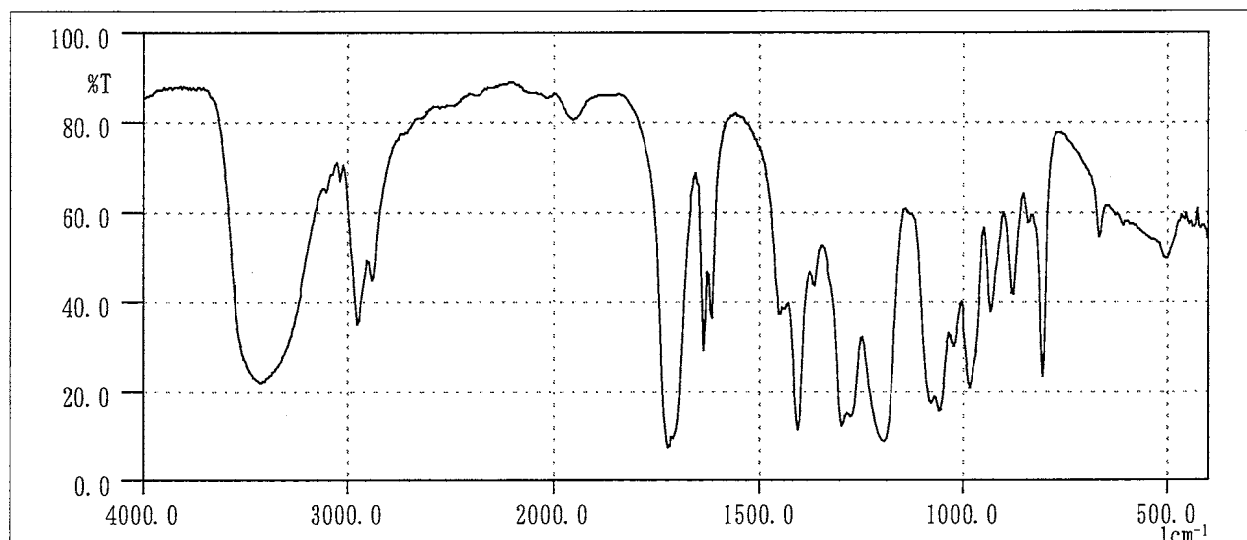
Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.
John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1} 

Infrared Spectrum of Test Substance

Determined ValuesWave Number (cm^{-1})

650~680

770~850

850~910

910~950

950~1010

1010~1140

1140~1250

1250~1350

1350~1550

1580~1660

1660~1850

1920~2000

2750~3020

3060~3700

Literature Values*Wave Number (cm^{-1})

650~680

770~850

850~910

910~950

950~1010

1010~1140

1140~1250

1250~1350

1350~1550

1580~1660

1660~1850

1920~2000

2750~3020

3060~3700

Results: The infrared spectrum was consistent with literature spectrum.

(*Performed by Wako Pure Chemical Industries, Ltd.)

2. Impurity

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : FFAP (0.53 mm ϕ \times 30 m)
Column Temperature : 180 °C
Flow Rate : 3 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

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

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

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

C. Lot No. : CKQ4839

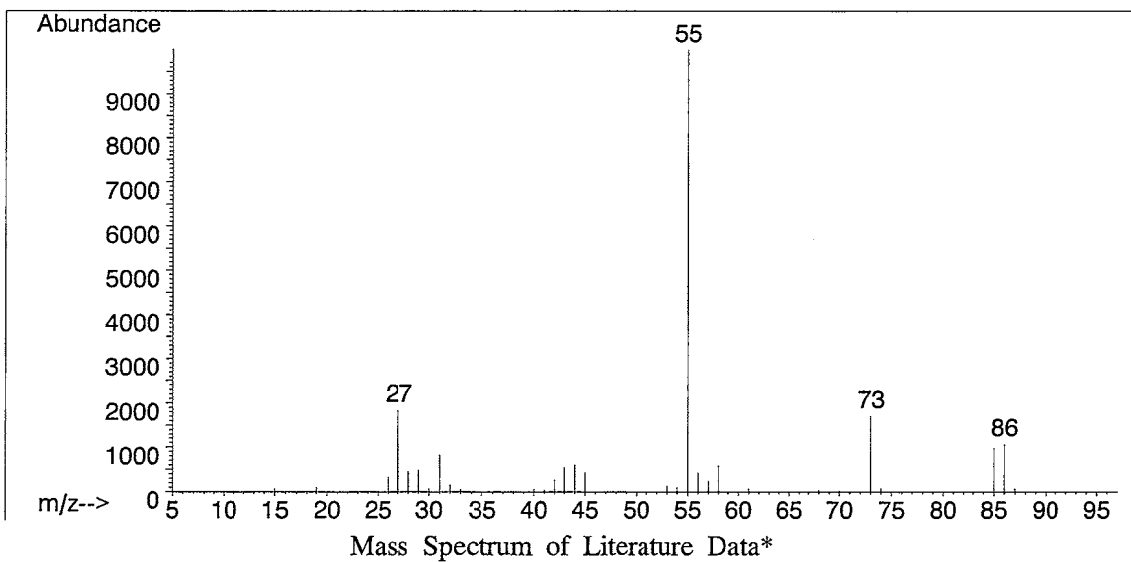
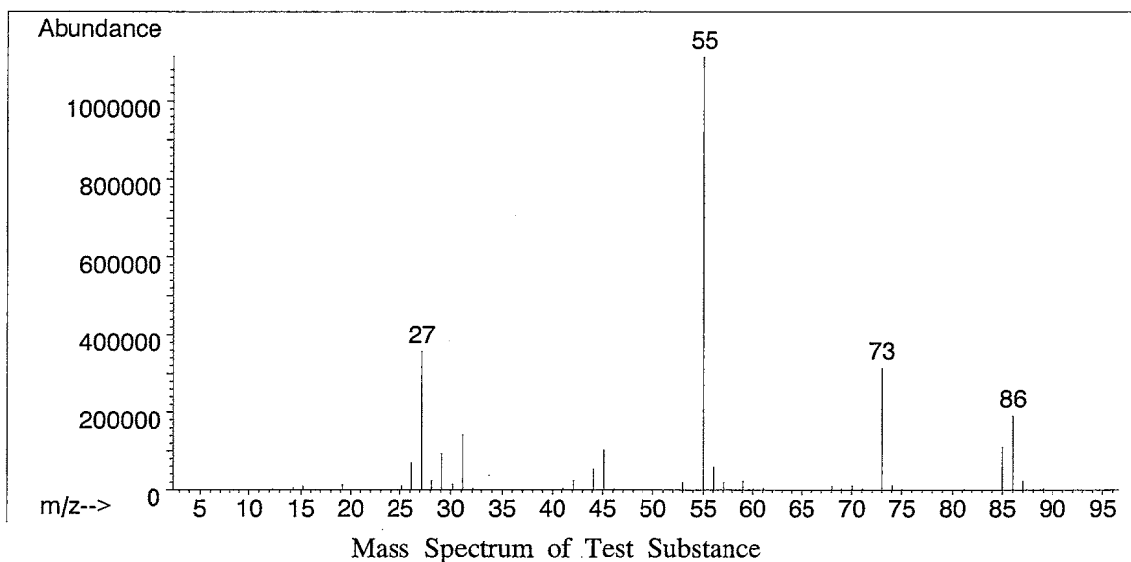
1. Spectral Data

Mass Spectrometry

Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



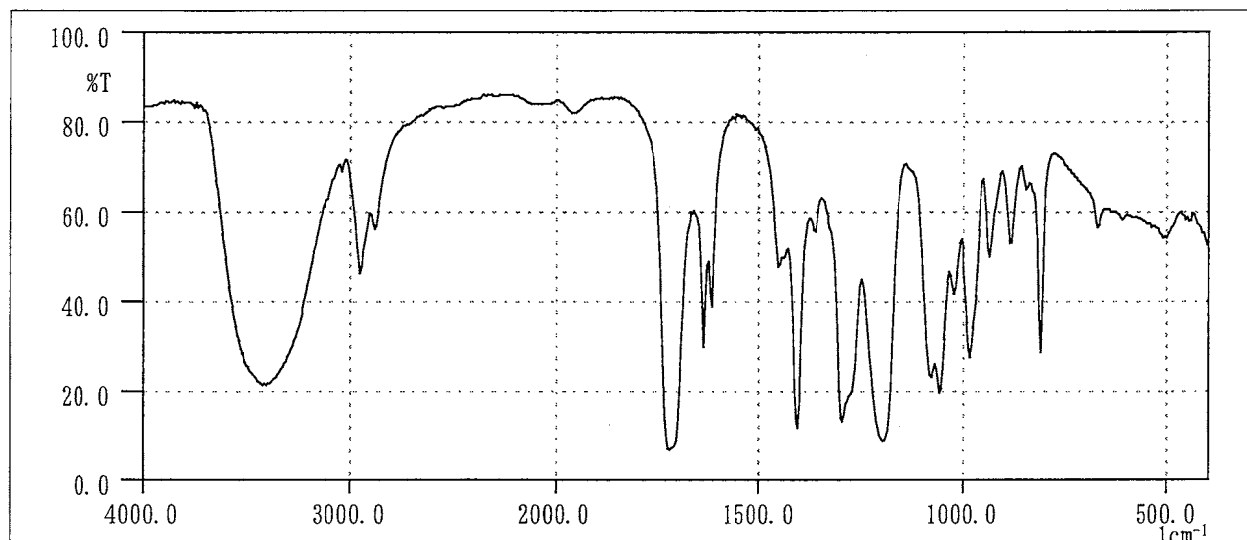
Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.
John Wiley and Sons, Inc. (U.S.), Entry Number 12762)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1} 

Infrared Spectrum of Test Substance

<u>Determined Values</u>	<u>Literature Values</u> [*]
Wave Number (cm^{-1})	Wave Number (cm^{-1})
650~ 680	650~ 680
770~ 850	770~ 850
850~ 910	850~ 910
910~ 950	910~ 950
950~1010	950~1010
1010~1140	1010~1140
1140~1250	1140~1250
1250~1350	1250~1350
1350~1550	1350~1550
1580~1660	1580~1660
1660~1850	1660~1850
1920~2000	1920~2000
2750~3020	2750~3020
3060~3700	3060~3700

Results: The infrared spectrum was consistent with literature spectrum.

(*Performed by Wako Pure Chemical Industries, Ltd.)

2. Impurity

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : FFAP (0.53 mm ϕ \times 30 m)
Column Temperature : 180 °C
Flow Rate : 3 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

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

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

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

APPENDIX Q 2

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

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

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

A. Lot No. : WTP4588

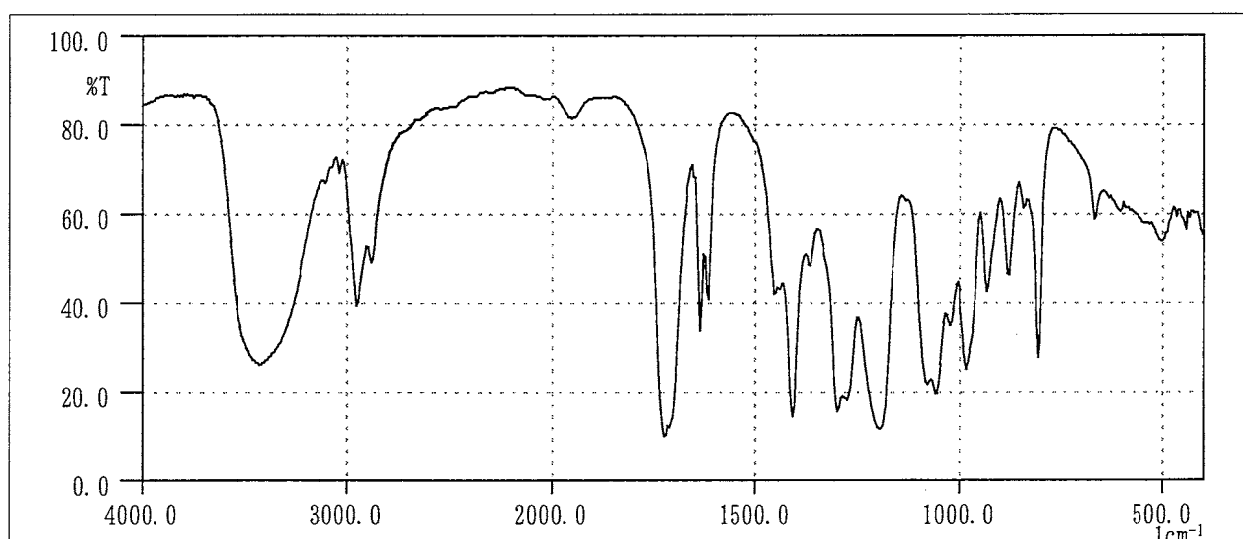
1. Sample : This lot was used from 1997.12.2 to 1998.3.17. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

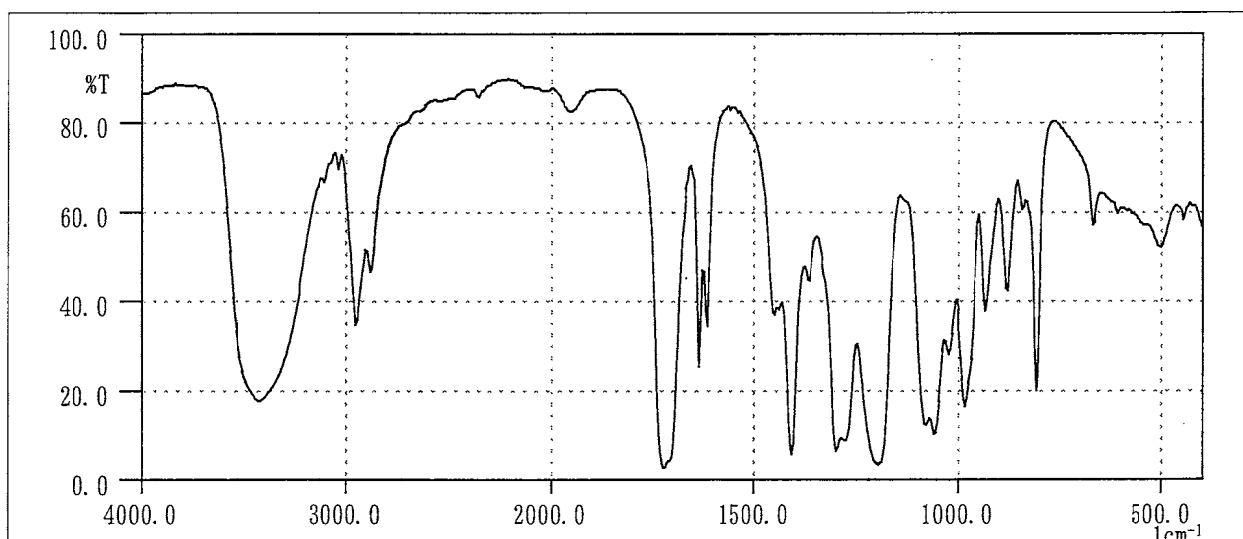
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance (date analyzed : 1997.10.27)



Infrared Spectrum of Test Substance (date analyzed : 1998.03.18)

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

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ \times 30 m)

Column Temperature : 180 °C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

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

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

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

B. Lot No. : WTH5799

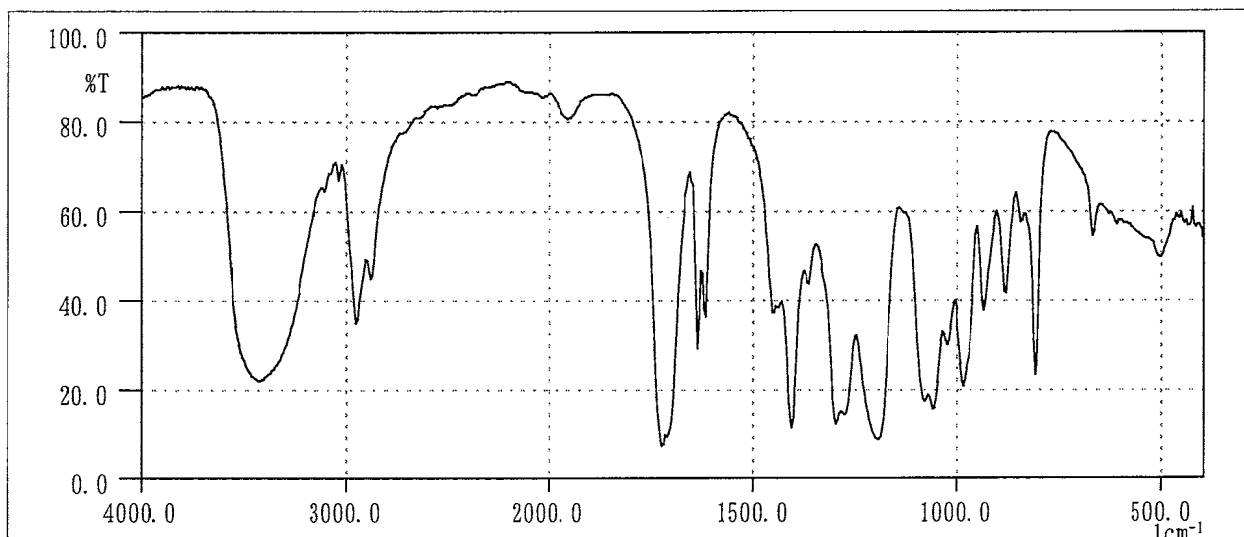
1. Sample : This lot was used from 1998.3.17 to 1999.9.14. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

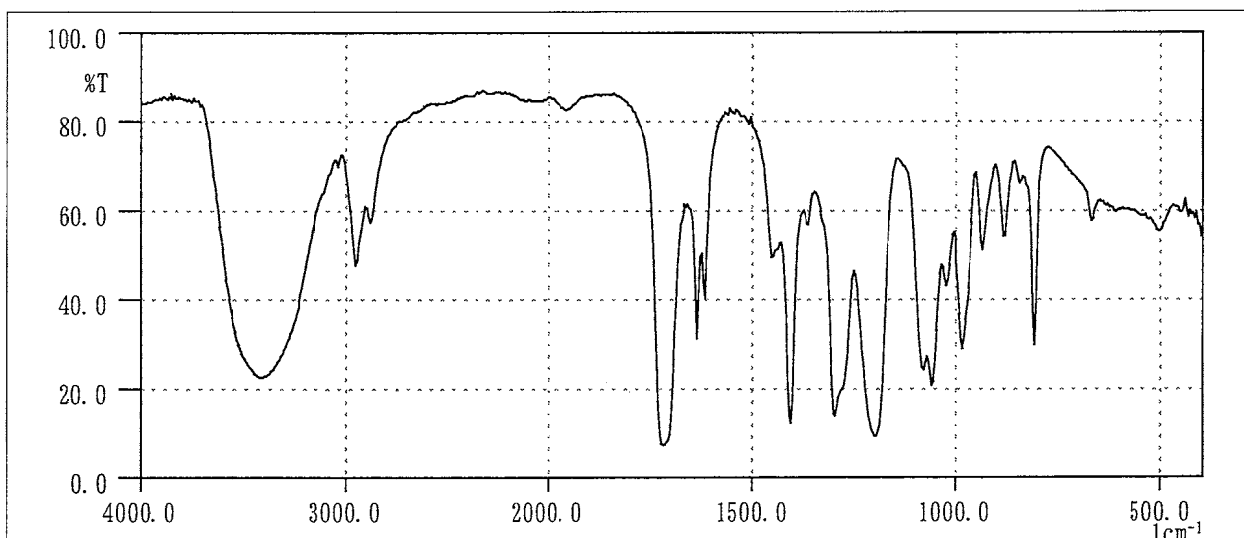
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance (date analyzed : 1997.11.05)



Infrared Spectrum of Test Substance (date analyzed : 1999.09.17)

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

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : FFAP (0.53 mm ϕ \times 30 m)
Column Temperature : 180 °C
Flow Rate : 3 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

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

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

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

C. Lot No. : CKQ4839

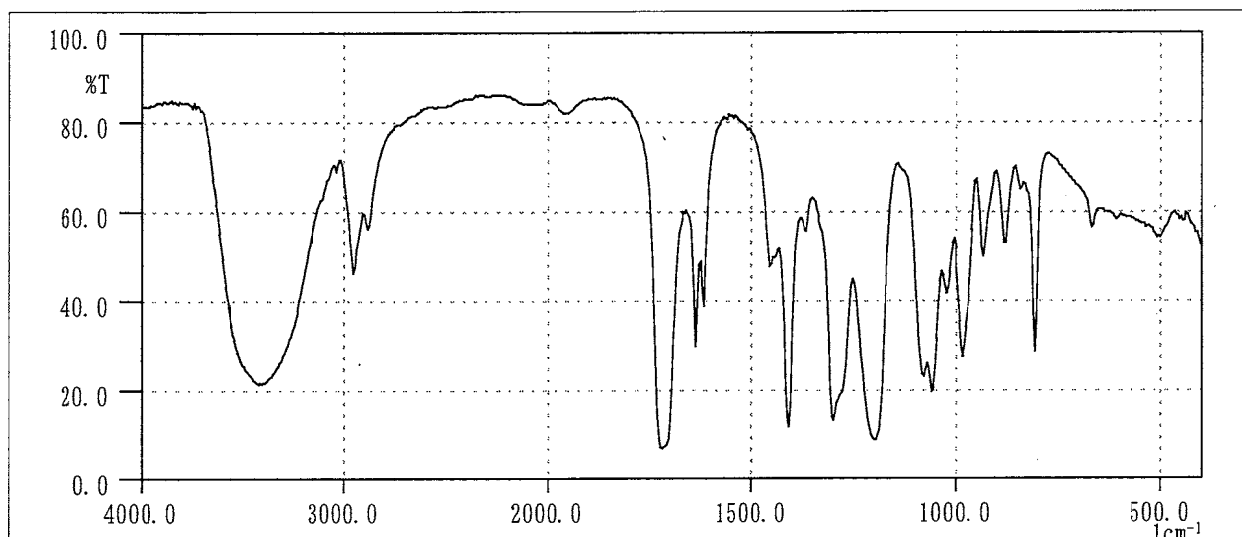
1. Sample : This lot was used from 1999.9.14 to 1999.12.7. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

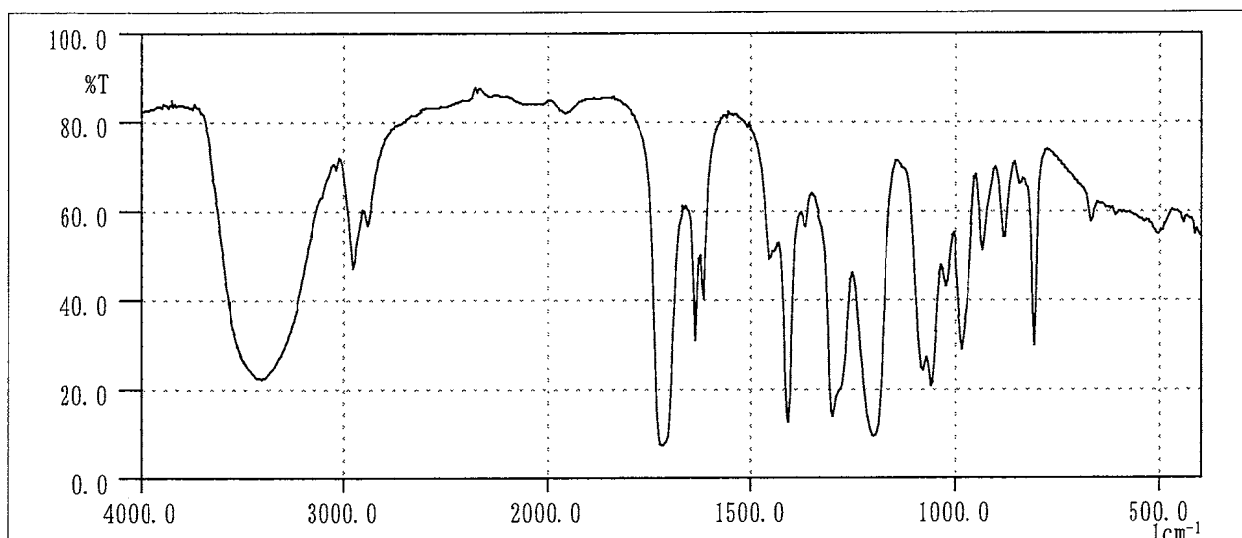
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance (date analyzed : 1999.09.09)



Infrared Spectrum of Test Substance (date analyzed : 1999.12.10)

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

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : FFAP (0.53 mm ϕ \times 30 m)
Column Temperature : 180 °C
Flow Rate : 3 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

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

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

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

APPENDIX Q 3

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

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

(Male)

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

^a ppm

^b %

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ \times 30 m)

Column Temperature : 180 °C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

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

(Female)

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

^a ppm

^b %

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ \times 30 m)

Column Temperature : 180 °C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX Q 4

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

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

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

^a ppm

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

^c Animal room samples

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : FFAP (0.53 mm ϕ \times 30 m)

Column Temperature : 180 °C

Flow Rate : 3 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX R 1

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

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

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

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

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

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

4) Ames reagent strips for urinalysis (Uro-Labstix : Bayer Corporation)

APPENDIX R 2

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

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

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