

N,N-ジメチルホルムアミドのマウスを用いた
吸入によるがん原性試験報告書

試験番号：0297

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(A1～Q2)

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APPENDIX A 1

CLINICAL OBSERVATION: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
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													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
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													
		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	1	1	1	1	1	1	2	2
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0

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Clinical sign	Group Name	Administration Week-day													
		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	2	2	3	4	4	4	4	4	4	4	4	5	5
	200 ppm	1	2	2	2	2	2	2	3	3	3	3	3	3	3
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	800 ppm	2	2	2	2	2	2	2	2	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	1	1	1	1	1	1	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	6	6	6	6	6	6	7	7	7	7	7	7	7	8
	200 ppm	3	3	3	4	4	4	4	4	4	5	5	7	9	9
	400 ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	4
	800 ppm	3	3	4	4	4	4	4	5	5	5	5	5	5	5
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	1	2	2	2	2	2	2	2	2	2	2	2
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1
DEATH	Control	9	9	11	11	12	12	12
	200 ppm	9	12	13	13	13	13	13
	400 ppm	4	7	9	9	10	10	10
	800 ppm	5	5	5	5	5	5	6
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1
	200 ppm	2	2	2	4	4	4	4
	400 ppm	1	1	1	1	1	1	2
	800 ppm	1	2	2	4	4	4	4
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	1	0	0	0
	400 ppm	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1
SOILED	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	1	0	1	1	0
FROG BELLY	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	1	0	0	0	0	0	0
	800 ppm	0	0	0	0	1	1	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0
	200 ppm	0	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1

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Clinical sign	Group Name	Administration Week-day													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	400 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	800 ppm	1	1	2	2	3	3	3	3	2	3	3	3	2	2
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	800 ppm	0	0	0	1	1	1	1	1	1	2	2	2	2	3
INTERNAL MASS	Control	2	2	2	1	2	2	2	2	2	2	2	2	1	2
	200 ppm	1	1	2	2	3	3	3	2	2	2	1	1	1	3
	400 ppm	0	0	0	0	0	1	1	1	2	2	2	1	2	5
	800 ppm	3	3	3	3	3	3	3	4	4	4	5	5	7	14
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	1	1	0	2	2	2	2	2	1	1	1
	400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	800 ppm	3	3	2	2	2	2	2	2	2	3	3	3	4	4
INTERNAL MASS	Control	1	1	2	2	2	2	2	1	1	2	2	2	2	3
	200 ppm	3	4	4	4	5	5	4	4	5	7	8	7	5	5
	400 ppm	7	6	7	8	11	9	9	10	10	12	17	19	19	20
	800 ppm	13	14	13	13	13	16	17	22	25	27	30	30	30	32
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
M.PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0
	200 ppm	3	2	2	2	2	2	2
	400 ppm	1	1	1	1	1	1	1
	800 ppm	2	1	1	1	1	1	1
EYE OPACITY	Control	0	0	0	0	0	0	0
	200 ppm	2	1	1	1	1	1	1
	400 ppm	1	1	1	1	1	1	1
	800 ppm	1	0	0	0	0	0	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	1	0	0	0	0	0	1
EXTERNAL MASS	Control	0	0	0	0	0	0	1
	200 ppm	1	1	1	1	1	1	1
	400 ppm	1	0	0	0	0	0	0
	800 ppm	4	3	3	3	3	3	3
INTERNAL MASS	Control	2	3	3	2	2	2	3
	200 ppm	6	5	6	6	7	7	7
	400 ppm	21	20	21	26	26	28	28
	800 ppm	32	32	32	34	36	36	36
M.NOSE	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1
M.EYE	Control	0	0	0	0	0	0	0
	200 ppm	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	2	1	1	1	1	1	1
M.PERI EAR	Control	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0

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Clinical sign	Group Name	Administration Week-day													
		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	800 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1	1	1	1	1	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	800 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
	200 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	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
		1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.INTERSCAPULUM	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1
M.POSTERIOR DORSUM	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.HINDLIMB	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.GENITALIA	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	1	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1
EROSION	Control	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1

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Clinical sign	Group Name	Administration Week-day													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

(HAN190)

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Clinical sign	Group Name	Administration Week-day													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0297
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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0297
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													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day													
		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0

(HAN190)

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STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day													
		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	200 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

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STUDY NO. : 0297
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
 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
		1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	1	1	2	2	1	1	1
	800 ppm	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	1	0	0	0
	400 ppm	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	1	0	0	0
	400 ppm	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	1	0	0	0
	400 ppm	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0

(HAN190)

BAIS3

APPENDIX A 2

CLINICAL OBSERVATION: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
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													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
MORIBUND SACRIFICE	Control	1	2	2	2	2	2	2	2	2	2	2	2	2	2
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	1	1	1	1	1	2	2	2	2	2
	200 ppm	0	0	0	0	0	0	2	2	2	3	3	3	3	3
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	2	2	3	3	4	4	4	4	4	4	4	6	6
	200 ppm	3	3	4	4	4	4	4	5	5	6	6	6	7	7
	400 ppm	1	1	1	1	1	1	2	2	3	3	3	3	3	4
	800 ppm	1	1	1	1	1	1	2	2	3	4	4	4	4	5
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	3	3	3
	200 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	1	1	0	0	0	1	1
	800 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	7	7	7	8	8	8	8	8	9	9	9	9	9	9
	200 ppm	8	9	9	9	9	9	10	10	10	10	10	10	10	11
	400 ppm	6	7	8	8	8	8	8	9	10	12	13	14	14	16
	800 ppm	5	6	8	8	8	9	10	10	10	10	10	11	11	12
MORIBUND SACRIFICE	Control	3	3	3	3	3	3	3	3	3	3	5	5	6	6
	200 ppm	1	1	1	1	1	1	1	2	2	3	3	3	3	3
	400 ppm	2	2	3	4	5	5	5	5	5	5	5	5	5	5
	800 ppm	2	2	2	2	2	2	2	3	3	4	4	4	4	4
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	1	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	400 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	400 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	1	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
		1	1	1	1	1	1	1
DEATH	Control	10	10	11	11	11	11	11
	200 ppm	12	12	12	12	12	13	14
	400 ppm	18	20	22	23	23	24	24
	800 ppm	13	16	16	19	19	19	20
MORIBUND SACRIFICE	Control	6	7	8	8	8	8	9
	200 ppm	3	3	3	4	4	4	6
	400 ppm	5	5	5	5	5	5	5
	800 ppm	4	4	5	5	6	7	7
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0	1
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	1
	200 ppm	1	1	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	1	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	200 ppm	0	1	1	1	1	1	0	0	1	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1	1	1	1	2	2	2	2
INTERNAL MASS	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	2
	400 ppm	0	1	1	1	1	1	1	1	1	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	1	3	3	4	4
M.NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1

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		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	1	1	1	0	0	0	0	0	0	1	1	2	0	0
	200 ppm	0	0	0	1	1	1	3	2	3	2	1	1	1	1
	400 ppm	0	0	0	1	1	1	1	1	0	0	0	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	2
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	800 ppm	2	2	2	2	2	2	2	2	1	1	1	1	1	1
INTERNAL MASS	Control	1	1	1	1	1	0	0	0	0	0	0	2	2	2
	200 ppm	4	5	4	4	4	4	4	3	3	3	5	5	4	5
	400 ppm	1	1	1	1	1	3	3	4	4	4	12	12	16	17
	800 ppm	4	5	6	7	8	12	11	12	12	11	17	18	19	23
M.NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	800 ppm	2	2	1	1	1	1	1	1	1	2	1	1	1	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	1	1
	200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	200 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	2	1	2	2	2	3	3	4	3	3	3	3
	200 ppm	6	5	5	5	10	10	11	19	18	19	19	22	22	21
	400 ppm	18	18	18	21	19	27	28	29	34	32	31	30	30	29
	800 ppm	24	23	22	24	25	27	27	26	27	27	27	27	27	32
M.NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	1	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1
	200 ppm	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	2	2	2	1	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	1	1	0	0	0	0
	200 ppm	2	2	2	2	2	2	5
	400 ppm	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0
INTERNAL MASS	Control	7	6	6	6	6	6	6
	200 ppm	22	22	22	23	26	25	25
	400 ppm	27	25	23	22	22	21	21
	800 ppm	31	28	28	25	24	23	22
M.NOSE	Control	1	1	1	0	0	0	0
	200 ppm	0	0	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.EYE	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	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													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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													
		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.FORLNB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	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	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 56

Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1	1
M.NECK	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.FORLIMB	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	1	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.ANTERIOR.DORSUM	Control	1	1	1	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.GENITALIA	Control	0	0	0	0	0	0	0
	200 ppm	1	1	1	1	1	1	1
	400 ppm	1	1	1	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
M.ANUS	Control	1	0	0	0	0	0	0
	200 ppm	1	1	1	1	1	1	1
	400 ppm	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0
EROSION	Control	1	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0

STUDY NO. : 0297
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													
		1-1	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 58

Clinical sign	Group Name	Administration Week-day													
		14-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day													
		28-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 60

Clinical sign	Group Name	Administration Week-day													
		42-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 61

Clinical sign	Group Name	Administration Week-day													
		56-7	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day													
		70-7	71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	1	1	1	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	1	1	1	1	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 63

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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
	200 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 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	1	0	0	0
	200 ppm	0	0	0	0	0	0	0	1	0	1	0	0	0	0
	400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day						
		98-7	99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	1	0	0	0	1
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	1	0	0	0	1
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	1
	400 ppm	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0

(HAN190)

BAIS 3

APPENDIX B 1

BODY WEIGHT CHANGES: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day						
	0-0	1-1	1-7	2-7	3-7	4-7	5-7
Control	22.6± 0.7	22.6± 0.8	24.0± 0.8	24.9± 1.0	25.5± 1.1	26.1± 1.2	26.7± 1.3
200 ppm	22.6± 0.7	22.3± 0.7	23.6± 0.8	24.6± 0.9	25.1± 1.0	25.8± 1.1	26.3± 1.3
400 ppm	22.6± 0.7	22.4± 0.9	24.1± 0.9	25.1± 0.9	25.9± 1.1	26.4± 1.1	26.8± 1.1
800 ppm	22.6± 0.7	22.4± 0.9	23.3± 0.8**	23.9± 0.8**	24.2± 1.1**	24.5± 1.3**	24.7± 1.5**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day						
	6-7	7-7	8-7	9-7	10-7	11-7	12-7
Control	27.4± 1.4	27.6± 1.5	28.6± 1.8	29.4± 1.8	29.9± 1.9	30.4± 2.0	31.1± 2.2
200 ppm	26.9± 1.2	27.1± 1.3	28.0± 1.4	28.6± 1.6*	29.2± 1.7	29.6± 1.7*	30.1± 1.8
400 ppm	27.1± 1.1	27.3± 1.1	28.2± 1.4	28.5± 1.4*	29.0± 1.5*	29.1± 1.6**	29.1± 1.5**
800 ppm	25.1± 1.5**	24.2± 1.5**	25.9± 1.3**	25.7± 1.5**	26.5± 1.4**	26.6± 1.4**	26.5± 1.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day						
	13-7	14-7	18-7	22-7	26-7	30-7	34-7
Control	31.4± 2.3	32.0± 2.4	34.8± 2.7	36.7± 2.9	38.4± 3.2	40.0± 3.9	42.3± 4.1
200 ppm	30.7± 2.2	31.2± 2.3	34.1± 2.7	36.2± 3.0	37.9± 3.4	39.5± 3.7	41.4± 3.8
400 ppm	29.9± 1.7*	30.2± 1.8**	31.8± 2.0**	33.5± 2.7**	34.2± 3.0**	35.5± 3.4**	36.9± 3.5**
800 ppm	27.7± 1.4**	27.9± 1.2**	29.1± 1.4**	30.3± 1.4**	30.8± 1.6**	32.2± 1.6**	32.9± 1.7**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE G-j:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day						
	38-7	42-7	46-7	50-7	54-7	58-7	62-7
Control	43.4± 4.4	45.1± 4.4	45.9± 4.4	46.2± 4.5	46.6± 4.9	47.6± 5.1	48.2± 4.3
200 ppm	42.5± 3.9	42.9± 4.1	43.8± 4.1	44.3± 4.3	44.5± 4.5	45.2± 4.6	45.2± 4.9
400 ppm	37.8± 3.8**	38.6± 3.6**	39.0± 3.9**	39.2± 4.0**	39.2± 4.0**	39.8± 4.1**	39.6± 4.1**
800 ppm	33.7± 1.8**	34.1± 1.9**	34.5± 2.1**	35.0± 2.3**	35.1± 2.3**	35.9± 2.5**	36.0± 2.7**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 66-7	week-day 70-7	74-7	78-7	82-7	86-7	90-7
Control	49.0± 4.6	50.0± 4.4	50.2± 5.5	50.9± 6.0	51.6± 5.5	51.9± 5.7	52.1± 5.9
200 ppm	45.8± 5.4	46.9± 5.8	47.9± 5.1	48.6± 5.2	48.2± 5.3	48.0± 5.8	47.9± 5.2
400 ppm	40.6± 4.3**	41.1± 4.1**	41.0± 4.2**	41.4± 4.4**	40.6± 4.4**	40.5± 4.3**	40.4± 4.2**
800 ppm	36.5± 2.9**	36.6± 2.9**	36.2± 2.8**	36.0± 2.5**	35.2± 2.7**	34.6± 2.6**	34.7± 2.9**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day			
	94-7	98-7	102-7	104-7
Control	52.4± 6.5	51.7± 6.3	50.4± 7.4	49.2± 7.6
200 ppm	46.6± 4.7*	45.2± 4.1*	43.5± 3.7	42.6± 3.8
400 ppm	39.9± 3.7**	39.4± 4.9**	38.5± 3.5**	38.2± 3.3**
800 ppm	34.2± 2.7**	34.6± 3.2**	34.2± 2.4**	34.5± 2.7**
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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week-day						
	0-0	1-1	1-7	2-7	3-7	4-7	5-7
Control	18.8± 0.7	18.2± 0.9	19.4± 0.9	20.3± 0.9	20.9± 0.8	21.6± 0.8	22.2± 0.9
200 ppm	18.8± 0.7	18.1± 0.7	19.2± 0.7	20.3± 0.8	20.8± 0.8	21.6± 0.9	21.7± 0.8*
400 ppm	18.8± 0.7	18.2± 0.6	19.6± 0.7	20.5± 0.8	21.8± 0.8**	22.3± 1.0**	22.7± 1.0*
800 ppm	18.8± 0.7	18.1± 0.8	19.1± 0.7	19.9± 0.8*	20.5± 0.8*	21.0± 0.9**	21.2± 0.9**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day						
	6-7	7-7	8-7	9-7	10-7	11-7	12-7
Control	22.8± 0.9	22.8± 1.0	23.6± 1.0	24.1± 1.1	24.3± 1.4	24.3± 1.2	24.7± 1.5
200 ppm	22.6± 0.8	22.9± 0.9	23.3± 0.9	24.0± 0.9	23.9± 1.1	24.1± 0.9	24.3± 1.1
400 ppm	23.0± 0.9	23.0± 1.0	24.1± 1.2*	24.4± 0.9	24.8± 1.1	24.8± 1.1	25.3± 1.2
800 ppm	21.6± 1.2**	21.3± 1.0**	23.1± 1.1*	23.2± 1.5**	23.7± 1.1*	23.7± 1.2*	23.3± 1.2**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Grj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day						
	13-7	14-7	18-7	22-7	26-7	30-7	34-7
Control	24.7± 1.2	25.0± 1.4	26.5± 1.5	27.8± 1.9	28.6± 2.0	29.4± 2.6	30.2± 2.7
200 ppm	24.6± 1.1	24.7± 1.1	26.2± 1.2	27.2± 1.7	27.7± 1.5*	28.5± 1.6	29.2± 1.9
400 ppm	25.2± 1.2	25.2± 1.5	26.5± 1.2	27.3± 1.5	27.7± 1.6*	28.4± 1.5	28.7± 1.7*
800 ppm	24.1± 1.2*	24.3± 1.2*	25.4± 1.3**	26.3± 1.4**	26.4± 1.4**	27.4± 1.5**	27.9± 1.5**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration week-day						
	38-7	42-7	46-7	50-7	54-7	58-7	62-7
Control	30.7± 2.7	31.4± 3.3	31.7± 3.1	31.6± 2.8	31.8± 3.2	32.0± 3.1	32.2± 2.9
200 ppm	29.4± 1.8*	29.7± 2.0*	30.1± 1.6	30.1± 1.8*	30.1± 2.0*	30.4± 2.0	30.5± 1.9*
400 ppm	29.1± 1.6**	29.3± 1.8**	29.8± 1.6*	30.1± 1.8*	30.1± 1.6	30.2± 1.8*	30.6± 1.8*
800 ppm	28.0± 1.5**	28.3± 1.7**	28.6± 1.6**	28.9± 1.7**	28.8± 1.5**	28.9± 1.5**	28.6± 1.5**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day						
	66-7	70-7	74-7	78-7	82-7	86-7	90-7
Control	33.0± 3.6	33.7± 3.9	34.3± 3.8	34.2± 4.0	34.4± 4.1	34.7± 3.8	34.1± 4.4
200 ppm	30.8± 2.0**	31.8± 2.0	32.3± 2.6*	32.8± 3.5	32.7± 2.2	32.9± 2.1	32.8± 2.4
400 ppm	31.2± 1.8	31.7± 1.8*	31.8± 2.1*	32.2± 2.4	33.0± 3.6	32.7± 2.1	33.1± 2.3
800 ppm	29.0± 1.7**	29.4± 1.8**	29.2± 2.2**	29.1± 2.7**	28.9± 2.2**	28.3± 2.1**	28.1± 2.4**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day			
	94-7	98-7	102-7	104-7
Control	33.8± 5.0	34.2± 4.0	34.4± 3.6	33.7± 4.0
200 ppm	33.4± 2.5	33.7± 2.5	33.8± 3.4	33.6± 3.7
400 ppm	33.1± 2.2	33.4± 2.5	32.0± 2.6	32.0± 2.7
800 ppm	27.8± 2.1**	27.8± 2.5**	27.1± 1.9**	27.3± 2.1**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett				

(HAN260)

BAIS3

APPENDIX C 1

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

STUDY NO. : 0297
 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(6)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	4.1± 0.2	4.0± 0.2	4.1± 0.3	4.2± 0.2	4.2± 0.2	4.2± 0.2	4.2± 0.3
200 ppm	3.8± 0.2**	4.1± 0.2	4.1± 0.2	4.3± 0.4	4.3± 0.3	4.3± 0.3	4.4± 0.3
400 ppm	3.8± 0.3**	4.2± 0.4	4.4± 0.4**	4.4± 0.3**	4.3± 0.3	4.3± 0.2	4.3± 0.2
800 ppm	3.5± 0.3**	3.8± 0.3**	3.9± 0.3	4.1± 0.4	4.0± 0.3**	4.0± 0.4**	3.9± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 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	4.3± 0.2	4.4± 0.2	4.4± 0.2	4.4± 0.3	4.5± 0.3	4.4± 0.4	4.4± 0.3
200 ppm	4.3± 0.3	4.4± 0.3	4.5± 0.3*	4.4± 0.3	4.5± 0.3	4.5± 0.3	4.6± 0.3
400 ppm	4.4± 0.2	4.3± 0.3	4.3± 0.2	4.2± 0.2**	4.3± 0.2	4.5± 0.2	4.4± 0.3
800 ppm	4.1± 0.3**	3.8± 0.3**	4.0± 0.2**	4.0± 0.3**	4.0± 0.4**	4.2± 0.3**	4.0± 0.2**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 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	4.7± 0.2	4.8± 0.2	4.8± 0.2	4.8± 0.3	4.9± 0.3	4.9± 0.3	4.9± 0.3
200 ppm	4.8± 0.3	4.9± 0.3	4.9± 0.3	4.9± 0.3	4.9± 0.4	5.0± 0.3	4.9± 0.3
400 ppm	4.6± 0.3**	4.6± 0.5**	4.6± 0.3*	4.7± 0.3	4.7± 0.4	4.9± 0.4	4.8± 0.3*
800 ppm	4.1± 0.3**	4.2± 0.2**	4.2± 0.2**	4.2± 0.2**	4.3± 0.3**	4.5± 0.3**	4.3± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 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	5.1± 0.3	5.2± 0.3	5.0± 0.3	5.1± 0.4	5.2± 0.3	5.2± 0.3	5.3± 0.4
200 ppm	5.1± 0.3	5.2± 0.3	5.0± 0.3	5.2± 0.3	5.2± 0.5	5.2± 0.4	5.2± 0.4
400 ppm	4.8± 0.4*	5.0± 0.4**	4.8± 0.3*	4.9± 0.3	5.1± 0.4*	5.0± 0.4*	4.9± 0.4**
800 ppm	4.4± 0.3**	4.5± 0.2**	4.4± 0.2**	4.5± 0.3**	4.9± 0.3**	4.8± 0.5**	4.7± 0.4**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 74-7(7)	week-day(effective) 78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	5.4± 0.6	5.4± 0.7	5.3± 0.4	5.3± 0.4	5.6± 0.5	5.6± 0.5	5.4± 0.6
200 ppm	5.4± 0.5	5.5± 0.4	5.3± 0.4	5.4± 0.6	5.4± 0.5	5.3± 0.7	5.5± 0.5
400 ppm	5.1± 0.5**	5.4± 0.5	5.2± 0.5	5.2± 0.5	5.5± 0.6	5.5± 0.7	5.4± 0.8
800 ppm	4.9± 0.4**	5.1± 0.5**	5.1± 0.5	5.3± 0.6	5.7± 0.7	5.8± 0.8	5.5± 0.8

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0297
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	5.3± 0.6	5.1± 0.5
200 ppm	5.3± 0.4	5.3± 0.5
400 ppm	5.3± 0.5	5.4± 0.6*
800 ppm	5.2± 0.6	5.1± 0.6

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

Test of Dunnett

(HAN260)

BAIS3

APPENDIX C 2

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

STUDY NO. : 0297
 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(6)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.5± 0.3	3.6± 0.3	3.7± 0.3	4.0± 0.2	4.1± 0.2	4.1± 0.2	4.2± 0.2
200 ppm	3.1± 0.3**	3.6± 0.2	3.8± 0.2	4.0± 0.2	4.0± 0.3	4.2± 0.3	4.3± 0.3
400 ppm	3.1± 0.2**	3.5± 0.3	4.1± 0.4**	4.1± 0.3*	4.2± 0.3	4.2± 0.3	4.3± 0.3
800 ppm	3.0± 0.2**	3.5± 0.3*	3.6± 0.4	3.8± 0.4*	3.7± 0.3**	3.8± 0.3**	4.0± 0.4**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Grj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	4.2± 0.2	4.3± 0.2	4.2± 0.3	4.2± 0.2	4.3± 0.3	4.4± 0.7	4.2± 0.3
200 ppm	4.2± 0.3	4.4± 0.3	4.3± 0.3	4.3± 0.3**	4.4± 0.3	4.4± 0.3	4.4± 0.3*
400 ppm	4.5± 0.4**	4.6± 0.5	4.4± 0.4	4.3± 0.4*	4.7± 0.5**	4.4± 0.3	4.4± 0.4*
800 ppm	4.1± 0.3	3.9± 0.4**	4.0± 0.3**	4.0± 0.4*	4.0± 0.4**	4.1± 0.3**	4.1± 0.5

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0297
 ANIMAL : MOUSE Grj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration 18-7(7)	week-day(effective) 22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	4.6± 0.3	4.7± 0.4	4.7± 0.3	4.7± 0.5	4.5± 0.4	4.7± 0.4	4.5± 0.4
200 ppm	4.6± 0.3	4.8± 0.4	4.7± 0.3	4.8± 0.3	4.7± 0.4	4.8± 0.4	4.7± 0.4
400 ppm	4.8± 0.4**	4.8± 0.4	4.7± 0.4	4.6± 0.4	4.7± 0.4	4.8± 0.4	4.7± 0.4
800 ppm	4.2± 0.3**	4.3± 0.3**	4.3± 0.3**	4.3± 0.4**	4.5± 0.4	4.6± 0.4	4.4± 0.4

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0297
 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	4.6± 0.5	4.7± 0.4	4.6± 0.4	4.5± 0.4	4.7± 0.4	4.9± 0.5	4.7± 0.5
200 ppm	4.8± 0.3	4.8± 0.3	4.6± 0.4	4.7± 0.5	4.8± 0.6	4.8± 0.4	4.8± 0.6
400 ppm	4.7± 0.3	4.8± 0.4	4.7± 0.4	4.5± 0.4	4.8± 0.4	4.9± 0.5	5.1± 0.6**
800 ppm	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.4± 0.4	4.7± 0.4	4.7± 0.5	4.8± 0.5

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration 74-7(7)	week-day(effective) 78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	4.9± 0.6	4.8± 0.6	4.6± 0.7	4.8± 0.5	4.9± 0.6	5.1± 0.9	5.2± 1.0
200 ppm	4.8± 0.5	4.9± 0.6	4.8± 0.5	5.2± 0.8*	5.3± 0.6*	5.6± 0.8*	5.6± 0.9
400 ppm	5.5± 0.8**	5.5± 0.6**	5.6± 0.8**	5.9± 0.8**	6.0± 0.7**	6.1± 0.9**	5.9± 0.8**
800 ppm	5.0± 0.7	4.9± 0.6	4.7± 0.5	4.8± 0.6	4.8± 0.6	4.9± 0.6	4.7± 0.5

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0297
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	5.1± 0.7	5.0± 0.9
200 ppm	5.5± 0.7	5.5± 0.8*
400 ppm	5.4± 0.7	5.3± 0.7
800 ppm	4.3± 0.5**	4.3± 0.5**

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

Test of Dunnett

(HAN260)

BAIS3

APPENDIX D 1

HEMATOLOGY: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE C-j: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	36	9.89±	0.67	14.1±	0.8	45.3±	2.6	45.9±	1.5	14.3±	0.5	31.2±	0.7	1885±	345
200 ppm	31	8.67±	2.08**	11.6±	2.8**	38.5±	7.6**	45.5±	6.0**	13.5±	0.7**	29.9±	2.2**	2541±	349**
400 ppm	36	8.98±	1.64**	12.0±	1.9**	39.1±	5.9**	44.1±	4.1**	13.4±	1.1**	30.5±	1.2**	2459±	496**
800 ppm	36	9.28±	1.52*	12.2±	1.8**	40.0±	5.4**	43.6±	3.5**	13.2±	0.7**	30.4±	1.2**	2565±	369**

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

Test of Dunnett

(HCL070)

BAIS3

STUDY NO. : 0297
 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		OTHERS	
Control	36	3.56±	1.78	1±	3	32±	15	1±	1	0±	0	4±	2	60±	17	2±	2
200 ppm	31	4.10±	1.95	2±	3*	35±	13	0±	1**	0±	0	3±	2	55±	15	3±	2*
400 ppm	36	10.05±	42.85	2±	2	37±	15	0±	0**	0±	0	3±	2	52±	15	7±	12
800 ppm	36	2.87±	1.18	2±	2	37±	12	0±	0**	0±	0	3±	2	54±	12	4±	2**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS3

APPENDIX D 2

HEMATOLOGY: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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 ⁹ /μl	
Control	29	9.59±	1.03	13.7±	1.6	44.0±	4.5	46.0±	1.7	14.3±	0.6	31.2±	0.7	982±	426
200 ppm	28	9.70±	1.68	13.1±	2.2	42.9±	6.4	44.6±	2.2*	13.5±	0.5**	30.4±	1.0**	1646±	412**
400 ppm	21	9.16±	2.01	12.1±	2.4*	40.3±	7.6	44.5±	4.2**	13.3±	0.9**	30.0±	0.9**	1916±	628**
800 ppm	20	10.01±	0.93	13.0±	1.0	42.5±	3.3	42.6±	2.1**	13.0±	0.5**	30.5±	0.7*	2080±	417**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE C-j: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		OTHERS	
Control	29	3.28±	4.54	2±	3	34±	15	1±	2	0±	0	4±	2	51±	18	8±	10
200 ppm	28	6.65±	13.48	2±	2	43±	20	0±	0**	0±	0	3±	2	39±	15**	14±	23
400 ppm	21	2.87±	1.53	3±	3	50±	15**	0±	0**	0±	0	3±	2	39±	14*	5±	4
800 ppm	20	1.66±	1.13	3±	3	53±	15**	0±	0**	0±	0	3±	1	38±	14*	3±	3

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS3

APPENDIX E 1

BIOCHEMISTRY: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	36	5.0±	0.4	2.7±	0.2	1.1±	0.1	0.16±	0.06	185±	47	104±	29	54±	20
200 ppm	31	5.3±	0.4**	2.8±	0.2	1.1±	0.1	0.19±	0.13	175±	36	230±	59**	81±	37**
400 ppm	35	5.6±	0.7**	2.9±	0.3**	1.1±	0.1	0.19±	0.15	150±	39**	282±	103**	65±	32
800 ppm	37	5.9±	0.4**	3.1±	0.3**	1.1±	0.1	0.22±	0.08**	150±	34**	374±	65**	56±	26

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

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	GOT IU/ℓ		GPT IU/ℓ		LDH IU/ℓ		ALP IU/ℓ		CPK IU/ℓ		UREA NITROGEN mg/dℓ		SODIUM mEq/ℓ	
Control	36	107±	185	51±	93	415±	675	145±	61	68±	81	26.5±	18.0	154±	4
200 ppm	31	561±	592**	501±	469**	4559±	10237**	641±	673**	82±	54*	25.5±	4.6	153±	2
400 ppm	35	553±	535**	668±	737**	3497±	10744**	771±	723**	109±	79**	32.8±	14.3**	153±	2
800 ppm	37	731±	321**	829±	359**	2115±	1062**	1209±	706**	155±	118**	29.8±	4.8**	153±	2

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
Control	36	4.3±	0.5	125±	4	8.8±	0.3	6.6±	1.6
200 ppm	31	3.9±	0.3**	124±	3	9.2±	0.4**	6.1±	0.8
400 ppm	35	3.9±	0.6**	124±	2	9.4±	0.5**	6.5±	1.0
800 ppm	37	3.9±	0.4**	124±	3	9.8±	0.3**	6.9±	0.8

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

APPENDIX E 2

BIOCHEMISTRY: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE C₃H/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	29	5.0±	0.7	2.6±	0.3	1.1±	0.2	0.17±	0.11	129±	31	78±	49	42±	28
200 ppm	28	6.1±	0.6**	3.2±	0.2**	1.1±	0.1	0.25±	0.12*	142±	53	252±	111**	60±	46
400 ppm	20	6.2±	0.8**	3.3±	0.4**	1.1±	0.1	0.33±	0.12**	93±	50	360±	87**	54±	21
800 ppm	19	6.1±	0.6**	3.3±	0.4**	1.2±	0.1	0.34±	0.15**	120±	60	504±	177**	67±	51

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

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 MEASURE, TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	GOT IU/ℓ		GPT IU/ℓ		LDH IU/ℓ		ALP IU/ℓ		CPK IU/ℓ		UREA NITROGEN mg/dℓ		SODIUM mEq/ℓ	
Control	29	411±	1286	139±	411	847±	1984	213±	97	108±	140	18.7±	8.5	152±	3
200 ppm	28	991±	645**	781±	544**	3588±	3294**	1098±	728**	216±	205**	35.2±	31.6**	153±	4
400 ppm	20	1981±	1156**	1748±	1060**	6452±	6066**	2115±	536**	178±	74**	39.4±	13.1**	154±	4
800 ppm	19	1748±	1375**	1289±	858**	3299±	2236**	2168±	737**	193±	125**	35.2±	8.1**	152±	3

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0297
 ANIMAL : MOUSE C₇J:BDF₁
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
Control	29	4.2±	0.5	125±	3	9.1±	0.6	6.3±	0.9
200 ppm	28	4.0±	0.6	123±	4	10.3±	0.9**	7.1±	1.9
400 ppm	20	4.6±	0.7	122±	4*	10.3±	0.6**	7.2±	1.1**
800 ppm	19	4.5±	0.6	120±	3**	10.2±	0.4**	7.1±	0.7**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

APPENDIX F1

URINALYSIS: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Occult blood				CHI			
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		±	+	2+
Control	37	0	2	4	5	10	14	2		0	1	33	3	0	0		37	0	0	0	0	0		7	29	0	1	0	0		34	1	2	0	0
200 ppm	33	0	2	3	7	11	10	0		0	5	23	4	1	0		33	0	0	0	0	0		10	21	2	0	0	0		32	0	0	0	1
400 ppm	38	0	3	3	4	4	17	7		0	18	15	4	1	0	**	38	0	0	0	0	0		19	17	2	0	0	0	**	38	0	0	0	0
800 ppm	41	0	2	7	2	5	20	5		3	22	14	1	0	1	**	41	0	0	0	0	0		28	13	0	0	0	0	**	39	1	0	0	1

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

Test of CHI SQUARE

(HCL101)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
Control	37	37 0 0 0 0
200 ppm	33	33 0 0 0 0
400 ppm	38	38 0 0 0 0
800 ppm	41	41 0 0 0 0

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

Test of CHI SQUARE

(HCL101)

BAIS 3

APPENDIX F 2

URINALYSIS: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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+
Control	28	0	0	4	8	12	4	0		0	3	17	6	1	1		28	0	0	0	0	0		10	12	5	1	0	0		25	1	0	1	1
200 ppm	31	0	5	3	7	14	2	0		0	2	12	13	3	1		31	0	0	0	0	0		11	13	6	1	0	0		25	2	1	2	1
400 ppm	21	0	3	4	6	4	4	0		0	2	8	9	2	0		21	0	0	0	0	0		9	9	3	0	0	0		20	1	0	0	0
800 ppm	23	0	3	3	1	8	6	2	*	0	8	6	5	4	0	*	23	0	0	0	0	0		10	7	6	0	0	0		20	1	1	0	1

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

Test of CHI SQUARE

(HCL101)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
Control	28	28 0 0 0 0
200 ppm	31	31 0 0 0 0
400 ppm	21	21 0 0 0 0
800 ppm	23	23 0 0 0 0

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

Test of CHI SQUARE

(HCL101)

BAIS3

APPENDIX G 1

GROSS FINDINGS: SUMMARY, MOUSE: MALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0297
 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 (%)	200 ppm 50 (%)	400 ppm 49 (%)	800 ppm 50 (%)
skin/app	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	erosion		1 (2)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	1 (2)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	2 (4)	0 (0)
subcutis	edema		1 (2)	1 (2)	1 (2)	0 (0)
	mass		3 (6)	1 (2)	0 (0)	1 (2)
nasal cavit	nodule		0 (0)	0 (0)	0 (0)	1 (2)
lung	white zone		1 (2)	0 (0)	0 (0)	1 (2)
	red zone		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		8 (16)	11 (22)	8 (16)	11 (22)
lymph node	enlarged		4 (8)	3 (6)	3 (6)	5 (10)
spleen	enlarged		4 (8)	5 (10)	6 (12)	3 (6)
	white zone		0 (0)	0 (0)	0 (0)	1 (2)
	black zone		2 (4)	0 (0)	0 (0)	2 (4)
	nodule		1 (2)	1 (2)	2 (4)	0 (0)
	deformed		0 (0)	0 (0)	0 (0)	1 (2)
	accentuation of white pulp		1 (2)	0 (0)	2 (4)	0 (0)
heart	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
salivary gl	nodule		0 (0)	1 (2)	0 (0)	0 (0)
forestomach	nodule		1 (2)	0 (0)	0 (0)	0 (0)
gl stomach	thick		0 (0)	2 (4)	0 (0)	0 (0)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	200 ppm 50 (%)	400 ppm 49 (%)	800 ppm 50 (%)
stomach	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	ulcer		0 (0)	0 (0)	1 (2)	0 (0)
small intes	nodule		1 (2)	1 (2)	2 (4)	1 (2)
liver	enlarged		0 (0)	1 (2)	0 (0)	1 (2)
	white zone		2 (4)	3 (6)	1 (2)	1 (2)
	red zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		14 (28)	44 (88)	48 (98)	48 (96)
	mass		1 (2)	0 (0)	0 (0)	0 (0)
	cyst		0 (0)	1 (2)	0 (0)	0 (0)
pancreas	nodule		1 (2)	0 (0)	2 (4)	0 (0)
kidney	nodule		0 (0)	1 (2)	1 (2)	1 (2)
	deformed		1 (2)	0 (0)	0 (0)	0 (0)
	hydronephrosis		2 (4)	1 (2)	3 (6)	1 (2)
urin bladd	urine:marked retention		1 (2)	3 (6)	1 (2)	1 (2)
thyroid	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
testis	nodule		0 (0)	0 (0)	1 (2)	1 (2)
	adhesion		1 (2)	0 (0)	0 (0)	0 (0)
epididymis	nodule		0 (0)	0 (0)	1 (2)	0 (0)
semin ves	adhesion		1 (2)	0 (0)	0 (0)	0 (0)
brain	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	mass		0 (0)	1 (2)	0 (0)	0 (0)
eye	white		0 (0)	1 (2)	1 (2)	1 (2)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name NO. of Animals	Control 50 (%)	200 ppm 50 (%)	400 ppm 49 (%)	800 ppm 50 (%)
Harder gl	enlarged		0 (0)	2 (4)	1 (2)	1 (2)
	nodule		1 (2)	1 (2)	0 (0)	2 (4)
mediastinum	mass		0 (0)	0 (0)	1 (2)	0 (0)
peritoneum	nodule		0 (0)	0 (0)	0 (0)	1 (2)
	thick		0 (0)	0 (0)	0 (0)	1 (2)
abdominal c	hemorrhage		1 (2)	1 (2)	3 (6)	3 (6)
	ascites		1 (2)	1 (2)	1 (2)	0 (0)
thoracic ca	hemorrhage		0 (0)	0 (0)	1 (2)	0 (0)
	pleural fluid		2 (4)	1 (2)	3 (6)	0 (0)
other	enlarged		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	mass		0 (0)	1 (2)	0 (0)	0 (0)
	tail:nodule		0 (0)	0 (0)	1 (2)	0 (0)
	hindlimb:nodule		0 (0)	0 (0)	1 (2)	0 (0)
	nose:nodule		0 (0)	0 (0)	0 (0)	1 (2)

APPENDIX G 2

GROSS FINDINGS: SUMMARY, MOUSE: MALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0297
 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 (%)	200 ppm 17 (%)	400 ppm 12 (%)	800 ppm 10 (%)
skin/app	nodule		0 (0)	1 (6)	0 (0)	0 (0)
	thick		0 (0)	1 (6)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	1 (8)	0 (0)
subcutis	edema		1 (8)	1 (6)	1 (8)	0 (0)
	mass		2 (15)	1 (6)	0 (0)	0 (0)
lung	white zone		1 (8)	0 (0)	0 (0)	0 (0)
	red zone		1 (8)	0 (0)	0 (0)	0 (0)
	nodule		2 (15)	1 (6)	4 (33)	2 (20)
lymph node	enlarged		1 (8)	2 (12)	1 (8)	1 (10)
spleen	enlarged		2 (15)	2 (12)	2 (17)	1 (10)
	nodule		1 (8)	0 (0)	0 (0)	0 (0)
	deformed		0 (0)	0 (0)	0 (0)	1 (10)
	accentuation of white pulp		0 (0)	0 (0)	1 (8)	0 (0)
heart	nodule		0 (0)	0 (0)	1 (8)	0 (0)
salivary gl	nodule		0 (0)	1 (6)	0 (0)	0 (0)
gl stomach	thick		0 (0)	2 (12)	0 (0)	0 (0)
stomach	nodule		0 (0)	1 (6)	0 (0)	0 (0)
	ulcer		0 (0)	0 (0)	1 (8)	0 (0)
small intes	nodule		0 (0)	1 (6)	0 (0)	0 (0)
liver	enlarged		0 (0)	1 (6)	0 (0)	1 (10)
	white zone		1 (8)	3 (18)	1 (8)	1 (10)
	nodule		5 (38)	12 (71)	12 (100)	8 (80)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 13 (%)	200 ppm 17 (%)	400 ppm 12 (%)	800 ppm 10 (%)
liver	mass		1 (8)	0 (0)	0 (0)	0 (0)
pancreas	nodule		1 (8)	0 (0)	1 (8)	0 (0)
kidney	nodule		0 (0)	1 (6)	0 (0)	0 (0)
	hydronephrosis		1 (8)	0 (0)	0 (0)	1 (10)
urin bladd	urine:marked retention		1 (8)	3 (18)	1 (8)	1 (10)
thyroid	enlarged		0 (0)	0 (0)	0 (0)	1 (10)
testis	nodule		0 (0)	0 (0)	0 (0)	1 (10)
	adhesion		1 (8)	0 (0)	0 (0)	0 (0)
brain	nodule		0 (0)	1 (6)	0 (0)	0 (0)
	mass		0 (0)	1 (6)	0 (0)	0 (0)
Harder gl	nodule		1 (8)	1 (6)	0 (0)	1 (10)
mediastinum	mass		0 (0)	0 (0)	1 (8)	0 (0)
peritoneum	nodule		0 (0)	0 (0)	0 (0)	1 (10)
	thick		0 (0)	0 (0)	0 (0)	1 (10)
abdominal c	hemorrhage		1 (8)	1 (6)	3 (25)	2 (20)
	ascites		1 (8)	1 (6)	1 (8)	0 (0)
thoracic ca	hemorrhage		0 (0)	0 (0)	1 (8)	0 (0)
	pleural fluid		1 (8)	1 (6)	3 (25)	0 (0)
other	enlarged		1 (8)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	1 (6)	0 (0)	0 (0)
	mass		0 (0)	1 (6)	0 (0)	0 (0)
	tail:nodule		0 (0)	0 (0)	1 (8)	0 (0)

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 13 (%)	200 ppm 17 (%)	400 ppm 12 (%)	800 ppm 10 (%)
other	hindlimb:nodule		0 (0)	0 (0)	1 (8)	0 (0)

(HPT080)

BAIS 3

APPENDIX G 3

GROSS FINDINGS: SUMMARY, MOUSE: MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0297
 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 (%)	200 ppm 33 (%)	400 ppm 37 (%)	800 ppm 40 (%)
skin/app	erosion		1 (3)	0 (0)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	1 (3)	0 (0)
subcutis	mass		1 (3)	0 (0)	0 (0)	1 (3)
nasal cavit	nodule		0 (0)	0 (0)	0 (0)	1 (3)
lung	white zone		0 (0)	0 (0)	0 (0)	1 (3)
	nodule		6 (16)	10 (30)	4 (11)	9 (23)
lymph node	enlarged		3 (8)	1 (3)	2 (5)	4 (10)
spleen	enlarged		2 (5)	3 (9)	4 (11)	2 (5)
	white zone		0 (0)	0 (0)	0 (0)	1 (3)
	black zone		2 (5)	0 (0)	0 (0)	2 (5)
	nodule		0 (0)	1 (3)	2 (5)	0 (0)
	accentuation of white pulp		1 (3)	0 (0)	1 (3)	0 (0)
heart	white zone		0 (0)	0 (0)	1 (3)	0 (0)
forestomach	nodule		1 (3)	0 (0)	0 (0)	0 (0)
small intes	nodule		1 (3)	0 (0)	2 (5)	1 (3)
liver	white zone		1 (3)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (3)
	nodule		9 (24)	32 (97)	36 (97)	40 (100)
	cyst		0 (0)	1 (3)	0 (0)	0 (0)
pancreas	nodule		0 (0)	0 (0)	1 (3)	0 (0)
kidney	nodule		0 (0)	0 (0)	1 (3)	1 (3)
	deformed		1 (3)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0297
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 37 (%)	200 ppm 33 (%)	400 ppm 37 (%)	800 ppm 40 (%)
kidney	hydronephrosis		1 (3)	1 (3)	3 (8)	0 (0)
testis	nodule		0 (0)	0 (0)	1 (3)	0 (0)
epididymis	nodule		0 (0)	0 (0)	1 (3)	0 (0)
semin ves	adhesion		1 (3)	0 (0)	0 (0)	0 (0)
eye	white		0 (0)	1 (3)	1 (3)	1 (3)
Harder gl	enlarged		0 (0)	2 (6)	1 (3)	1 (3)
	nodule		0 (0)	0 (0)	0 (0)	1 (3)
abdominal c	hemorrhage		0 (0)	0 (0)	0 (0)	1 (3)
thoracic ca	pleural fluid		1 (3)	0 (0)	0 (0)	0 (0)
other	nose:nodule		0 (0)	0 (0)	0 (0)	1 (3)

(HPT080)

BAIS3

APPENDIX G 4

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 49 (%)	200 ppm 50 (%)	400 ppm 50 (%)	800 ppm 49 (%)
skin/app	nodule		0 (0)	1 (2)	1 (2)	0 (0)
subcutis	edema		6 (12)	5 (10)	3 (6)	0 (0)
	mass		2 (4)	3 (6)	0 (0)	1 (2)
lung	enlarged		0 (0)	1 (2)	0 (0)	0 (0)
	red		1 (2)	0 (0)	0 (0)	1 (2)
	white zone		0 (0)	2 (4)	1 (2)	1 (2)
	red zone		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		4 (8)	5 (10)	8 (16)	8 (16)
	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
lymph node	enlarged		9 (18)	11 (22)	5 (10)	2 (4)
	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
thymus	enlarged		0 (0)	1 (2)	1 (2)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	0 (0)
spleen	enlarged		7 (14)	9 (18)	13 (26)	3 (6)
	white zone		1 (2)	0 (0)	1 (2)	0 (0)
	nodule		1 (2)	0 (0)	1 (2)	2 (4)
heart	white zone		1 (2)	0 (0)	0 (0)	0 (0)
small intes	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	dilated		1 (2)	0 (0)	0 (0)	0 (0)
large intes	dilated		1 (2)	0 (0)	0 (0)	0 (0)
liver	enlarged		6 (12)	3 (6)	5 (10)	1 (2)
	white zone		4 (8)	2 (4)	4 (8)	3 (6)

STUDY NO. : 0297
 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 49 (%)	200 ppm 50 (%)	400 ppm 50 (%)	800 ppm 49 (%)
liver	red zone		4 (8)	0 (0)	1 (2)	1 (2)
	nodule		12 (24)	46 (92)	42 (84)	43 (88)
	rough		0 (0)	2 (4)	0 (0)	0 (0)
	nodular		1 (2)	1 (2)	3 (6)	3 (6)
	adhesion		0 (0)	0 (0)	2 (4)	0 (0)
pancreas	nodule		0 (0)	1 (2)	2 (4)	0 (0)
kidney	enlarged		2 (4)	0 (0)	0 (0)	1 (2)
	white zone		1 (2)	2 (4)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	1 (2)	1 (2)
	hydronephrosis		3 (6)	0 (0)	2 (4)	1 (2)
urin bladd	urine:marked retention		2 (4)	0 (0)	0 (0)	0 (0)
pituitary	enlarged		5 (10)	1 (2)	4 (8)	0 (0)
	red zone		0 (0)	1 (2)	1 (2)	0 (0)
	black zone		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		2 (4)	7 (14)	2 (4)	0 (0)
ovary	enlarged		4 (8)	6 (12)	6 (12)	1 (2)
	cyst		11 (22)	4 (8)	4 (8)	2 (4)
uterus	nodule		8 (16)	14 (28)	7 (14)	5 (10)
vagina	nodule		0 (0)	0 (0)	1 (2)	0 (0)
brain	red zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	2 (4)
spinal cord	nodule		0 (0)	0 (0)	0 (0)	1 (2)

STUDY NO. : 0297
 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 49 (%)	200 ppm 50 (%)	400 ppm 50 (%)	800 ppm 49 (%)
eye	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	absence		0 (0)	0 (0)	0 (0)	1 (2)
Harder gl	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		0 (0)	1 (2)	1 (2)	2 (4)
muscle	nodule		0 (0)	1 (2)	0 (0)	0 (0)
pleura	mass		0 (0)	0 (0)	1 (2)	0 (0)
mediastinum	mass		2 (4)	0 (0)	0 (0)	0 (0)
peritoneum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	mass		0 (0)	3 (6)	1 (2)	0 (0)
	thick		1 (2)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		3 (6)	3 (6)	3 (6)	4 (8)
	ascites		6 (12)	5 (10)	3 (6)	0 (0)
thoracic ca	hemorrhage		0 (0)	0 (0)	1 (2)	1 (2)
	pleural fluid		6 (12)	5 (10)	4 (8)	0 (0)
other	nose:nodule		1 (2)	0 (0)	0 (0)	0 (0)

APPENDIX G 5

GROSS FINDINGS: SUMMARY, MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0297
 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 20 (%)	200 ppm 20 (%)	400 ppm 29 (%)	800 ppm 27 (%)
subcutis	edema		6 (30)	5 (25)	3 (10)	0 (0)
	mass		1 (5)	0 (0)	0 (0)	1 (4)
lung	enlarged		0 (0)	1 (5)	0 (0)	0 (0)
	red		1 (5)	0 (0)	0 (0)	1 (4)
	white zone		0 (0)	2 (10)	1 (3)	1 (4)
	nodule		0 (0)	1 (5)	5 (17)	3 (11)
	adhesion		0 (0)	0 (0)	0 (0)	1 (4)
lymph node	enlarged		4 (20)	6 (30)	5 (17)	2 (7)
	adhesion		0 (0)	0 (0)	0 (0)	1 (4)
thymus	enlarged		0 (0)	1 (5)	1 (3)	0 (0)
	nodule		1 (5)	0 (0)	0 (0)	0 (0)
spleen	enlarged		3 (15)	3 (15)	9 (31)	2 (7)
	white zone		0 (0)	0 (0)	1 (3)	0 (0)
	nodule		0 (0)	0 (0)	1 (3)	1 (4)
heart	white zone		1 (5)	0 (0)	0 (0)	0 (0)
small intes	nodule		0 (0)	0 (0)	1 (3)	0 (0)
	dilated		1 (5)	0 (0)	0 (0)	0 (0)
large intes	dilated		1 (5)	0 (0)	0 (0)	0 (0)
liver	enlarged		6 (30)	2 (10)	5 (17)	1 (4)
	white zone		4 (20)	2 (10)	4 (14)	3 (11)
	red zone		0 (0)	0 (0)	1 (3)	1 (4)
	nodule		2 (10)	16 (80)	21 (72)	21 (78)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 20 (%)	200 ppm 20 (%)	400 ppm 28 (%)	800 ppm 27 (%)
liver	rough		0 (0)	2 (10)	0 (0)	0 (0)
	nodular		1 (5)	1 (5)	3 (10)	3 (11)
	adhesion		0 (0)	0 (0)	2 (7)	0 (0)
pancreas	nodule		0 (0)	0 (0)	2 (7)	0 (0)
kidney	enlarged		1 (5)	0 (0)	0 (0)	1 (4)
	white zone		1 (5)	1 (5)	0 (0)	0 (0)
	nodule		1 (5)	0 (0)	1 (3)	1 (4)
	hydronephrosis		2 (10)	0 (0)	1 (3)	1 (4)
urin bladd	urine:marked retention		2 (10)	0 (0)	0 (0)	0 (0)
pituitary	enlarged		1 (5)	1 (5)	1 (3)	0 (0)
	red zone		0 (0)	0 (0)	1 (3)	0 (0)
	black zone		0 (0)	1 (5)	0 (0)	0 (0)
	nodule		0 (0)	2 (10)	1 (3)	0 (0)
ovary	enlarged		4 (20)	6 (30)	4 (14)	1 (4)
	cyst		1 (5)	0 (0)	1 (3)	0 (0)
uterus	nodule		6 (30)	7 (35)	6 (21)	4 (15)
brain	red zone		0 (0)	0 (0)	1 (3)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	2 (7)
spinal cord	nodule		0 (0)	0 (0)	0 (0)	1 (4)
Harder gl	enlarged		0 (0)	0 (0)	0 (0)	1 (4)
	nodule		0 (0)	0 (0)	0 (0)	2 (7)
pleura	mass		0 (0)	0 (0)	1 (3)	0 (0)

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control 20 (%)	200 ppm 20 (%)	400 ppm 29 (%)	800 ppm 27 (%)
mediastinum	mass		2 (10)	0 (0)	0 (0)	0 (0)
peritoneum	mass		0 (0)	1 (5)	1 (3)	0 (0)
	thick		1 (5)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		3 (15)	3 (15)	3 (10)	4 (15)
	ascites		5 (25)	4 (20)	3 (10)	0 (0)
thoracic ca	hemorrhage		0 (0)	0 (0)	1 (3)	1 (4)
	pleural fluid		6 (30)	4 (20)	4 (14)	0 (0)
other	nose:nodule		1 (5)	0 (0)	0 (0)	0 (0)

(HPT080)

BAIS 3

APPENDIX G 6

GROSS FINDINGS: SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0297
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 29 (%)	200 ppm 30 (%)	400 ppm 21 (%)	800 ppm 22 (%)
skin/app	nodule		0 (0)	1 (3)	1 (5)	0 (0)
subcutis	mass		1 (3)	3 (10)	0 (0)	0 (0)
lung	red zone		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		4 (14)	4 (13)	3 (14)	5 (23)
lymph node	enlarged		5 (17)	5 (17)	0 (0)	0 (0)
spleen	enlarged		4 (14)	6 (20)	4 (19)	1 (5)
	white zone		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		1 (3)	0 (0)	0 (0)	1 (5)
liver	enlarged		0 (0)	1 (3)	0 (0)	0 (0)
	red zone		4 (14)	0 (0)	0 (0)	0 (0)
	nodule		10 (34)	30 (100)	21 (100)	22 (100)
pancreas	nodule		0 (0)	1 (3)	0 (0)	0 (0)
kidney	enlarged		1 (3)	0 (0)	0 (0)	0 (0)
	white zone		0 (0)	1 (3)	0 (0)	0 (0)
	hydronephrosis		1 (3)	0 (0)	1 (5)	0 (0)
pituitary	enlarged		4 (14)	0 (0)	3 (14)	0 (0)
	red zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		2 (7)	5 (17)	1 (5)	0 (0)
ovary	enlarged		0 (0)	0 (0)	2 (10)	0 (0)
	cyst		10 (34)	4 (13)	3 (14)	2 (9)
uterus	nodule		2 (7)	7 (23)	1 (5)	1 (5)
vagina	nodule		0 (0)	0 (0)	1 (5)	0 (0)

STUDY NO. : 0297
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 29 (%)	200 ppm 30 (%)	400 ppm 21 (%)	800 ppm 22 (%)
eye	nodule		1 (3)	0 (0)	0 (0)	0 (0)
	absence		0 (0)	0 (0)	0 (0)	1 (5)
Harder gl	nodule		0 (0)	1 (3)	1 (5)	0 (0)
muscle	nodule		0 (0)	1 (3)	0 (0)	0 (0)
peritoneum	nodule		1 (3)	0 (0)	0 (0)	0 (0)
	mass		0 (0)	2 (7)	0 (0)	0 (0)
abdominal c	ascites		1 (3)	1 (3)	0 (0)	0 (0)
thoracic ca	pleural fluid		0 (0)	1 (3)	0 (0)	0 (0)

(HPT080)

BAIS 3

APPENDIX H 1

ORGAN WEIGHT , ABSOLUTE: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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	45.0± 7.5	0.016± 0.004	0.212± 0.041	0.234± 0.024	0.248± 0.072	0.685± 0.072
200 ppm	33	38.0± 3.6	0.014± 0.003	0.205± 0.039	0.251± 0.021**	0.258± 0.097	1.020± 1.945
400 ppm	37	33.1± 3.1**	0.013± 0.004*	0.213± 0.058	0.233± 0.023	0.231± 0.062	0.760± 0.377
800 ppm	40	30.4± 2.3**	0.012± 0.003**	0.191± 0.034	0.226± 0.041	0.234± 0.045	0.634± 0.268**

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

Test of Dunnett

(HCL040)

BAIS3

STUDY NO. : 0297
 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	0.092±	0.086	1.724±	0.411	0.462±	0.017
200 ppm	33	0.135±	0.105*	4.162±	2.421**	0.467±	0.018
400 ppm	37	0.170±	0.175**	4.570±	2.441**	0.453±	0.016*
800 ppm	40	0.130±	0.140**	5.406±	0.878**	0.435±	0.017**

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

Test of Dunnett

(HCL040)

BAIS3

APPENDIX H 2

ORGAN WEIGHT , ABSOLUTE: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
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	29	29.5± 3.6	0.017±	0.004	0.070±	0.066	0.192±	0.029	0.256±	0.047	0.524±	0.135
200 ppm	30	28.9± 3.2	0.015±	0.003*	0.051±	0.090	0.209±	0.036*	0.251±	0.059	0.544±	0.064*
400 ppm	21	27.4± 2.1	0.014±	0.003**	0.106±	0.281**	0.208±	0.026*	0.260±	0.160	0.569±	0.068**
800 ppm	22	23.9± 2.0**	0.013±	0.004**	0.016±	0.011**	0.186±	0.016	0.235±	0.048	0.492±	0.058

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

Test of Dunnett

(HCL040)

BAIS3

STUDY NO. : 0297
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	29	0.190±	0.169	1.570±	0.325	0.491±	0.044
200 ppm	30	0.318±	0.374	5.535±	2.582**	0.468±	0.023
400 ppm	21	0.208±	0.147	7.100±	1.299**	0.445±	0.023**
800 ppm	22	0.101±	0.073**	5.671±	0.967**	0.430±	0.013**

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

Test of Dunnett

(HCL040)

BAIS3

APPENDIX I 1

ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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	45.0± 7.5	0.035± 0.010	0.479± 0.104	0.531± 0.089	0.559± 0.154	1.570± 0.370
200 ppm	33	38.0± 3.6	0.036± 0.007	0.543± 0.115	0.666± 0.070**	0.686± 0.262*	2.568± 4.344**
400 ppm	37	33.1± 3.1**	0.040± 0.012	0.647± 0.179**	0.707± 0.070**	0.705± 0.232**	2.332± 1.305**
800 ppm	40	30.4± 2.3**	0.041± 0.010*	0.629± 0.099**	0.744± 0.127**	0.776± 0.174**	2.093± 0.940**

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

Test of Dunnett

(HCL042)

BAIS3

STUDY NO. : 0297
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	0.223± 0.263	3.932± 1.227	1.060± 0.208
200 ppm	33	0.365± 0.296**	10.967± 6.096**	1.243± 0.131*
400 ppm	37	0.499± 0.463**	13.726± 6.251**	1.378± 0.137**
800 ppm	40	0.425± 0.455**	17.765± 2.527**	1.437± 0.106**

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

Test of Dunnett

(HCL042)

BAIS3

APPENDIX 12

ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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	29	29.5± 3.6	0.058± 0.013	0.236± 0.216	0.657± 0.112	0.883± 0.219	1.792± 0.446
200 ppm	30	28.9± 3.2	0.052± 0.010	0.173± 0.296	0.736± 0.197	0.869± 0.178	1.897± 0.280
400 ppm	21	27.4± 2.1	0.049± 0.009	0.402± 1.077**	0.759± 0.081**	0.971± 0.708	2.076± 0.201**
800 ppm	22	23.9± 2.0**	0.055± 0.015	0.069± 0.045**	0.781± 0.064**	0.996± 0.264*	2.060± 0.209**

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

Test of Dunnett

(HCL042)

BAIS 3

STUDY NO. : 0297
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	29	0.649± 0.566	5.401± 1.364	1.687± 0.246
200 ppm	30	1.042± 1.107	18.855± 6.985**	1.634± 0.173
400 ppm	21	0.746± 0.497	25.804± 3.731**	1.628± 0.116
800 ppm	22	0.423± 0.310	23.630± 3.033**	1.808± 0.168*

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

Test of Dunnett

(HCL042)

BA1S3

APPENDIX J 1

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY,
MOUSE: MALE: ALL ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
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 No. of Animals on Study Grade	Control 50				200 ppm 50				400 ppm 49				800 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																		
skin/app			<50>				<50>				<49>				<50>			
	ulcer		0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:epidermis		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)	(0)	(0)	(0)	(0)
[Respiratory system]																		
nasal cavit			<50>				<50>				<49>				<50>			
	epidermal cyst		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)
	eosinophilic change:olfactory epithelium		29	1	0	0	13	0	0	0 **	2	1	0	0 **	4	0	0	0 **
			(58)	(2)	(0)	(0)	(26)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(8)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		8	0	0	0	3	1	0	0	7	2	0	0	12	2	0	0
			(16)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(14)	(4)	(0)	(0)	(24)	(4)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		11	0	0	0	21	0	0	0	17	0	0	0	11	37	0	0 **
			(22)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(35)	(0)	(0)	(0)	(22)	(74)	(0)	(0)
	respiratory metaplasia:gland		4	2	0	0	16	10	0	0 **	2	0	0	0	14	0	0	0 *
			(8)	(4)	(0)	(0)	(32)	(20)	(0)	(0)	(4)	(0)	(0)	(0)	(28)	(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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																					
nasal cavit		<50>				<50>				<49>				<50>							
	necrosis:respiratory epithelium	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	thickening of bone	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	41 (82)	3 (6)	0 (0)	0 ** (0)
lung		<50>				<50>				<49>				<50>							
	congestion	2 (4)	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)	1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage	1 (2)	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)
	edema	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	thrombus	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	inflammatory infiltration	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	granulation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 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>			
	perivascular inflammation	1	0	0	0	0	1	0	0	3	0	0	0	2	1	0	0
		(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	accumulation of foamy cells	0	1	0	0	0	0	0	0	1	0	0	0	7	2	0	0 *
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(14)	(4)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	1	0	0	0	1	1	0	0	4	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:epithelium,alveolar duct	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)

[Hematopoietic system]

bone marrow		<50>				<50>				<49>				<50>			
	necrosis:focal	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	accumulation of foamy cells	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)
	myelofibrosis	0	1	0	0	0	2	0	0	0	1	0	0	1	1	0	0
		(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																	
bone marrow		<50>				<50>				<49>				<50>			
	erythropoiesis:increased	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:vascular	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
Lymph node		<50>				<50>				<49>				<50>			
	hemorrhage	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)
	mastcell hyperplasia	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)
	lymphadenitis	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)
	follicular hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
spleen	atrophy	<50>				<50>				<49>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0297
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				200 ppm 50				400 ppm 49				800 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>			
	angiectasis	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)
	deposit of melanin	2	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis	2	0	1	0	9	6	3	0 **	4	5	3	0 *	10	4	2	0 **
		(4)	(0)	(2)	(0)	(18)	(12)	(6)	(0)	(8)	(10)	(6)	(0)	(20)	(8)	(4)	(0)
	hyperplasia:vascular	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)
	follicular hyperplasia	5	2	0	0	3	0	0	0	3	5	1	0	2	0	0	0
		(10)	(4)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(10)	(2)	(0)	(4)	(0)	(0)	(0)
[Circulatory system]																	
heart		<50>				<50>				<49>				<50>			
	thrombus	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																	
heart	inflammatory cell nest	<50>				<50>				<49>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	arteritis	<50>				<50>				<49>				<50>			
		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)
[Digestive system]																	
tooth	dysplasia	<50>				<50>				<49>				<50>			
		14	1	0	0	19	2	0	0	23	0	0	0	7	0	0	0
		(28)	(2)	(0)	(0)	(38)	(4)	(0)	(0)	(47)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
tongue	arteritis	<50>				<50>				<49>				<50>			
		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration	<50>				<50>				<49>				<50>			
		35	0	0	0	33	1	0	0	38	0	0	0	27	0	0	0
		(70)	(0)	(0)	(0)	(66)	(2)	(0)	(0)	(78)	(0)	(0)	(0)	(54)	(0)	(0)	(0)
stomach	mineralization	<50>				<50>				<49>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0297
 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	Control				200 ppm				400 ppm				800 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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Digestive system]																		
stomach			<50>				<50>				<49>				<50>			
	arteritis		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)
	erosion:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	hyperplasia:forestomach		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	erosion:glandular stomach		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	hyperplasia:glandular stomach		17 (34)	23 (46)	1 (2)	0 (0)	17 (34)	29 (58)	1 (2)	0 (0)	14 (29)	31 (63)	1 (2)	0 (0)	18 (36)	24 (48)	3 (6)	0 (0)
liver			<50>				<50>				<49>				<50>			
	angiectasis		2 (4)	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)	1 (2)	0 (0)
	necrosis:central		1 (2)	1 (2)	2 (4)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)
	necrosis:focal		6 (12)	1 (2)	1 (2)	0 (0)	14 (28)	3 (6)	0 (0)	0 (0)	2 (4)	5 (10)	2 (4)	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
Liver	necrosis:single cell	11 (22)	1 (2)	0 (0)	0 (0)	23 (46)	15 (30)	0 (0)	0 ** (0)	13 (27)	30 (61)	0 (0)	0 ** (0)	6 (12)	42 (84)	0 (0)	0 ** (0)
	mineralization	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	Lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	15 (30)	0 (0)	0 (0)	0 (0)	37 (74)	0 (0)	0 (0)	0 ** (0)	42 (86)	0 (0)	0 (0)	0 ** (0)	47 (94)	1 (2)	0 (0)	0 ** (0)
	fibrosis:focal	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)
	proliferation:histiocyte	0 (0)	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)
	extramedullary hematopoiesis	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)

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. : 0297
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				200 ppm 50				400 ppm 49				800 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>			
	clear cell focus	0	2	2	0	4	16	1	0 **	2	10	1	0 *	5	12	0	0 **
		(0)	(4)	(4)	(0)	(8)	(32)	(2)	(0)	(4)	(20)	(2)	(0)	(10)	(24)	(0)	(0)
	acidophilic cell focus	1	0	0	0	3	15	20	0 **	1	18	22	0 **	1	22	19	0 **
		(2)	(0)	(0)	(0)	(6)	(30)	(40)	(0)	(2)	(37)	(45)	(0)	(2)	(44)	(38)	(0)
	basophilic cell focus	2	1	1	0	0	2	0	0	3	1	0	0	1	3	1	0
		(4)	(2)	(2)	(0)	(0)	(4)	(0)	(0)	(6)	(2)	(0)	(0)	(2)	(6)	(2)	(0)
	vacuolated cell focus	0	1	0	0	1	1	0	0	2	1	0	0	2	0	0	0
		(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	cholangiofibrosis	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)	(4)	(0)	(0)	(0)
	swelling:central	0	0	0	0	27	12	0	0 **	10	31	0	0 **	4	43	1	0 **
		(0)	(0)	(0)	(0)	(54)	(24)	(0)	(0)	(20)	(63)	(0)	(0)	(8)	(86)	(2)	(0)
	biliary cyst	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	nuclear atypia:central	0	0	0	0	28	5	0	0 **	16	26	0	0 **	25	20	0	0 **
		(0)	(0)	(0)	(0)	(56)	(10)	(0)	(0)	(33)	(53)	(0)	(0)	(50)	(40)	(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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
gall bladd	cyst	<50>				<50>				<49>				<50>			
		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
pancreas	atrophy	<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)
	necrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammatory 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)
[Urinary system]																	
kidney	thrombus	<50>				<50>				<49>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	infarct	1	0	1	0	1	0	0	0	3	0	0	0	1	0	0	0
		(2)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0297
 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				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney		<50>				<50>				<49>				<50>			
	cyst	0	0	0	0	1	0	0	0	2	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hyaline droplet	0	1	0	0	1	1	0	0	5	0	0	0 *	5	0	0	0 *
		(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	basophilic change	5	1	0	0	4	0	0	0	5	0	0	0	2	0	0	0
		(10)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	deposit of amyloid	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	0	0	0	0	1	3	0	0	0	3	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast	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)
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	inflammatory cell nest	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)

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney		<50>				<50>				<49>				<50>			
	inflammatory polyp	0	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)
	hydronephrosis	3	0	1	0	0	0	1	0	0	0	3	0	0	1	1	0
		(6)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(2)	(2)	(0)
	mineralization:papilla	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)
	dilatation:tubular lumen	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd		<50>				<50>				<49>				<50>			
	ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	hemorrhage	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)
	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)
[Endocrine system]																	
pituitary		<50>				<50>				<48>				<50>			
	angiectasis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 13

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary		<50>				<50>				<48>				<50>			
	cyst	5	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0
		(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	Rathke pouch	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid		<50>				<50>				<48>				<50>			
	arteritis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal		<50>				<50>				<49>				<50>			
	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)
	spindle-cell hyperplasia	31	0	0	0	31	0	0	0	28	1	0	0	26	0	0	0
		(62)	(0)	(0)	(0)	(62)	(0)	(0)	(0)	(57)	(2)	(0)	(0)	(52)	(0)	(0)	(0)
	hyperplasia:cortical cell	9	0	0	0	5	1	0	0	3	4	0	0 *	0	0	0	0 **
		(18)	(0)	(0)	(0)	(10)	(2)	(0)	(0)	(6)	(8)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 14

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
adrenal		<50>				<50>				<49>				<50>			
	hyperplasia:medulla	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Reproductive system]																	
testis		<50>				<50>				<49>				<49>			
	atrophy	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization	1 (2)	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)
	interstitial cell hyperplasia	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	spermatogenic granuloma	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	xanthogranuloma	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 15

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
epididymis		<50>				<50>				<49>				<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)
	spermatogenic granuloma	3	0	0	0	5	0	0	0	0	0	0	0	0	1	0	0
		(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	xanthogranuloma	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)
semin ves		<50>				<50>				<49>				<50>			
	cyst	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)	(0)	(0)	(0)
	xanthogranuloma	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)
prostate		<50>				<50>				<49>				<50>			
	inflammation	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)
	spermatogenic granuloma	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 16

		Group Name	Control				200 ppm				400 ppm				800 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
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
[Nervous system]																		
brain																		
			<50>				<50>				<49>				<50>			
	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)
	mineralization		38	0	0	0	31	0	0	0	29	0	0	0	29	0	0	0
			(76)	(0)	(0)	(0)	(62)	(0)	(0)	(0)	(59)	(0)	(0)	(0)	(58)	(0)	(0)	(0)
 [Special sense organs/appendage]																		
eye																		
			<50>				<50>				<49>				<50>			
	cataract		4	0	0	0	4	0	0	0	3	0	0	0	6	0	0	0
			(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	retinal atrophy		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)
	keratitis		0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	degeneration:cornea		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)
 Harder gl																		
			<50>				<50>				<49>				<50>			
	degeneration		0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 49				800 ppm 50			
		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	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
[Body cavities]																	
peritoneum	inflammation	<50>				<50>				<49>				<50>			
		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)
adipose	granulation	<50>				<50>				<49>				<50>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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 J 2

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY,
MOUSE: MALE: DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	13				17				12				10			
Organ_____	Findings_____	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																		
skin/app			<13>				<17>				<12>				<10>			
	ulcer		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:epidermis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Respiratory system]																		
nasal cavit			<13>				<17>				<12>				<10>			
	epidermal cyst		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)
	eosinophilic change:olfactory epithelium		5	1	0	0	4	0	0	0	0	0	0	0 *	1	0	0	0
			(38)	(8)	(0)	(0)	(24)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		1	0	0	0	0	1	0	0	3	0	0	0	3	0	0	0
			(8)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(25)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		3	0	0	0	7	0	0	0	2	0	0	0	1	8	0	0 **
			(23)	(0)	(0)	(0)	(41)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(10)	(80)	(0)	(0)
	respiratory metaplasia:gland		1	0	0	0	2	5	0	0	0	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(12)	(29)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(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. : 0297
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	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	thickening of bone	<13>				<17>				<12>				<10>			
		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)	(80)	(0)	(0)	(0)
Lung	congestion	<13>				<17>				<12>				<10>			
		2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(15)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	hemorrhage	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	edema	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)
	inflammatory infiltration	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(8)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	perivascular 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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(6)	(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. : 0297
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	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																	
bone marrow		<13>				<17>				<12>				<10>			
	necrosis:focal	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	myelofibrosis	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 (10)	1 (10)	0 (0)	0 (0)
	erythropoiesis:increased	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Lymph node		<13>				<17>				<12>				<10>			
	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mastcell hyperplasia	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen		<13>				<17>				<12>				<10>			
	atrophy	1 (8)	0 (0)	0 (0)	0 (0)	2 (12)	1 (6)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	1 (10)	2 (20)	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. : 0297
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	Group Name No. of Animals on Study Control Grade				200 ppm Grade				400 ppm Grade				800 ppm Grade			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																	
spleen		<13>				<17>				<12>				<10>			
	extramedullary hematopoiesis	1	0	1	0	3	4	1	0	2	4	2	0 *	1	3	0	0
		(8)	(0)	(8)	(0)	(18)	(24)	(6)	(0)	(17)	(33)	(17)	(0)	(10)	(30)	(0)	(0)
	hyperplasia:vascular	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Circulatory system]																	
heart		<13>				<17>				<12>				<10>			
	thrombus	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(10)	(0)	(0)	(0)
	mineralization	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	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)
[Digestive system]																	
tooth		<13>				<17>				<12>				<10>			
	dysplasia	1	0	0	0	5	1	0	0	6	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(29)	(6)	(0)	(0)	(50)	(0)	(0)	(0)	(20)	(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

STUDY NO. : 0297
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				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	13				17				12				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
[Digestive system]																		
tongue	arteritis		<13>				<17>				<12>				<10>			
		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration		<13>				<17>				<12>				<10>			
		4	0	0	0	7	0	0	0	5	0	0	0	1	0	0	0	
			(31)	(0)	(0)	(0)	(41)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
stomach	arteritis		<13>				<17>				<12>				<10>			
		0	0	1	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)
	hyperplasia:forestomach		1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		6	2	0	0	8	9	0	0 **	7	4	0	0	3	3	0	0
			(46)	(15)	(0)	(0)	(47)	(53)	(0)	(0)	(58)	(33)	(0)	(0)	(30)	(30)	(0)	(0)
liver	angiectasis		<13>				<17>				<12>				<10>			
		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
			(15)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		1	1	2	0	0	2	0	0	0	2	0	0	0	0	0	1
			(8)	(8)	(15)	(0)	(0)	(12)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(10)

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

STUDY NO. : 0297
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				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
Liver		<13>				<17>				<12>				<10>			
	necrosis:focal	1 (8)	0 (0)	0 (0)	0 (0)	2 (12)	3 (18)	0 (0)	0 (0)	1 (8)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:single cell	0 (0)	0 (0)	0 (0)	0 (0)	3 (18)	5 (29)	0 (0)	0 (0) *	1 (8)	6 (50)	0 (0)	0 (0) **	0 (0)	8 (80)	0 (0)	0 (0) **
	inflammatory cell nest	1 (8)	0 (0)	0 (0)	0 (0)	8 (47)	0 (0)	0 (0)	0 (0)	6 (50)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 (0) **
	proliferation:histiocyte	0 (0)	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 (10)	0 (0)	0 (0)
	extramedullary hematopoiesis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	clear cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	2 (12)	3 (18)	0 (0)	0 (0)	4 (33)	5 (42)	0 (0) **	0 (0)	3 (30)	3 (30)	0 (0) **
	basophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	1 (10)	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. : 0297
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	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver		<13>				<17>				<12>				<10>			
	cholangiofibrosis	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)
	swelling:central	0	0	0	0	9	2	0	0 **	3	2	0	0 *	2	5	1	0 **
		(0)	(0)	(0)	(0)	(53)	(12)	(0)	(0)	(25)	(17)	(0)	(0)	(20)	(50)	(10)	(0)
	nuclear atypia:central	0	0	0	0	9	3	0	0 **	5	1	0	0 *	2	6	0	0 **
		(0)	(0)	(0)	(0)	(53)	(18)	(0)	(0)	(42)	(8)	(0)	(0)	(20)	(60)	(0)	(0)
pancreas		<13>				<17>				<12>				<10>			
	inflammatory 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)	(10)	(0)	(0)	(0)
[Urinary system]																	
kidney		<13>				<17>				<12>				<10>			
	thrombus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	infarct	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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	cyst	<13>				<17>				<12>				<10>			
		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)
	hyaline droplet	0	1	0	0	1	1	0	0	4	0	0	0	4	0	0	0 *
		(0)	(8)	(0)	(0)	(6)	(6)	(0)	(0)	(33)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	basophilic change	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast	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)	(10)	(0)	(0)	(0)
	inflammatory cell nest	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)
	inflammatory polyp	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
		(8)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	mineralization:papilla	<13>				<17>				<12>				<10>			
		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)	(10)	(0)	(0)	(0)
	dilatation:tubular lumen	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(8)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd	ulcer	<13>				<17>				<12>				<10>			
		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)	(10)	(0)
	hemorrhage	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)
[Endocrine system]																	
pituitary	angiectasis	<13>				<17>				<12>				<10>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst	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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary	Rathke pouch	<13>				<17>				<12>				<10>			
		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)
thyroid	arteritis	<13>				<17>				<12>				<10>			
		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)
adrenal	hemorrhage	<13>				<17>				<12>				<10>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia	<13>				<17>				<12>				<10>			
		4	0	0	0	8	0	0	0	5	0	0	0	4	0	0	0
		(31)	(0)	(0)	(0)	(47)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	hyperplasia:cortical cell	<13>				<17>				<12>				<10>			
		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)	(0)
	hyperplasia:medulla	<13>				<17>				<12>				<10>			
		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)
[Reproductive system]																	
testis	atrophy	<13>				<17>				<12>				< 9>			
		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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 17				400 ppm 12				800 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
testis	mineralization	<13>				<17>				<12>				< 9>			
		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	xanthogranuloma	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)
epididymis	spermatogenic granuloma	<13>				<17>				<12>				<10>			
		0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0
prostate		(0)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)
	inflammation	<13>				<17>				<12>				<10>			
		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)
	spermatogenic granuloma	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)	(10)	(0)	(0)
[Nervous system]																	
brain	hemorrhage	<13>				<17>				<12>				<10>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	13				17				12				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Nervous system]																		
brain	mineralization		<13>				<17>				<12>				<10>			
		8	0	0	0	10	0	0	0	5	0	0	0	5	0	0	0	
		(62)	(0)	(0)	(0)	(59)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	
[Special sense organs/appendage]																		
eye	degeneration:cornea		<13>				<17>				<12>				<10>			
		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(15)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	
Harder gl	degeneration		<13>				<17>				<12>				<10>			
		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	hyperplasia		<13>				<17>				<12>				<10>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
[Body cavities]																		
peritoneum	inflammation		<13>				<17>				<12>				<10>			
		0	0	1	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)	

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ	Findings	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		Grade				Grade				Grade				Grade			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Body cavities]

adipose	granulation	<13>				<17>				<12>				<10>			
		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)

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 J 3
HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY,
MOUSE: MALE: SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade				Control 37				200 ppm 33				400 ppm 37				800 ppm 40			
		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		<37>				<33>				<37>				<40>							
	ulcer	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)
	hyperplasia:epidermis	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)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Respiratory system]																					
nasal cavit		<37>				<33>				<37>				<40>							
	eosinophilic change:olfactory epithelium	24	0	0	0	9	0	0	0 **	2	1	0	0 **	3	0	0	0	0	0	0	0 **
		(65)	(0)	(0)	(0)	(27)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	7	0	0	0	3	0	0	0	4	2	0	0	9	2	0	0	0	0	0	0
		(19)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(11)	(5)	(0)	(0)	(23)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	8	0	0	0	14	0	0	0	15	0	0	0	10	29	0	0	0	0	0	0 **
		(22)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(41)	(0)	(0)	(0)	(25)	(73)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland	3	2	0	0	14	5	0	0 **	2	0	0	0	12	0	0	0	0	0	0	0 *
		(8)	(5)	(0)	(0)	(42)	(15)	(0)	(0)	(5)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:respiratory epithelium	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	thickening of bone	<37>				<33>				<37>				<40>			
		0	0	0	0	0	0	0	0	0	0	0	0	33	3	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(83)	(8)	(0)	(0)
lung	hemorrhage	<37>				<33>				<37>				<40>			
		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)
	thrombus	<37>				<33>				<37>				<40>			
		0	0	0	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)
	inflammatory infiltration	<37>				<33>				<37>				<40>			
		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	granulation	<37>				<33>				<37>				<40>			
		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)
	perivascular inflammation	<37>				<33>				<37>				<40>			
		1	0	0	0	0	1	0	0	2	0	0	0	2	1	0	0
		(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(3)	(0)	(0)
	accumulation of foamy cells	<37>				<33>				<37>				<40>			
		0	1	0	0	0	0	0	0	1	0	0	0	7	2	0	0 *
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(18)	(5)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	<37>				<33>				<37>				<40>			
		0	0	0	0	0	1	0	0	4	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(11)	(0)	(0)	(0)	(3)	(0)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
Lung		<37>				<33>				<37>				<40>			
	hyperplasia:epithelium,alveolar duct	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)
[Hematopoietic system]																	
bone marrow		<37>				<33>				<37>				<40>			
	necrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
		<37>				<33>				<37>				<40>			
	accumulation of foamy cells	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)
		<37>				<33>				<37>				<40>			
	myelofibrosis	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
		<37>				<33>				<37>				<40>			
	erythropoiesis:increased	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)
		<37>				<33>				<37>				<40>			
	hyperplasia:vascular	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)
Lymph node		<37>				<33>				<37>				<40>			
	Lymphadenitis	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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																	
Lymph node	follicular hyperplasia	<37>				<33>				<37>				<40>			
		0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)
spleen	angiectasis	<37>				<33>				<37>				<40>			
		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)
	deposit of melanin	2	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	extramedullary hematopoiesis	1	0	0	0	6	2	2	0 *	2	1	1	0	9	1	2	0 *
		(3)	(0)	(0)	(0)	(18)	(6)	(6)	(0)	(5)	(3)	(3)	(0)	(23)	(3)	(5)	(0)
	hyperplasia:vascular	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)
	follicular hyperplasia	5	2	0	0	3	0	0	0	3	5	1	0	2	0	0	0
		(14)	(5)	(0)	(0)	(9)	(0)	(0)	(0)	(8)	(14)	(3)	(0)	(5)	(0)	(0)	(0)
[Circulatory system]																	
heart	thrombus	<37>				<33>				<37>				<40>			
		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 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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	37				33				37				40			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																		
heart			<37>				<33>				<37>				<40>			
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	
[Digestive system]																		
tooth			<37>				<33>				<37>				<40>			
	dysplasia		13 (35)	1 (3)	0 (0)	0 (0)	14 (42)	1 (3)	0 (0)	0 (0)	17 (46)	0 (0)	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)	0 * (0)
salivary gl			<37>				<33>				<37>				<40>			
	lymphocytic infiltration		31 (84)	0 (0)	0 (0)	0 (0)	26 (79)	1 (3)	0 (0)	0 (0)	33 (89)	0 (0)	0 (0)	0 (0)	26 (65)	0 (0)	0 (0)	0 (0)
stomach			<37>				<33>				<37>				<40>			
	mineralization		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	erosion:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	

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

STUDY NO. : 0297
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				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	37				33				37				40			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
stomach			<37>				<33>				<37>				<40>			
	hyperplasia:forestomach		2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (11)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)
	erosion:glandular stomach		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)
	hyperplasia:glandular stomach		11 (30)	21 (57)	1 (3)	0 (0)	9 (27)	20 (61)	1 (3)	0 (0)	7 (19)	27 (73)	1 (3)	0 (0)	15 (38)	21 (53)	3 (8)	0 (0)
liver			<37>				<33>				<37>				<40>			
	angiectasis		0 (0)	0 (0)	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)
	necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal		5 (14)	1 (3)	1 (3)	0 (0)	12 (36)	0 (0)	0 (0)	0 (0)	1 (3)	5 (14)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 * (0)
	necrosis:single cell		11 (30)	1 (3)	0 (0)	0 (0)	20 (61)	10 (30)	0 (0)	0 ** (0)	12 (32)	24 (65)	0 (0)	0 ** (0)	6 (15)	34 (85)	0 (0)	0 ** (0)
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

		Control No. of Animals on Study Grade				200 ppm 33				400 ppm 37				800 ppm 40			
Organ	Findings	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Digestive system]																	
liver		<37>				<33>				<37>				<40>			
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	14 (38)	0 (0)	0 (0)	0 (0)	29 (88)	0 (0)	0 (0)	0 (0)	36 (97)	0 (0)	0 (0)	0 (0)	39 (98)	1 (3)	0 (0)	0 (0)
	fibrosis:focal	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	clear cell focus	0 (0)	2 (5)	2 (5)	0 (0)	4 (12)	16 (48)	1 (3)	0 (0)	1 (3)	10 (27)	1 (3)	0 (0)	5 (13)	12 (30)	0 (0)	0 (0)
	acidophilic cell focus	1 (3)	0 (0)	0 (0)	0 (0)	2 (6)	13 (39)	17 (52)	0 (0)	1 (3)	14 (38)	17 (46)	0 (0)	1 (3)	19 (48)	16 (40)	0 (0)
	basophilic cell focus	2 (5)	1 (3)	1 (3)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	3 (8)	1 (3)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)
	vacuolated cell focus	0 (0)	1 (3)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	2 (5)	1 (3)	0 (0)	0 (0)	2 (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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	37				33				37				40			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
Liver			<37>				<33>				<37>				<40>			
	cholangiofibrosis		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)
	swelling:central		0	0	0	0	18	10	0	0 **	7	29	0	0 **	2	38	0	0 **
			(0)	(0)	(0)	(0)	(55)	(30)	(0)	(0)	(19)	(78)	(0)	(0)	(5)	(95)	(0)	(0)
	biliary cyst		1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(3)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	nuclear atypia:central		0	0	0	0	19	2	0	0 **	11	25	0	0 **	23	14	0	0 **
			(0)	(0)	(0)	(0)	(58)	(6)	(0)	(0)	(30)	(68)	(0)	(0)	(58)	(35)	(0)	(0)
gall bladd			<37>				<33>				<37>				<40>			
	cyst		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
pancreas			<37>				<33>				<37>				<40>			
	atrophy		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)
	necrosis:focal		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)	(3)	(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. : 0297
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				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney		<37>				<33>				<37>				<40>			
	infarct	1 (3)	0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
	hyaline droplet	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	basophilic change	3 (8)	1 (3)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)	4 (11)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)
	deposit of amyloid	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	2 (6)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ_____	Findings_____	Group Name No. of Animals on Study Grade				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	inflammatory polyp	<37>				<33>				<37>				<40>			
		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)	(3)	(3)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis	<37>				<33>				<37>				<40>			
		2	0	0	0	0	0	1	0	0	0	3	0	0	1	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(3)	(0)	(0)
urin bladd	lymphocytic infiltration	<37>				<33>				<37>				<40>			
		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)
[Endocrine system]																	
pituitary	cyst	<37>				<33>				<36>				<40>			
		4	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0
		(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	hyperplasia	<37>				<33>				<36>				<40>			
		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	Rathke pouch	<37>				<33>				<36>				<40>			
		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

		Group Name No. of Animals on Study Grade				Control 37				200 ppm 33				400 ppm 37				800 ppm 40			
Organ	Findings	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
[Endocrine system]																					
adrenal		<37>				<33>				<37>				<40>							
	spindle-cell hyperplasia	27 (73)	0 (0)	0 (0)	0 (0)	23 (70)	0 (0)	0 (0)	0 (0)	23 (62)	1 (3)	0 (0)	0 (0)	22 (55)	0 (0)	0 (0)	0 (0)				
	hyperplasia:cortical cell	8 (22)	0 (0)	0 (0)	0 (0)	5 (15)	1 (3)	0 (0)	0 (0)	2 (5)	4 (11)	0 (0)	0 * (0)	0 (0)	0 (0)	0 (0)	0 ** (0)				
	focal fatty change:cortex	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
[Reproductive system]																					
testis		<37>				<33>				<37>				<40>							
	atrophy	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	mineralization	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	interstitial cell hyperplasia	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	spermatogenic granuloma	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	37				33				37				40			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																		
testis	xanthogranuloma		<37>				<33>				<37>				<40>			
			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)
epididymis	lymphocytic infiltration		<37>				<33>				<37>				<40>			
			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)
	spermatogenic granuloma		3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	xanthogranuloma		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)
semin ves	cyst		<37>				<33>				<37>				<40>			
			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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	xanthogranuloma		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)
prostate	inflammation		<37>				<33>				<37>				<40>			
			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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 13

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	37				33				37				40			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Nervous system]																		
brain	mineralization		<37>				<33>				<37>				<40>			
		30	0	0	0	21	0	0	0	24	0	0	0	24	0	0	0	
			(81)	(0)	(0)	(0)	(64)	(0)	(0)	(0)	(65)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
[Special sense organs/appendage]																		
eye	cataract		<37>				<33>				<37>				<40>			
		4	0	0	0	4	0	0	0	3	0	0	0	6	0	0	0	
			(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
	retinal atrophy		<37>				<33>				<37>				<40>			
		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)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	keratitis		<37>				<33>				<37>				<40>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
	degeneration:cornea		<37>				<33>				<37>				<40>			
		0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	degeneration		<37>				<33>				<37>				<40>			
		0	0	0	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)

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ	Findings	Control No. of Animals on Study 37				200 ppm 33				400 ppm 37				800 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Special sense organs/appendage]

Harder gl	hyperplasia	<37>				<33>				<37>				<40>			
		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)

[Body cavities]

adipose	granulation	<37>				<33>				<37>				<40>			
		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)

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 J 4

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

		Group Name No. of Animals on Study Grade				Control 49				200 ppm 50				400 ppm 50				800 ppm 49			
Organ_____	Findings_____	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
[Integumentary system/appandage]																					
skin/app		<49>				<50>				<50>				<49>							
	inflammation	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)				
	hyperplasia:epidermis	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)				
	epidermal cyst	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
[Respiratory system]																					
nasal cavit		<49>				<49>				<50>				<49>							
	exudate	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)				
	polyp	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)				
	eosinophilic change:olfactory epithelium	8 (16)	0 (0)	1 (2)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	11 (22)	1 (2)	0 (0)	0 (0)	34 (69)	0 (0)	0 (0)	0 ** (0)				
	eosinophilic change:respiratory epithelium	20 (41)	17 (35)	3 (6)	0 (0)	28 (57)	17 (35)	0 (0)	0 (0)	30 (60)	8 (16)	1 (2)	0 (0)	32 (65)	16 (33)	0 (0)	0 ** (0)				

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavity		<49>				<49>				<50>				<49>			
	respiratory metaplasia:olfactory epithelium	1 (2)	0 (0)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 ** (0)	16 (32)	0 (0)	0 (0)	0 ** (0)	5 (10)	44 (90)	0 (0)	0 ** (0)
	respiratory metaplasia:gland	5 (10)	0 (0)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	20 (41)	0 (0)	0 (0)	0 ** (0)
	squamous cell metaplasia:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	necrosis:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	thickening of bone	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	44 (90)	2 (4)	0 (0)	0 ** (0)
nasopharynx		<49>				<49>				<50>				<49>			
	eosinophilic change	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)
lung		<49>				<50>				<50>				<49>			
	ectopic tissue	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
Lung		<49>				<50>				<50>				<49>			
	congestion	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)
	hemorrhage	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	edema	0 (0)	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)	1 (2)	0 (0)
	inflammatory infiltration	5 (10)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 * (0)
	granulation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	perivascular inflammation	1 (2)	2 (4)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	5 (10)	1 (2)	1 (2)	0 (0)
	bronchiolar-alveolar cell hyperplasia	0 (0)	1 (2)	1 (2)	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)

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
Lung		<49>				<50>				<50>				<49>			
	hyperplasia:epithelium,alveolar duct	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)
[Hematopoietic system]																	
bone marrow		<49>				<50>				<50>				<49>			
	necrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	granulation	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)
	myelofibrosis	3	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0
		(6)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	erythropoiesis:increased	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)
	granulopoiesis:increased	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)
	hyperplasia:vascular	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

		Group Name No. of Animals on Study Grade				Control 49				200 ppm 50				400 ppm 50				800 ppm 49			
Organ	Findings	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
[Hematopoietic system]																					
Lymph node	follicular hyperplasia	<49>				<50>				<50>				<49>							
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)				
spleen	atrophy	<49>				<50>				<50>				<49>							
		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)				
	deposit of hemosiderin	<49>				<50>				<50>				<49>							
		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	deposit of melanin	<49>				<50>				<50>				<49>							
		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)				
	fibrosis	<49>				<50>				<50>				<49>							
		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)				
extramedullary hematopoiesis	<49>				<50>				<50>				<49>								
	4 (8)	6 (12)	4 (8)	0 (0)	8 (16)	9 (18)	1 (2)	0 (0)	10 (20)	10 (20)	8 (16)	0 * (0)	11 (22)	11 (22)	0 (0)	0 * (0)					
follicular hyperplasia	<49>				<50>				<50>				<49>								
	2 (4)	2 (4)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)					
[Circulatory system]																					
heart	hemorrhage	<49>				<50>				<50>				<49>							
		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)				

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																	
heart		<49>				<50>				<50>				<49>			
	thrombus	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0
		(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	necrosis:focal	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	0	1	0	0	5	1	0	0	9	0	0	0 **	3	0	0	0
		(0)	(2)	(0)	(0)	(10)	(2)	(0)	(0)	(18)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	inflammatory cell nest	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
artery/aort		<49>				<50>				<50>				<49>			
	degeneration	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)
[Digestive system]																	
tooth		<49>				<50>				<50>				<49>			
	dysplasia	4	0	0	0	7	0	0	0	3	0	0	0	5	0	0	0
		(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
tongue	epidermal cyst	<49>				<50>				<50>				<49>			
		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)
salivary gl	lymphocytic infiltration	<49>				<50>				<50>				<49>			
		19	0	0	0	19	0	0	0	17	0	0	0	13	0	0	0
		(39)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(27)	(0)	(0)	(0)
stomach	arteritis	<49>				<50>				<49>				<49>			
		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)
	erosion:forestomach	<49>				<50>				<49>				<49>			
		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)	(4)	(0)	(0)	(0)
	hyperplasia:forestomach	<49>				<50>				<49>				<49>			
		1	1	0	0	1	1	0	0	0	0	0	0	2	1	0	0
		(2)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	erosion:glandular stomach	<49>				<50>				<49>				<49>			
		1	0	0	0	1	0	0	0	2	1	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:glandular stomach	<49>				<50>				<49>				<49>			
		14	32	0	0	20	28	0	0	21	24	1	0	20	26	0	0
		(29)	(65)	(0)	(0)	(40)	(56)	(0)	(0)	(43)	(49)	(2)	(0)	(41)	(53)	(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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 25

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
small intes	erosion	<49>				<50>				<50>				<49>			
		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)
large intes	erosion	<49>				<50>				<50>				<49>			
		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)
liver	angiectasis	<49>				<50>				<50>				<49>			
		1	1	1	0	0	2	0	0	1	1	0	0	0	0	0	0
		(2)	(2)	(2)	(0)	(0)	(4)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	1	1	0	0	0	1	1	0	1	2	0	0	1	1	0	0
		(2)	(2)	(0)	(0)	(0)	(2)	(2)	(0)	(2)	(4)	(0)	(0)	(2)	(2)	(0)	(0)
	necrosis:single cell	13	9	0	0	9	4	0	0	4	2	0	0 **	13	6	0	0
		(27)	(18)	(0)	(0)	(18)	(8)	(0)	(0)	(8)	(4)	(0)	(0)	(27)	(12)	(0)	(0)
	inflammatory infiltration	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(2)	(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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
Liver		<49>				<50>				<50>				<49>			
	lymphocytic infiltration	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	1 (2)	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)
	inflammatory cell nest	24 (49)	0 (0)	0 (0)	0 (0)	13 (26)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	17 (35)	1 (2)	1 (2)	0 (0)
	extramedullary hematopoiesis	1 (2)	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)
	clear cell focus	0 (0)	2 (4)	1 (2)	0 (0)	3 (6)	3 (6)	1 (2)	0 (0)	2 (4)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
	acidophilic cell focus	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	6 (12)	37 (74)	0 (0)	1 (2)	3 (6)	39 (78)	0 (0)	0 (0)	3 (6)	45 (92)	0 (0)
	basophilic cell focus	1 (2)	1 (2)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	3 (6)	2 (4)	2 (4)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)
	vacuolated cell focus	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 27

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver		<49>				<50>				<50>				<49>			
	spongiosis hepatis	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)
	bile ductular proliferation	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	swelling:central	2	0	0	0	9	2	0	0 *	4	1	0	0	7	9	0	0 **
		(4)	(0)	(0)	(0)	(18)	(4)	(0)	(0)	(8)	(2)	(0)	(0)	(14)	(18)	(0)	(0)
	biliary cyst	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)
	nuclear atypia:central	2	0	0	0	6	1	0	0	2	1	0	0	10	6	0	0 **
		(4)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(20)	(12)	(0)	(0)
gall bladd		<49>				<50>				<50>				<49>			
	cyst	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	eosinophilic change	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)
pancreas		<49>				<50>				<50>				<49>			
	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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 28

Organ	Findings	Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	49				50				50				49			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Urinary system]

kidney

infarct

1

0

0

0

(2)

(0)

(0)

(0)

0

0

0

0

(0)

(0)

(0)

(0)

3

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(6)

(0)

(0)

(0)

1

0

0

0

(2)

(0)

(0)

(0)

hydropic change

1

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0

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hyaline droplet

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13

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basophilic change

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deposit of hemosiderin

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inflammation

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lymphocytic infiltration

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3

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0

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(0)

(0)

2

0

0

0

(4)

(0)

(0)

(0)

1

0

0

0

(2)

(0)

(0)

(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 29

		Group Name No. of Animals on Study Grade				200 ppm 50				400 ppm 50				800 ppm 49			
Organ	Findings	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Urinary system]																	
kidney		<49>				<50>				<50>				<49>			
	inflammatory cell nest	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)
	inflammatory polyp	2 (4)	0 (0)	1 (2)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	hydronephrosis	1 (2)	2 (4)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)
	mineralization:papilla	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	glomerulosclerosis	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)
	urothelial hyperplasia:pelvis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
urin bladd		<49>				<50>				<50>				<49>			
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Endocrine system]																	
pituitary		<49>				<50>				<49>				<49>			
	angiectasis	2 (4)	1 (2)	0 (0)	0 (0)	3 (6)	4 (8)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : 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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 30

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary		<49>				<50>				<49>				<49>			
	cyst	2	0	0	0	5	1	0	0	5	0	0	0	6	0	0	0
		(4)	(0)	(0)	(0)	(10)	(2)	(0)	(0)	(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	hyperplasia	14	2	0	0	12	6	0	0	7	4	0	0	4	1	0	0 *
		(29)	(4)	(0)	(0)	(24)	(12)	(0)	(0)	(14)	(8)	(0)	(0)	(8)	(2)	(0)	(0)
	focal hypertrophy	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)
thyroid		<49>				<50>				<50>				<49>			
	inflammatory 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)
adrenal		<49>				<50>				<50>				<49>			
	angiectasis	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)
	necrosis:zonal	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)
	inflammatory infiltration	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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. : 0297
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 31

		Group Name No. of Animals on Study				200 ppm				400 ppm				800 ppm					
		Control 49				50				50				49					
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Endocrine system]																			
adrenal			<49>				<50>				<50>				<49>				
	extramedullary hematopoiesis		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
	spindle-cell hyperplasia		32 (65)	12 (24)	0 (0)	0 (0)	48 (96)	1 (2)	0 (0)	0 (0)	0 ** (0)	45 (90)	1 (2)	0 (0)	0 (0)	0 ** (0)	47 (96)	0 (0)	0 (0)
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	hyperplasia:medulla		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	accessory cortical nodule		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	focal fatty change:cortex		1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

[Reproductive system]

ovary			<49>				<49>				<49>				<49>			
	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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. : 0297
 ANIMAL : MOUSE C-j:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 32

Organ	Findings	Control No. of Animals on Study 49 Grade				200 ppm 50				400 ppm 50				800 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
ovary		<49>				<49>				<49>				<49>			
	thrombus	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(2)	(0)	(0)	(0)
	cyst	11	0	0	0	6	0	0	0	4	2	0	0	1	5	0	0 **
		(22)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(4)	(0)	(0)	(2)	(10)	(0)	(0)
uterus		<49>				<50>				<50>				<49>			
	thrombus	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia	28	6	0	0	24	10	1	0	29	4	0	0	33	0	0	0 *
		(57)	(12)	(0)	(0)	(48)	(20)	(2)	(0)	(58)	(8)	(0)	(0)	(67)	(0)	(0)	(0)
	xanthogranuloma	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)
mammary gl		<49>				<50>				<50>				<49>			
	hyperplasia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 33

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	49				50				50				49			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
[Reproductive system]																		
mammary gl			<49>				<50>				<50>				<49>			
	squamous cell metaplasia		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	atypical hyperplasia		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)
	galactocoele		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Nervous system]																		
brain			<49>				<50>				<50>				<49>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	mineralization		14 (29)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)	0 (0)	21 (43)	0 (0)	0 (0)	0 (0)
	arteritis		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)
[Special sense organs/appendage]																		
eye			<49>				<50>				<50>				<49>			
	cataract		1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	4 (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 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. : 0297
 ANIMAL : MOUSE Crl:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 34

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				200 ppm 50				400 ppm 50				800 ppm 49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																		
eye	keratitis		<49>				<50>				<50>				<49>			
			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)
	degeneration:cornea		2	0	0	0	1	0	0	0	1	0	0	0	3	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	ulcer:cornea		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)
Harder gl	granulation		<49>				<50>				<50>				<49>			
			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)
[Musculoskeletal system]																		
muscle	mineralization		<49>				<50>				<50>				<49>			
			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)
[Body cavities]																		
adipose	granulation		<49>				<50>				<50>				<49>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

APPENDIX J 5

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY,
MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
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	Control No. of Animals on Study Grade				200 ppm 20				400 ppm 29				800 ppm 27			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																	
skin/app		<20>				<20>				<29>				<27>			
	epidermal cyst	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Respiratory system]																	
nasal cavit		<20>				<20>				<29>				<27>			
	exudate	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium	3 (15)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	6 (21)	0 (0)	0 (0)	0 (0)	16 (59)	0 (0)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium	10 (50)	3 (15)	0 (0)	0 (0)	8 (40)	8 (40)	0 (0)	0 (0)	15 (52)	2 (7)	1 (3)	0 (0)	20 (74)	6 (22)	0 (0)	0 * (0)
	respiratory metaplasia:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	3 (15)	0 (0)	0 (0)	0 (0)	9 (31)	0 (0)	0 (0)	0 * (0)	4 (15)	23 (85)	0 (0)	0 ** (0)
	respiratory metaplasia:gland	2 (10)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	10 (37)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium	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 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
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	Control No. of Animals on Study Grade				200 ppm 20				400 ppm 29				800 ppm 27			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	necrosis:respiratory epithelium	<20>				<20>				<29>				<27>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thickening of bone	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(89)	(0)	(0)	(0)
lung	congestion	<20>				<20>				<29>				<27>			
		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)	(7)	(0)	(0)	(0)
	hemorrhage	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)
	edema	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(4)	(0)
	inflammatory infiltration	2	0	0	0	0	1	0	0	3	1	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(10)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	perivascular inflammation	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	accumulation of foamy cells	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(5)	(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 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. : 0297
 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	Control No. of Animals on Study Grade				200 ppm 20				400 ppm 29				800 ppm 27			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung		<20>				<20>				<29>				<27>			
	bronchiolar-alveolar cell hyperplasia	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(5)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:epithelium,alveolar duct	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)	(0)	(0)	(0)
[Hematopoietic system]																	
bone marrow		<20>				<20>				<29>				<27>			
	necrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	myelofibrosis	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)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased	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)
	granulopoiesis:increased	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)	(4)	(0)	(0)	(0)
	hyperplasia:vascular	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(5)	(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. : 0297
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				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	20				20				29				27			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			<20>				<20>				<29>				<27>			
	atrophy		2 (10)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		2 (10)	6 (30)	4 (20)	0 (0)	3 (15)	7 (35)	1 (5)	0 (0)	2 (7)	8 (28)	8 (28)	0 (0)	6 (22)	11 (41)	0 (0)	0 (0)
	follicular hyperplasia		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 (4)	0 (0)	0 (0)	0 (0)
[Circulatory system]																		
heart			<20>				<20>				<29>				<27>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	thrombus		0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Cj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	20				20				29				27			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																		
heart			<20>				<20>				<29>				<27>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization		0 (0)	1 (5)	0 (0)	0 (0)	5 (25)	1 (5)	0 (0)	0 (0)	9 (31)	0 (0)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)
	inflammatory cell nest		0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
artery/aort			<20>				<20>				<29>				<27>			
	degeneration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Digestive system]																		
tooth			<20>				<20>				<29>				<27>			
	dysplasia		1 (5)	0 (0)	0 (0)	0 (0)	5 (25)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)
salivary gl			<20>				<20>				<29>				<27>			
	lymphocytic infiltration		3 (15)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	5 (17)	0 (0)	0 (0)	0 (0)	3 (11)	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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	20				20				29				27			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
stomach			<20>				<20>				<28>				<27>			
	arteritis		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)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:forestomach		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)	(7)	(0)	(0)	(0)
	hyperplasia:forestomach		0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
	erosion:glandular stomach		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)	(4)	(0)	(0)	(0)	
	hyperplasia:glandular stomach		10	8	0	0	12	7	0	0	13	12	0	0	10	14	0	0
			(50)	(40)	(0)	(0)	(60)	(35)	(0)	(0)	(46)	(43)	(0)	(0)	(37)	(52)	(0)	(0)
small intes			<20>				<20>				<29>				<27>			
	erosion		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)	(0)	(0)	(0)
liver			<20>				<20>				<29>				<27>			
	angiectasis		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)

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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	Grade				Grade				Grade				Grade			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
Liver			<20>				<20>				<29>				<27>			
	necrosis:central		0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	1	0	0	0	0	1	0	0	1	0	0	1	1	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(3)	(0)	(0)	(4)	(4)	(0)	(0)
	necrosis:single cell		0	0	0	0	2	3	0	0	1	2	0	0	4	2	0	0
			(0)	(0)	(0)	(0)	(10)	(15)	(0)	(0)	(3)	(7)	(0)	(0)	(15)	(7)	(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)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
inflammatory cell nest		0	0	0	0	6	0	0	0 *	2	0	0	0	4	1	1	0	
		(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(15)	(4)	(4)	(0)	
clear cell focus		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	
acidophilic cell focus		0	0	0	0	0	3	11	0 **	1	3	20	0 **	0	3	23	0 **	
		(0)	(0)	(0)	(0)	(0)	(15)	(55)	(0)	(3)	(10)	(69)	(0)	(0)	(11)	(85)	(0)	
basophilic cell focus		0	0	0	0	1	1	0	0	2	1	1	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(7)	(3)	(3)	(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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 21

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 20				400 ppm 29				800 ppm 27			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver		<20>				<20>				<29>				<27>			
	vacuolated cell focus	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bile ductular proliferation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	swelling:central	0 (0)	0 (0)	0 (0)	0 (0)	3 (15)	1 (5)	0 (0)	0 (0)	2 (7)	1 (3)	0 (0)	0 (0)	3 (11)	3 (11)	0 (0)	0 (0)
	biliary cyst	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	nuclear atypia:central	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	4 (15)	4 (15)	0 (0)	0 * (0)
[Urinary system]																	
kidney		<20>				<20>				<29>				<27>			
	hyaline droplet	11 (55)	0 (0)	0 (0)	0 (0)	10 (50)	1 (5)	0 (0)	0 (0)	15 (52)	0 (0)	0 (0)	0 (0)	10 (37)	0 (0)	0 (0)	0 (0)
	basophilic change	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	2 (7)	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade				Control 20				200 ppm 20				400 ppm 29				800 ppm 27			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
[Urinary system]																					
kidney		<20>				<20>				<29>				<27>							
	deposit of hemosiderin	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	hyaline cast	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)				
	inflammation	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	lymphocytic infiltration	2 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	inflammatory polyp	1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)				
	hydronephrosis	1 (5)	0 (0)	1 (5)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	1 (4)	0 (0)				
	glomerulosclerosis	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)					
urin bladd		<20>				<20>				<29>				<27>							
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 20				400 ppm 29				800 ppm 27			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary		<20>				<20>				<28>				<27>			
	angiectasis	1 (5)	1 (5)	0 (0)	0 (0)	1 (5)	2 (10)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	3 (15)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)
	hyperplasia	1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	1 (4)	1 (4)	0 (0)	0 (0)
adrenal		<20>				<20>				<29>				<27>			
	necrosis:zonal	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 (4)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis	1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)
	spindle-cell hyperplasia	14 (70)	2 (10)	0 (0)	0 (0)	19 (95)	0 (0)	0 (0)	0 (0)	25 (86)	0 (0)	0 (0)	0 (0)	26 (96)	0 (0)	0 (0)	0 * (0)
	hyperplasia:cortical cell	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

		Group Name No. of Animals on Study Grade	Control 20				200 ppm 20				400 ppm 29				800 ppm 27			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Endocrine system]																		
adrenal	hyperplasia:medulla		<20>				<20>				<29>				<27>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Reproductive system]																		
ovary	thrombus		<20>				<19>				<29>				<27>			
			0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (4)	3 (11)	0 (0)	0 (0)
uterus	cystic endometrial hyperplasia		<20>				<20>				<29>				<27>			
			8 (40)	0 (0)	0 (0)	0 (0)	10 (50)	2 (10)	0 (0)	0 (0)	13 (45)	1 (3)	0 (0)	0 (0)	12 (44)	0 (0)	0 (0)	0 (0)
	xanthogranuloma		0 (0)	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 (7)	0 (0)	0 (0)
mammary gl	squamous cell metaplasia		<20>				<20>				<29>				<27>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				200 ppm 20				400 ppm 29				800 ppm 27			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Reproductive system]																		
mammary gl	galactoceles		<20>				<20>				<29>				<27>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
[Nervous system]																		
brain	hemorrhage		<20>				<20>				<29>				<27>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	mineralization		<20>				<20>				<29>				<27>			
		3 (15)	0 (0)	0 (0)	0 (0)	5 (25)	0 (0)	0 (0)	0 (0)	10 (34)	0 (0)	0 (0)	0 (0)	8 (30)	0 (0)	0 (0)	0 (0)	
	arteritis		<20>				<20>				<29>				<27>			
		0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
[Special sense organs/appendage]																		
eye	cataract		<20>				<20>				<29>				<27>			
		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 (4)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				200 ppm 20				400 ppm 29				800 ppm 27			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																		
eye	degeneration:cornea		<20>				<20>				<29>				<27>			
			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:cornea		<20>				<20>				<29>				<27>			
			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)
[Musculoskeletal system]																		
muscle	mineralization		<20>				<20>				<29>				<27>			
			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)
[Body cavities]																		
adipose	granulation		<20>				<20>				<29>				<27>			
			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)	(4)	(0)	(0)	(0)

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

(HPT150)

BAIS3

APPENDIX J 6

HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY,
MOUSE: FEMALE: SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 29				200 ppm 30				400 ppm 21				800 ppm 22			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																		
skin/app			<29>				<30>				<21>				<22>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:epidermis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Respiratory system]																		
nasal cavit			<29>				<29>				<21>				<22>			
	exudate		0 (0)	0 (0)	0 (0)	0 (0)	3 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
	polyp		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		5 (17)	0 (0)	1 (3)	0 (0)	9 (31)	0 (0)	0 (0)	0 (0)	5 (24)	1 (5)	0 (0)	0 (0)	18 (82)	0 (0)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium		10 (34)	14 (48)	3 (10)	0 (0)	20 (69)	9 (31)	0 (0)	0 * (0)	15 (71)	6 (29)	0 (0)	0 * (0)	12 (55)	10 (45)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		1 (3)	0 (0)	0 (0)	0 (0)	9 (31)	0 (0)	0 (0)	0 * (0)	7 (33)	0 (0)	0 (0)	0 * (0)	1 (5)	21 (95)	0 (0)	0 ** (0)

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

STUDY NO. : 0297
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				200 ppm 30				400 ppm 21				800 ppm 22			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavity	respiratory metaplasia:gland	<29>				<29>				<21>				<22>			
		3	0	0	0	3	1	0	0	4	0	0	0	10	0	0	0 *
		(10)	(0)	(0)	(0)	(10)	(3)	(0)	(0)	(19)	(0)	(0)	(0)	(45)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium	0	0	0	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)	(5)	(0)	(0)	(0)
	necrosis:respiratory epithelium	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	thickening of bone	0	0	0	0	0	0	0	0	0	0	0	0	20	2	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(91)	(9)	(0)	(0)
nasopharynx	eosinophilic change	<29>				<29>				<21>				<22>			
		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung	ectopic tissue	<29>				<30>				<21>				<22>			
		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)	(5)	(0)	(0)
	hemorrhage	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE C-rj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 29				200 ppm 30				400 ppm 21				800 ppm 22			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Respiratory system]

Lung			<29>				<30>				<21>				<22>			
	inflammatory infiltration		3 (10)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		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 (5)	0 (0)	0 (0)	0 (0)
	perivascular inflammation		1 (3)	2 (7)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	3 (14)	1 (5)	1 (5)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:epithelium,alveolar duct		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

[Hematopoietic system]

bone marrow			<29>				<30>				<21>				<22>			
	granulation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0297
ANIMAL : MOUSE C₃H/BDF₁
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

Organ_____	Findings_____	Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	29				30				21				22			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
bone marrow			<29>				<30>				<21>				<22>			
	myelofibrosis		3 (10)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)
	erythropoiesis:increased		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Lymph node			<29>				<30>				<21>				<22>			
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)
spleen			<29>				<30>				<21>				<22>			
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of melanin		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
	fibrosis		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		2 (7)	0 (0)	0 (0)	0 (0)	5 (17)	2 (7)	0 (0)	0 (0)	8 (38)	2 (10)	0 (0)	0 (0) **	5 (23)	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. : 0297
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 29				200 ppm 30				400 ppm 21				800 ppm 22			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
. [Hematopoietic system]																		
spleen	follicular hyperplasia		<29>				<30>				<21>				<22>			
			2	2	0	0	1	2	0	0	0	1	0	0	0	0	0	0
			(7)	(7)	(0)	(0)	(3)	(7)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
[Circulatory system]																		
heart	thrombus		<29>				<30>				<21>				<22>			
			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)
[Digestive system]																		
tooth	dysplasia		<29>				<30>				<21>				<22>			
			3	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(9)	(0)	(0)	(0)
tongue	epidermal cyst		<29>				<30>				<21>				<22>			
			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)
salivary gl	lymphocytic infiltration		<29>				<30>				<21>				<22>			
			16	0	0	0	17	0	0	0	12	0	0	0	10	0	0	0
			(55)	(0)	(0)	(0)	(57)	(0)	(0)	(0)	(57)	(0)	(0)	(0)	(45)	(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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 30				400 ppm 21				800 ppm 22			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Digestive system]																	
stomach		<29>				<30>				<21>				<22>			
	hyperplasia:forestomach	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	1 (5)	0 (0)	0 (0)
	erosion:glandular stomach	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (10)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:glandular stomach	4 (14)	24 (83)	0 (0)	0 (0)	8 (27)	21 (70)	0 (0)	0 (0)	8 (38)	12 (57)	1 (5)	0 (0)	10 (45)	12 (55)	0 (0)	0 * (0)
Large intes		<29>				<30>				<21>				<22>			
	erosion	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Liver		<29>				<30>				<21>				<22>			
	angiectasis	1 (3)	1 (3)	1 (3)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (5)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:single cell	13 (45)	9 (31)	0 (0)	0 (0)	7 (23)	1 (3)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	9 (41)	4 (18)	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 21

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 30				400 ppm 21				800 ppm 22			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
Liver		<29>				<30>				<21>				<22>			
	inflammatory infiltration	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)
	Lymphocytic infiltration	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	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)	(0)	(0)	(0)	(0)
	inflammatory cell nest	24	0	0	0	7	0	0	0 **	2	0	0	0 **	13	0	0	0
		(83)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(59)	(0)	(0)	(0)
	extramedullary hematopoiesis	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	clear cell focus	0	2	1	0	3	3	1	0	2	1	1	0	0	1	0	0
		(0)	(7)	(3)	(0)	(10)	(10)	(3)	(0)	(10)	(5)	(5)	(0)	(0)	(5)	(0)	(0)
	acidophilic cell focus	0	1	0	0	0	3	26	0 **	0	0	19	0 **	0	0	22	0 **
		(0)	(3)	(0)	(0)	(0)	(10)	(87)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(100)	(0)
	basophilic cell focus	1	1	0	0	4	1	0	0	1	1	1	0	0	2	0	0
		(3)	(3)	(0)	(0)	(13)	(3)	(0)	(0)	(5)	(5)	(5)	(0)	(0)	(9)	(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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 29				200 ppm 30				400 ppm 21				800 ppm 22			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver																		
	vacuolated cell focus		<29>				<30>				<21>				<22>			
			0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spongiosis hepatitis		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)
	bile ductular proliferation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	swelling:central		2	0	0	0	6	1	0	0	2	0	0	0	4	6	0	0 **
			(7)	(0)	(0)	(0)	(20)	(3)	(0)	(0)	(10)	(0)	(0)	(0)	(18)	(27)	(0)	(0)
	nuclear atypia:central		2	0	0	0	6	0	0	0	1	0	0	0	6	2	0	0 *
			(7)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(27)	(9)	(0)	(0)
gall bladd																		
	cyst		<29>				<30>				<21>				<22>			
			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)	(5)	(0)	(0)	(0)
	eosinophilic change		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)
pancreas																		
	lymphocytic infiltration		<29>				<30>				<21>				<22>			
			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)	(5)	(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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 30				400 ppm 21				800 ppm 22			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney		<29>				<30>				<21>				<22>			
	infarct	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
	hydropic change	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyaline droplet	0 (0)	0 (0)	0 (0)	0 (0)	3 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	basophilic change	1 (3)	1 (3)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	1 (5)	1 (5)	0 (0)	0 (0)	4 (18)	0 (0)	0 (0)	0 (0)
	hyaline cast	1 (3)	0 (0)	0 (0)	0 (0)	9 (30)	0 (0)	0 (0)	0 (0) *	4 (19)	0 (0)	0 (0)	0 (0)	2 (9)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration	5 (17)	0 (0)	0 (0)	0 (0)	3 (10)	1 (3)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	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 (5)	0 (0)	0 (0)	0 (0)
	inflammatory polyp	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 24

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	29				30				21				22			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																		
kidney			<29>				<30>				<21>				<22>			
	hydronephrosis		0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Endocrine system]																		
pituitary			<29>				<30>				<21>				<22>			
	angiectasis		1 (3)	0 (0)	0 (0)	0 (0)	2 (7)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		2 (7)	0 (0)	0 (0)	0 (0)	2 (7)	1 (3)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)
	hyperplasia		13 (45)	2 (7)	0 (0)	0 (0)	11 (37)	6 (20)	0 (0)	0 (0)	5 (24)	4 (19)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)
	focal hypertrophy		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Control No. of Animals on Study Grade				200 ppm 30				400 ppm 21				800 ppm 22			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
thyroid		<29>				<30>				<21>				<22>			
	inflammatory 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)	(5)	(0)	(0)	(0)
adrenal		<29>				<30>				<21>				<22>			
	angiectasis	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)	(5)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia	18	10	0	0	29	1	0	0 **	20	1	0	0 *	21	0	0	0 **
		(62)	(34)	(0)	(0)	(97)	(3)	(0)	(0)	(95)	(5)	(0)	(0)	(95)	(0)	(0)	(0)
	hyperplasia:cortical cell	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:medulla	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accessory cortical nodule	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name No. of Animals on Study Control 29				200 ppm 30				400 ppm 21				800 ppm 22			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
adrenal		<29>				<30>				<21>				<22>			
	focal fatty change:cortex	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(3)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Reproductive system]																	
ovary		<29>				<30>				<20>				<22>			
	angiectasis	0	0	0	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)	(5)	(0)	(0)	(0)
	thrombus	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(5)	(0)	(0)	(0)
	cyst	10	0	0	0	5	0	0	0	4	1	0	0	0	2	0	0 **
		(34)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(20)	(5)	(0)	(0)	(0)	(9)	(0)	(0)
uterus		<29>				<30>				<21>				<22>			
	thrombus	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(3)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 27

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	29				30				21				22			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																		
uterus			<29>				<30>				<21>				<22>			
	cystic endometrial hyperplasia		20 (69)	6 (21)	0 (0)	0 (0)	14 (47)	8 (27)	1 (3)	0 (0)	16 (76)	3 (14)	0 (0)	0 (0)	21 (95)	0 (0)	0 (0)	0 * (0)
	xanthogranuloma		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)
mammary gl			<29>				<30>				<21>				<22>			
	hyperplasia		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	atypical hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	galactoceles		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Nervous system]																		
brain			<29>				<30>				<21>				<22>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 28

		Group Name	Control				200 ppm				400 ppm				800 ppm			
		No. of Animals on Study	29				30				21				22			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Nervous system]																		
brain																		
	mineralization		<29>				<30>				<21>				<22>			
			11	0	0	0	13	0	0	0	12	0	0	0	13	0	0	0
			(38)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	(57)	(0)	(0)	(0)	(59)	(0)	(0)	(0)
[Special sense organs/appendage]																		
eye																		
	cataract		<29>				<30>				<21>				<22>			
			1	0	0	0	3	0	0	0	1	0	0	0	3	0	0	0
			(3)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	keratitis		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)
	degeneration:cornea		2	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(9)	(0)	(0)	(0)
Harder gl																		
	granulation		<29>				<30>				<21>				<22>			
			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)

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 K 1

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crl: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	200 ppm	400 ppm	800 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	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	3	1	3
	NO. OF ANIMALS WITH TUMORS		0	2	1	2
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	1	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	1	0	0
	NO. OF BENIGN TUMORS		0	3	0	0
	NO. OF MALIGNANT TUMORS		0	1	1	2
	NO. OF TOTAL TUMORS		0	4	1	2
79 - 104	NO. OF EXAMINED ANIMALS		9	14	11	6
	NO. OF ANIMALS WITH TUMORS		9	14	11	6
	NO. OF ANIMALS WITH SINGLE TUMORS		5	6	2	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	8	9	5
	NO. OF BENIGN TUMORS		2	10	9	5
	NO. OF MALIGNANT TUMORS		12	16	16	9
	NO. OF TOTAL TUMORS		14	26	25	14
105 - 105	NO. OF EXAMINED ANIMALS		37	33	37	40
	NO. OF ANIMALS WITH TUMORS		18	32	36	40
	NO. OF ANIMALS WITH SINGLE TUMORS		13	11	15	18
	NO. OF ANIMALS WITH MULTIPLE TUMORS		5	21	21	22
	NO. OF BENIGN TUMORS		12	40	43	48
	NO. OF MALIGNANT TUMORS		11	27	25	22
	NO. OF TOTAL TUMORS		23	67	68	70

STUDY NO. : 0297
ANIMAL : MOUSE G-j: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	200 ppm	400 ppm	800 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	49	50
	NO. OF ANIMALS WITH TUMORS		27	48	48	48
	NO. OF ANIMALS WITH SINGLE TUMORS		18	18	18	21
	NO. OF ANIMALS WITH MULTIPLE TUMORS		9	30	30	27
	NO. OF BENIGN TUMORS		14	53	52	53
	NO. OF MALIGNANT TUMORS		23	44	42	33
	NO. OF TOTAL TUMORS		37	97	94	86

(HPT070)

BAIS3

APPENDIX K 2

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

STUDY NO. : 0297
 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	200 ppm	400 ppm	800 ppm
0 - 52	NO. OF EXAMINED ANIMALS		2	0	0	1
	NO. OF ANIMALS WITH TUMORS		1	0	0	1
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	1
	NO. OF BENIGN TUMORS		0	0	0	1
	NO. OF MALIGNANT TUMORS		1	0	0	1
	NO. OF TOTAL TUMORS		1	0	0	2
53 - 78	NO. OF EXAMINED ANIMALS		4	5	4	3
	NO. OF ANIMALS WITH TUMORS		3	5	4	3
	NO. OF ANIMALS WITH SINGLE TUMORS		2	2	0	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	3	4	2
	NO. OF BENIGN TUMORS		2	3	5	3
	NO. OF MALIGNANT TUMORS		3	6	6	3
	NO. OF TOTAL TUMORS		5	9	11	6
79 - 104	NO. OF EXAMINED ANIMALS		14	15	25	23
	NO. OF ANIMALS WITH TUMORS		11	15	25	23
	NO. OF ANIMALS WITH SINGLE TUMORS		10	5	1	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	10	24	22
	NO. OF BENIGN TUMORS		0	17	28	25
	NO. OF MALIGNANT TUMORS		12	18	39	31
	NO. OF TOTAL TUMORS		12	35	67	56
105 - 105	NO. OF EXAMINED ANIMALS		29	30	21	22
	NO. OF ANIMALS WITH TUMORS		22	30	21	22
	NO. OF ANIMALS WITH SINGLE TUMORS		12	4	2	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		10	26	19	16
	NO. OF BENIGN TUMORS		17	48	33	24
	NO. OF MALIGNANT TUMORS		18	34	23	20
	NO. OF TOTAL TUMORS		35	82	56	44

STUDY NO. : 0297
ANIMAL : MOUSE C₃H/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	200 ppm	400 ppm	800 ppm
0 - 105	NO. OF EXAMINED ANIMALS		49	50	50	49
	NO. OF ANIMALS WITH TUMORS		37	50	50	49
	NO. OF ANIMALS WITH SINGLE TUMORS		25	11	3	8
	NO. OF ANIMALS WITH MULTIPLE TUMORS		12	39	47	41
	NO. OF BENIGN TUMORS		19	68	66	53
	NO. OF MALIGNANT TUMORS		34	58	68	55
	NO. OF TOTAL TUMORS		53	126	134	108

(HPT070)

BAIS3

APPENDIX L 1

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE

(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE C₇: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	200 ppm 50	400 ppm 49	800 ppm 50
[Integumentary system/appandage]						
skin/app			<50>	<50>	<49>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
subcutis			<50>	<50>	<49>	<50>
	lipoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	xanthoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	schwannoma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
[Respiratory system]						
lung			<50>	<50>	<49>	<50>
	bronchiolar-alveolar adenoma		2 (4%)	7 (14%)	4 (8%)	7 (14%)
	bronchiolar-alveolar carcinoma		8 (16%)	6 (12%)	3 (6%)	2 (4%)
[Hematopoietic system]						
lymph node			<50>	<50>	<49>	<50>
	malignant lymphoma		4 (8%)	4 (8%)	7 (14%)	4 (8%)
	mastcytoma:malignant		1 (2%)	1 (2%)	2 (4%)	0 (0%)
spleen			<50>	<50>	<49>	<50>
	hemangioma		1 (2%)	2 (4%)	0 (0%)	0 (0%)

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

(HPT085)

BAIS3

STUDY NO. : 0297
ANIMAL : MOUSE Crl: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	200 ppm 50	400 ppm 49	800 ppm 50
[Hematopoietic system]						
spleen	malignant lymphoma		<50> 1 (2%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
	hemangiosarcoma		3 (6%)	1 (2%)	0 (0%)	1 (2%)
[Circulatory system]						
heart	sarcoma:NOS		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
[Digestive system]						
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)	<50> 1 (2%)
stomach	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	neuroendocrine cell tumor:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
small intes	adenoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
liver	hemangioma		<50> 1 (2%)	<50> 2 (4%)	<49> 0 (0%)	<50> 1 (2%)
	hepatocellular adenoma		6 (12%)	36 (72%)	41 (84%)	41 (82%)
	histiocytic sarcoma		0 (0%)	2 (4%)	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

(HPT085)

BAIS3

STUDY NO. : 0297
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	200 ppm 50	400 ppm 49	800 ppm 50
[Digestive system]						
liver	hemangiosarcoma		<50> 2 (4%)	<50> 2 (4%)	<49> 0 (0%)	<50> 0 (0%)
	hepatocellular carcinoma		2 (4%)	12 (24%)	16 (33%)	16 (32%)
	hepatoblastoma		0 (0%)	13 (26%)	7 (14%)	4 (8%)
pancreas	islet cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
	islet cell adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
[Urinary system]						
kidney	renal cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
[Endocrine system]						
pituitary	adenoma		<50> 1 (2%)	<50> 0 (0%)	<48> 1 (2%)	<50> 0 (0%)
thyroid	C-cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<48> 0 (0%)	<50> 1 (2%)
adrenal	pheochromocytoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 0 (0%)
	cortical adenoma		1 (2%)	2 (4%)	0 (0%)	0 (0%)
[Reproductive system]						
testis	interstitial cell tumor		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<49> 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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	200 ppm 50	400 ppm 49	800 ppm 50
[Reproductive system]						
prep/cli gl	adenoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
[Nervous system]						
periph nerv	histiocytic sarcoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
[Special sense organs/appendage]						
Harder gl	adenoma		<50> 0 (0%)	<50> 1 (2%)	<49> 1 (2%)	<50> 2 (4%)
	adenocarcinoma		<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)	<50> 0 (0%)
[Body cavities]						
peritoneum	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)	<50> 2 (4%)

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

(HPT085)

BAIS3

APPENDIX L 2

HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY NO. : 0297
 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 49	200 ppm 50	400 ppm 50	800 ppm 49
[Integumentary system/appandage]						
subcutis			<49>	<50>	<50>	<49>
	myxoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hemangioma		0 (0%)	3 (6%)	1 (2%)	0 (0%)
	leiomyosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	schwannoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangiosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
[Respiratory system]						
lung			<49>	<50>	<50>	<49>
	bronchiolar-alveolar adenoma		5 (10%)	2 (4%)	4 (8%)	1 (2%)
	bronchiolar-alveolar carcinoma		1 (2%)	2 (4%)	2 (4%)	0 (0%)
[Hematopoietic system]						
bone marrow			<49>	<50>	<50>	<49>
	hemangioma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	hemangiosarcoma		0 (0%)	1 (2%)	1 (2%)	1 (2%)
lymph node			<49>	<50>	<50>	<49>
	hemangioma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
	malignant lymphoma		13 (27%)	9 (18%)	7 (14%)	3 (6%)

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

STUDY NO. : 0297
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 49	200 ppm 50	400 ppm 50	800 ppm 49
[Hematopoietic system]						
Lymph node	hemangiosarcoma		<49> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)
thymus	malignant lymphoma		<49> 2 (4%)	<50> 1 (2%)	<50> 1 (2%)	<49> 0 (0%)
spleen	hemangioma		<49> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	malignant lymphoma		0 (0%)	2 (4%)	1 (2%)	0 (0%)
	hemangiosarcoma		1 (2%)	0 (0%)	3 (6%)	3 (6%)
[Digestive system]						
stomach	squamous cell papilloma		<49> 1 (2%)	<50> 0 (0%)	<49> 1 (2%)	<49> 0 (0%)
	mastcytoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
small intes	adenocarcinoma		<49> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
liver	hemangioma		<49> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<49> 3 (6%)
	hepatocellular adenoma		1 (2%)	42 (84%)	47 (94%)	48 (98%)
	histiocytic sarcoma		1 (2%)	1 (2%)	4 (8%)	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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
[Digestive system]						
liver	hepatocellular carcinoma		<49> 3 (6%)	<50> 25 (50%)	<50> 32 (64%)	<49> 35 (71%)
	hepatoblastoma		0 (0%)	0 (0%)	4 (8%)	0 (0%)
pancreas	hemangioma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)
[Urinary system]						
urin bladd	hemangioma		<49> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<49> 0 (0%)
[Endocrine system]						
pituitary	adenoma		<49> 7 (14%)	<50> 9 (18%)	<49> 6 (12%)	<49> 0 (0%)
	hemangiosarcoma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)
[Reproductive system]						
ovary	cystadenoma		<49> 0 (0%)	<49> 1 (2%)	<49> 1 (2%)	<49> 0 (0%)
	endometrial stromal polyp		<49> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)	<49> 0 (0%)
uterus	leiomyosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	histiocytic sarcoma		10 (20%)	12 (24%)	11 (22%)	6 (12%)

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
[Reproductive system]						
uterus	endometrial stromal sarcoma		<49> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)
vagina	xanthoma		<49> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)
mammary gl	adenoma		<49> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<49> 0 (0%)
	adenocanthoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
[Nervous system]						
brain	meningioma:malignant		<49> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)
periph nerv	schwannoma:malignant		<49> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<49> 1 (2%)
[Special sense organs/appendage]						
Harder gl	adenoma		<49> 1 (2%)	<50> 4 (8%)	<50> 1 (2%)	<49> 1 (2%)
	adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
[Musculoskeletal system]						
bone	osteosarcoma		<49> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<49> 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. : 0297
ANIMAL : MOUSE Crl:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
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[Body cavities]

peritoneum	histiocytic sarcoma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<49> 0 (0%)
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< a > a : Number of animals examined at the site
b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS3

APPENDIX M 1

NEOPLASTIC LESIONS - INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: MALE

(2-YEAR STUDY)

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	7/50(14.0)	4/49(8.2)	7/50(14.0)
Adjusted rates(b)	5.41	16.22	10.81	17.50
Terminal rates(c)	2/37(5.4)	5/33(15.2)	4/37(10.8)	7/40(17.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1271			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2019			
Fisher Exact test(e)		P = 0.0798	P = 0.3292	P = 0.0798
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	6/50(12.0)	3/49(6.1)	2/50(4.0)
Adjusted rates(b)	17.50	15.15	6.52	2.22
Terminal rates(c)	6/37(16.2)	5/33(15.2)	1/37(2.7)	0/40(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5409			
Prevalence method(d)	P = 0.9932			
Combined analysis(d)	P = 0.9889			
Cochran-Armitage test(e)	P = 0.0314*			
Fisher Exact test(e)		P = 0.3871	P = 0.1061	P = 0.0458*
SITE : lung TUMOR : bronchiolar-alveolar adenoma,bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	13/50(26.0)	7/49(14.3)	9/50(18.0)
Adjusted rates(b)	22.50	30.56	15.22	17.78
Terminal rates(c)	8/37(21.6)	10/33(30.3)	5/37(13.5)	7/40(17.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5409			
Prevalence method(d)	P = 0.7550			
Combined analysis(d)	P = 0.7596			
Cochran-Armitage test(e)	P = 0.5310			
Fisher Exact test(e)		P = 0.3176	P = 0.3137	P = 0.5000

(HPT360A)

BAIS3

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	4/50(8.0)	7/49(14.3)	4/50(8.0)
Adjusted rates(b)	8.11	3.03	13.51	7.50
Terminal rates(c)	3/37(8.1)	1/33(3.0)	5/37(13.5)	3/40(7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6376			
Prevalence method(d)	P = 0.4013			
Combined analysis(d)	P = 0.5142			
Cochran-Armitage test(e)	P = 0.8998			
Fisher Exact test(e)		P = 0.3575	P = 0.2505	P = 0.3575
SITE : spleen TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/49(0.0)	1/50(2.0)
Adjusted rates(b)	2.44	3.03	0.0	2.50
Terminal rates(c)	0/37(0.0)	1/33(3.0)	0/37(0.0)	1/40(2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9761 ?			
Prevalence method(d)	P = 0.5435			
Combined analysis(d)	P = 0.8844			
Cochran-Armitage test(e)	P = 0.2527			
Fisher Exact test(e)		P = 0.3087	P = 0.1250	P = 0.3087
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	36/50(72.0)	41/49(83.7)	41/50(82.0)
Adjusted rates(b)	14.63	90.91	90.91	93.18
Terminal rates(c)	5/37(13.5)	30/33(90.9)	33/37(89.2)	37/40(92.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6009			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P < 0.0001**	P < 0.0001**	P < 0.0001**

STUDY No. : 0297
 ANIMAL : MOUSE Crj:BDF1
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	12/50(24.0)	16/49(32.7)	16/50(32.0)
Adjusted rates(b)	2.70	20.45	32.56	33.33
Terminal rates(c)	1/37(2.7)	6/33(18.2)	12/37(32.4)	12/40(30.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4283			
Prevalence method(d)	P = 0.0011**			
Combined analysis(d)	P = 0.0026**			
Cochran-Armitage test(e)	P = 0.0018**			
Fisher Exact test(e)		P = 0.0038**	P = 0.0002**	P = 0.0002**
SITE : liver TUMOR : hepatoblastoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	13/50(26.0)	7/49(14.3)	4/50(8.0)
Adjusted rates(b)	0.0	33.33	7.89	10.00
Terminal rates(c)	0/37(0.0)	11/33(33.3)	2/37(5.4)	4/40(10.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3799			
Prevalence method(d)	P = 0.5378			
Combined analysis(d)	P = 0.4857			
Cochran-Armitage test(e)	P = 0.8798			
Fisher Exact test(e)		P < 0.0001**	P = 0.0058**	P = 0.0587

(HPT360A)

BAIS3

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : liver				
TUMOR : hepatocellular adenoma, hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	42/50(84.0)	46/49(93.9)	44/50(88.0)
Adjusted rates(b)	17.07	93.94	95.12	97.67
Terminal rates(c)	6/37(16.2)	31/33(93.9)	35/37(94.6)	39/40(97.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4412			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P < 0.0001**	P < 0.0001**	P < 0.0001**

(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 : * : $P \leq 0.05$ ** : $P \leq 0.01$

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	0/49(0.0)	1/50(2.0)
Adjusted rates(b)	5.41	10.00	0.0	2.50
Terminal rates(c)	2/37(5.4)	2/33(6.1)	0/37(0.0)	1/40(2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8787			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2710			
Fisher Exact test(e)		P = 0.3389	P = 0.2525	P = 0.5000
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	4/50(8.0)	3/49(6.1)	4/50(8.0)
Adjusted rates(b)	0.0	0.0	2.70	2.50
Terminal rates(c)	0/37(0.0)	0/33(0.0)	1/37(2.7)	1/40(2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1922			
Prevalence method(d)	P = 0.1540			
Combined analysis(d)	P = 0.1057			
Cochran-Armitage test(e)	P = 0.1570			
Fisher Exact test(e)		P = 0.0587	P = 0.1175	P = 0.0587
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	4/50(8.0)	8/49(16.3)	4/50(8.0)
Adjusted rates(b)	8.11	3.03	16.22	7.50
Terminal rates(c)	3/37(8.1)	1/33(3.0)	6/37(16.2)	3/40(7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7781			
Prevalence method(d)	P = 0.3914			
Combined analysis(d)	P = 0.6090			
Cochran-Armitage test(e)	P = 0.9103			
Fisher Exact test(e)		P = 0.5000	P = 0.2635	P = 0.5000

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	0/49(0.0)	2/50(4.0)
Adjusted rates(b)	2.50	9.09	0.0	5.00
Terminal rates(c)	0/37(0.0)	3/33(9.1)	0/37(0.0)	2/40(5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9980			
Prevalence method(d)	P = 0.4782			
Combined analysis(d)	P = 0.9380			
Cochran-Armitage test(e)	P = 0.1557			
Fisher Exact test(e)		P = 0.3575	P = 0.0296*	P = 0.2180

(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 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 : * : $P \leq 0.05$ ** : $P \leq 0.01$

APPENDIX M 2

NEOPLASTIC LESIONS - INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: FEMALE

(2-YEAR STUDY)

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : subcutis TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/49(0.0)	3/50(6.0)	1/50(2.0)	0/49(0.0)
Adjusted rates(b)	0.0	8.11	4.76	0.0
Terminal rates(c)	0/29(0.0)	0/30(0.0)	1/21(4.8)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7157			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4949			
Fisher Exact test(e)		P = 0.1250	P = 0.4949	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	5/49(10.2)	2/50(4.0)	4/50(8.0)	1/49(2.0)
Adjusted rates(b)	13.79	6.67	10.34	3.33
Terminal rates(c)	4/29(13.8)	2/30(6.7)	2/21(9.5)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9271			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1586			
Fisher Exact test(e)		P = 0.2096	P = 0.4870	P = 0.1021
SITE : lung TUMOR : bronchiolar-alveolar adenoma,bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	6/49(12.2)	4/50(8.0)	6/50(12.0)	1/49(2.0)
Adjusted rates(b)	17.24	10.00	18.18	3.33
Terminal rates(c)	5/29(17.2)	3/30(10.0)	3/21(14.3)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5387			
Prevalence method(d)	P = 0.9509			
Combined analysis(d)	P = 0.9568			
Cochran-Armitage test(e)	P = 0.0945			
Fisher Exact test(e)		P = 0.3574	P = 0.3654	P = 0.0557

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	13/49(26.5)	9/50(18.0)	7/50(14.0)	3/49(6.1)
Adjusted rates(b)	27.58	13.33	4.76	9.09
Terminal rates(c)	8/29(27.6)	4/30(13.3)	1/21(4.8)	2/22(9.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9073			
Prevalence method(d)	P = 0.9706			
Combined analysis(d)	P = 0.9880			
Cochran-Armitage test(e)	P = 0.0061**			
Fisher Exact test(e)		P = 0.2182	P = 0.0961	P = 0.0060**
SITE : spleen TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	0/50(0.0)	3/50(6.0)	3/49(6.1)
Adjusted rates(b)	3.45	0.0	2.94	5.41
Terminal rates(c)	1/29(3.4)	0/30(0.0)	0/21(0.0)	1/22(4.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1543			
Prevalence method(d)	P = 0.1519			
Combined analysis(d)	P = 0.0720			
Cochran-Armitage test(e)	P = 0.1317			
Fisher Exact test(e)		P = 0.4949	P = 0.3163	P = 0.3086
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/49(4.1)	0/50(0.0)	0/50(0.0)	3/49(6.1)
Adjusted rates(b)	6.90	0.0	0.0	9.09
Terminal rates(c)	2/29(6.9)	0/30(0.0)	0/21(0.0)	2/22(9.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1357			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3156			
Fisher Exact test(e)		P = 0.2424	P = 0.2424	P = 0.5000

STUDY No. : 0297
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	42/50(84.0)	47/50(94.0)	48/49(98.0)
Adjusted rates(b)	3.45	93.55	100.00	100.00
Terminal rates(c)	1/29(3.4)	28/30(93.3)	21/21(100.0)	22/22(100.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5980			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P < 0.0001**	P < 0.0001**	P < 0.0001**
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	1/50(2.0)	4/50(8.0)	1/49(2.0)
Adjusted rates(b)	0.0	3.33	0.0	0.0
Terminal rates(c)	0/29(0.0)	1/30(3.3)	0/21(0.0)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3313			
Prevalence method(d)	P = 0.5260			
Combined analysis(d)	P = 0.3938			
Cochran-Armitage test(e)	P = 0.8410			
Fisher Exact test(e)		P = 0.2424	P = 0.1874	P = 0.2474
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	25/50(50.0)	32/50(64.0)	35/49(71.4)
Adjusted rates(b)	10.34	57.58	72.73	72.00
Terminal rates(c)	3/29(10.3)	17/30(56.7)	15/21(71.4)	15/22(68.2)
Statistical analysis				
Peto test				
Standard method(d)	P < 0.0001**			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**?			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P < 0.0001**	P < 0.0001**	P < 0.0001**

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : liver TUMOR : hepatoblastoma				
Tumor rate				
Overall rates(a)	0/49(0.0)	0/50(0.0)	4/50(8.0)	0/49(0.0)
Adjusted rates(b)	0.0	0.0	4.76	0.0
Terminal rates(c)	0/29(0.0)	0/30(0.0)	1/21(4.8)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3491			
Prevalence method(d)	P = 0.3476			
Combined analysis(d)	P = 0.3156			
Cochran-Armitage test(e)	P = 0.7290			
Fisher Exact test(e)		P = 0.5000	P = 0.0612	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma,hepatocellular carcinoma,hepatoblastoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	45/50(90.0)	49/50(98.0)	49/49(100.0)
Adjusted rates(b)	10.34	97.30	100.00	100.00
Terminal rates(c)	3/29(10.3)	29/30(96.7)	21/21(100.0)	22/22(100.0)
Statistical analysis				
Peto test				
Standard method(d)	P < 0.0001**			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P < 0.0001**	P < 0.0001**	P < 0.0001**
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	7/49(14.3)	9/50(18.0)	6/49(12.2)	0/49(0.0)
Adjusted rates(b)	20.69	23.68	23.81	0.0
Terminal rates(c)	6/29(20.7)	7/30(23.3)	5/21(23.8)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4109			
Prevalence method(d)	P = 0.9958			
Combined analysis(d)	P = 0.9941			
Cochran-Armitage test(e)	P = 0.0076**			
Fisher Exact test(e)		P = 0.4101	P = 0.5000	P = 0.0062**

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	10/49(20.4)	12/50(24.0)	11/50(22.0)	6/49(12.2)
Adjusted rates(b)	10.34	13.33	9.68	4.55
Terminal rates(c)	3/29(10.3)	4/30(13.3)	2/21(9.5)	1/22(4.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7085			
Prevalence method(d)	P = 0.8402			
Combined analysis(d)	P = 0.8438			
Cochran-Armitage test(e)	P = 0.2180			
Fisher Exact test(e)		P = 0.4258	P = 0.4791	P = 0.2065
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	4/50(8.0)	1/50(2.0)	1/49(2.0)
Adjusted rates(b)	3.45	12.90	4.76	3.85
Terminal rates(c)	1/29(3.4)	3/30(10.0)	1/21(4.8)	0/22(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6257			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5596			
Fisher Exact test(e)		P = 0.1874	P = 0.2424	P = 0.2474

(HPT360A)

BAISS

(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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$

STUDY No. : 0297
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/49(6.1)	4/50(8.0)	4/50(8.0)	3/49(6.1)
Adjusted rates(b)	10.34	10.81	13.64	9.09
Terminal rates(c)	3/29(10.3)	1/30(3.3)	2/21(9.5)	2/22(9.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5013			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9303			
Fisher Exact test(e)		P = 0.4886	P = 0.4886	P = 0.3388
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	12/49(24.5)	14/50(28.0)	15/50(30.0)	7/49(14.3)
Adjusted rates(b)	13.79	16.67	10.00	4.55
Terminal rates(c)	4/29(13.8)	5/30(16.7)	2/21(9.5)	1/22(4.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6525			
Prevalence method(d)	P = 0.9120			
Combined analysis(d)	P = 0.8508			
Cochran-Armitage test(e)	P = 0.1810			
Fisher Exact test(e)		P = 0.4334	P = 0.3487	P = 0.1534
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	15/49(30.6)	12/50(24.0)	9/50(18.0)	3/49(6.1)
Adjusted rates(b)	31.03	20.00	9.52	9.09
Terminal rates(c)	9/29(31.0)	6/30(20.0)	2/21(9.5)	2/22(9.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9424			
Prevalence method(d)	P = 0.9835			
Combined analysis(d)	P = 0.9955			
Cochran-Armitage test(e)	P = 0.0015**			
Fisher Exact test(e)		P = 0.3042	P = 0.1093	P = 0.0016**

STUDY No. : 0297
 ANIMAL : MOUSE C₇:BDF₁
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	200 ppm	400 ppm	800 ppm
SITE : ALL SITE TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/49(4.1)	1/50(2.0)	3/50(6.0)	3/49(6.1)
Adjusted rates(b)	6.45	3.33	2.94	5.41
Terminal rates(c)	1/29(3.4)	1/30(3.3)	0/21(0.0)	1/22(4.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1543			
Prevalence method(d)	P = 0.4150			
Combined analysis(d)	P = 0.2188			
Cochran-Armitage test(e)	P = 0.4483			
Fisher Exact test(e)		P = 0.4923	P = 0.4903	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 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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$

APPENDIX N 1

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: MALE: ALL ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control	200 ppm	400 ppm	800 ppm
		No. of Animals on Study	50	50	49	50
Organ	Findings					
[Respiratory system]						
nasal cavity	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
	metastasis:liver tumor		0	1	0	0
	metastasis:subcutis tumor		0	0	0	1
larynx	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
trachea	leukemic cell infiltration		<50> 0	<50> 1	<49> 0	<50> 0
	metastasis:lung tumor		0	0	0	1
lung	leukemic cell infiltration		<50> 1	<50> 3	<49> 3	<50> 0
	metastasis:liver tumor		0	6	7	5
	metastasis:stomach tumor		0	1	0	0
	metastasis:heart tumor		0	0	1	0
[Hematopoietic system]						
bone marrow	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
	metastasis:liver tumor		0	1	0	0
lymph node	metastasis:liver tumor		<50> 0	<50> 2	<49> 1	<50> 1
spleen	leukemic cell infiltration		<50> 4	<50> 5	<49> 6	<50> 3

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 50	200 ppm 50	400 ppm 49	800 ppm 50
[Circulatory system]						
heart	leukemic cell infiltration		<50> 0	<50> 2	<49> 3	<50> 0
[Digestive system]						
tongue	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
salivary gl	leukemic cell infiltration		<50> 0	<50> 2	<49> 2	<50> 0
esophagus	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
stomach	leukemic cell infiltration		<50> 0	<50> 3	<49> 2	<50> 0
	metastasis:peritoneum tumor		0	0	0	2
small intes	leukemic cell infiltration		<50> 1	<50> 0	<49> 0	<50> 0
	metastasis:peritoneum tumor		0	0	1	0
liver	leukemic cell infiltration		<50> 3	<50> 2	<49> 2	<50> 1
	metastasis:subcutis tumor		0	0	0	1
	metastasis:spleen tumor		1	0	0	0
	metastasis:stomach tumor		0	1	0	0
	metastasis:epididymis tumor		0	0	1	0

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Group Name		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		50	50	49	50
Organ	Findings				
[Digestive system]					
liver		<50>	<50>	<49>	<50>
	metastasis:heart tumor	0	0	1	0
pancreas		<50>	<50>	<49>	<50>
	leukemic cell infiltration	0	1	2	1
	metastasis:stomach tumor	0	1	0	0
[Urinary system]					
kidney		<50>	<50>	<49>	<50>
	leukemic cell infiltration	0	2	1	0
	metastasis:liver tumor	0	1	0	0
	metastasis:heart tumor	0	0	1	0
urin bladd		<50>	<50>	<49>	<50>
	leukemic cell infiltration	0	2	1	0
[Endocrine system]					
pituitary		<50>	<50>	<49>	<50>
	metastasis:liver tumor	0	1	0	0
	metastasis:peripheral nerve tumor	0	1	0	0
thyroid		<50>	<50>	<49>	<50>
	leukemic cell infiltration	0	0	1	0
adrenal		<50>	<50>	<49>	<50>
	leukemic cell infiltration	0	2	1	0
	metastasis:peritoneum tumor	0	0	0	1

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 50	200 ppm 50	400 ppm 49	800 ppm 50
[Reproductive system]						
testis			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:peritoneum tumor		0	0	1	0
epididymis			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:peritoneum tumor		0	0	0	1
semin ves			<50>	<50>	<49>	<50>
	metastasis:liver tumor		0	1	0	0
[Nervous system]						
brain			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	0	0
	metastasis:liver tumor		0	1	0	0
	metastasis:peripheral nerve tumor		0	1	0	0
periph nerv			<50>	<50>	<49>	<50>
	metastasis:liver tumor		0	1	0	0
[Special sense organs/appendage]						
eye			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	0	1	0
Harder gl			<50>	<50>	<49>	<50>
	leukemic cell infiltration		0	1	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					

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

		Group Name	Control	200 ppm	400 ppm	800 ppm
		No. of Animals on Study	50	50	49	50
Organ	Findings					
[Musculoskeletal system]						
muscle	Leukemic cell infiltration		<50> 0	<50> 1	<49> 1	<50> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS3

APPENDIX N 2

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: MALE: DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 13	200 ppm 17	400 ppm 12	800 ppm 10
[Respiratory system]						
nasal cavity			<13>	<17>	<12>	<10>
	metastasis:liver tumor		0	1	0	0
larynx			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	0	1	0
trachea			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	1	0	0
	metastasis:liver tumor		0	0	0	1
	metastasis:lung tumor		0	0	0	1
lung			<13>	<17>	<12>	<10>
	leukemic cell infiltration		1	3	1	0
	metastasis:liver tumor		0	2	3	2
	metastasis:stomach tumor		0	1	0	0
	metastasis:heart tumor		0	0	1	0
			0	0	1	0
[Hematopoietic system]						
bone marrow			<13>	<17>	<12>	<10>
	metastasis:liver tumor		0	1	0	0
lymph node			<13>	<17>	<12>	<10>
	metastasis:liver tumor		0	1	1	0
spleen			<13>	<17>	<12>	<10>
	leukemic cell infiltration		1	4	2	1
[Circulatory system]						
heart			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	2	1	0

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

STUDY NO. : 0297
 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		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		13	17	12	10
Organ	Findings				
[Digestive system]					
tongue		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	0	1	0
salivary gl		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	2	1	0
esophagus		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	0	1	0
stomach		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	2	1	0
	metastasis:peritoneum tumor	0	0	0	2
liver		<13>	<17>	<12>	<10>
	leukemic cell infiltration	1	2	1	1
	metastasis:spleen tumor	1	0	0	0
	metastasis:stomach tumor	0	1	0	0
pancreas		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	1	2	1
	metastasis:stomach tumor	0	1	0	0
[Urinary system]					
kidney		<13>	<17>	<12>	<10>
	leukemic cell infiltration	0	2	0	0
	metastasis:liver tumor	0	1	0	0

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study	Control 13	200 ppm 17	400 ppm 12	800 ppm 10
[Urinary system]						
kidney			<13>	<17>	<12>	<10>
	metastasis:heart tumor		0	0	1	0
urin bladd			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	2	0	0
[Endocrine system]						
pituitary			<13>	<17>	<12>	<10>
	metastasis:liver tumor		0	1	0	0
	metastasis:peripheral nerve tumor		0	1	0	0
thyroid			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	0	1	0
adrenal			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	2	0	0
	metastasis:peritoneum tumor		0	0	0	1
[Reproductive system]						
testis			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	1	0	0
epididymis			<13>	<17>	<12>	<10>
	leukemic cell infiltration		0	1	0	0
	metastasis:peritoneum tumor		0	0	0	1
[Nervous system]						
brain			<13>	<17>	<12>	<10>
	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. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 13	200 ppm 17	400 ppm 12	800 ppm 10
[Nervous system]						
brain	metastasis:liver tumor		<13> 0	<17> 1	<12> 0	<10> 0
	metastasis:peripheral nerve tumor		0	1	0	0
periph nerv	metastasis:liver tumor		<13> 0	<17> 1	<12> 0	<10> 0
[Special sense organs/appendage]						
eye	leukemic cell infiltration		<13> 0	<17> 0	<12> 1	<10> 0
Harder gl	leukemic cell infiltration		<13> 0	<17> 1	<12> 0	<10> 0
[Musculoskeletal system]						
muscle	leukemic cell infiltration		<13> 0	<17> 1	<12> 1	<10> 0

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

(JPT150)

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APPENDIX N 3

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: MALE: SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 37	200 ppm 33	400 ppm 37	800 ppm 40
Organ	Findings				
[Respiratory system]					
nasal cavit	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
	metastasis:subcutis tumor	0	0	0	1
lung	leukemic cell infiltration	<37> 0	<33> 0	<37> 2	<40> 0
	metastasis:liver tumor	0	4	4	3
[Hematopoietic system]					
bone marrow	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
	metastasis:liver tumor	<37> 0	<33> 1	<37> 0	<40> 1
spleen	leukemic cell infiltration	<37> 3	<33> 1	<37> 4	<40> 2
[Circulatory system]					
heart	leukemic cell infiltration	<37> 0	<33> 0	<37> 2	<40> 0
[Digestive system]					
salivary gl	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
	leukemic cell infiltration	<37> 0	<33> 1	<37> 1	<40> 0

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Group Name		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		37	33	37	40
Organ	Findings				
[Digestive system]					
small intes	leukemic cell infiltration	<37> 1	<33> 0	<37> 0	<40> 0
	metastasis:peritoneum tumor	0	0	1	0
liver	leukemic cell infiltration	<37> 2	<33> 0	<37> 1	<40> 0
	metastasis:subcutis tumor	0	0	0	1
	metastasis:epididymis tumor	0	0	1	0
[Urinary system]					
kidney	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
[Endocrine system]					
adrenal	leukemic cell infiltration	<37> 0	<33> 0	<37> 1	<40> 0
[Reproductive system]					
testis	metastasis:peritoneum tumor	<37> 0	<33> 0	<37> 1	<40> 0
semin ves	metastasis:liver tumor	<37> 0	<33> 1	<37> 0	<40> 0

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

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

		Group Name	Control	200 ppm	400 ppm	800 ppm
		No. of Animals on Study	37	33	37	40
Organ_____	Findings_____					
<hr/>						
[Special sense organs/appendage]						
Harder gl		<37>	<33>	<37>	<40>	
	metastasis:subcutis tumor	0	0	0	1	
<hr/>						
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS3

APPENDIX N 4

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: FEMALE: ALL ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
 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 49	200 ppm 50	400 ppm 50	800 ppm 49
[Respiratory system]						
nasal cavit		<49>		<50>	<50>	<49>
	leukemic cell infiltration	1		0	1	0
	metastasis:uterus tumor	1		0	0	0
lung		<49>		<50>	<50>	<49>
	leukemic cell infiltration	10		8	7	1
	metastasis:liver tumor	2		9	11	5
	metastasis:uterus tumor	6		6	3	3
	metastasis:spleen tumor	0		1	1	1
[Hematopoietic system]						
bone marrow		<49>		<50>	<50>	<49>
	leukemic cell infiltration	2		5	3	1
	metastasis:liver tumor	1		1	1	0
	metastasis:uterus tumor	3		2	2	1
	metastasis:spleen tumor	0		1	0	0
lymph node		<49>		<50>	<50>	<49>
	leukemic cell infiltration	1		2	2	0
	metastasis:liver tumor	1		2	1	0
	metastasis:uterus tumor	2		1	1	0
	metastasis:spleen tumor	0		1	0	1
thymus		<49>		<50>	<50>	<49>
	leukemic cell infiltration	1		0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
[Hematopoietic system]						
spleen			<49>	<50>	<50>	<49>
	leukemic cell infiltration		9	7	6	2
	metastasis:liver tumor		0	1	2	0
[Circulatory system]						
heart			<49>	<50>	<50>	<49>
	leukemic cell infiltration		6	3	3	0
	metastasis:liver tumor		0	0	1	0
	metastasis:uterus tumor		0	2	1	0
[Digestive system]						
tooth			<49>	<50>	<50>	<49>
	metastasis:uterus tumor		0	1	0	0
tongue			<49>	<50>	<50>	<49>
	leukemic cell infiltration		2	2	2	0
salivary gl			<49>	<50>	<50>	<49>
	leukemic cell infiltration		7	6	3	1
	metastasis:liver tumor		0	1	0	0
stomach			<49>	<50>	<50>	<49>
	leukemic cell infiltration		4	3	3	2
	metastasis:liver tumor		1	0	1	1
	metastasis:uterus tumor		4	6	0	1

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

STUDY NO. : 0297
 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 49	200 ppm 50	400 ppm 50	800 ppm 49
[Digestive system]						
small intes	leukemic cell infiltration		<49> 0	<50> 0	<50> 1	<49> 0
large intes	leukemic cell infiltration		<49> 0	<50> 1	<50> 0	<49> 0
liver	leukemic cell infiltration		<49> 9	<50> 9	<50> 6	<49> 3
	metastasis:uterus tumor		7	7	6	4
	metastasis:spleen tumor		0	1	1	1
pancreas	leukemic cell infiltration		<49> 5	<50> 6	<50> 0	<49> 1
	metastasis:liver tumor		0	0	1	0
	metastasis:uterus tumor		1	3	2	0
[Urinary system]						
kidney	leukemic cell infiltration		<49> 6	<50> 5	<50> 5	<49> 2
	metastasis:liver tumor		0	1	1	0
	metastasis:uterus tumor		4	3	3	3
urin bladd	leukemic cell infiltration		<49> 2	<50> 5	<50> 3	<49> 1
[Endocrine system]						
pituitary	leukemic cell infiltration		<49> 0	<50> 1	<50> 1	<49> 0

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

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

Organ	Findings	Group Name No. of Animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
[Endocrine system]						
pituitary			<49>	<50>	<50>	<49>
	metastasis:uterus tumor		0	1	0	0
thyroid			<49>	<50>	<50>	<49>
	leukemic cell infiltration		2	2	0	0
adrenal			<49>	<50>	<50>	<49>
	leukemic cell infiltration		1	4	3	1
	metastasis:liver tumor		1	0	2	0
	metastasis:uterus tumor		1	2	3	1
[Reproductive system]						
ovary			<49>	<50>	<50>	<49>
	leukemic cell infiltration		3	5	4	1
	metastasis:liver tumor		1	0	2	0
	metastasis:uterus tumor		6	7	5	4
uterus			<49>	<50>	<50>	<49>
	leukemic cell infiltration		2	3	4	1
mammary gl			<49>	<50>	<50>	<49>
	leukemic cell infiltration		0	1	0	0
[Nervous system]						
brain			<49>	<50>	<50>	<49>
	leukemic cell infiltration		0	0	1	0
spinal cord			<49>	<50>	<50>	<49>
	leukemic cell infiltration		0	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study	Control 49	200 ppm 50	400 ppm 50	800 ppm 49
[Special sense organs/appendage]						
eye	leukemic cell infiltration		<49> 0	<50> 0	<50> 1	<49> 0
Harder gl	leukemic cell infiltration		<49> 3	<50> 1	<50> 1	<49> 0
	metastasis:subcutis tumor		0	0	0	1
[Musculoskeletal system]						
muscle	leukemic cell infiltration		<49> 1	<50> 3	<50> 3	<49> 0
[Body cavities]						
pleura	leukemic cell infiltration		<49> 0	<50> 0	<50> 1	<49> 0
peritoneum	leukemic cell infiltration		<49> 1	<50> 0	<50> 0	<49> 0
	metastasis:liver tumor		0	2	1	0
	metastasis:uterus tumor		0	1	1	0
retroperit	metastasis:liver tumor		<49> 0	<50> 1	<50> 0	<49> 0

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

APPENDIX N 5

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
 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 20	200 ppm 20	400 ppm 29	800 ppm 27
[Respiratory system]						
nasal cavit	leukemic cell infiltration		<20> 1	<20> 0	<29> 1	<27> 0
	metastasis:uterus tumor		1	0	0	0
lung	leukemic cell infiltration		<20> 6	<20> 5	<29> 7	<27> 0
	metastasis:liver tumor		0	3	5	4
	metastasis:uterus tumor		6	5	3	3
	metastasis:spleen tumor		0	1	1	1
[Hematopoietic system]						
bone marrow	leukemic cell infiltration		<20> 0	<20> 0	<29> 3	<27> 0
	metastasis:liver tumor		1	0	1	0
	metastasis:uterus tumor		3	2	2	1
	metastasis:spleen tumor		0	1	0	0
lymph node	leukemic cell infiltration		<20> 1	<20> 0	<29> 1	<27> 0
	metastasis:liver tumor		1	0	1	0
	metastasis:uterus tumor		2	1	1	0
	metastasis:spleen tumor		0	1	0	1
spleen	leukemic cell infiltration		<20> 5	<20> 4	<29> 6	<27> 1

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

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 20	200 ppm 20	400 ppm 29	800 ppm 27
[Hematopoietic system]						
spleen	metastasis:liver tumor		<20> 0	<20> 0	<29> 2	<27> 0
[Circulatory system]						
heart	leukemic cell infiltration		<20> 5	<20> 1	<29> 3	<27> 0
	metastasis:liver tumor		0	0	1	0
	metastasis:uterus tumor		0	2	1	0
[Digestive system]						
tooth	metastasis:uterus tumor		<20> 0	<20> 1	<29> 0	<27> 0
tongue	leukemic cell infiltration		<20> 1	<20> 1	<29> 2	<27> 0
salivary gl	leukemic cell infiltration		<20> 3	<20> 2	<29> 2	<27> 0
stomach	leukemic cell infiltration		<20> 3	<20> 1	<29> 3	<27> 1
	metastasis:liver tumor		1	0	1	1
	metastasis:uterus tumor		4	5	0	1
small intes	leukemic cell infiltration		<20> 0	<20> 0	<29> 1	<27> 0
large intes	leukemic cell infiltration		<20> 0	<20> 1	<29> 0	<27> 0

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

STUDY NO. : 0297
 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	200 ppm	400 ppm	800 ppm
No. of Animals on Study		20	20	29	27
Organ	Findings				
[Digestive system]					
liver	leukemic cell infiltration	<20> 5	<20> 4	<29> 5	<27> 1
	metastasis:uterus tumor	7	7	6	4
	metastasis:spleen tumor	0	1	1	1
pancreas	leukemic cell infiltration	<20> 3	<20> 4	<29> 0	<27> 0
	metastasis:liver tumor	0	0	1	0
	metastasis:uterus tumor	1	2	2	0
[Urinary system]					
kidney	leukemic cell infiltration	<20> 2	<20> 4	<29> 5	<27> 1
	metastasis:liver tumor	0	0	1	0
	metastasis:uterus tumor	4	3	3	3
urin bladd	leukemic cell infiltration	<20> 2	<20> 2	<29> 3	<27> 0
[Endocrine system]					
pituitary	leukemic cell infiltration	<20> 0	<20> 1	<29> 1	<27> 0
	metastasis:uterus tumor	0	1	0	0
thyroid	leukemic cell infiltration	<20> 2	<20> 1	<29> 0	<27> 0
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

STUDY NO. : 0297
 ANIMAL : MOUSE C₃H/BDF₁
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Group Name		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		20	20	29	27
Organ	Findings				
[Endocrine system]					
adrenal	leukemic cell infiltration	<20> 1	<20> 4	<29> 3	<27> 0
	metastasis:liver tumor	1	0	2	0
	metastasis:uterus tumor	1	2	3	1
[Reproductive system]					
ovary	leukemic cell infiltration	<20> 3	<20> 2	<29> 4	<27> 0
	metastasis:liver tumor	1	0	2	0
	metastasis:uterus tumor	6	6	5	4
uterus	leukemic cell infiltration	<20> 2	<20> 2	<29> 4	<27> 0
	leukemic cell infiltration	<20> 0	<20> 1	<29> 0	<27> 0
[Nervous system]					
brain	leukemic cell infiltration	<20> 0	<20> 0	<29> 1	<27> 0
	leukemic cell infiltration	<20> 0	<20> 0	<29> 1	<27> 0
[Special sense organs/appendage]					
eye	leukemic cell infiltration	<20> 0	<20> 0	<29> 1	<27> 0

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

STUDY NO. : 0297
 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		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		20	20	29	27
Organ	Findings				
[Special sense organs/appendage]					
Harder gl	leukemic cell infiltration	<20> 1	<20> 1	<29> 1	<27> 0
	metastasis:subcutis tumor	0	0	0	1
[Musculoskeletal system]					
muscle	leukemic cell infiltration	<20> 1	<20> 1	<29> 3	<27> 0
[Body cavities]					
pleura	leukemic cell infiltration	<20> 0	<20> 0	<29> 1	<27> 0
peritoneum	leukemic cell infiltration	<20> 1	<20> 0	<29> 0	<27> 0
	metastasis:liver tumor	0	1	1	0
	metastasis:uterus tumor	0	0	1	0
retroperit	metastasis:liver tumor	<20> 0	<20> 1	<29> 0	<27> 0

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

(JPT150)

BAIS3

APPENDIX N 6

HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY,
MOUSE: FEMALE: SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Group Name		Control	200 ppm	400 ppm	800 ppm
No. of Animals on Study		29	30	21	22
Organ	Findings				
[Respiratory system]					
Lung	leukemic cell infiltration	<29> 4	<30> 3	<21> 0	<22> 1
	metastasis:liver tumor	2	6	6	1
	metastasis:uterus tumor	0	1	0	0
[Hematopoietic system]					
bone marrow	leukemic cell infiltration	<29> 2	<30> 5	<21> 0	<22> 1
	metastasis:liver tumor	0	1	0	0
Lymph node	leukemic cell infiltration	<29> 0	<30> 2	<21> 1	<22> 0
	metastasis:liver tumor	0	2	0	0
thymus	leukemic cell infiltration	<29> 1	<30> 0	<21> 0	<22> 0
	metastasis:liver tumor	0	1	0	0
spleen	leukemic cell infiltration	<29> 4	<30> 3	<21> 0	<22> 1
	metastasis:liver tumor	0	1	0	0
[Circulatory system]					
heart	leukemic cell infiltration	<29> 1	<30> 2	<21> 0	<22> 0
[Digestive system]					
tongue	leukemic cell infiltration	<29> 1	<30> 1	<21> 0	<22> 0

STUDY NO. : 0297
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 29	200 ppm 30	400 ppm 21	800 ppm 22
[Digestive system]						
salivary gl			<29>	<30>	<21>	<22>
	leukemic cell infiltration		4	4	1	1
	metastasis:liver tumor		0	1	0	0
stomach			<29>	<30>	<21>	<22>
	leukemic cell infiltration		1	2	0	1
	metastasis:uterus tumor		0	1	0	0
liver			<29>	<30>	<21>	<22>
	leukemic cell infiltration		4	5	1	2
pancreas			<29>	<30>	<21>	<22>
	leukemic cell infiltration		2	2	0	1
	metastasis:uterus tumor		0	1	0	0
[Urinary system]						
kidney			<29>	<30>	<21>	<22>
	leukemic cell infiltration		4	1	0	1
	metastasis:liver tumor		0	1	0	0
urin bladd			<29>	<30>	<21>	<22>
	leukemic cell infiltration		0	3	0	1
[Endocrine system]						
thyroid			<29>	<30>	<21>	<22>
	leukemic cell infiltration		0	1	0	0
adrenal			<29>	<30>	<21>	<22>
	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. : 0297
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ_____ Findings_____		Group Name No. of Animals on Study	Control 29	200 ppm 30	400 ppm 21	800 ppm 22
[Reproductive system]						
ovary	leukemic cell infiltration		<29> 0	<30> 3	<21> 0	<22> 1
	metastasis:uterus tumor		0	1	0	0
uterus	leukemic cell infiltration		<29> 0	<30> 1	<21> 0	<22> 1
[Special sense organs/appendage]						
Harder gl	leukemic cell infiltration		<29> 2	<30> 0	<21> 0	<22> 0
[Musculoskeletal system]						
muscle	leukemic cell infiltration		<29> 0	<30> 2	<21> 0	<22> 0
[Body cavities]						
peritoneum	metastasis:liver tumor		<29> 0	<30> 1	<21> 0	<22> 0
	metastasis:uterus tumor		0	1	0	0
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

(JPT150)

BAIS3

APPENDIX O 1

IDENTITY OF *N,N*-DIMETHYLFORMAMIDE IN THE 2-YEAR INHALATION STUDY

IDENTITY OF *N,N*-DIMETHYLFORMAMIDE THE 2-YEAR INHALATION STUDYTest Substance : *N,N*-Dimethylformamide (Wako Pure Chemical Industries, LTD.)

A. Lot No. : CAL4288

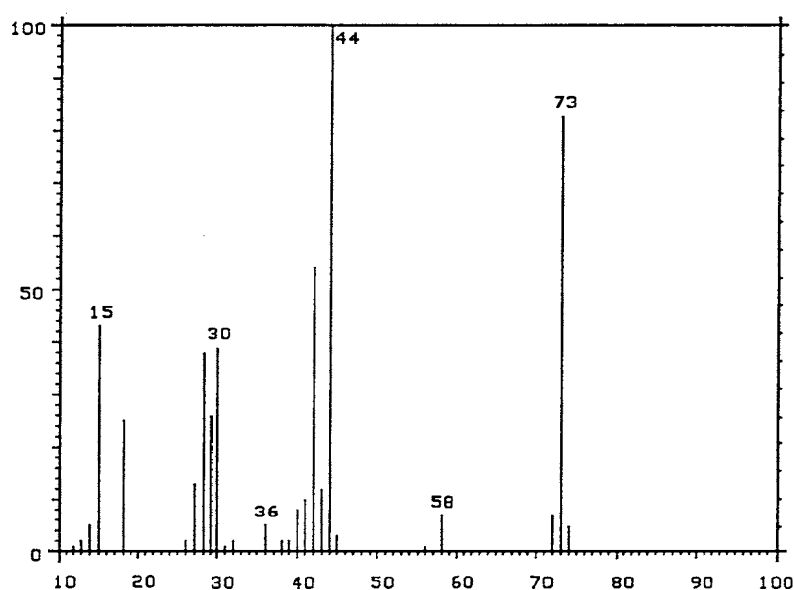
1. Spectral data

Mass Spectrometry

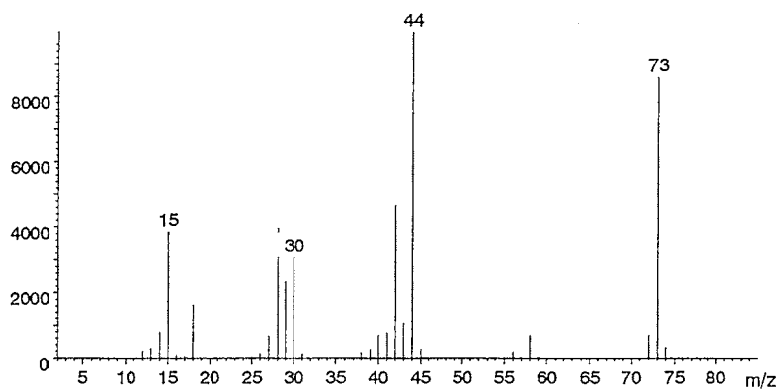
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance m/z

Mass Spectrum of *N,N*-dimethylformamide (Literature data*)

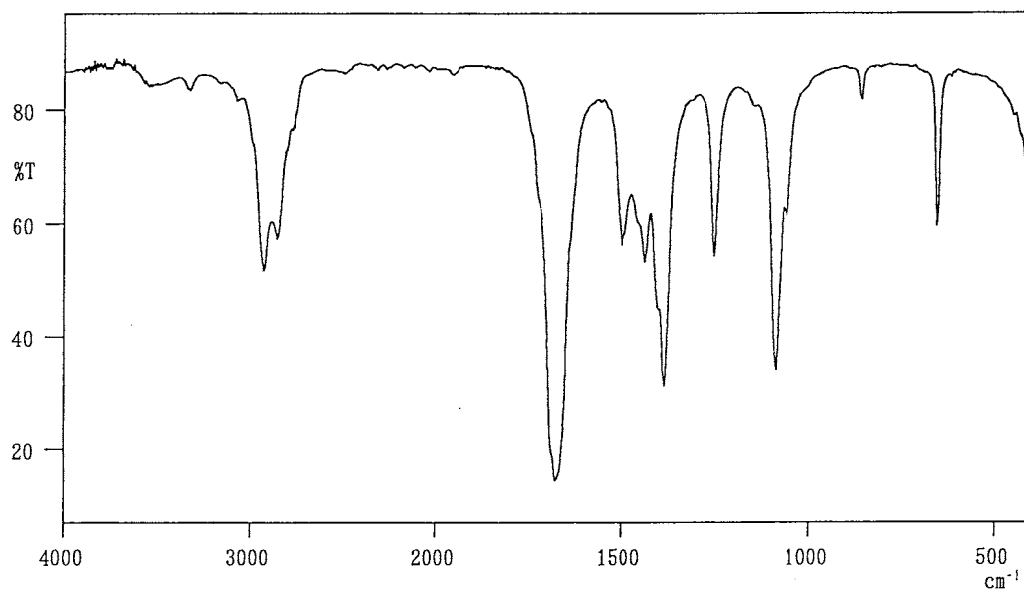
Results: The mass spectrum was consistent with literature spectrum.

*Wiley 138K Mass Spectral Data Base Entry Number 1553(1990)
John Wiley and Sons Inc.,U.K.

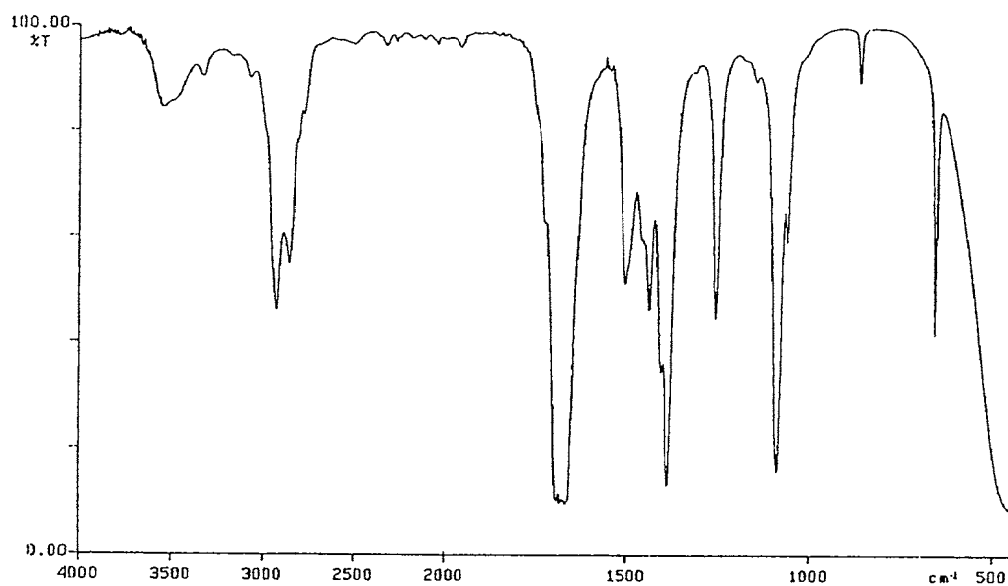
Infrared Spectrometry

Instrument : Shimadzu FT-IR 8200PC Infrared Spectrometer

Cell : KBr



Infrared Spectrum of Test Substance



Infrared Spectrum of *N,N*-dimethylformamide (Literature data*)

*Performed by Wako Pure Chemical Industries, LTD.

Results: The infrared spectrum was consistent with literature spectrum.

2. Conclusions: The test substance was identified as *N,N*-dimethylformamide, by the mass spectrum and the infrared spectrum.

B. Lot No. : SKH4945

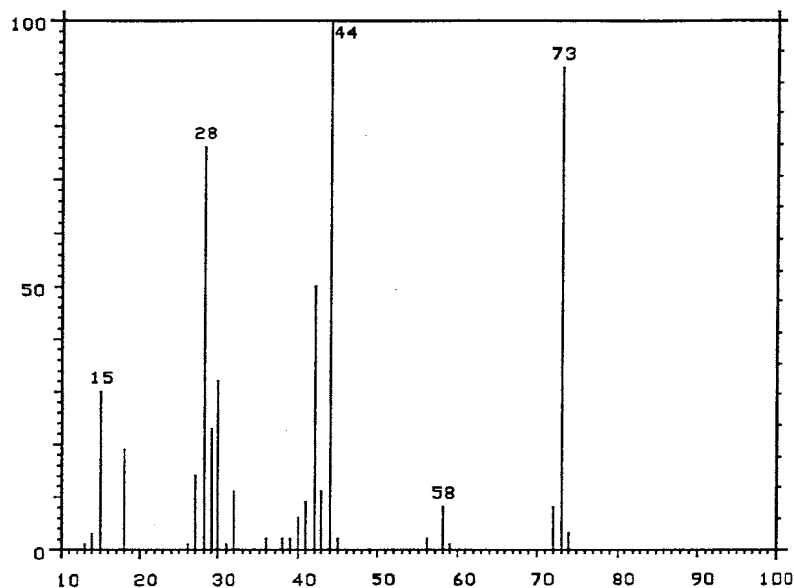
1. Spectral data

Mass Spectrometry

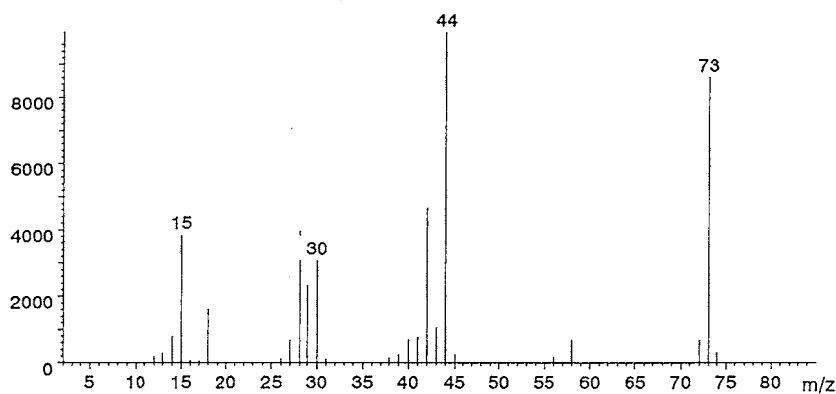
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance m/z



Mass Spectrum of *N,N*-dimethylformamide (Literature data*)

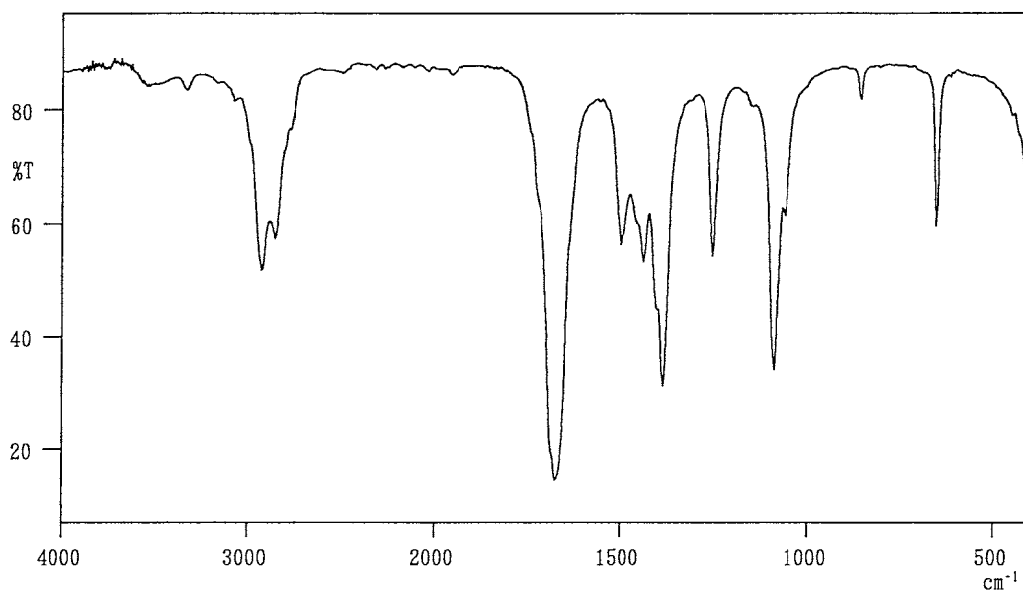
Results: The mass spectrum was consistent with literature spectrum.

*Wiley 138K Mass Spectral Data Base Entry Number 1553(1990)
John Wiley and Sons Inc.,U.K.

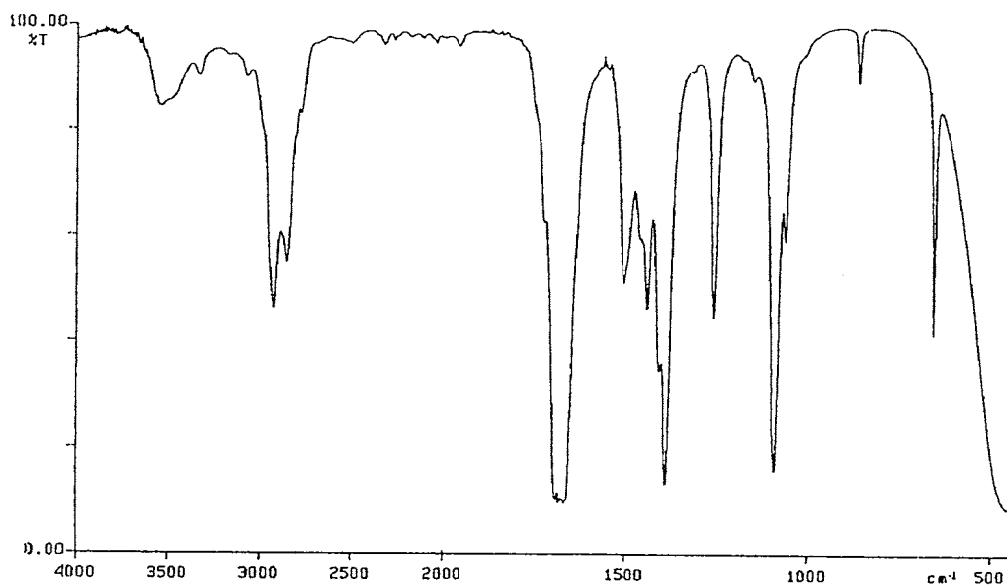
Infrared Spectrometry

Instrument : Shimadzu FT-IR 8200PC Infrared Spectrometer

Cell : KBr



Infrared Spectrum of Test Substance



Infrared Spectrum of *N,N*-dimethylformamide (Literature data*)

*Performed by Wako Pure Chemical Industries, LTD.

Results: The infrared spectrum was consistent with literature spectrum.

2. Conclusions: The test substance was identified as *N,N*-dimethylformamide, by the mass spectrum and the infrared spectrum.

C. Lot No. : LEK4984

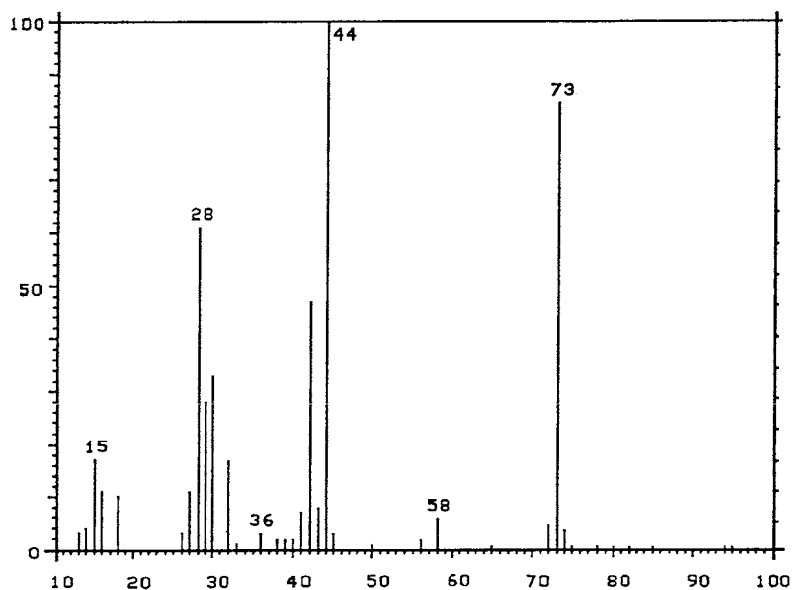
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

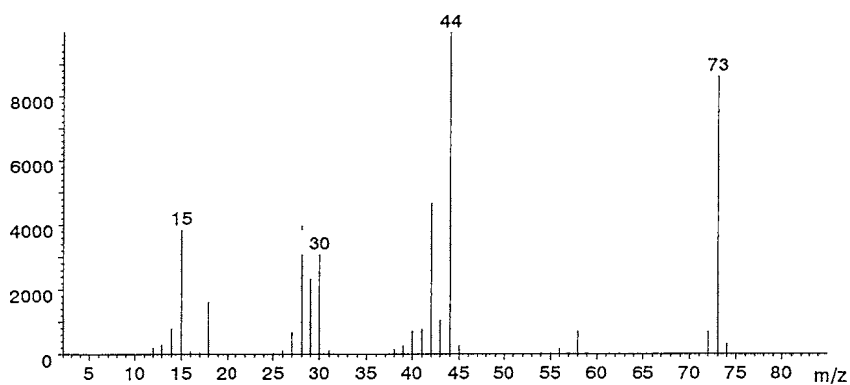
Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

m/z



Mass Spectrum of *N,N*-dimethylformamide (Literature data*)

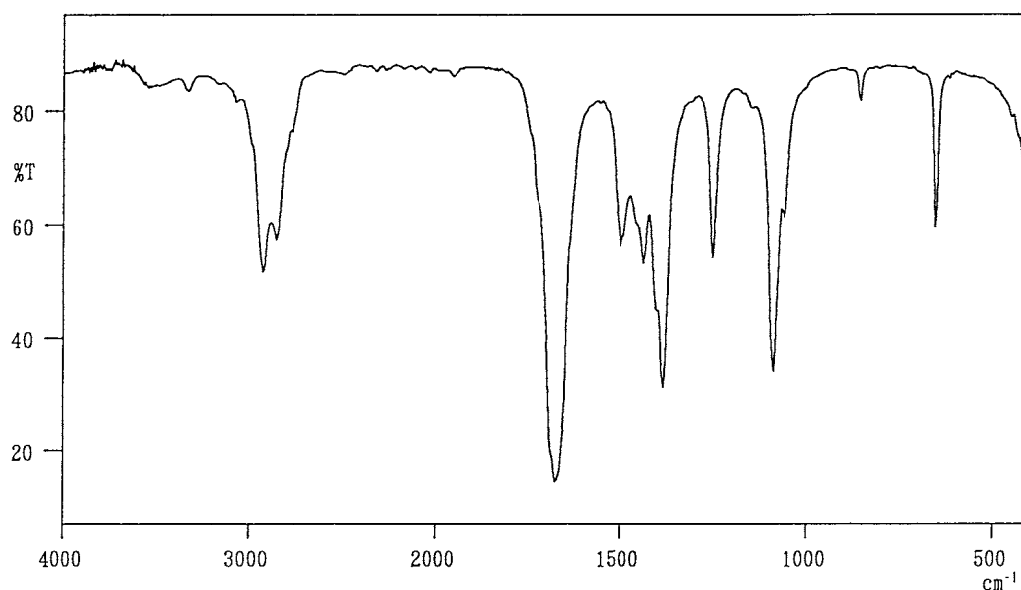
Results: The mass spectrum was consistent with literature spectrum.

*Wiley 138K Mass Spectral Data Base Entry Number 1553(1990)
John Wiley and Sons Inc.,U.K.

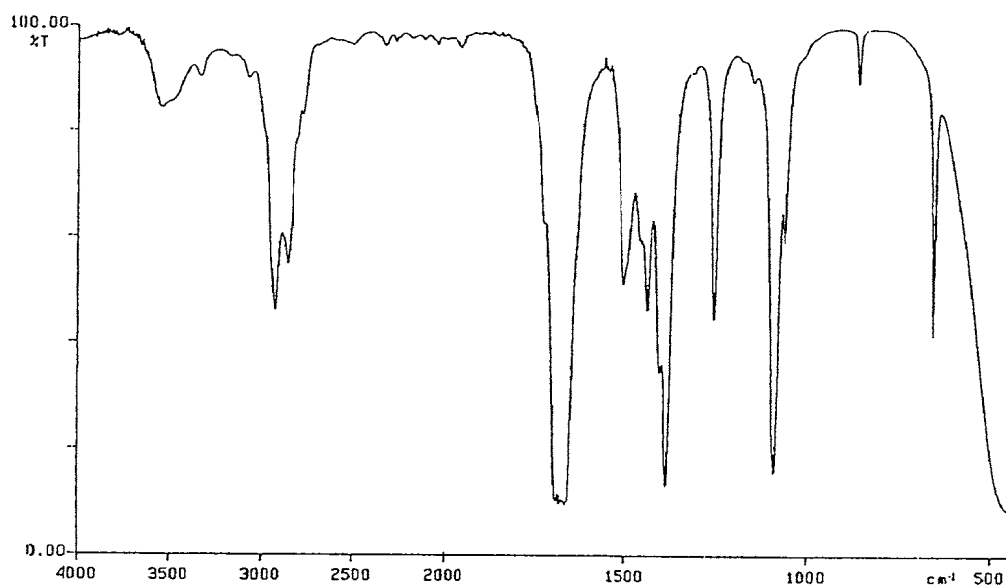
Infrared Spectrometry

Instrument : Shimadzu FT-IR 8200PC Infrared Spectrometer

Cell : KBr



Infrared Spectrum of Test Substance



Infrared Spectrum of *N,N*-dimethylformamide (Literature data*)

*Performed by Wako Pure Chemical Industries, LTD.

Results: The infrared spectrum was consistent with literature spectrum.

2. Conclusions: The test substance was identified as *N,N*-dimethylformamide, by the mass spectrum and the infrared spectrum.

D. Lot No. : WTL5167

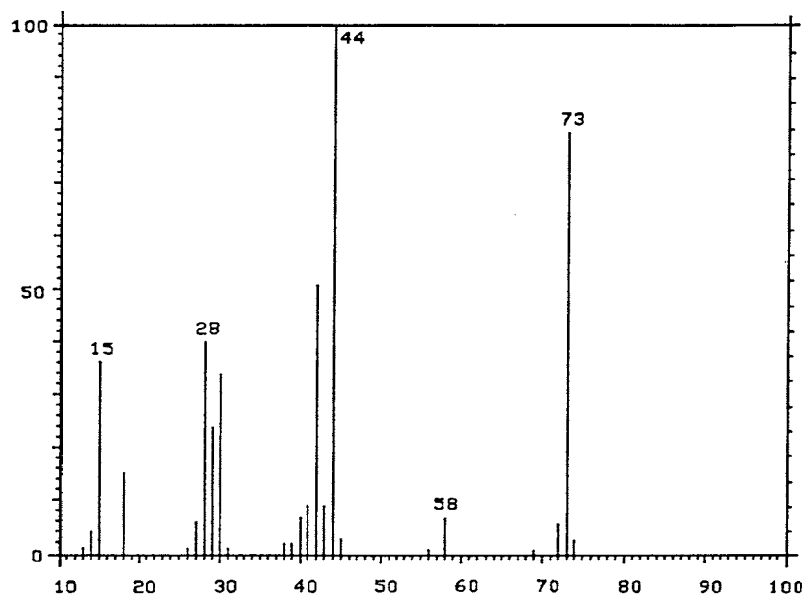
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

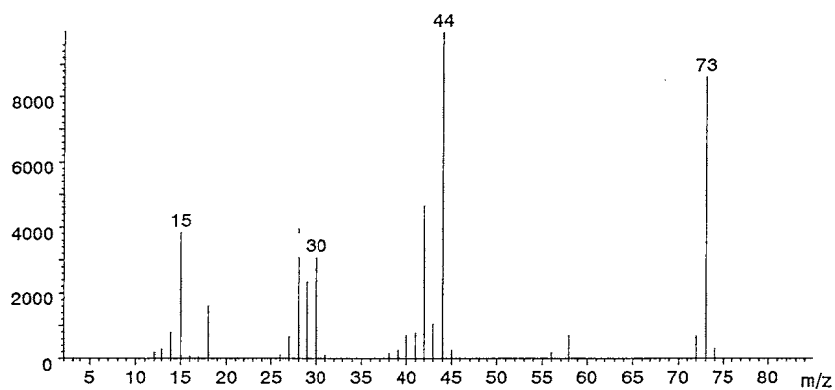
Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

m/z



Mass Spectrum of *N,N*-dimethylformamide (Literature data*)

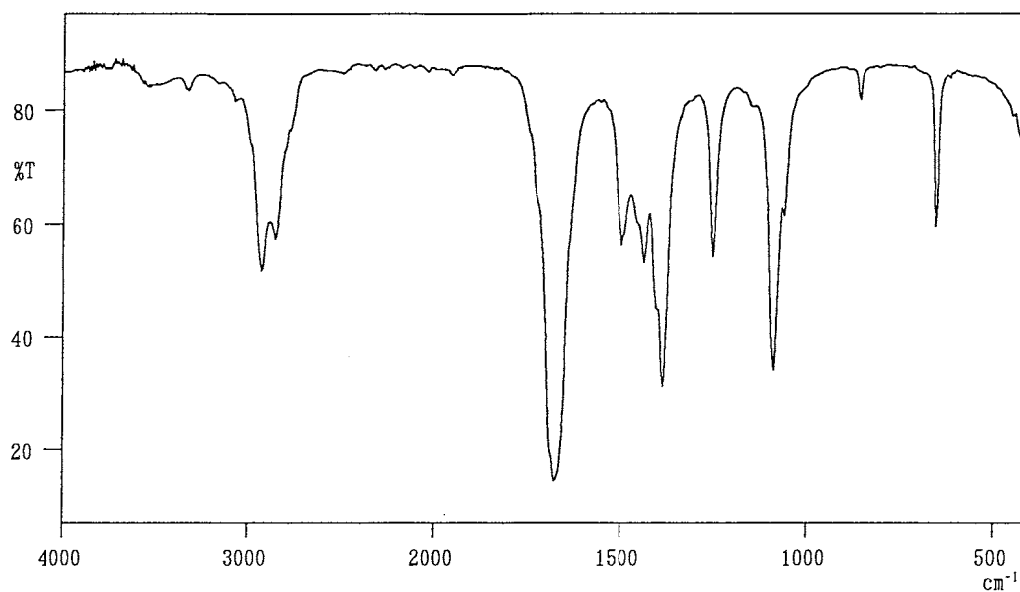
Results: The mass spectrum was consistent with literature spectrum.

*Wiley 138K Mass Spectral Data Base Entry Number 1553(1990)
John Wiley and Sons Inc.,U.K.

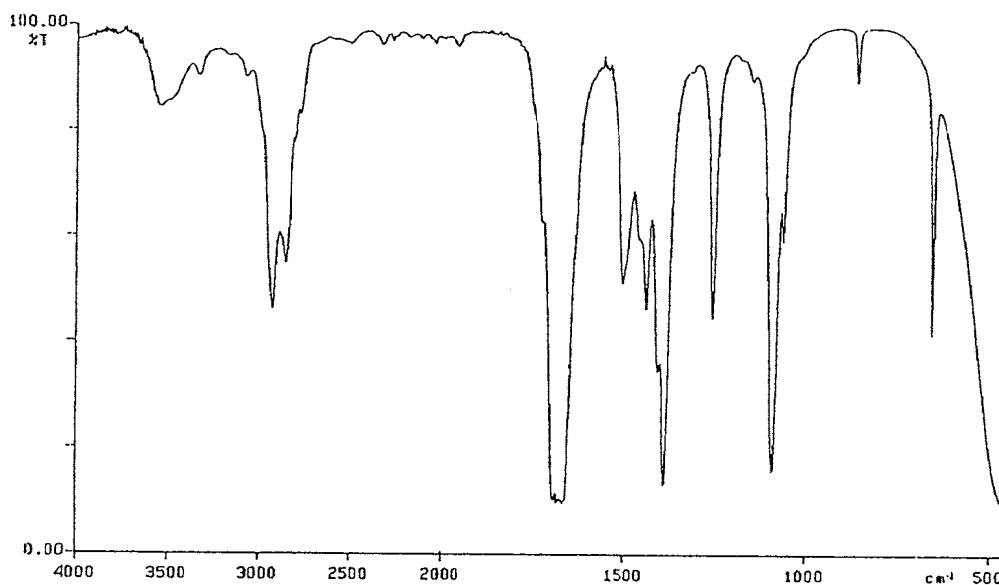
Infrared Spectrometry

Instrument : Shimadzu FT-IR 8200PC Infrared Spectrometer

Cell : KBr



Infrared Spectrum of Test Substance



Infrared Spectrum of *N,N*-dimethylformamide (Literature data*)

*Performed by Wako Pure Chemical Industries, LTD.

Results: The infrared spectrum was consistent with literature spectrum.

2. Conclusions: The test substance was identified as *N,N*-dimethylformamide, by the mass spectrum and the infrared spectrum.

APPENDIX O 2

STABILITY OF *N,N*-DIMETHYLFORMAMIDE IN THE 2-YEAR INHALATION STUDY

STABILITY OF *N,N*-DIMETHYLFORMAMIDE IN THE 2-YEAR INHALATION STUDY

Test Substance : *N,N*-Dimethylformamide (Wako Pure Chemical Industries, LTD.)

A. Lot No. : CAL4288

1. Sample: This lot was used from 1995.11.14 to 1995.11.13. Test substance was stored at room temperature .

2. Gas Chromatography

Instrument : Hewlett Packard 5890A
Column : Hewlett Packard INNOWax(0.2mm ϕ \times 50m)
Column Temperature : 150°C
Flow Rate : 1 ml/min
Detector : FID(Flame Ionization Detector)
Injection Volume : 1 μ l

Results : Gas chromatography indicated one major peak(peak No.1) analyzed at 1995.10.20 and one major peak(peak No.1) analyzed at 1995.11.13. No new trace impurity peak in the test substance analyzed at 1995.11.13 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	AREA(%)
1995.10.20	1	6.013	100
1995.11.13	1	6.012	100

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

B. Lot No. : SKH4945

1.Sample: This lot was used from 1995.11.14 to 1996.10.30. Test substance was stored at room temperature .

2. Gas Chromatography

Instrument : Hewlett Packard 5890A
Column : Hewlett Packard INNOWax(0.2mm ϕ \times 50m)
Column Temperature : 150°C
Flow Rate : 1 ml/min
Detector : FID(Flame Ionization Detector)
Injection Volume : 1 μ l

Results : Gas chromatography indicated one major peak(peak No.1) analyzed at 1995.11.13 and one major peak(peak No.1) analyzed at 1996.10.30. No new trace impurity peak in the test substance analyzed at 1996.10.30 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	AREA(%)
1995.11.13	1	6.012	100
1996.10.30	1	6.013	100

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

C. Lot No. : LEK4984

1.Sample: This lot was used from 1996.10.31 to 1997.10.22. Test substance was stored at room temperature .

2. Gas Chromatography

Instrument : Hewlett Packard 5890A
Column : Hewlett Packard INNOWax(0.2mm ϕ \times 50m)
Column Temperature : 150°C
Flow Rate : 1 ml/min
Detector : FID(Flame Ionization Detector)
Injection Volume : 1 μ l

Results : Gas chromatography indicated one major peak(peak No.1) analyzed at 1996.10.29 and one major peak(peak No.1) analyzed at 1997.10.23. No new trace impurity peak in the test substance analyzed at 1997.10.23 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	AREA(%)
1996.10.29	1	6.012	100
1997.10.23	1	6.01	100

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

D. Lot No. : WTL5167

1.Sample: This lot was used from 1997.10.23 to 1997.11.10. Test substance was stored at room temperature .

2. Gas Chromatography

Instrument : Hewlett Packard 5890A
Column : Hewlett Packard INNOWax(0.2mm ϕ \times 50m)
Column Temperature : 150°C
Flow Rate : 1 ml/min
Detector : FID(Flame Ionization Detector)
Injection Volume : 1 μ l

Results : Gas chromatography indicated one major peak(peak No.1) analyzed at 1997.10.21 and one major peak(peak No.1) analyzed at 1997.11.18. No new trace impurity peak in the test substance analyzed at 1997.11.18 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	AREA(%)
1997.10.21	1	6.012	100
1997.11.18	1	6.008	100

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

APPENDIX P 1

CONCENTRATION OF *N,N*-DIMETHYLFORMAMIDE IN INHALATION CHAMBER OF THE
2-YEAR INHALATION STUDY

CONCENTRATION OF N,N-DIMETHYLFORMAMIDE IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration (ppm)
	Mean \pm S.D.
Control	0.0 \pm 0.0
200ppm	201.7 \pm 5.2
400ppm	397.8 \pm 7.8
800ppm	790.6 \pm 18.3

APPENDIX P 2

ENVIRONMENTAL CONCENTRATION OF INHALATION CHAMBER IN THE 2-YEAR
INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

Group Name	Temperature(°C) Mean ± S.D.	Humidity(%) Mean ± S.D.	Ventilation Rate(L/min) Mean ± S.D.	Air Changes(time/h) Mean
Control	22.4 ± 0.3	53.7 ± 1.3	748.2 ± 11.3 (370.8 ± 4.2)	12.1 (6.0)
200ppm	22.3 ± 0.2	49.9 ± 3.6	737.2 ± 10.5 (372.8 ± 3.1)	12.0 (6.0)
800ppm	22.3 ± 0.2	52.1 ± 4.3	741.5 ± 10.6 (371.9 ± 3.3)	12.0 (6.0)
400ppm	22.3 ± 0.2	48.7 ± 4.3	743.1 ± 10.8 (373.2 ± 3.2)	12.1 (6.1)

(): during exposure

APPENDIX Q 1

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS
IN THE 2-YEAR INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS
IN THE 2-YEAR INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

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⁾ (May-Grunwald-Giemsa staining)
Biochemistry	
Total protein (TP)	Biuret method ³⁾
Albumin (Alb)	BCG method ³⁾
A/G ratio	Calculated as $Alb/(TP - Alb)$ ³⁾
T-bilirubin	Alkaline azobilirubin method ³⁾
Glucose	GlcK·G-6-PDH method ³⁾
T-cholesterol	CE·COD·POD method ³⁾
Triglyceride	LPL·GK·GPO·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⁾
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 (Hitachi 8200 : Hitachi, Ltd.)
- 3) Automatic analyzer (Hitachi 7070 : Hitachi, Ltd.)
- 4) Ames reagent strips for urinalysis (Uro-Labstix : Bayer Corporation)

APPENDIX Q 2

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-YEAR INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-YEAR INHALATION STUDY OF *N,N*-DIMETHYLFORMAMIDE

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