

グリオキサルのマウスを用いた経口投与による  
がん原性試験（混水試験）報告書

試験番号：0268

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## APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTON	Control	0	0	0	1	0	0	0	1	1	1	1	1	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	0	0	0	0	0	0	1	1	1	1	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
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CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	333 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	1	1	1	1	1	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
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CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	333 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3000 ppm	1	1	1	1	1	1	1	2	2	2	2	2	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	1	1	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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	2	2	2	2	2	2	2	3	3	3	4	4	5	5
	333 ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	1000 ppm	2	3	3	3	3	3	3	3	4	4	4	4	4	5
	3000 ppm	3	3	3	3	4	4	4	4	4	4	4	4	4	4
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTON	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	5	5	5	8	9	9	11	12	13	14	14	14	14	14
	333 ppm	3	3	3	3	3	3	3	3	4	4	4	4	5	6
	1000 ppm	5	5	5	5	5	5	5	6	6	6	6	6	7	8
	3000 ppm	4	5	6	6	6	7	7	8	8	8	8	8	8	8
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	1000 ppm	0	0	0	2	2	1	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	14	15	16	16	16	16
	333 ppm	7	7	7	7	7	8
	1000 ppm	8	8	8	9	10	10
	3000 ppm	8	8	9	9	10	10
MORIBUND SACRIFICE	Control	0	0	0	0	1	1
	333 ppm	0	0	0	0	1	1
	1000 ppm	1	1	1	1	1	2
	3000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
ROTATING	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
PILOERECTIO	Control	0	0	0	0	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	1
	3000 ppm	1	1	0	0	0	1
FROG BELLY	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	1000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	3000 ppm	0	0	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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0		0	0	1	1	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	1000 ppm	2	2	2		2	2	2	2	2	2	2	2	2	1	1
	3000 ppm	1	1	1		1	1	1	1	1	2	2	2	2	2	2
M.NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	1	1	1	1	1	1	3	3	3	3	3
	333 ppm	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
EXOPHTHALMOS	Control	0	0	0	1	1	1	1	1	1	1	2	2	2	2
	333 ppm	1	1	1	1	1	1	1	0	1	1	1	1	1	1
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	3	4	4	3	3	4	3	2	0	0	0	1	1	2
	333 ppm	1	6	6	6	6	6	5	4	1	1	2	2	1	1
	1000 ppm	0	2	2	2	2	2	1	0	0	0	1	1	1	1
	3000 ppm	2	1	0	0	0	0	0	0	0	0	0	0	0	0
M.NOSE	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
EXOPHTHALMOS	Control	2	2	2	2	2	2
	333 ppm	1	1	1	1	1	2
	1000 ppm	2	2	2	2	2	2
	3000 ppm	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	1	2	2	2
	333 ppm	1	1	1	6	5	5
	1000 ppm	1	1	1	2	2	1
	3000 ppm	0	0	0	1	1	1
M.NOSE	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
M.HEAD	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	1	1	1	1	1	1	1	1	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
M.BREAST	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	1	1	1	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1		1	1	1	1	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.TAIL	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M.BREAST	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
M.TAIL	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	1
	3000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	1	1	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	1	1	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	0	0	0	0	0	0	0	0	1	0	2	0

(HAN190)

BAIS 3

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

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Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
HEMATURIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		1	1	1	1	0	0	0	0	0	0	0
	333 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0		1	1	1	1	2	1	1	1	1	1	1
	3000 ppm	0	0	0		0	0	0	0	0	0	1	0	0	0	1

(HAN190)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE C-j:BDF1  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1000 ppm	1	2	2	2	2	2	1	1	0	0	0	0	2	2
	3000 ppm	1	1	1	1	1	1	1	0	0	0	0	1	0	0

(HAN190)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
HEMATURIA	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	1000 ppm	0	1	1	0	0	2	2	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0	0	1	0	1	0	1	1	0
	1000 ppm	0	1	1	1	0	2	2	1	1	1	0	0	1	0
	3000 ppm	0	0	0	1	1	0	0	0	0	0	0	0	1	1

(HAN190)

BAIS3

STUDY NO. : 0268  
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					
		99-7	100-7	101-7	102-7	103-7	104-7
HEMATURIA	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	1	0	0	0
	3000 ppm	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	2	2	1	1
	333 ppm	0	0	0	0	0	0
	1000 ppm	0	0	1	0	1	1
	3000 ppm	1	1	0	0	0	1

(HAN190)

BAIS 3

## APPENDIX A 2

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0268  
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													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	1	2	2	2	2	2	3	3	3	3	3	3
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	1	1	1	1	1	1	1	1	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
ATAXIC GAIT	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0268  
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													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	3	3	3	3	3	3	3	3	5	6	6	7	7	7
	1500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	6000 ppm	2	2	2	2	2	2	2	2	2	3	3	3	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	8	8	8	8	8	8	8	8	8	8	9	9	10	11
	1500 ppm	1	1	2	3	4	5	5	5	5	5	5	5	6	6
	3000 ppm	1	1	1	1	1	1	2	2	3	5	5	6	6	6
	6000 ppm	3	3	3	3	3	3	3	3	3	3	3	4	5	5
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	12	12	14	14	14	14	15	15	15	15	15	16	16	16
	1500 ppm	6	6	7	8	8	10	11	12	12	12	14	14	14	15
	3000 ppm	6	6	6	6	6	6	6	7	9	10	10	10	10	11
	6000 ppm	5	6	6	6	7	7	7	8	9	9	10	10	10	10
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	16	17	18	18	18	18
	1500 ppm	16	16	16	17	17	19
	3000 ppm	12	13	13	13	15	16
	6000 ppm	10	10	10	10	10	10
MORIBUND SACRIFICE	Control	0	0	1	1	2	2
	1500 ppm	1	1	1	2	2	2
	3000 ppm	0	1	1	1	2	2
	6000 ppm	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
LATERAL	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	1	1	1
WASTING	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	1	0	0
	6000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	1	1	1	0	0	0	1	1	1	1
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	0	0	0	1	0	0	0	0	0	0
	6000 ppm	0	1	2	2	6	5	2	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	0	0	1	1	1	1	1	2	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	1	1	1	1	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	1	1	1	1	1	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	1	1	0	1	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	2	1	1	1	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	1	2	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
	3000 ppm	0	0	0	0	0	0	2	2	1	1	1	1	2	3
	6000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	3000 ppm	0	0	0	0	0	0	1	1	0	0	0	1	1	2
	6000 ppm	1	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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	1	1	1	0	0
	6000 ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	1	1	2	1
	1500 ppm	0	0	0	0	0	1
	3000 ppm	3	3	3	3	1	1
	6000 ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	1500 ppm	0	0	1	0	0	0
	3000 ppm	1	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	2
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	2
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	1	1		1	1	2	2	2	2	2	2	2	2	2
M.NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
M.EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
EXTERNAL MASS	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1500 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	6000 ppm	2	3	3	3	3	3	4	4	4	3	3	3	3	3
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.BREAST	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
INTERNAL MASS	Control	0	0	0	0	0	1	1	1	1	1	0	0	2	2
	1500 ppm	1	2	3	2	2	2	2	2	2	2	5	5	4	4
	3000 ppm	0	0	0	0	0	1	1	1	1	0	1	1	2	4
	6000 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	4
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	2	2	2	2	2	2	2	1	1	1	1	1	1	1
INTERNAL MASS	Control	2	2	0	0	0	0	1	1	1	1	2	1	1	1
	1500 ppm	4	4	4	4	4	2	2	2	2	3	2	2	2	2
	3000 ppm	4	4	3	3	3	3	4	3	4	4	4	4	4	4
	6000 ppm	4	3	2	2	1	1	3	3	3	3	2	2	2	2
M.NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	1	1	1	1	1	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
EXTERNAL MASS	Control	0	0	0	1	3	2
	1500 ppm	0	0	3	3	3	2
	3000 ppm	0	1	1	1	1	1
	6000 ppm	1	1	1	1	1	1
INTERNAL MASS	Control	1	1	1	1	1	1
	1500 ppm	3	3	3	2	2	2
	3000 ppm	4	3	3	3	3	3
	6000 ppm	2	2	2	2	2	2
M.NOSE	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1
M.EYE	Control	0	0	0	0	1	1
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
M.MANDIBULAR	Control	0	0	0	1	1	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
M.NECK	Control	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
M.BREAST	Control	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
M.ABDOMEN	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
M.ANTERIOR.DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	1	1	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
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	1	1	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	1		0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

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CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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	1	1	1	1	1	1
	1500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
M.GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	1	0	1	1	1	1	0	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	1	1	0	1	1	1	1	0	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3000 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M.ANTERIOR.DORSUM	Control	0	0	0	0	1	1
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	1	1	1	1	1
	6000 ppm	0	0	0	0	0	0
M.GENITALIA	Control	0	0	0	0	0	0
	1500 ppm	0	0	1	1	1	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	1
	6000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	1	0
	1500 ppm	0	0	1	0	0	0
	3000 ppm	1	0	1	1	0	0
	6000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	1	0	1	0
	1500 ppm	0	0	1	0	0	0
	3000 ppm	1	0	1	1	0	0
	6000 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	0	1	1	1	0
	1500 ppm	0	0	1	0	0	0
	3000 ppm	1	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BA1S3



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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	1	1	1	1	1	1	1	0	0	0	1	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0268  
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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
OLIGO-STOOL	Control	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	1500 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	1	2	1	0	1	1	1	0	0	0	0	0	0
	6000 ppm	0	0	1	1	1	1	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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	3000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	6000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	2	0	0	0	0	0	0	1	1	0	0
	3000 ppm	0	0	0	0	0	0	1	0	0	0	1	1	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1500 ppm	0	0	0	0	1	0	1	1	1	1	0	0	0	1
	3000 ppm	0	0	0	0	0	0	2	1	3	1	0	0	0	0
	6000 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
	1500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
OLIGO-STOOL	Control	1	1	1	1	1	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	1	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	1	0	0	0
	1500 ppm	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0
	6000 ppm	0	0	0	0	0	0

(HAN190)

BAIS 3

## APPENDIX B 1

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



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	23.1± 0.7	23.9± 0.8	24.9± 0.8	25.4± 1.2	26.2± 1.3	26.6± 1.5	27.2± 1.7
333 ppm	23.1± 0.7	23.9± 0.8	24.7± 0.9	25.2± 1.0	25.9± 1.6	26.8± 1.3	27.3± 1.3
1000 ppm	23.1± 0.7	23.8± 1.1	24.7± 0.9	25.4± 0.9	25.8± 1.0	26.5± 1.0	27.1± 1.2
3000 ppm	23.1± 0.7	23.2± 1.0**	24.0± 1.1**	24.5± 1.0**	25.1± 1.0**	25.9± 1.3*	26.0± 1.2**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	7	8	9	10	11	12	13
Control	28.1± 1.6	28.3± 1.9	28.8± 2.1	29.3± 1.9	30.2± 2.5	30.8± 2.6	31.8± 2.3
333 ppm	28.2± 1.4	28.7± 1.6	29.2± 1.7	29.6± 2.0	30.5± 1.9	31.1± 2.2	31.8± 2.3
1000 ppm	27.7± 1.2	28.4± 1.5	28.8± 1.6	29.2± 1.7	30.1± 1.8	30.5± 2.0	31.3± 2.1
3000 ppm	26.5± 1.2**	26.8± 1.8**	27.1± 1.8**	27.3± 1.8**	27.9± 2.2**	28.5± 1.4**	28.8± 1.7**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	32.3± 2.7	35.4± 2.7	38.2± 2.5	39.7± 3.0	42.2± 3.2	44.6± 3.4	46.1± 3.4
333 ppm	32.4± 2.5	35.4± 2.9	37.6± 3.1	38.8± 3.4	41.6± 3.7	43.4± 4.2	44.9± 4.2
1000 ppm	31.8± 2.1	34.8± 2.5	36.8± 2.7*	38.1± 2.9*	40.3± 3.3*	41.9± 3.8**	43.4± 3.7**
3000 ppm	29.1± 1.8**	31.1± 2.0**	32.3± 2.3**	33.1± 2.4**	34.6± 2.9**	35.8± 3.2**	36.8± 3.2**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 4

Group Name	Administration week						
	42	46	50	54	58	62	66
Control	47.3± 3.2	48.1± 3.1	48.7± 4.2	49.0± 2.6	49.5± 3.0	50.1± 3.3	50.8± 4.1
333 ppm	45.8± 4.1	47.0± 4.0	47.5± 3.9	47.5± 3.9	47.9± 3.8	48.7± 4.0	49.1± 4.8
1000 ppm	43.9± 3.9**	44.6± 4.4**	45.4± 4.6**	45.1± 5.0**	45.5± 5.4**	46.6± 5.8**	46.9± 6.1**
3000 ppm	37.3± 3.4**	38.1± 3.5**	38.5± 3.5**	38.4± 4.1**	38.3± 4.1**	39.0± 4.3**	39.7± 3.7**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	51.4± 4.3	51.6± 5.5	52.5± 5.2	53.2± 4.9	52.5± 6.0	52.9± 5.4	53.8± 5.1
333 ppm	50.2± 5.2	50.9± 5.0	51.8± 4.5	52.1± 4.5	51.7± 5.0	51.6± 5.7	52.1± 6.6
1000 ppm	48.2± 6.5*	50.1± 3.7	50.5± 3.7	50.2± 4.5**	49.7± 5.3*	49.4± 6.8*	50.0± 6.1*
3000 ppm	41.2± 3.8**	41.8± 3.9**	42.5± 3.8**	42.5± 4.0**	41.8± 4.4**	41.5± 4.4**	42.1± 4.4**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration week		
	98	102	104
Control	52.3± 5.7	51.1± 7.5	49.6± 8.7
333 ppm	51.1± 6.5	50.2± 6.6	49.0± 6.2
1000 ppm	49.4± 5.4	48.8± 6.0	48.2± 6.2
3000 ppm	40.9± 5.1**	40.8± 4.5**	40.3± 4.7**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			

(HAN260)

BAIS3

## APPENDIX B 2

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration week 0	1	2	3	4	5	6
Control	18.6± 0.6	19.4± 0.7	19.9± 0.7	20.6± 0.8	21.1± 0.9	21.5± 1.1	21.7± 1.1
1500 ppm	18.6± 0.6	19.5± 0.6	20.1± 0.9	20.7± 0.8	21.3± 0.8	21.5± 0.8	21.7± 0.9
3000 ppm	18.6± 0.6	18.9± 0.8**	19.4± 0.7**	20.2± 0.8*	20.5± 1.0**	20.8± 0.9*	21.0± 0.9**
6000 ppm	18.7± 0.6	18.4± 0.7**	18.5± 0.7**	19.1± 0.7**	19.5± 0.7**	19.9± 0.7**	20.4± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 3



STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 8

Group Name	Administration week 7	8	9	10	11	12	13
Control	22.3± 1.0	22.8± 1.3	23.1± 1.1	23.5± 1.1	23.7± 1.3	24.2± 1.4	24.3± 1.1
1500 ppm	22.3± 0.9	22.4± 1.0	23.1± 1.0	23.3± 1.0	23.3± 1.1	23.7± 1.1	24.2± 1.2
3000 ppm	21.4± 1.0**	21.5± 1.1**	22.0± 1.1**	22.0± 1.1**	22.5± 1.2**	22.3± 1.3**	22.6± 1.5**
6000 ppm	20.7± 0.8**	20.7± 0.8**	21.2± 0.8**	21.3± 0.8**	21.6± 0.8**	22.0± 0.8**	22.2± 0.8**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration week	14	18	22	26	30	34	38
Control		24.2± 1.4	25.9± 1.6	27.5± 2.5	27.8± 2.5	29.0± 3.3	30.2± 3.3	31.3± 3.4
1500 ppm		24.0± 1.3	25.2± 1.5	26.2± 1.7	26.9± 1.8	28.0± 2.2	29.2± 2.5	29.5± 2.9
3000 ppm		22.8± 1.2**	23.6± 1.3**	24.1± 1.4**	24.9± 1.7**	25.3± 1.5**	25.7± 1.4**	26.0± 1.8**
6000 ppm		22.0± 0.9**	22.9± 1.0**	23.2± 1.1**	23.7± 1.0**	23.7± 1.4**	24.3± 1.5**	24.4± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration week	42	46	50	54	58	62	66
Control		32.5± 3.7	33.3± 3.5	33.6± 3.8	34.1± 4.2	34.1± 4.0	34.2± 4.0	35.6± 4.5
1500 ppm		30.5± 2.9	30.9± 2.9	31.1± 2.7	31.0± 3.2	31.2± 3.1	31.5± 3.0	32.2± 3.1
3000 ppm		26.9± 1.6**	26.9± 1.9**	26.9± 1.7**	27.0± 1.7**	27.3± 2.0**	27.2± 1.8**	27.5± 2.2**
6000 ppm		24.4± 1.5**	25.0± 1.2**	25.2± 1.2**	24.7± 1.2**	25.0± 1.2**	25.1± 1.3**	25.1± 1.7**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	36.2± 5.1	36.7± 4.4	37.7± 4.8	37.8± 5.2	37.8± 5.2	37.7± 5.1	38.1± 4.5
1500 ppm	33.0± 3.2	33.0± 3.2*	33.8± 3.4*	34.2± 3.6	34.0± 3.2	33.2± 3.5*	33.7± 4.2
3000 ppm	27.8± 2.3**	28.1± 2.4**	28.7± 2.8**	28.9± 3.1**	28.6± 3.1**	28.9± 3.2**	28.7± 2.6**
6000 ppm	25.4± 1.9**	25.5± 2.4**	26.1± 2.6**	26.1± 2.9**	25.7± 2.0**	25.9± 3.3**	25.8± 1.6**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration week		
	98	102	104
Control	36.9± 4.4	36.6± 4.5	36.1± 5.3
1500 ppm	32.8± 3.4	32.8± 3.5	32.4± 4.1
3000 ppm	28.5± 3.4**	27.8± 3.1**	28.0± 2.3**
6000 ppm	25.2± 1.9**	25.2± 2.2**	25.7± 2.2**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			

(HAN260)

BAIS3

## APPENDIX C 1

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	4.3± 0.9	4.4± 0.9	4.2± 0.8	4.3± 0.8	4.2± 1.0	4.3± 0.9	4.1± 0.8
333 ppm	4.0± 0.7	3.9± 0.6	3.9± 0.6	4.0± 0.6	3.8± 0.8	3.7± 0.5**	3.5± 0.5*
1000 ppm	3.5± 0.7**	3.4± 0.5**	3.4± 0.4**	3.5± 0.4**	3.4± 0.6**	3.4± 0.7**	3.3± 0.9**
3000 ppm	2.9± 0.5**	2.6± 0.5**	2.6± 0.6**	2.4± 0.4**	2.6± 0.4**	2.4± 0.4**	2.3± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	4.0± 0.9	4.1± 0.9	4.0± 0.9	4.1± 1.1	4.0± 0.9	3.7± 0.8	3.8± 1.4
333 ppm	3.5± 0.4	3.5± 0.6**	3.5± 0.6*	3.6± 0.6	3.5± 0.7*	3.4± 0.5	3.4± 0.6
1000 ppm	3.2± 0.9**	3.2± 0.6**	3.1± 0.5**	3.3± 0.8**	3.1± 0.7**	3.1± 0.6**	3.1± 0.9**
3000 ppm	2.2± 0.3**	2.3± 0.5**	1.9± 0.4**	2.3± 0.4**	2.3± 0.4**	2.1± 0.5**	2.2± 0.6**

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

Test of Dunnett

(HAN260)

BAIS3



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	3.7± 1.4	3.2± 0.4	3.4± 0.4	3.3± 0.5	3.6± 0.4	3.6± 0.7	3.5± 0.3
333 ppm	3.4± 1.2	3.1± 0.5	3.4± 1.0	3.4± 0.9	3.3± 0.9**	3.4± 0.5	3.4± 0.8
1000 ppm	3.1± 0.8**	2.7± 0.6**	2.9± 0.5**	2.9± 0.4**	2.9± 0.3**	2.9± 0.3**	2.9± 0.4**
3000 ppm	2.1± 0.3**	2.0± 0.3**	2.1± 0.3**	2.0± 0.3**	2.2± 0.2**	2.1± 0.2**	2.2± 0.2**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration week						
	46	50	54	58	62	66	70
Control	3.6± 0.5	3.5± 0.4	3.7± 0.4	3.8± 0.4	3.8± 0.4	4.1± 0.6	4.0± 0.7
333 ppm	3.5± 0.5	3.4± 0.4	3.7± 0.6	3.7± 0.3	3.8± 1.1	3.9± 0.3	3.8± 0.8
1000 ppm	3.0± 0.5**	3.0± 0.8**	3.3± 1.0**	3.2± 1.0**	3.2± 1.1**	3.3± 0.9**	3.3± 0.7**
3000 ppm	2.2± 0.2**	2.2± 0.3**	2.4± 0.3**	2.4± 0.4**	2.4± 0.4**	2.3± 0.4**	2.4± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration week 74	78	82	86	90	94	98
Control	3.9± 0.5	4.3± 0.9	4.4± 0.8	4.3± 0.7	4.3± 0.6	4.3± 1.0	4.4± 1.0
333 ppm	3.7± 0.6	4.0± 0.5	4.0± 0.5	4.0± 0.4	4.0± 0.6	4.1± 0.6	3.9± 0.6
1000 ppm	3.3± 0.4**	3.3± 0.5**	3.5± 0.4**	3.5± 0.5**	3.5± 0.7**	3.6± 0.7**	3.5± 0.6**
3000 ppm	2.4± 0.3**	2.6± 0.3**	2.6± 0.3**	2.6± 0.2**	2.6± 0.3**	2.7± 0.3**	2.4± 0.2**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration week	
	102	104
Control	4.8± 1.6	5.0± 1.2
333 ppm	4.0± 0.7	4.1± 0.7*
1000 ppm	3.5± 0.6**	3.8± 1.1**
3000 ppm	2.4± 0.4**	2.4± 0.3**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS3

## APPENDIX C 2

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	3.8± 0.4	4.1± 0.6	4.3± 0.8	4.4± 1.2	4.5± 1.5	4.6± 1.4	4.5± 0.8
1500 ppm	3.1± 0.3**	3.2± 0.4**	3.2± 0.3**	3.1± 0.4**	3.2± 0.4**	3.3± 0.5**	3.3± 0.5**
3000 ppm	2.5± 0.3**	2.4± 0.4**	2.6± 0.3**	2.4± 0.6**	2.5± 0.4**	2.5± 0.5**	2.5± 0.5**
6000 ppm	2.0± 0.3**	1.7± 0.3**	1.9± 0.2**	1.7± 0.3**	1.8± 0.4**	1.7± 0.4**	1.8± 0.5**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration week 8	9	10	11	12	13	14
Control	4.8± 1.7	4.3± 0.6	4.4± 0.7	4.0± 0.5	4.3± 1.1	4.1± 0.9	4.4± 1.3
1500 ppm	3.1± 0.6**	3.3± 0.6**	3.2± 0.8**	3.1± 0.6**	3.1± 0.7**	3.0± 0.5**	3.1± 0.5**
3000 ppm	2.5± 0.7**	2.4± 0.7**	2.4± 0.7**	2.4± 0.3**	2.4± 0.4**	2.4± 0.4**	2.5± 0.4**
6000 ppm	1.8± 0.4**	2.0± 0.5**	1.8± 0.5**	1.8± 0.4**	1.9± 0.4**	1.9± 0.5**	1.9± 0.4**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration week 18	22	26	30	34	38	42
Control	4.0± 0.9	4.2± 0.9	3.9± 1.0	3.8± 1.0	4.3± 1.8	3.8± 0.6	3.8± 0.6
1500 ppm	3.0± 0.6**	2.8± 0.3**	2.8± 0.5**	2.8± 0.6**	2.8± 0.4**	2.9± 0.4**	2.7± 0.4**
3000 ppm	2.4± 0.6**	2.2± 0.5**	2.3± 0.4**	2.2± 0.4**	2.4± 0.6**	2.3± 0.5**	2.3± 0.4**
6000 ppm	1.8± 0.3**	1.7± 0.3**	1.7± 0.4**	1.8± 0.4**	1.9± 0.3**	1.8± 0.5**	1.7± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 3



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration week 46	50	54	58	62	66	70
Control	3.6± 0.5	3.9± 0.8	4.0± 1.2	3.9± 0.7	3.9± 0.7	4.4± 1.2	3.9± 1.0
1500 ppm	2.7± 0.4**	2.9± 0.3**	2.8± 0.4**	2.8± 0.5**	2.8± 0.4**	3.1± 0.9**	2.8± 0.9**
3000 ppm	2.3± 0.5**	2.3± 0.5**	2.4± 0.4**	2.4± 0.6**	2.4± 0.4**	2.4± 0.6**	2.4± 0.5**
6000 ppm	1.7± 0.3**	1.8± 0.4**	1.9± 0.3**	1.9± 0.3**	1.8± 0.3**	1.8± 0.4**	1.8± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration week 74	78	82	86	90	94	98
Control	4.2± 0.8	4.0± 0.9	3.9± 1.0	3.8± 0.5	3.9± 0.6	4.0± 0.6	3.9± 0.6
1500 ppm	2.8± 0.6**	2.8± 0.5**	3.0± 0.6**	2.9± 0.5**	2.8± 0.6**	2.8± 0.6**	2.8± 0.7**
3000 ppm	2.5± 0.5**	2.4± 0.6**	2.5± 0.4**	2.5± 0.4**	2.5± 0.5**	2.5± 0.7**	2.5± 0.7**
6000 ppm	1.9± 0.4**	1.9± 0.4**	1.9± 0.3**	1.9± 0.3**	1.9± 0.3**	1.8± 0.3**	1.8± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration week	
	102	104
Control	3.9± 0.9	4.1± 0.7
1500 ppm	2.9± 0.7*	3.1± 0.6**
3000 ppm	2.7± 0.9**	2.7± 0.7**
6000 ppm	1.8± 0.4**	2.0± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3

## APPENDIX D 1

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	3.4± 0.2	3.5± 0.2	3.4± 0.3	3.5± 0.3	3.5± 0.3	3.5± 0.3	3.6± 0.2
333 ppm	3.4± 0.2	3.4± 0.2	3.3± 0.3	3.5± 0.3	3.5± 0.2	3.5± 0.2	3.6± 0.2
1000 ppm	3.4± 0.3	3.4± 0.3	3.4± 0.2	3.5± 0.3	3.5± 0.2	3.5± 0.2	3.6± 0.2
3000 ppm	3.1± 0.3**	3.3± 0.3*	3.3± 0.2	3.4± 0.3	3.3± 0.3*	3.3± 0.2**	3.4± 0.2**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration week 8	9	10	11	12	13	14
Control	3.5± 0.3	3.6± 0.3	3.6± 0.3	3.8± 0.3	3.8± 0.3	3.9± 0.3	3.8± 0.3
333 ppm	3.5± 0.2	3.6± 0.2	3.6± 0.2	3.7± 0.2	3.7± 0.2	3.8± 0.2*	3.8± 0.3
1000 ppm	3.6± 0.2	3.6± 0.3	3.6± 0.3	3.6± 0.2**	3.7± 0.2	3.7± 0.2**	3.7± 0.3
3000 ppm	3.3± 0.3**	3.4± 0.3**	3.3± 0.2**	3.4± 0.2**	3.5± 0.2**	3.4± 0.3**	3.4± 0.2**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	3.9± 0.3	3.9± 0.3	4.0± 0.3	4.1± 0.3	4.2± 0.3	4.3± 0.3	4.3± 0.3
333 ppm	3.9± 0.2	3.8± 0.3	3.9± 0.2	4.0± 0.2	4.0± 0.3*	4.2± 0.2*	4.1± 0.3*
1000 ppm	3.8± 0.3	3.8± 0.3	3.8± 0.3*	3.9± 0.3*	4.0± 0.3**	4.0± 0.3**	4.0± 0.3**
3000 ppm	3.5± 0.2**	3.5± 0.2**	3.5± 0.2**	3.6± 0.2**	3.6± 0.2**	3.7± 0.3**	3.6± 0.3**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration week	46	50	54	58	62	66	70
Control		4.2± 0.4	4.4± 0.4	4.4± 0.3	4.5± 0.4	4.6± 0.3	4.5± 0.4	4.4± 0.4
333 ppm		4.1± 0.3	4.3± 0.3	4.2± 0.3	4.4± 0.3	4.4± 0.3*	4.3± 0.5	4.2± 0.3*
1000 ppm		4.1± 0.7**	4.3± 0.8	4.2± 0.5**	4.4± 0.4	4.3± 0.4**	4.1± 0.5**	4.1± 0.5*
3000 ppm		3.7± 0.3**	3.8± 0.3**	3.8± 0.3**	3.9± 0.3**	3.9± 0.3**	3.8± 0.3**	3.8± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

- PAGE : 5

Group Name	Administration week 74	78	82	86	90	94	98
Control	4.4± 0.5	4.8± 0.5	4.7± 0.4	4.7± 0.4	4.7± 0.6	4.8± 0.6	4.4± 0.7
333 ppm	4.3± 0.7	4.6± 0.4	4.6± 0.4	4.5± 0.4	4.5± 0.5	4.5± 0.5	4.3± 0.5
1000 ppm	4.4± 0.3	4.5± 0.5**	4.6± 0.6	3.7± 0.5**	4.6± 0.6	4.6± 0.5	4.4± 0.4
3000 ppm	3.9± 0.4**	4.0± 0.3**	4.2± 0.3**	4.1± 0.4**	4.3± 0.4**	4.2± 0.3**	4.0± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration week	
	102	104
Control	4.5± 0.9	4.6± 0.7
333 ppm	4.3± 0.6	4.4± 0.5
1000 ppm	4.4± 0.5	4.4± 0.6
3000 ppm	3.9± 0.4**	4.0± 0.4**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS3

## APPENDIX D 2

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	1	2	3	4	5	6	7
Control	2.8± 0.2	2.9± 0.2	3.1± 0.2	3.1± 0.2	3.2± 0.2	3.2± 0.2	3.3± 0.2
1500 ppm	2.8± 0.2	2.8± 0.2	3.0± 0.2*	3.1± 0.2	3.1± 0.2	3.2± 0.2	3.2± 0.2
3000 ppm	2.6± 0.3*	2.7± 0.2**	2.9± 0.2**	2.9± 0.2**	3.0± 0.2**	3.0± 0.2**	3.1± 0.2**
6000 ppm	2.4± 0.3**	2.5± 0.2**	2.7± 0.2**	2.7± 0.2**	2.8± 0.2**	2.9± 0.2**	2.9± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration week						
	8	9	10	11	12	13	14
Control	3.3± 0.2	3.4± 0.2	3.4± 0.2	3.2± 0.3	3.5± 0.4	3.4± 0.3	3.4± 0.3
1500 ppm	3.2± 0.3*	3.3± 0.2	3.3± 0.3*	2.8± 0.3**	3.4± 0.3	3.3± 0.3	3.4± 0.3
3000 ppm	3.0± 0.2**	3.1± 0.2**	3.0± 0.3**	3.1± 0.3	3.1± 0.2**	3.1± 0.4**	3.3± 0.3**
6000 ppm	2.9± 0.2**	3.0± 0.2**	2.9± 0.2**	3.0± 0.2**	3.1± 0.3**	3.1± 0.3**	3.1± 0.3**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	18	22	26	30	34	38	42
Control	3.6± 0.3	3.7± 0.4	3.7± 0.6	3.8± 0.5	4.0± 0.4	4.1± 0.5	4.2± 0.5
1500 ppm	3.4± 0.3*	3.5± 0.3	3.7± 0.3	3.7± 0.3	3.8± 0.4	3.8± 0.5*	3.9± 0.5*
3000 ppm	3.2± 0.2**	3.3± 0.3**	3.4± 0.3**	3.4± 0.3**	3.5± 0.4**	3.7± 0.4**	3.7± 0.3**
6000 ppm	3.1± 0.3**	3.1± 0.3**	3.2± 0.4**	3.2± 0.4**	3.5± 0.4**	3.5± 0.4**	3.4± 0.3**

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

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration week 46	50	54	58	62	66	70
Control	4.2± 0.5	4.1± 0.5	4.0± 0.6	4.0± 0.5	4.0± 0.5	4.1± 0.6	4.4± 0.5
1500 ppm	4.1± 0.4	4.0± 0.3	3.7± 0.4	3.8± 0.4	3.8± 0.4	3.7± 0.5**	3.9± 0.5**
3000 ppm	3.7± 0.4**	3.6± 0.4**	3.5± 0.4**	3.7± 0.4**	3.6± 0.3**	3.4± 0.4**	3.7± 0.5**
6000 ppm	3.6± 0.4**	3.6± 0.4**	3.4± 0.4**	3.5± 0.5**	3.5± 0.3**	3.2± 0.5**	3.5± 0.4**

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

Test of Dunnett

(HAN260)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	74	78	82	86	90	94	98
Control	4.4± 0.6	4.2± 0.6	4.2± 0.8	4.1± 0.6	4.2± 0.5	4.3± 0.5	3.9± 0.5
1500 ppm	3.9± 0.7**	3.8± 0.6*	4.1± 0.6	3.9± 0.6	4.0± 0.5	4.0± 0.7*	3.9± 0.5
3000 ppm	3.8± 0.4**	3.6± 0.5**	3.9± 0.6*	3.8± 0.5	3.9± 0.5**	3.9± 0.5**	3.7± 0.6*
6000 ppm	3.7± 0.4**	3.7± 0.5**	3.7± 0.5**	3.9± 0.5	3.7± 0.5**	3.6± 0.4**	3.4± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 3



STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration week	
	102	104
Control	4.1± 0.8	4.3± 0.5
1500 ppm	3.9± 0.4	3.8± 0.6**
3000 ppm	3.7± 0.6**	3.8± 0.5**
6000 ppm	3.3± 0.4**	3.7± 0.5**
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett		

(HAN260)

BAIS3

## APPENDIX E 1

CHEMICAL INTAKE CHANGES : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0268  
ANIMAL : MOUSE C<sub>7</sub>:BDF<sub>1</sub>  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)						
	1	2	3	4	5	6	7
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
333 ppm	0.251± 0.045	0.239± 0.037	0.231± 0.037	0.232± 0.034	0.212± 0.043	0.202± 0.031	0.186± 0.028
1000 ppm	0.444± 0.086	0.416± 0.061	0.406± 0.051	0.401± 0.053	0.388± 0.064	0.373± 0.076	0.356± 0.101
3000 ppm	0.734± 0.137	0.638± 0.115	0.635± 0.139	0.583± 0.083	0.594± 0.094	0.554± 0.087	0.524± 0.077

(HAN300)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
333 ppm	0.185± 0.026	0.182± 0.030	0.179± 0.032	0.178± 0.031	0.169± 0.037	0.162± 0.031	0.161± 0.034			
1000 ppm	0.337± 0.103	0.332± 0.071	0.322± 0.055	0.330± 0.089	0.310± 0.073	0.300± 0.068	0.290± 0.095			
3000 ppm	0.505± 0.091	0.516± 0.126	0.427± 0.104	0.492± 0.085	0.474± 0.075	0.440± 0.111	0.452± 0.122			

(HAN300)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : AI 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)									
	18	22	26	30	34	38	42			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
333 ppm	0.147± 0.056	0.125± 0.025	0.132± 0.042	0.122± 0.037	0.116± 0.035	0.115± 0.024	0.114± 0.036			
1000 ppm	0.271± 0.077	0.218± 0.055	0.231± 0.043	0.218± 0.035	0.210± 0.029	0.205± 0.028	0.201± 0.027			
3000 ppm	0.406± 0.067	0.373± 0.068	0.384± 0.049	0.354± 0.052	0.365± 0.049	0.352± 0.054	0.359± 0.049			

(HAN300)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)						
	46	50	54	58	62	66	70
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
333 ppm	0.114± 0.020	0.109± 0.021	0.118± 0.029	0.117± 0.017	0.119± 0.046	0.119± 0.019	0.116± 0.033
1000 ppm	0.208± 0.066	0.204± 0.087	0.227± 0.142	0.222± 0.126	0.216± 0.135	0.217± 0.115	0.211± 0.095
3000 ppm	0.350± 0.049	0.346± 0.048	0.377± 0.058	0.376± 0.079	0.371± 0.070	0.356± 0.074	0.358± 0.054

(HAN300)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 5

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
333 ppm	0.110± 0.022	0.115± 0.017	0.117± 0.021	0.116± 0.017	0.119± 0.025	0.118± 0.024	0.116± 0.023			
1000 ppm	0.198± 0.024	0.198± 0.028	0.208± 0.023	0.211± 0.028	0.213± 0.039	0.220± 0.045	0.214± 0.056			
3000 ppm	0.349± 0.049	0.372± 0.041	0.365± 0.046	0.375± 0.044	0.381± 0.055	0.392± 0.051	0.349± 0.042			

(HAN300)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
333 ppm	0.122± 0.028	0.129± 0.034
1000 ppm	0.219± 0.054	0.245± 0.088
3000 ppm	0.359± 0.062	0.362± 0.054

(HAN300)

BAIS 3



## APPENDIX E 2

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)						
	1	2	3	4	5	6	7
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1500 ppm	0.239± 0.023	0.236± 0.035	0.234± 0.023	0.217± 0.029	0.226± 0.030	0.226± 0.043	0.219± 0.034
3000 ppm	0.392± 0.052	0.373± 0.059	0.383± 0.047	0.351± 0.087	0.358± 0.054	0.352± 0.066	0.348± 0.077
6000 ppm	0.654± 0.096	0.544± 0.083	0.591± 0.072	0.515± 0.085	0.550± 0.109	0.513± 0.129	0.525± 0.132

(HAN300)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
1500 ppm	0.209± 0.046	0.213± 0.045	0.209± 0.055	0.202± 0.042	0.199± 0.046	0.188± 0.028	0.192± 0.033			
3000 ppm	0.353± 0.095	0.327± 0.094	0.332± 0.088	0.320± 0.042	0.320± 0.051	0.314± 0.054	0.328± 0.055			
6000 ppm	0.534± 0.101	0.561± 0.146	0.516± 0.128	0.496± 0.093	0.523± 0.094	0.510± 0.114	0.519± 0.107			

(HAN300)

BAIS 3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)									
	18	22	26	30	34	38	42			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
1500 ppm	0.180± 0.035	0.162± 0.023	0.154± 0.030	0.151± 0.036	0.147± 0.029	0.149± 0.028	0.136± 0.027			
3000 ppm	0.304± 0.083	0.272± 0.072	0.278± 0.057	0.267± 0.049	0.283± 0.083	0.271± 0.056	0.260± 0.053			
6000 ppm	0.485± 0.083	0.428± 0.077	0.443± 0.093	0.446± 0.082	0.473± 0.094	0.454± 0.140	0.422± 0.216			

(HAN300)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)									
	46	50	54	58	62	66	70			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
1500 ppm	0.134± 0.026	0.140± 0.023	0.137± 0.028	0.136± 0.029	0.133± 0.024	0.142± 0.041	0.130± 0.040			
3000 ppm	0.258± 0.056	0.259± 0.060	0.268± 0.056	0.265± 0.087	0.262± 0.062	0.266± 0.079	0.258± 0.072			
6000 ppm	0.413± 0.059	0.436± 0.085	0.458± 0.077	0.448± 0.065	0.438± 0.071	0.439± 0.087	0.432± 0.070			

(HAN300)

BAIS 3

STUDY NO. : 0268  
ANIMAL : MOUSE Cr-j:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 11

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
1500 ppm	0.127± 0.026	0.127± 0.024	0.133± 0.025	0.129± 0.025	0.130± 0.033	0.126± 0.030	0.128± 0.035			
3000 ppm	0.274± 0.073	0.256± 0.078	0.266± 0.059	0.266± 0.064	0.259± 0.060	0.268± 0.087	0.269± 0.094			
6000 ppm	0.445± 0.086	0.447± 0.088	0.449± 0.071	0.455± 0.064	0.446± 0.060	0.420± 0.071	0.421± 0.059			

(HAN300)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
1500 ppm	0.135± 0.030	0.144± 0.027
3000 ppm	0.298± 0.129	0.288± 0.084
6000 ppm	0.420± 0.084	0.458± 0.080

(HAN300)

BAIS3

## APPENDIX F 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : MALE

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 <sup>9</sup> /μl	
Control	31	9.11±	1.54	13.1±	2.1	41.3±	6.1	45.8±	3.4	14.4±	0.9	31.5±	1.4	1945±	464
333 ppm	41	9.57±	0.67	13.6±	0.9	43.0±	2.6	45.0±	1.5	14.3±	0.6	31.7±	0.8	1928±	498
1000 ppm	36	9.80±	1.66**	13.8±	1.7	43.9±	5.2*	45.2±	3.2	14.2±	1.2	31.5±	1.4	1954±	424
3000 ppm	40	9.71±	0.47	14.1±	0.6**	43.9±	2.2	45.2±	0.9	14.6±	0.7	32.3±	1.3	2169±	280*

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

Test of Dunnett

(HCL070)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	WBC 10 <sup>3</sup> /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHERS	
Control	31	2.58±	1.61	1±	3	31±	11	1±	1	0±	0	4±	2	61±	12	2±	3
333 ppm	41	2.91±	1.75	0±	0	26±	12	2±	4	0±	0	4±	2	65±	14	2±	7
1000 ppm	36	2.92±	1.65	0±	1	28±	16	1±	1	0±	0	4±	2	65±	16	2±	3
3000 ppm	40	2.47±	1.25	0±	1	22±	7**	1±	1	0±	0	4±	2	71±	8**	1±	2

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS3

## APPENDIX F 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0268  
 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 <sup>6</sup> /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 <sup>3</sup> /μl	
Control	29	9.17±	1.37	13.5±	2.0	41.7±	5.7	45.7±	2.2	14.7±	0.8	32.3±	1.4	1154±	305
1500 ppm	29	9.05±	1.52	13.0±	2.1	41.4±	5.9	46.2±	3.4	14.4±	0.7	31.3±	1.5	1145±	424
3000 ppm	32	9.33±	0.78	13.3±	1.3	41.8±	3.5	44.8±	1.4	14.3±	0.8	31.9±	1.2	1361±	299
6000 ppm	36	9.06±	1.42	13.0±	1.7	40.9±	4.7	45.9±	5.6	14.6±	1.3	31.8±	2.0	1319±	327

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

Test of Dunnett

(HCL070)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	WBC 10 <sup>3</sup> /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHERS	
Control	29	2.84±	2.68	0±	1	27±	12	1±	1	0±	0	5±	2	57±	17	9±	13
1500 ppm	29	17.00±	73.61	1±	1	30±	16	1±	1	0±	0	5±	3	53±	21	11±	21
3000 ppm	32	1.63±	0.81*	1±	1	29±	13	1±	1	0±	0	4±	2	62±	15	4±	6
6000 ppm	36	1.24±	0.63**	1±	1	35±	16	1±	1	0±	0	4±	2	55±	16	4±	4

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS3

## APPENDIX G 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

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	31	5.1±	0.6	2.8±	0.3	1.2±	0.1	0.17±	0.05	186±	37	113±	31	56±	25
333 ppm	41	5.4±	0.7	2.9±	0.4	1.2±	0.2	0.16±	0.03	188±	32	117±	40	43±	16
1000 ppm	36	5.3±	0.9	2.8±	0.5	1.2±	0.2	0.17±	0.04	186±	36	109±	47	46±	27
3000 ppm	40	4.9±	0.3*	2.7±	0.1	1.2±	0.1	0.16±	0.02	179±	25	85±	12**	38±	11**

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0268  
 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	31	87±	63	84±	140	508±	844	141±	40	51±	18	23.2±	9.2	153±	2
333 ppm	41	86±	59	58±	67	438±	530	143±	37	56±	41	20.9±	3.0	153±	2
1000 ppm	36	119±	162	70±	95	419±	419	150±	42	62±	89	27.7±	41.4	153±	2
3000 ppm	40	56±	6**	17±	5**	245±	42**	141±	20	53±	14	20.2±	3.0*	153±	1

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

Test of Dunnett

(HCL074)

BAIS3



STUDY NO. : 0268  
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	31	4.4±	0.6	120±	3	9.0±	0.4	6.7±	1.3
333 ppm	41	4.3±	0.5	119±	3	9.2±	0.5	6.2±	0.7
1000 ppm	36	4.2±	0.7	119±	4	9.1±	0.8	6.8±	2.0
3000 ppm	40	4.2±	0.5	120±	2	8.7±	0.3**	6.7±	0.9

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

## APPENDIX G 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

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	4.9±	0.6	2.8±	0.4	1.3±	0.2	0.17±	0.04	130±	33	78±	51	35±	21
1500 ppm	29	4.9±	0.7	2.7±	0.2	1.2±	0.2	0.18±	0.08	124±	45	63±	22	34±	25
3000 ppm	32	5.0±	0.6	2.7±	0.2	1.3±	0.2	0.16±	0.02	131±	20	73±	20	27±	15
6000 ppm	36	4.6±	0.6	2.7±	0.3	1.4±	0.2	0.17±	0.08	132±	27	66±	11	22±	8**

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE. TIME : 1  
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

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	133±	89	45±	26	455±	412	221±	95	89±	86	19.2±	10.9	152±	2
1500 ppm	29	149±	166	40±	35	703±	1105	266±	133	97±	85	22.4±	20.6	153±	3
3000 ppm	32	86±	46**	25±	24**	284±	141**	260±	90	87±	84	19.5±	9.3	152±	2
6000 ppm	36	79±	34**	19±	15**	521±	984	266±	78	112±	98	23.1±	8.8**	154±	4

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

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
MEASURE. TIME : 1  
SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
Control	29	4.3±	0.5	120±	3	9.2±	0.6	6.5±	1.1
1500 ppm	29	4.3±	0.8	121±	4	9.0±	0.5	7.1±	2.2
3000 ppm	32	4.1±	0.5	120±	3	9.1±	0.5	6.7±	1.2
6000 ppm	36	4.3±	0.5	121±	4	8.7±	0.3**	7.3±	1.3

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

Test of Dunnett

(HCL074)

BAIS3

## APPENDIX H 1

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

STUDY NO. : 0268  
 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	32	0	4	12	12	3	1	0		0	2	25	5	0	0		32	0	0	0	0	0		16	15	1	0	0	0		27	0	0	4	1
333 ppm	41	0	3	19	17	2	0	0		0	0	26	14	1	0		41	0	0	0	0	0		15	25	1	0	0	0		36	0	2	1	2
1000 ppm	38	0	8	20	8	2	0	0		0	0	24	12	1	1		38	0	0	0	0	0		8	28	2	0	0	0	*	31	2	2	0	3
3000 ppm	40	0	7	31	2	0	0	0	**	0	0	10	29	1	0	**	40	0	0	0	0	0		1	17	19	3	0	0	**	38	1	0	0	1

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

Test of CHI SQUARE

(HCL101)

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STUDY NO. : 0268  
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	32	32 0 0 0 0
333 ppm	41	41 0 0 0 0
1000 ppm	38	38 0 0 0 0
3000 ppm	40	40 0 0 0 0

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

Test of CHI SQUARE

(HCL101)

BAIS3



## APPENDIX H 2

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 MEASURE, TIME : 1  
 SEX : FEMALE

# URINALYSIS

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood						CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+	
Control	30	0	3	4	5	5	13	0		0	4	16	9	1	0		30	0	0	0	0	0		4	22	3	1	0	0		23	3	1	1	2		
1500 ppm	30	0	2	13	6	7	2	0	**	0	0	21	9	0	0		30	0	0	0	0	0		4	19	5	2	0	0		26	1	0	0	3		
3000 ppm	32	0	2	9	11	7	3	0	*	0	0	15	16	1	0		32	0	0	0	0	0		2	22	6	2	0	0		32	0	0	0	0		
6000 ppm	39	0	8	18	7	3	3	0	**	0	0	12	25	2	0	**	39	0	0	0	0	0		1	15	15	7	1	0	**	36	2	0	0	1		

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

Test of CHI SQUARE

(HCL101)

BAIS3

STUDY NO. : 0268  
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	30	30 0 0 0 0
1500 ppm	30	30 0 0 0 0
3000 ppm	32	32 0 0 0 0
6000 ppm	39	39 0 0 0 0

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

Test of CHI SQUARE

(HCL101)

BAIS 3

## APPENDIX I 1

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

STUDY NO. : 0268  
 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		333 ppm		1000 ppm		3000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
subcutis	edema		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	mass		0	( 0)	1	( 2)	0	( 0)	0	( 0)
lung	red		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		13	( 26)	9	( 18)	13	( 26)	6	( 12)
lymph node	enlarged		2	( 4)	5	( 10)	3	( 6)	1	( 2)
thymus	enlarged		1	( 2)	1	( 2)	0	( 0)	0	( 0)
spleen	enlarged		6	( 12)	7	( 14)	2	( 4)	1	( 2)
	black zone		1	( 2)	0	( 0)	1	( 2)	0	( 0)
	nodule		1	( 2)	3	( 6)	1	( 2)	0	( 0)
tooth	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
forestomach	nodule		1	( 2)	0	( 0)	1	( 2)	0	( 0)
stomach	thick		5	( 10)	4	( 8)	3	( 6)	1	( 2)
small intes	nodule		1	( 2)	0	( 0)	2	( 4)	0	( 0)
cecum	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
liver	enlarged		1	( 2)	1	( 2)	3	( 6)	1	( 2)
	pale		1	( 2)	0	( 0)	1	( 2)	0	( 0)
	white zone		0	( 0)	1	( 2)	0	( 0)	2	( 4)
	red zone		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	nodule		25	( 50)	23	( 46)	16	( 32)	5	( 10)
	cyst		1	( 2)	0	( 0)	0	( 0)	0	( 0)
kidney	atrophic		0	( 0)	0	( 0)	0	( 0)	3	( 6)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	Control	333 ppm	1000 ppm	3000 ppm
		NO. of Animals	50 (%)	50 (%)	50 (%)	50 (%)
kidney	white zone		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	1 ( 2)	0 ( 0)	2 ( 4)
	hydronephrosis		3 ( 6)	4 ( 8)	3 ( 6)	0 ( 0)
ureter	dilated		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
urin bladd	urine:marked retention		0 ( 0)	2 ( 4)	1 ( 2)	0 ( 0)
pituitary	nodule		1 ( 2)	1 ( 2)	0 ( 0)	1 ( 2)
testis	atrophic		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
epididymis	adhesion		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
prep/cli gl	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
eye	white		1 ( 2)	1 ( 2)	1 ( 2)	0 ( 0)
Harder gl	enlarged		2 ( 4)	1 ( 2)	2 ( 4)	0 ( 0)
	nodule		2 ( 4)	2 ( 4)	1 ( 2)	0 ( 0)
muscle	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
bone	thick		1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)
mediastinum	mass		0 ( 0)	2 ( 4)	0 ( 0)	1 ( 2)
retroperit	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	mass		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
abdominal c	hemorrhage		1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)
	ascites		2 ( 4)	1 ( 2)	1 ( 2)	3 ( 6)
thoracic ca	hemorrhage		1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)
	pleural fluid		4 ( 8)	4 ( 8)	4 ( 8)	1 ( 2)
other	tail:nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name	Control		333 ppm		1000 ppm		3000 ppm	
		NO. of Animals	50	(%)	50	(%)	50	(%)	50	(%)
other	hindlimb:nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)

(HPT080)

BAIS 3

## APPENDIX I 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)



STUDY NO. : 0268  
 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 17 (%)	333 ppm 9 (%)	1000 ppm 12 (%)	3000 ppm 10 (%)
subcutis	edema		0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)
	mass		0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)
lung	red		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		3 ( 18)	2 ( 22)	4 ( 33)	1 ( 10)
lymph node	enlarged		1 ( 6)	2 ( 22)	0 ( 0)	0 ( 0)
thymus	enlarged		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
spleen	enlarged		5 ( 29)	2 ( 22)	1 ( 8)	0 ( 0)
	black zone		0 ( 0)	0 ( 0)	1 ( 8)	0 ( 0)
	nodule		1 ( 6)	1 ( 11)	0 ( 0)	0 ( 0)
small intes	nodule		1 ( 6)	0 ( 0)	1 ( 8)	0 ( 0)
cecum	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
liver	enlarged		1 ( 6)	1 ( 11)	2 ( 17)	1 ( 10)
	pale		1 ( 6)	0 ( 0)	1 ( 8)	0 ( 0)
	white zone		0 ( 0)	1 ( 11)	0 ( 0)	2 ( 20)
	red zone		0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)
	nodule		10 ( 59)	5 ( 56)	2 ( 17)	2 ( 20)
kidney	atrophic		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
	white zone		0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	0 ( 0)	0 ( 0)	2 ( 20)
	hydronephrosis		3 ( 18)	1 ( 11)	2 ( 17)	0 ( 0)
ureter	dilated		0 ( 0)	0 ( 0)	1 ( 8)	0 ( 0)
urin bladd	urine:marked retention		0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	Control	333 ppm	1000 ppm	3000 ppm
		NO. of Animals	17 (%)	9 (%)	12 (%)	10 (%)
pituitary	nodule		0 ( 0)	1 ( 11)	0 ( 0)	1 ( 10)
epididymis	adhesion		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
muscle	nodule		0 ( 0)	0 ( 0)	1 ( 8)	0 ( 0)
mediastinum	mass		0 ( 0)	2 ( 22)	0 ( 0)	1 ( 10)
abdominal c	hemorrhage		1 ( 6)	0 ( 0)	0 ( 0)	1 ( 10)
	ascites		2 ( 12)	1 ( 11)	1 ( 8)	3 ( 30)
thoracic ca	hemorrhage		1 ( 6)	0 ( 0)	1 ( 8)	0 ( 0)
	pleural fluid		3 ( 18)	4 ( 44)	4 ( 33)	1 ( 10)

(HPT080)

BAIS3

## APPENDIX I 3

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

STUDY NO. : 0268  
 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 33 (%)	333 ppm 41 (%)	1000 ppm 38 (%)	3000 ppm 40 (%)
subcutis	nodule		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
lung	nodule		10 ( 30)	7 ( 17)	9 ( 24)	5 ( 13)
lymph node	enlarged		1 ( 3)	3 ( 7)	3 ( 8)	1 ( 3)
thymus	enlarged		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
spleen	enlarged		1 ( 3)	5 ( 12)	1 ( 3)	1 ( 3)
	black zone		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	2 ( 5)	1 ( 3)	0 ( 0)
tooth	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
forestomach	nodule		1 ( 3)	0 ( 0)	1 ( 3)	0 ( 0)
stomach	thick		5 ( 15)	4 ( 10)	3 ( 8)	1 ( 3)
small intes	nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
liver	enlarged		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
	nodule		15 ( 45)	18 ( 44)	14 ( 37)	3 ( 8)
	cyst		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
kidney	atrophic		0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)
	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	hydronephrosis		0 ( 0)	3 ( 7)	1 ( 3)	0 ( 0)
urin bladd	urine:marked retention		0 ( 0)	1 ( 2)	1 ( 3)	0 ( 0)
pituitary	nodule		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
testis	atrophic		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
prep/cli gl	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
eye	white		1 ( 3)	1 ( 2)	1 ( 3)	0 ( 0)

STUDY NO. : 0268  
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	333 ppm	1000 ppm	3000 ppm
			33 (%)	41 (%)	38 (%)	40 (%)
Harder gl	enlarged		2 ( 6)	1 ( 2)	2 ( 5)	0 ( 0)
	nodule		2 ( 6)	2 ( 5)	1 ( 3)	0 ( 0)
bone	thick		1 ( 3)	0 ( 0)	0 ( 0)	1 ( 3)
retroperit	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	mass		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
thoracic ca	pleural fluid		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
other	tail:nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
	hindlimb:nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)

## APPENDIX I 4

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

STUDY NO. : 0268  
 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 50 (%)	1500 ppm 50 (%)	3000 ppm 50 (%)	6000 ppm 49 (%)
skin/app	nodule		0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)
	ulcer		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
subcutis	edema		0 ( 0)	7 ( 14)	2 ( 4)	0 ( 0)
	mass		1 ( 2)	2 ( 4)	0 ( 0)	0 ( 0)
lung	red		1 ( 2)	0 ( 0)	1 ( 2)	1 ( 2)
	edema		0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)
	nodule		1 ( 2)	1 ( 2)	1 ( 2)	3 ( 6)
lymph node	enlarged		7 ( 14)	7 ( 14)	4 ( 8)	2 ( 4)
	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
thymus	enlarged		0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)
spleen	enlarged		8 ( 16)	9 ( 18)	5 ( 10)	0 ( 0)
	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
	deformed		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
salivary gl	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
forestomach	nodule		0 ( 0)	2 ( 4)	1 ( 2)	1 ( 2)
gl stomach	ulcer		1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)
	thick		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
stomach	nodule		0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)
small intes	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
liver	enlarged		2 ( 4)	3 ( 6)	1 ( 2)	1 ( 2)
	white zone		2 ( 4)	1 ( 2)	1 ( 2)	0 ( 0)
	red zone		1 ( 2)	0 ( 0)	2 ( 4)	0 ( 0)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name	Control	1500 ppm	3000 ppm	6000 ppm
		NO. of Animals	50 (%)	50 (%)	50 (%)	49 (%)
Liver	nodule		6 ( 12)	4 ( 8)	2 ( 4)	4 ( 8)
	nodular		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
	adhesion		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
kidney	enlarged		0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)
	atrophic		0 ( 0)	0 ( 0)	3 ( 6)	1 ( 2)
	nodule		0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)
	hydronephrosis		0 ( 0)	2 ( 4)	6 ( 12)	4 ( 8)
urin bladd	urine:marked retention		2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
pituitary	enlarged		3 ( 6)	2 ( 4)	2 ( 4)	0 ( 0)
	red zone		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		1 ( 2)	2 ( 4)	1 ( 2)	0 ( 0)
ovary	enlarged		2 ( 4)	2 ( 4)	4 ( 8)	4 ( 8)
	red		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	cyst		10 ( 20)	11 ( 22)	12 ( 24)	10 ( 20)
uterus	enlarged		0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)
	nodule		8 ( 16)	7 ( 14)	3 ( 6)	8 ( 16)
	mass		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
brain	red zone		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	hemorrhage		0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)
spinal cord	red zone		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
eye	white		2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
Harder gl	enlarged		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)



STUDY NO. : 0268  
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	1500 ppm	3000 ppm	6000 ppm
			50 (%)	50 (%)	50 (%)	49 (%)
Harder gl	nodule		2 ( 4)	1 ( 2)	0 ( 0)	1 ( 2)
Zymbal gl	nodule		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
bone	nodule		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
mediastinum	mass		4 ( 8)	3 ( 6)	4 ( 8)	0 ( 0)
peritoneum	nodule		2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	thick		2 ( 4)	2 ( 4)	0 ( 0)	0 ( 0)
abdominal c	hemorrhage		1 ( 2)	0 ( 0)	2 ( 4)	0 ( 0)
	ascites		8 ( 16)	14 ( 28)	4 ( 8)	9 ( 18)
thoracic ca	pleural fluid		12 ( 24)	13 ( 26)	10 ( 20)	3 ( 6)
whole body	anemic		1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)

(HPT080)

BAIS3

## APPENDIX I 5

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 20 (%)	1500 ppm 21 (%)	3000 ppm 18 (%)	6000 ppm 10 (%)
skin/app	ulcer		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
subcutis	edema		0 ( 0)	7 ( 33)	2 ( 11)	0 ( 0)
	mass		0 ( 0)	2 ( 10)	0 ( 0)	0 ( 0)
lung	red		1 ( 5)	0 ( 0)	1 ( 6)	0 ( 0)
	edema		0 ( 0)	1 ( 5)	1 ( 6)	0 ( 0)
	nodule		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
lymph node	enlarged		5 ( 25)	4 ( 19)	4 ( 22)	1 ( 10)
	nodule		0 ( 0)	0 ( 0)	1 ( 6)	0 ( 0)
spleen	enlarged		3 ( 15)	5 ( 24)	2 ( 11)	0 ( 0)
	deformed		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
stomach	nodule		0 ( 0)	1 ( 5)	0 ( 0)	0 ( 0)
small intes	nodule		0 ( 0)	0 ( 0)	1 ( 6)	0 ( 0)
liver	enlarged		2 ( 10)	3 ( 14)	1 ( 6)	0 ( 0)
	white zone		2 ( 10)	1 ( 5)	1 ( 6)	0 ( 0)
	nodule		3 ( 15)	2 ( 10)	0 ( 0)	2 ( 20)
	nodular		0 ( 0)	0 ( 0)	1 ( 6)	0 ( 0)
kidney	enlarged		0 ( 0)	2 ( 10)	0 ( 0)	0 ( 0)
	atrophic		0 ( 0)	0 ( 0)	1 ( 6)	0 ( 0)
	nodule		0 ( 0)	1 ( 5)	0 ( 0)	0 ( 0)
	hydronephrosis		0 ( 0)	1 ( 5)	0 ( 0)	2 ( 20)
pituitary	enlarged		1 ( 5)	1 ( 5)	1 ( 6)	0 ( 0)
ovary	enlarged		2 ( 10)	2 ( 10)	4 ( 22)	1 ( 10)

STUDY NO. : 0268  
 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 (%)	1500 ppm 21 (%)	3000 ppm 18 (%)	6000 ppm 10 (%)
ovary	cyst		1 ( 5)	0 ( 0)	1 ( 6)	0 ( 0)
uterus	enlarged		0 ( 0)	1 ( 5)	1 ( 6)	0 ( 0)
	nodule		4 ( 20)	2 ( 10)	2 ( 11)	2 ( 20)
	mass		0 ( 0)	1 ( 5)	0 ( 0)	0 ( 0)
brain	red zone		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	hemorrhage		0 ( 0)	2 ( 10)	0 ( 0)	0 ( 0)
spinal cord	red zone		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
bone	nodule		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
mediastinum	mass		4 ( 20)	2 ( 10)	4 ( 22)	0 ( 0)
peritoneum	nodule		1 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	thick		2 ( 10)	2 ( 10)	0 ( 0)	0 ( 0)
abdominal c	hemorrhage		1 ( 5)	0 ( 0)	2 ( 11)	0 ( 0)
	ascites		6 ( 30)	11 ( 52)	4 ( 22)	5 ( 50)
thoracic ca	pleural fluid		10 ( 50)	9 ( 43)	10 ( 56)	2 ( 20)
whole body	anemic		1 ( 5)	1 ( 5)	0 ( 0)	0 ( 0)

## APPENDIX I 6

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

STUDY NO. : 0268  
 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	1500 ppm	3000 ppm	6000 ppm
			30 (%)	29 (%)	32 (%)	39 (%)
skin/app	nodule		0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)
subcutis	mass		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
lung	red		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
	nodule		0 ( 0)	1 ( 3)	1 ( 3)	3 ( 8)
lymph node	enlarged		2 ( 7)	3 ( 10)	0 ( 0)	1 ( 3)
thymus	enlarged		0 ( 0)	2 ( 7)	0 ( 0)	0 ( 0)
spleen	enlarged		5 ( 17)	4 ( 14)	3 ( 9)	0 ( 0)
	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
salivary gl	nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
forestomach	nodule		0 ( 0)	2 ( 7)	1 ( 3)	1 ( 3)
gl stomach	ulcer		1 ( 3)	0 ( 0)	1 ( 3)	0 ( 0)
	thick		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
stomach	nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
liver	enlarged		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
	red zone		1 ( 3)	0 ( 0)	2 ( 6)	0 ( 0)
	nodule		3 ( 10)	2 ( 7)	2 ( 6)	2 ( 5)
	adhesion		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
kidney	atrophic		0 ( 0)	0 ( 0)	2 ( 6)	1 ( 3)
	nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
	hydronephrosis		0 ( 0)	1 ( 3)	6 ( 19)	2 ( 5)
urin bladd	urine:marked retention		2 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)
pituitary	enlarged		2 ( 7)	1 ( 3)	1 ( 3)	0 ( 0)

STUDY NO. : 0268  
 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	1500 ppm	3000 ppm	6000 ppm
			30 (%)	29 (%)	32 (%)	39 (%)
pituitary	red zone		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		1 ( 3)	2 ( 7)	1 ( 3)	0 ( 0)
ovary	enlarged		0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)
	red		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
	cyst		9 ( 30)	11 ( 38)	11 ( 34)	10 ( 26)
uterus	nodule		4 ( 13)	5 ( 17)	1 ( 3)	6 ( 15)
eye	white		2 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)
Harder gl	enlarged		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		2 ( 7)	1 ( 3)	0 ( 0)	1 ( 3)
Zymbal gl	nodule		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
mediastinum	mass		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
peritoneum	nodule		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
abdominal c	ascites		2 ( 7)	3 ( 10)	0 ( 0)	4 ( 10)
thoracic ca	pleural fluid		2 ( 7)	4 ( 14)	0 ( 0)	1 ( 3)

## APPENDIX J 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)



STUDY NO. : 0268  
 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	32	46.1± 7.9	0.014±	0.008	0.245±	0.047	0.223±	0.023	0.224±	0.046	0.633±	0.048
333 ppm	41	45.2± 6.4	0.014±	0.004	0.236±	0.040	0.214±	0.019	0.227±	0.089	0.708±	0.377
1000 ppm	38	44.2± 6.4	0.013±	0.003	0.239±	0.043	0.222±	0.031	0.235±	0.057	0.648±	0.078
3000 ppm	40	37.5± 4.6**	0.012±	0.003	0.218±	0.037*	0.190±	0.020**	0.197±	0.032**	0.580±	0.052**

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

Test of Dunnett

(HCL040)

BAIS3

STUDY NO. : 0268  
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	32	0.104±	0.062	2.049±	0.759	0.449±	0.015
333 ppm	41	0.180±	0.345	1.789±	0.499	0.452±	0.013
1000 ppm	38	0.116±	0.095	1.924±	0.890	0.453±	0.016
3000 ppm	40	0.076±	0.075**	1.317±	0.152**	0.448±	0.015

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

Test of Dunnett

(HCL040)

BAIS3

## APPENDIX J 2

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

STUDY NO. : 0268  
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	30	32.5± 6.0	0.014±	0.002	0.058±	0.061	0.172±	0.031	0.206±	0.034	0.432±	0.049
1500 ppm	29	29.3± 3.8	0.014±	0.003	0.145±	0.435	0.157±	0.023	0.205±	0.051	0.455±	0.160
3000 ppm	32	25.2± 2.1**	0.014±	0.003	0.094±	0.195	0.148±	0.015**	0.191±	0.018	0.494±	0.259
6000 ppm	39	23.8± 2.2**	0.012±	0.002	0.104±	0.204	0.139±	0.020**	0.196±	0.053	0.447±	0.292**

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

Test of Dunnett

(HCL040)

BAIS3

STUDY NO. : 0268  
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	30	0.243±	0.299	1.457±	0.298	0.473±	0.022
1500 ppm	29	0.213±	0.270	1.382±	0.303	0.468±	0.010
3000 ppm	32	0.126±	0.114	1.180±	0.339**	0.462±	0.015*
6000 ppm	39	0.093±	0.069**	1.126±	0.365**	0.451±	0.015**

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

Test of Dunnett

(HCL040)

BAIS3

## APPENDIX K 1

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

STUDY NO. : 0268  
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	32	46.1± 7.9	0.030± 0.014	0.547± 0.150	0.495± 0.094	0.499± 0.128	1.410± 0.244
333 ppm	41	45.2± 6.4	0.031± 0.009	0.532± 0.110	0.482± 0.074	0.518± 0.244	1.602± 0.882
1000 ppm	38	44.2± 6.4	0.029± 0.009	0.543± 0.075	0.515± 0.132	0.547± 0.170	1.488± 0.216
3000 ppm	40	37.5± 4.6**	0.033± 0.009	0.587± 0.112*	0.512± 0.068	0.532± 0.094	1.560± 0.154**

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

Test of Dunnett

(HCL042)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE C-rj: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	32	0.241± 0.170	4.754± 2.582	1.004± 0.189
333 ppm	41	0.412± 0.849	4.033± 1.322	1.023± 0.174
1000 ppm	38	0.283± 0.271	4.526± 2.540	1.047± 0.162
3000 ppm	40	0.202± 0.180	3.528± 0.299	1.212± 0.159**

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

Test of Dunnett

(HCL042)

BAIS3



## APPENDIX K 2

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

STUDY NO. : 0268  
ANIMAL : MOUSE C-1: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	30	32.5± 6.0	0.044± 0.011	0.176± 0.153	0.549± 0.149	0.656± 0.173	1.373± 0.303
1500 ppm	29	29.3± 3.8	0.050± 0.011	0.488± 1.421	0.540± 0.082	0.710± 0.209	1.559± 0.510
3000 ppm	32	25.2± 2.1**	0.054± 0.009**	0.359± 0.729	0.590± 0.062**	0.762± 0.085**	1.950± 0.978**
6000 ppm	39	23.8± 2.2**	0.053± 0.009**	0.423± 0.843	0.586± 0.073**	0.830± 0.221**	1.894± 1.287**

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

Test of Dunnett

(HCL042)

BAIS3

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE  
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	30	0.772± 1.007	4.583± 1.059	1.511± 0.336
1500 ppm	29	0.745± 0.965	4.731± 0.940	1.622± 0.212
3000 ppm	32	0.492± 0.431	4.676± 1.320	1.841± 0.162**
6000 ppm	39	0.381± 0.239	4.671± 1.026	1.905± 0.158**

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

Test of Dunnett

(HCL042)

BAIS3

APPENDIX L 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

		Group Name	Control				333 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																		
skin/app			<50>				<50>				<50>				<50>			
	hyperplasia:epidermis		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 )
subcutis			<50>				<50>				<50>				<50>			
	xanthogranuloma		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 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
[Respiratory system]																		
nasal cavit			<50>				<50>				<50>				<50>			
	goblet cell hyperplasia		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 )
	eosinophilic change:olfactory epithelium		22 ( 44 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	28 ( 56 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	35 ( 70 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	35 ( 70 )	0 ( 0 )	0 ( 0 )
	eosinophilic change:respiratory epithelium		15 ( 30 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	21 ( 42 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	13 ( 26 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	inflammation:foreign body		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 ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

STUDY NO. : 0268  
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				333 ppm 50				1000 ppm 50				3000 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>				<50>				<50>				<50>			
	respiratory metaplasia:olfactory epithelium	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	18 ( 36)	0 ( 0)	0 ( 0)	0 ( 0)	17 ( 34)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:gland	22 ( 44)	0 ( 0)	0 ( 0)	0 ( 0)	18 ( 36)	0 ( 0)	0 ( 0)	0 ( 0)	32 ( 64)	0 ( 0)	0 ( 0)	0 ( 0)	23 ( 46)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	squamous cell metaplasia:respiratory epithelium	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
lung		<50>				<50>				<50>				<50>				<50>			
	congestion	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	edema	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammation	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	Lymphocytic infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																					
Lung		<50>				<50>				<50>				<50>				<50>			
	accumulation of foamy cells	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)
	bronchiolar-alveolar cell hyperplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
[Hematopoietic system]																					
bone marrow		<50>				<50>				<50>				<50>				<50>			
	atrophy	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	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)
	angiectasis	3 ( 6)	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	granulation	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	megakaryocyte:increased	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	granulopoiesis:increased	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)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																					
thymus		<50>				<49>				<50>				<49>							
	karyorrhexis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
spleen		<50>				<50>				<50>				<50>							
	atrophy	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	congestion	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of melanin	4	0	0	0	1	0	0	0	3	0	0	0	3	0	0	0	3	0	0	0
		( 8 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	fibrosis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	extramedullary hematopoiesis	7	7	0	0	10	1	1	0	10	5	3	0	2	4	0	0	2	4	0	0
		( 14 )	( 14 )	( 0 )	( 0 )	( 20 )	( 2 )	( 2 )	( 0 )	( 20 )	( 10 )	( 6 )	( 0 )	( 4 )	( 8 )	( 0 )	( 0 )	( 4 )	( 8 )	( 0 )	( 0 )
	megakaryocyte:increased	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	hyperplasia:vascular	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			<50>				<50>				<50>				<50>			
	follicular hyperplasia		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 )
[Circulatory system]																		
heart			<50>				<50>				<50>				<50>			
	thrombus		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization		1	1	0	0	1	0	0	0	2	0	0	0	3	0	0	0
			( 2 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	arteritis		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 )
	hyperplasia:vascular		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Digestive system]																		
tooth			<50>				<50>				<50>				<50>			
	dysplasia		20	3	0	0	23	2	0	0	18	0	0	0	18	0	0	0
			( 40 )	( 6 )	( 0 )	( 0 )	( 46 )	( 4 )	( 0 )	( 0 )	( 36 )	( 0 )	( 0 )	( 0 )	( 36 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
tongue	basal cell hyperplasia	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
salivary gl	degeneration	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
	lymphocytic infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
stomach	granulation	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	inflammatory infiltration	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	basal cell hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
stomach		<50>				<50>				<50>				<50>				<50>			
	erosion:forestomach	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 )
	ulcer:forestomach	0 ( 0 )	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 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:forestomach	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 )	1 ( 2 )	0 ( 0 )	0 ( 0 )
	erosion:glandular stomach	9 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	8 ( 16 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:glandular stomach	3 ( 6 )	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 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	dilated glands	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
large intes		<50>				<50>				<50>				<50>				<50>			
	mineralization	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
liver		<50>				<50>				<50>				<50>				<50>			
	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 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
liver		<50>				<50>				<50>				<50>				<50>			
	necrosis:focal	1 ( 2)	2 ( 4)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	fatty change	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)
	cyst	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammatory infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	granulation	27 ( 54)	0 ( 0)	0 ( 0)	0 ( 0)	34 ( 68)	0 ( 0)	0 ( 0)	0 ( 0)	33 ( 66)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	39 ( 78)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 * ( 0)
	extramedullary hematopoiesis	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)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	clear cell focus	3 ( 6)	3 ( 6)	0 ( 0)	0 ( 0)	2 ( 4)	4 ( 8)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
liver	acidophilic cell focus	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	basophilic cell focus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
gall bladd	vacuolated cell focus	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mixed cell focus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	bile ductular proliferation	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
pancreas	biliary cyst	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
hyperplasia		<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
atrophy		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																					
kidney		<50>				<50>				<50>				<50>				<50>			
	infarct	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)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	hyaline droplet	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	3 ( 6)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	basophilic change	13 ( 26)	0 ( 0)	0 ( 0)	0 ( 0)	37 ( 74)	0 ( 0)	0 ( 0)	0 ( 0)	33 ( 66)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	32 ( 64)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyaline cast	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)
	inflammatory infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	lymphocytic infiltration	5 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	10 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	12 ( 24)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 10)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammatory polyp	0 ( 0)	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)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hydronephrosis	0 ( 0)	1 ( 2)	2 ( 4)	0 ( 0)	0 ( 0)	1 ( 2)	2 ( 4)	0 ( 0)	0 ( 0)	1 ( 2)	2 ( 4)	0 ( 0)	0 ( 0)	2 ( 4)	3 ( 6)	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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																		
kidney			<50>				<50>				<50>				<50>			
	papillary necrosis		2	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0
			( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )
	mineralization:cortico-medullary junction		0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	mineralization:papilla		2	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
			( 4 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:cortex		27	0	0	0	36	0	0	0	26	0	0	0	17	0	0	0
			( 54 )	( 0 )	( 0 )	( 0 )	( 72 )	( 0 )	( 0 )	( 0 )	( 52 )	( 0 )	( 0 )	( 0 )	( 34 )	( 0 )	( 0 )	( 0 )
	glomerulosclerosis		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 )
	desquamation:pelvis		0	0	0	0	1	0	0	0	0	0	0	0	8	0	0	0 **
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 16 )	( 0 )	( 0 )	( 0 )
urin bladd			<50>				<50>				<50>				<50>			
	inflammation		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 )
[Endocrine system]																		
pituitary			<50>				<49>				<49>				<50>			
	hemorrhage		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 12

Organ_____	Findings_____	Group Name	Control				333 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
pituitary			<50>				<49>				<49>				<50>			
	cyst		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)
	hyperplasia		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	Rathke pouch		3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
thyroid			<50>				<49>				<50>				<49>			
	cyst		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)
	granulation		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)
parathyroid			<21>				<31>				<26>				<18>			
	hyperplasia		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)
panc islet			<50>				<50>				<50>				<50>			
	hyperplasia		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	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 ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square



STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 13

Organ	Findings	Group Name	Control				333 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
adrenal	cyst		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	extramedullary hematopoiesis		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		12	0	0	0	16	0	0	0	16	0	0	0	12	0	0	0
			( 24)	( 0)	( 0)	( 0)	( 32)	( 0)	( 0)	( 0)	( 32)	( 0)	( 0)	( 0)	( 24)	( 0)	( 0)	( 0)
hyperplasia:cortical cell		2	0	0	0	2	0	0	0	5	0	0	0	6	0	0	0	
		( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	
hyperplasia:medulla		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)	
accessory cortical nodule		0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	
focal fatty change:cortex		8	0	0	0	3	0	0	0	0	0	0	0 **	0	0	0	0 **	
		( 16)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	

[Reproductive system]

testis	aplasia		<50>				<50>				<50>				<50>			
			0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : 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. : 0268  
 ANIMAL : MOUSE C-rj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																					
testis	mineralization	29 ( 58)	0 ( 0)	0 ( 0)	0 ( 0)	43 ( 86)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	37 ( 74)	0 ( 0)	0 ( 0)	0 ( 0)	22 ( 44)	0 ( 0)	0 ( 0)	0 ( 0)
	interstitial cell 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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:rete testis	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)	0 ( 0)
epididymis	dilatation	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	cyst	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)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	mineralization	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammatory infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	spermatogenic granuloma	9 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	12 ( 24)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				333 ppm 50				1000 ppm 50				3000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Nervous system]																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
			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 )
	mineralization		22	0	0	0	21	1	0	0	22	0	0	0	25	0	0	0
			( 44 )	( 0 )	( 0 )	( 0 )	( 42 )	( 2 )	( 0 )	( 0 )	( 44 )	( 0 )	( 0 )	( 0 )	( 50 )	( 0 )	( 0 )	( 0 )
[Special sense organs/appendage]																		
eye	cataract		<50>				<50>				<50>				<50>			
			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 )
	keratitis		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 )
	degeneration:cornea		4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	mineralization:cornea		5	0	0	0	2	0	0	0	9	0	0	0	0	0	0	0
			( 10 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
Harder gl	granulation		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 16

Organ	Findings	Control No. of Animals on Study Grade				333 ppm 50				1000 ppm 50				3000 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>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

[Musculoskeletal system]

bone	fracture	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	osteosis	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 )
	osteosclerosis	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

[Body cavities]

peritoneum	inflammation	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

APPENDIX L 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Control Grade				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appendage]																	
subcutis		<17>				< 9>				<12>				<10>			
	xanthogranuloma	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Respiratory system]																	
nasal cavit		<17>				< 9>				<12>				<10>			
	goblet cell hyperplasia	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 )	( 0 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:olfactory epithelium	5	0	0	0	6	0	0	0	7	0	0	0	5	0	0	0
		( 29 )	( 0 )	( 0 )	( 0 )	( 67 )	( 0 )	( 0 )	( 0 )	( 58 )	( 0 )	( 0 )	( 0 )	( 50 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:respiratory epithelium	4	0	0	0	1	0	0	0	3	0	0	0	3	0	0	0
		( 24 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 30 )	( 0 )	( 0 )	( 0 )
	respiratory metaplasia:olfactory epithelium	0	0	0	0	1	0	0	0	3	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	respiratory metaplasia:gland	6	0	0	0	0	0	0	0	6	0	0	0	4	0	0	0
		( 35 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 50 )	( 0 )	( 0 )	( 0 )	( 40 )	( 0 )	( 0 )	( 0 )
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 8 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 2

		Group Name	Control				333 ppm				1000 ppm				3000 ppm				
		No. of Animals on Study	17				9				12				10				
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Respiratory system]																			
nasal cavit			<17>				< 9>				<12>				<10>				
	xanthogranuloma		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
lung			<17>				< 9>				<12>				<10>				
	congestion		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 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	edema		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
			( 12 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammation		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 )	( 0 )	( 0 )	( 0 )	( 0 )
	accumulation of foamy cells		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
[Hematopoietic system]																			
bone marrow			<17>				< 9>				<12>				<10>				
	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 )	( 0 )	( 8 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade				Control 17				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																					
bone marrow		<17>				< 9>				<12>				<10>							
	granulation	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
	granulopoiesis:increased	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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)	0 ( 0)
thymus		<17>				< 8>				<12>				< 9>							
	karyorrhexis	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
spleen		<17>				< 9>				<12>				<10>							
	atrophy	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	congestion	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 8)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	deposit of melanin	1 ( 6)	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	fibrosis	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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. : 0268  
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 Grade	Control 17				333 ppm 9				1000 ppm 12				3000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			<17>				<9>				<12>				<10>			
	extramedullary hematopoiesis		0	4	0	0	1	0	1	0	0	0	1	0	1	3	0	0
			( 0 )	( 24 )	( 0 )	( 0 )	( 11 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 10 )	( 30 )	( 0 )	( 0 )
	megakaryocyte:increased		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 )
	hyperplasia:vascular		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 )	( 0 )	( 0 )	( 0 )
[Circulatory system]																		
heart			<17>				<9>				<12>				<10>			
	thrombus		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 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization		0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 17 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	arteritis		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 )
[Digestive system]																		
tooth			<17>				<9>				<12>				<10>			
	dysplasia		3	1	0	0	3	0	0	0	1	0	0	0	1	0	0	0
			( 18 )	( 6 )	( 0 )	( 0 )	( 33 )	( 0 )	( 0 )	( 0 )	( 8 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade				Control 17				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
tongue	basal cell hyperplasia	<17>				< 9>				<12>				<10>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
salivary gl	degeneration	<17>				< 9>				<12>				<10>							
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
stomach	ulcer:forestomach	<17>				< 9>				<12>				<10>							
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	erosion:glandular stomach	<17>				< 9>				<12>				<10>							
		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
liver	necrosis:focal	<17>				< 9>				<12>				<10>							
		1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 6)	( 6)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fatty change	<17>				< 9>				<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)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation	<17>				< 9>				<12>				<10>							
		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 10)	( 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. : 0268  
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				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
Liver		<17>				< 9>				<12>				<10>			
	basophilic cell focus	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	biliary cyst	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
gall bladd		<17>				< 9>				<12>				<10>			
	hyperplasia	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 )
[Urinary system]																	
kidney		<17>				< 9>				<12>				<10>			
	hyaline droplet	1 ( 6 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	2 ( 17 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )	0 ( 0 )
	basophilic change	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 22 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 42 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	lymphocytic infiltration	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	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. : 0268  
ANIMAL : MOUSE C-rj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name	Control				333 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study	17				9				12				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																		
kidney			<17>				< 9>				<12>				<10>			
	inflammatory polyp		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )
	hydronephrosis		0 ( 0 )	1 ( 6 )	2 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 17 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )
	papillary necrosis		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 )
	mineralization:cortico-medullary junction		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	mineralization:papilla		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	mineralization:cortex		3 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	4 ( 44 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 58 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )	0 ( 0 )
	glomerulosclerosis		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 )
urin bladd			<17>				< 9>				<12>				<10>			
	inflammation		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 11 )	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  
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STUDY NO. : 0268  
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	Group Name No. of Animals on Study Grade				Control 17				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																					
pituitary	hemorrhage	<17>				< 9>				<11>				<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 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	cyst																				
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
thyroid	granulation	<17>				< 8>				<12>				< 9>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
parathyroid	hyperplasia	< 7>				< 7>				< 5>				< 6>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 14 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
panc islet	hyperplasia	<17>				< 9>				<12>				<10>							
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
adrenal	extramedullary hematopoiesis	<17>				< 9>				<12>				<10>							
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	spindle-cell hyperplasia																				
		1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 22 )	( 0 )	( 0 )	( 0 )	( 17 )	( 0 )	( 0 )	( 0 )	( 10 )	( 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. : 0268  
 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				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
adrenal		<17>				< 9>				<12>				<10>			
	accessory cortical nodule	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																	
testis		<17>				< 9>				<12>				<10>			
	mineralization	6	0	0	0	7	0	0	0	8	0	0	0	0	0	0	0
		( 35)	( 0)	( 0)	( 0)	( 78)	( 0)	( 0)	( 0)	( 67)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:rete testis	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)
epididymis		<17>				< 9>				<12>				<10>			
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	spermatogenic granuloma	3	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
		( 18)	( 0)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
[Nervous system]																	
brain		<17>				< 9>				<12>				<10>			
	mineralization	6	0	0	0	4	0	0	0	3	0	0	0	3	0	0	0
		( 35)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 30)	( 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. : 0268  
 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				333 ppm 9				1000 ppm 12				3000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																	
eye		<17>				< 9>				<12>				<10>			
	degeneration:cornea	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	mineralization:cornea	4 ( 24)	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)
Harder gl		<17>				< 9>				<12>				<10>			
	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 ( 10)	0 ( 0)	0 ( 0)
[Musculoskeletal system]																	
bone		<17>				< 9>				<12>				<10>			
	fracture	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	osteosclerosis	1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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

APPENDIX L 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE: SACRIFICED ANIMALS

(2-YEAR STUDY)



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

		Group Name No. of Animals on Study Grade	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Integumentary system/appandage]																		
skin/app			<33>				<41>				<38>				<40>			
	hyperplasia:epidermis		0 ( 0 )	1 ( 3 )	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 )
subcutis			<33>				<41>				<38>				<40>			
	xanthogranuloma		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 )
[Respiratory system]																		
nasal cavit			<33>				<41>				<38>				<40>			
	goblet cell hyperplasia		1 ( 3 )	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		17 ( 52 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	22 ( 54 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	28 ( 74 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	30 ( 75 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	eosinophilic change:respiratory epithelium		11 ( 33 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	20 ( 49 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	10 ( 26 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 15 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	inflammation:foreign body		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 )
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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																		
nasal cavit			<33>				<41>				<38>				<40>			
	respiratory metaplasia:olfactory epithelium		7	0	0	0	4	0	0	0	15	0	0	0	16	0	0	0
			( 21)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 39)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland		16	0	0	0	18	0	0	0	26	0	0	0	19	0	0	0
			( 48)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 68)	( 0)	( 0)	( 0)	( 48)	( 0)	( 0)	( 0)
	squamous cell metaplasia:respiratory epithelium		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
lung			<33>				<41>				<38>				<40>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
	accumulation of foamy cells		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
[Hematopoietic system]																		
bone marrow			<33>				<41>				<38>				<40>			
	atrophy		0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 2)	( 2)	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																					
bone marrow		<33>				<41>				<38>				<40>							
	angiectasis	3 ( 9)	1 ( 3)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	megakaryocyte:increased	1 ( 3)	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	granulopoiesis:increased	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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
spleen		<33>				<41>				<38>				<40>							
	deposit of melanin	3 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	extramedullary hematopoiesis	7 ( 21)	3 ( 9)	0 ( 0)	0 ( 0)	9 ( 22)	1 ( 2)	0 ( 0)	0 ( 0)	10 ( 26)	5 ( 13)	2 ( 5)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	follicular hyperplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
[Circulatory system]																					
heart		<33>				<41>				<38>				<40>							
	mineralization	1 ( 3)	1 ( 3)	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)	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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 4

Organ	Findings	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																	
heart		<33>				<41>				<38>				<40>			
	hyperplasia:vascular	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)
[Digestive system]																	
tooth		<33>				<41>				<38>				<40>			
	dysplasia	17	2	0	0	20	2	0	0	17	0	0	0	17	0	0	0
		( 52)	( 6)	( 0)	( 0)	( 49)	( 5)	( 0)	( 0)	( 45)	( 0)	( 0)	( 0)	( 43)	( 0)	( 0)	( 0)
salivary gl		<33>				<41>				<38>				<40>			
	lymphocytic infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation	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)
stomach		<33>				<41>				<38>				<40>			
	mineralization	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)
	inflammatory infiltration	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
stomach		<33>				<41>				<38>				<40>							
	basal cell 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 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	erosion:forestomach	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 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	ulcer:forestomach	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 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:forestomach	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 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )
	erosion:glandular stomach	8 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 15 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 13 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:glandular stomach	3 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	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 )
	dilated glands	2 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 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 )
large intes		<33>				<41>				<38>				<40>							
	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 )	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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
Liver		<33>				<41>				<38>				<40>							
	angiectasis	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis:focal	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	cyst	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation	26	0	0	0	34	0	0	0	32	0	0	0	38	0	0	0	0	0	0	0
		( 79 )	( 0 )	( 0 )	( 0 )	( 83 )	( 0 )	( 0 )	( 0 )	( 84 )	( 0 )	( 0 )	( 0 )	( 95 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	extramedullary hematopoiesis	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	clear cell focus	3	3	0	0	2	4	0	0	1	1	0	0	3	0	0	0	0	0	0	0
		( 9 )	( 9 )	( 0 )	( 0 )	( 5 )	( 10 )	( 0 )	( 0 )	( 3 )	( 3 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
Liver		<33>				<41>				<38>				<40>							
	acidophilic cell focus	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	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 )
	basophilic cell focus	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	vacuolated cell focus	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	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 )
	mixed cell focus	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 )	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 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	biliary cyst	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	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 )
pancreas		<33>				<41>				<38>				<40>							
	atrophy	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	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 )
[Urinary system]																					
kidney		<33>				<41>				<38>				<40>							
	infarct	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 8

Organ	Findings	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
Kidney		<33>				<41>				<38>				<40>			
	hyaline droplet	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	basophilic change	12 ( 36 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	35 ( 85 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	28 ( 74 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	30 ( 75 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyaline cast	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 )
	inflammatory infiltration	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	lymphocytic infiltration	4 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	10 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	12 ( 32 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 13 )	1 ( 3 )	0 ( 0 )	0 ( 0 )
	inflammatory polyp	0 ( 0 )	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 )
	hydronephrosis	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	1 ( 3 )	0 ( 0 )
	papillary necrosis	2 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	4 ( 10 )	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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																					
kidney		<33>				<41>				<38>				<40>							
	mineralization:cortico-medullary junction	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )				
	mineralization:papilla	2	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0				
		( 6 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	mineralization:cortex	24	0	0	0	32	0	0	0	19	0	0	0	15	0	0	0				
		( 73 )	( 0 )	( 0 )	( 0 )	( 78 )	( 0 )	( 0 )	( 0 )	( 50 )	( 0 )	( 0 )	( 0 )	( 38 )	( 0 )	( 0 )	( 0 )				**
	desquamation:pelvis	0	0	0	0	1	0	0	0	0	0	0	0	8	0	0	0				*
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )				
[Endocrine system]																					
pituitary		<33>				<40>				<38>				<40>							
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	hyperplasia	1	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0				
		( 3 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	Rathke pouch	3	0	0	0	3	0	0	0	1	0	0	0	2	0	0	0				
		( 9 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 3 )	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																					
thyroid		<33>				<41>				<38>				<40>							
	cyst	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
panc islet		<33>				<41>				<38>				<40>							
	hyperplasia	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
adrenal		<33>				<41>				<38>				<40>							
	cyst	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	spindle-cell hyperplasia	11	0	0	0	14	0	0	0	14	0	0	0	11	0	0	0	0	0	0	0
		( 33 )	( 0 )	( 0 )	( 0 )	( 34 )	( 0 )	( 0 )	( 0 )	( 37 )	( 0 )	( 0 )	( 0 )	( 28 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:cortical cell	2	0	0	0	2	0	0	0	5	0	0	0	6	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 15 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:medulla	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 )
	accessory cortical nodule	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
adrenal			<33>				<41>				<38>				<40>			
	focal fatty change:cortex		8	0	0	0	3	0	0	0	0	0	0	0 **	0	0	0	0 **
			( 24)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																		
testis			<33>				<41>				<38>				<40>			
	aplasia		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)
	mineralization		23	0	0	0	36	0	0	0	29	0	0	0	22	0	0	0
			( 70)	( 0)	( 0)	( 0)	( 88)	( 0)	( 0)	( 0)	( 76)	( 0)	( 0)	( 0)	( 55)	( 0)	( 0)	( 0)
	interstitial cell hyperplasia		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)
epididymis			<33>				<41>				<38>				<40>			
	dilatation		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)
	cyst		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)	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 33				333 ppm 41				1000 ppm 38				3000 ppm 40			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Reproductive system]

epididymis	mineralization	<33>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	spermatogenic granuloma		6	0	0	0	10	0	0	0	5	0	0	0	1	0	0	0
			( 18 )	( 0 )	( 0 )	( 0 )	( 24 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )

[Nervous system]

brain	hemorrhage	<33>	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 3 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization		16	0	0	0	17	1	0	0	19	0	0	0	22	0	0	0
			( 48 )	( 0 )	( 0 )	( 0 )	( 41 )	( 2 )	( 0 )	( 0 )	( 50 )	( 0 )	( 0 )	( 0 )	( 55 )	( 0 )	( 0 )	( 0 )

[Special sense organs/appendage]

eye	cataract	<33>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Control 33 Grade				333 ppm 41				1000 ppm 38				3000 ppm 40			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)

[Special sense organs/appendage]

eye		<33>				<41>				<38>				<40>			
	keratitis	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	degeneration:cornea	3 ( 9 )	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 )
	mineralization:cornea	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
Harder gl		<33>				<41>				<38>				<40>			
	hyperplasia	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

[Musculoskeletal system]

bone		<33>				<41>				<38>				<40>			
	osteosis	0 ( 0 )	1 ( 3 )	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 )
	osteosclerosis	1 ( 3 )	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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name				Control				333 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				33				41				38				40			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			

[Body cavities]

peritoneum		<33>				<41>				<38>				<40>			
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 )	( 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 L 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavity		<50>				<50>				<50>				<49>			
	eosinophilic change:olfactory epithelium	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	eosinophilic change:respiratory epithelium	28 ( 56)	3 ( 6)	0 ( 0)	0 ( 0)	31 ( 62)	3 ( 6)	0 ( 0)	0 ( 0)	38 ( 76)	5 ( 10)	0 ( 0)	0 ( 0)	36 ( 73)	9 ( 18)	0 ( 0)	0 ( 0)
	respiratory metaplasia:olfactory epithelium	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:gland	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	24 ( 48)	0 ( 0)	0 ( 0)	0 ( 0)	37 ( 76)	0 ( 0)	0 ( 0)	0 ( 0)
	squamous cell metaplasia:respiratory epithelium	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
nasopharynx		<50>				<50>				<50>				<49>			
	eosinophilic change	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	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)
lung		<50>				<50>				<50>				<49>			
	hemorrhage	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)

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																					
lung		<50>				<50>				<50>				<49>							
	edema	0 ( 0 )	1 ( 2 )	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 )	1 ( 2 )	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 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	lymphocytic infiltration	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	accumulation of foamy cells	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	bronchiolar-alveolar cell 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 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
[Hematopoietic system]																					
bone marrow		<50>				<50>				<50>				<49>							
	atrophy	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 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	angiectasis	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 )

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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
bone marrow																		
	granulation		<50>				<50>				<50>				<49>			
			6	0	0	0	1	1	0	0	0	1	0	0 *	2	1	0	0
			( 12 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )
	erythropoiesis:increased		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulopoiesis:increased		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 )
spleen																		
	atrophy		<50>				<50>				<50>				<48>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of hemosiderin		12	0	0	0	4	0	0	0	2	0	0	0 **	3	0	0	0 *
			( 24 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	deposit of melanin		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 )
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Hematopoietic system]																		
spleen			<50>				<50>				<50>				<48>			
	fibrosis		0 ( 0 )	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		6 ( 12 )	4 ( 8 )	1 ( 2 )	0 ( 0 )	6 ( 12 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	4 ( 8 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	11 ( 23 )	2 ( 4 )	0 ( 0 )	0 ( 0 )
	follicular hyperplasia		1 ( 2 )	0 ( 0 )	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 )
[Circulatory system]																		
heart			<50>				<50>				<50>				<49>			
	thrombus		2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	myocarditis		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 )
[Digestive system]																		
tooth			<50>				<50>				<50>				<49>			
	dysplasia		3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
salivary gl		<50>				<50>				<50>				<49>							
	lymphocytic infiltration	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 )				
stomach		<50>				<50>				<50>				<49>							
	mineralization	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 )				
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0				
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )				
	ulcer:forestomach	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )				
	hyperplasia:forestomach	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 )				
	erosion:glandular stomach	5	0	0	0	3	0	0	0	3	0	0	0	2	0	0	0				
		( 10 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )				
	ulcer:glandular stomach	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 )				
	hyperplasia:glandular stomach	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
stomach	dilated glands	<50>				<50>				<50>				<49>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
liver	angiectasis	<50>				<50>				<50>				<49>							
		1	1	0	0	3	0	0	0	2	1	0	0	4	0	0	0	4	0	0	0
		( 2 )	( 2 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis:focal	0	1	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis:single cell	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of amyloid	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammatory infiltration	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	2	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	4	2	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation	23	0	0	0	18	0	0	0	22	1	0	0	27	1	0	0	55	2	0	0
		( 46 )	( 0 )	( 0 )	( 0 )	( 36 )	( 0 )	( 0 )	( 0 )	( 44 )	( 2 )	( 0 )	( 0 )	( 55 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver	extramedullary hematopoiesis		<50>				<50>				<50>				<49>			
			5	1	0	0	5	0	0	0	2	1	0	0	3	0	0	0
			( 10 )	( 2 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	clear cell focus		3	1	0	0	1	0	0	0	2	1	0	0	1	0	0	0
			( 6 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	acidophilic cell focus		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 )
gall bladd	basophilic cell focus		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 )
	bile ductular proliferation		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 )
	biliary 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 )
	hepatocellular hypertrophy with atypia:central		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
cyst			<50>				<50>				<50>				<49>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
gall bladd	hyperplasia	<50>				<50>				<50>				<49>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
pancreas	atrophy	<50>				<50>				<49>				<48>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Urinary system]																					
kidney	infarct	<50>				<50>				<50>				<49>							
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyaline droplet	6	0	0	0	11	0	0	0	7	2	0	0	7	2	0	0	7	2	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 22 )	( 0 )	( 0 )	( 0 )	( 14 )	( 4 )	( 0 )	( 0 )	( 14 )	( 4 )	( 0 )	( 0 )	( 14 )	( 4 )	( 0 )	( 0 )
	basophilic change	2	0	0	0	6	1	0	0	3	0	0	0	1	0	0	0	2	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 12 )	( 2 )	( 0 )	( 0 )	( 6 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Urinary system]																		
kidney			<50>				<50>				<50>				<49>			
	hyaline cast		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 )
	lymphocytic infiltration		4 ( 8 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	7 ( 14 )	1 ( 2 )	0 ( 0 )	0 ( 0 )
	inflammatory polyp		1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	6 ( 12 )	0 ( 0 )	0 * ( 0 )	1 ( 2 )	1 ( 2 )	1 ( 2 )	0 ( 0 )
	hydronephrosis		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	6 ( 12 )	0 ( 0 )	0 * ( 0 )	1 ( 2 )	5 ( 10 )	0 ( 0 )	0 * ( 0 )
	papillary necrosis		1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 14 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	8 ( 16 )	0 ( 0 )	0 ( 0 )	0 * ( 0 )
	mineralization:cortico-medullary junction		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 )
	mineralization:papilla		7 ( 14 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	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:cortex		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : 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. : 0268  
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				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	desquamation:pelvis	<50>				<50>				<50>				<49>			
		4	0	0	0	14	6	0	0 **	12	0	0	0	21	0	0	0 **
		( 8 )	( 0 )	( 0 )	( 0 )	( 28 )	( 12 )	( 0 )	( 0 )	( 24 )	( 0 )	( 0 )	( 0 )	( 43 )	( 0 )	( 0 )	( 0 )
urin bladd	lymphocytic infiltration	<50>				<50>				<50>				<48>			
		2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
[Endocrine system]																	
pituitary	angiectasis	<49>				<49>				<50>				<49>			
		4	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 8 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	cyst	<49>				<49>				<50>				<49>			
		2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	hyperplasia	<49>				<49>				<50>				<49>			
		4	2	0	0	3	1	1	0	1	0	0	0	1	1	0	0
		( 8 )	( 4 )	( 0 )	( 0 )	( 6 )	( 2 )	( 2 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )
	Rathke pouch	<49>				<49>				<50>				<49>			
		5	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 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 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 27

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																					
thyroid	cyst	<50>				<50>				<50>				<49>							
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
parathyroid	cyst	<25>				<28>				<21>				<19>							
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia	3	0	0	0	0	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 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
adrenal	spindle-cell hyperplasia	<50>				<50>				<50>				<49>							
		43	0	0	0	40	0	0	0	47	1	0	0	44	0	0	0	0	0	0	0
		( 86 )	( 0 )	( 0 )	( 0 )	( 80 )	( 0 )	( 0 )	( 0 )	( 94 )	( 2 )	( 0 )	( 0 )	( 90 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	accessory cortical nodule	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	focal fatty change:cortex	2	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

[Reproductive system]

ovary	thrombus	<50>				<50>				<50>				<49>							
		0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
		( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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. : 0268  
 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				1500 ppm				3000 ppm				6000 ppm			
		No. of Animals on Study	50				50				50				49			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																		
ovary			<50>				<50>				<50>				<49>			
	cyst		9	0	0	0	8	0	0	0	14	2	0	0	7	4	0	0
			( 18 )	( 0 )	( 0 )	( 0 )	( 16 )	( 0 )	( 0 )	( 0 )	( 28 )	( 4 )	( 0 )	( 0 )	( 14 )	( 8 )	( 0 )	( 0 )
	inflammation		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 )
	xanthogranuloma		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
uterus			<50>				<50>				<50>				<49>			
	angiectasis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	endometrial hyperplasia		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 )
	cystic endometrial hyperplasia		33	0	0	0	32	1	0	0	34	0	0	0	31	0	0	0
			( 66 )	( 0 )	( 0 )	( 0 )	( 64 )	( 2 )	( 0 )	( 0 )	( 68 )	( 0 )	( 0 )	( 0 )	( 63 )	( 0 )	( 0 )	( 0 )
mammary gl			<50>				<50>				<50>				<49>			
	duct ectasia		3	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 29

Organ	Findings	Group Name No. of Animals on Study Control 50 Grade				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
mammary gl		<50>				<50>				<50>				<49>			
	galactoceles	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
[Nervous system]																	
brain		<50>				<50>				<50>				<49>			
	hemorrhage	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	mineralization	14	0	0	0	25	0	0	0 *	16	0	0	0	9	0	0	0
		( 28)	( 0)	( 0)	( 0)	( 50)	( 0)	( 0)	( 0)	( 32)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)
	epidermal cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	dilatation:cerebral ventricle	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)
[Special sense organs/appendage]																	
eye		<50>				<50>				<50>				<49>			
	cataract	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 30

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																					
eye		<50>				<50>				<50>				<49>							
	degeneration:cornea	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	mineralization:cornea	6	0	0	0	5	0	0	0	2	0	0	0	6	0	0	0	6	0	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )
[Musculoskeletal system]																					
muscle		<50>				<50>				<50>				<49>							
	mineralization	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	osseous metaplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
bone		<50>				<50>				<50>				<49>							
	fracture	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	osteosclerosis	1	0	0	0	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 31

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1500 ppm 50				3000 ppm 50				6000 ppm 49			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Body cavities]																		
peritoneum	inflammation		<50>				<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 )
	peritonitis		<50>				<50>				<50>				<49>			
			0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
adipose	granulation		<50>				<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 )

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

(HPT150)

BAISS

APPENDIX L 5

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 11

Organ	Findings	Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavity		<20>				<21>				<18>				<10>			
	eosinophilic change:olfactory epithelium	2 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium	9 (45)	0 (0)	0 (0)	0 (0)	11 (52)	0 (0)	0 (0)	0 (0)	14 (78)	1 (6)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	4 (20)	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)
	respiratory metaplasia:gland	0 (0)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	6 (33)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0) **
	squamous cell metaplasia:respiratory epithelium	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)
nasopharynx		<20>				<21>				<18>				<10>			
	eosinophilic change	1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
lung		<20>				<21>				<18>				<10>			
	hemorrhage	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)

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 12

Organ	Findings	Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung		<20>				<21>				<18>				<10>			
	edema	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	accumulation of foamy cells	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )
[Hematopoietic system]																	
bone marrow		<20>				<21>				<18>				<10>			
	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 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	angiectasis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )
	erythropoiesis:increased	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 )
spleen		<20>				<21>				<18>				< 9>			
	atrophy	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 )

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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade				Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Hematopoietic system]

spleen		<20>				<21>				<18>				< 9>			
	deposit of hemosiderin	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 5 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of melanin	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 5 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	extramedullary hematopoiesis	1	3	1	0	0	1	0	0	1	2	0	0	1	1	0	0
		( 5 )	( 15 )	( 5 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 6 )	( 11 )	( 0 )	( 0 )	( 11 )	( 11 )	( 0 )	( 0 )

[Circulatory system]

heart		<20>				<21>				<18>				<10>			
	thrombus	1	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0
		( 5 )	( 0 )	( 0 )	( 0 )	( 14 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	myocarditis	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 )	( 0 )	( 0 )

[Digestive system]

tooth		<20>				<21>				<18>				<10>			
	dysplasia	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
stomach	mineralization		<20>				<21>				<18>				<10>			
			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)	( 10)	( 0)	( 0)	( 0)
	ulcer:forestomach		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)
	erosion:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
liver	angiectasis		<20>				<21>				<18>				<10>			
			0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	necrosis:focal		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0)	( 5)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	necrosis:single cell		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	deposit of amyloid		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammatory infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 5)	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade				Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
liver		<20>				<21>				<18>				<10>							
	extramedullary hematopoiesis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	acidophilic cell focus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hepatocellular hypertrophy with atypia:central	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
gall bladd		<20>				<21>				<18>				<10>							
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
pancreas		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	atrophy	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Urinary system]																					
kidney		<20>				<21>				<18>				<10>							
	hyaline droplet	3	0	0	0	8	0	0	0	6	2	0	0	3	2	0	0	3	2	0	0
		( 15)	( 0)	( 0)	( 0)	( 38)	( 0)	( 0)	( 0)	( 33)	( 11)	( 0)	( 0)	( 30)	( 20)	( 0)	( 0)	( 30)	( 20)	( 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. : 0268  
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				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
Kidney		<20>				<21>				<18>				<10>			
	basophilic change	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 14 )	1 ( 5 )	0 ( 0 )	0 ( 0 )	2 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyaline cast	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	lymphocytic infiltration	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 )
	inflammatory polyp	1 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 11 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 10 )	0 ( 0 )
	hydronephrosis	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 5 )	0 ( 0 )	0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 20 )	0 ( 0 )	0 ( 0 )
	papillary necrosis	1 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	mineralization:papilla	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 )
	desquamation:pelvis	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 43 )	0 ( 0 )	0 ( 0 )	0 ( 0 ) **	3 ( 17 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 60 )	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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary		<19>				<20>				<18>				<10>			
	angiectasis	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)
	cyst	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	Rathke pouch	0	0	0	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)	( 20)	( 0)	( 0)	( 0)
parathyroid		< 8>				<12>				< 7>				< 3>			
	hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
adrenal		<20>				<21>				<18>				<10>			
	spindle-cell hyperplasia	13	0	0	0	13	0	0	0	16	0	0	0	7	0	0	0
		( 65)	( 0)	( 0)	( 0)	( 62)	( 0)	( 0)	( 0)	( 89)	( 0)	( 0)	( 0)	( 70)	( 0)	( 0)	( 0)
	focal fatty change:cortex	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 5)	( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																		
ovary			<20>				<21>				<18>				<10>			
	thrombus		0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
			( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )
	cyst		1	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
			( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )
	inflammation		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 )
uterus			<20>				<21>				<18>				<10>			
	endometrial hyperplasia		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 )
	cystic endometrial hyperplasia		8	0	0	0	8	1	0	0	5	0	0	0	2	0	0	0
			( 40 )	( 0 )	( 0 )	( 0 )	( 38 )	( 5 )	( 0 )	( 0 )	( 28 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )
mammary gl			<20>				<21>				<18>				<10>			
	duct ectasia		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 5 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Nervous system]																		
brain			<20>				<21>				<18>				<10>			
	hemorrhage		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 10 )	( 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. : 0268  
 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 No. of Animals on Study Grade				Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Nervous system]																					
brain		<20>				<21>				<18>				<10>							
	mineralization	4	0	0	0	4	0	0	0	4	0	0	0	2	0	0	0				
		( 20 )	( 0 )	( 0 )	( 0 )	( 19 )	( 0 )	( 0 )	( 0 )	( 22 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )				
	epidermal cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
[Special sense organs/appendage]																					
eye		<20>				<21>				<18>				<10>							
	degeneration:cornea	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		( 20 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	mineralization: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 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
[Musculoskeletal system]																					
muscle		<20>				<21>				<18>				<10>							
	mineralization	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 )				

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. : 0268  
 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 No. of Animals on Study Grade	Control 20				1500 ppm 21				3000 ppm 18				6000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Musculoskeletal system]																		
muscle	osseous metaplasia		<20>				<21>				<18>				<10>			
			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 )
bone	osteosclerosis		<20>				<21>				<18>				<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 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Body cavities]																		
peritoneum	peritonitis		<20>				<21>				<18>				<10>			
			0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

(HPT150)

BAIS3

APPENDIX L 6

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 15

Organ	Findings	Control No. of Animals on Study Grade				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavity		<30>				<29>				<32>				<39>			
	eosinophilic change:olfactory epithelium	6 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	eosinophilic change:respiratory epithelium	19 ( 63)	3 ( 10)	0 ( 0)	0 ( 0)	20 ( 69)	3 ( 10)	0 ( 0)	0 ( 0)	24 ( 75)	4 ( 13)	0 ( 0)	0 ( 0)	28 ( 72)	9 ( 23)	0 ( 0)	0 * ( 0)
	respiratory metaplasia:olfactory epithelium	4 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:gland	7 ( 23)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	18 ( 56)	0 ( 0)	0 ( 0)	0 * ( 0)	32 ( 82)	0 ( 0)	0 ( 0)	0 ** ( 0)
	squamous cell metaplasia:respiratory epithelium	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)
nasopharynx		<30>				<29>				<32>				<39>			
	eosinophilic change	3 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 19)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	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)
lung		<30>				<29>				<32>				<39>			
	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 ( 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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																		
Lung			<30>				<29>				<32>				<39>			
	lymphocytic infiltration		3 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	accumulation of foamy cells		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	bronchiolar-alveolar cell hyperplasia		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
[Hematopoietic system]																		
bone marrow			<30>				<29>				<32>				<39>			
	atrophy		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)
	angiectasis		1 ( 3)	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)
	granulation		4 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	granulopoiesis:increased		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 7)	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. : 0268  
 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 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Hematopoietic system]																		
spleen			<30>				<29>				<32>				<39>			
	deposit of hemosiderin		11 ( 37)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	deposit of melanin		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	mineralization		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)
	fibrosis		0 ( 0)	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)
	extramedullary hematopoiesis		5 ( 17)	1 ( 3)	0 ( 0)	0 ( 0)	6 ( 21)	3 ( 10)	0 ( 0)	0 ( 0)	3 ( 9)	1 ( 3)	0 ( 0)	0 ( 0)	10 ( 26)	1 ( 3)	0 ( 0)	0 ( 0)
	follicular hyperplasia		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
[Circulatory system]																		
heart			<30>				<29>				<32>				<39>			
	thrombus		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)

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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade				Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
tooth	dysplasia	<30>				<29>				<32>				<39>							
		2	0	0	0	3	0	0	0	4	0	0	0	2	0	0	0				
		( 7 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )				
salivary gl	lymphocytic infiltration	<30>				<29>				<32>				<39>							
		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 )				
stomach	mineralization	<30>				<29>				<32>				<39>							
		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0				
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )				
	inflammatory infiltration	<30>				<29>				<32>				<39>							
		1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0				
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )				
	ulcer:forestomach	<30>				<29>				<32>				<39>							
		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )				
	hyperplasia:forestomach	<30>				<29>				<32>				<39>							
		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 )				
	erosion:glandular stomach	<30>				<29>				<32>				<39>							
		5	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0				
		( 17 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 6 )	( 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. : 0268  
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 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
stomach	ulcer:glandular stomach	<30>				<29>				<32>				<39>							
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:glandular stomach	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	dilated glands	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
liver	angiectasis	<30>				<29>				<32>				<39>							
		1	1	0	0	0	0	0	0	2	1	0	0	3	0	0	0				
		( 3 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 3 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )				
	necrosis:focal	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0				
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )				
	lymphocytic infiltration	2	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0				
		( 7 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 5 )	( 3 )	( 0 )	( 0 )				
	granulation	23	0	0	0	18	0	0	0	22	1	0	0	27	1	0	0				
		( 77 )	( 0 )	( 0 )	( 0 )	( 62 )	( 0 )	( 0 )	( 0 )	( 69 )	( 3 )	( 0 )	( 0 )	( 69 )	( 3 )	( 0 )	( 0 )				

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name	Control				1500 ppm				3000 ppm				6000 ppm			
		No. of Animals on Study	30				29				32				39			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver			<30>				<29>				<32>				<39>			
	extramedullary hematopoiesis		4	1	0	0	5	0	0	0	2	1	0	0	3	0	0	0
			( 13 )	( 3 )	( 0 )	( 0 )	( 17 )	( 0 )	( 0 )	( 0 )	( 6 )	( 3 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )
	clear cell focus		3	1	0	0	1	0	0	0	2	1	0	0	1	0	0	0
			( 10 )	( 3 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 6 )	( 3 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	basophilic cell focus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
	bile ductular proliferation		1	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 )	
	biliary cyst		1	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 )	
gall bladd			<30>				<29>				<32>				<39>			
	hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Urinary system]																		
kidney			<30>				<29>				<32>				<39>			
	infarct		1	0	0	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 )	( 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 ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade				Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																					
kidney		<30>				<29>				<32>				<39>							
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyaline droplet	3	0	0	0	3	0	0	0	1	0	0	0	4	0	0	0	4	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	basophilic change	2	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 7 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	hyaline cast	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	4	1	0	0	2	0	0	0	3	1	0	0	7	1	0	0	7	1	0	0
		( 13 )	( 3 )	( 0 )	( 0 )	( 7 )	( 0 )	( 0 )	( 0 )	( 9 )	( 3 )	( 0 )	( 0 )	( 18 )	( 3 )	( 0 )	( 0 )	( 18 )	( 3 )	( 0 )	( 0 )
	inflammatory polyp	0	0	0	0	0	3	0	0	1	4	0	0	1	1	0	0	1	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 3 )	( 13 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )
	hydronephrosis	0	0	0	0	1	1	0	0	1	6	0	0 *	1	3	0	0	1	3	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )	( 3 )	( 19 )	( 0 )	( 0 )	( 3 )	( 8 )	( 0 )	( 0 )	( 3 )	( 8 )	( 0 )	( 0 )
	papillary necrosis	0	0	0	0	1	0	0	0	6	0	0	0 *	8	0	0	0 *	8	0	0	0 *
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 19 )	( 0 )	( 0 )	( 0 )	( 21 )	( 0 )	( 0 )	( 0 )	( 21 )	( 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. : 0268  
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 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																		
kidney			<30>				<29>				<32>				<39>			
	mineralization:cortico-medullary junction		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	mineralization:papilla		6	0	0	0	0	0	0	0 *	0	0	0	0 *	0	0	0	0 *
			( 20 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:cortex		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	desquamation:pelvis		4	0	0	0	5	6	0	0 *	9	0	0	0	15	0	0	0 *
			( 13 )	( 0 )	( 0 )	( 0 )	( 17 )	( 21 )	( 0 )	( 0 )	( 28 )	( 0 )	( 0 )	( 0 )	( 38 )	( 0 )	( 0 )	( 0 )
urin bladd			<30>				<29>				<32>				<38>			
	lymphocytic infiltration		2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			( 7 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
[Endocrine system]																		
pituitary			<30>				<29>				<32>				<39>			
	angiectasis		3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 10 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade				Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																					
pituitary		<30>				<29>				<32>				<39>							
	cyst	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	hyperplasia	3	2	0	0	3	1	0	0	1	0	0	0	1	1	0	0	3	3	0	0
		( 10 )	( 7 )	( 0 )	( 0 )	( 10 )	( 3 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )
	Rathke pouch	5	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	8	0	0	0
		( 17 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )
thyroid		<30>				<29>				<32>				<39>							
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
parathyroid		<17>				<16>				<14>				<16>							
	cyst	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	hyperplasia	2	0	0	0	0	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 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	spindle-cell hyperplasia	30	0	0	0	27	0	0	0	31	1	0	0	37	0	0	0	95	0	0	0
		( 100 )	( 0 )	( 0 )	( 0 )	( 93 )	( 0 )	( 0 )	( 0 )	( 97 )	( 3 )	( 0 )	( 0 )	( 95 )	( 0 )	( 0 )	( 0 )	( 95 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
adrenal			<30>				<29>				<32>				<39>			
	accessory cortical nodule		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 )
			<30>				<29>				<32>				<39>			
	focal fatty change:cortex		2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			( 7 )	( 0 )	( 0 )	( 0 )	( 7 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
[Reproductive system]																		
ovary			<30>				<29>				<32>				<39>			
	cyst		8	0	0	0	8	0	0	0	12	2	0	0	7	3	0	0
			( 27 )	( 0 )	( 0 )	( 0 )	( 28 )	( 0 )	( 0 )	( 0 )	( 38 )	( 6 )	( 0 )	( 0 )	( 18 )	( 8 )	( 0 )	( 0 )
			<30>				<29>				<32>				<39>			
	xanthogranuloma		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
uterus			<30>				<29>				<32>				<39>			
	angiectasis		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 )
			<30>				<29>				<32>				<39>			
	cystic endometrial hyperplasia		25	0	0	0	24	0	0	0	29	0	0	0	29	0	0	0
			( 83 )	( 0 )	( 0 )	( 0 )	( 83 )	( 0 )	( 0 )	( 0 )	( 91 )	( 0 )	( 0 )	( 0 )	( 74 )	( 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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Reproductive system]																		
mammary gl			<30>				<29>				<32>				<39>			
	duct ectasia		2 ( 7)	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)
	galactoceles		1 ( 3)	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)
[Nervous system]																		
brain			<30>				<29>				<32>				<39>			
	hemorrhage		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		10 ( 33)	0 ( 0)	0 ( 0)	0 ( 0)	21 ( 72)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	12 ( 38)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 18)	0 ( 0)	0 ( 0)
	dilatation:cerebral ventricle		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)
[Special sense organs/appendage]																		
eye			<30>				<29>				<32>				<39>			
	cataract		2 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0268  
 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 Grade	Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Special sense organs/appendage]

eye	degeneration:cornea	<30>				<29>				<32>				<39>			
		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	mineralization:cornea	<30>				<29>				<32>				<39>			
		6	0	0	0	5	0	0	0	1	0	0	0	6	0	0	0
		( 20 )	( 0 )	( 0 )	( 0 )	( 17 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 15 )	( 0 )	( 0 )	( 0 )

[Musculoskeletal system]

bone	fracture	<30>				<29>				<32>				<39>			
		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 )
	osteosclerosis	<30>				<29>				<32>				<39>			
		1	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 7 )	( 3 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

[Body cavities]

peritoneum	inflammation	<30>				<29>				<32>				<39>			
		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 )

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. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 27

Organ	Findings	Group Name No. of Animals on Study				Control 30				1500 ppm 29				3000 ppm 32				6000 ppm 39			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Body cavities]

adipose	granulation	<30>				<29>				<32>				<39>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

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

b b : Number of animals with lesion

( c ) c : b / a \* 100

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

(HPT150)

BAIS3

APPENDIX M1

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

MOUSE : MALE

(2-YEAR STUDY)



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Time-related Weeks	Items	Group Name	Control	333 ppm	1000 ppm	3000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	1	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		2	2	3	3
	NO. OF ANIMALS WITH TUMORS		0	2	1	2
	NO. OF ANIMALS WITH SINGLE TUMORS		0	2	1	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	2	1	2
	NO. OF TOTAL TUMORS		0	2	1	2
79 - 104	NO. OF EXAMINED ANIMALS		14	6	9	6
	NO. OF ANIMALS WITH TUMORS		13	6	9	4
	NO. OF ANIMALS WITH SINGLE TUMORS		5	2	6	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		8	4	3	3
	NO. OF BENIGN TUMORS		8	4	3	1
	NO. OF MALIGNANT TUMORS		16	11	10	6
	NO. OF TOTAL TUMORS		24	15	13	7
105 - 105	NO. OF EXAMINED ANIMALS		33	41	38	40
	NO. OF ANIMALS WITH TUMORS		25	30	26	12
	NO. OF ANIMALS WITH SINGLE TUMORS		13	20	16	10
	NO. OF ANIMALS WITH MULTIPLE TUMORS		12	10	10	2
	NO. OF BENIGN TUMORS		13	18	18	5
	NO. OF MALIGNANT TUMORS		25	27	22	9
	NO. OF TOTAL TUMORS		38	45	40	14

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 2

Time-related Weeks	Items	Group Name	Control	333 ppm	1000 ppm	3000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		38	38	36	18
	NO. OF ANIMALS WITH SINGLE TUMORS		18	24	23	13
	NO. OF ANIMALS WITH MULTIPLE TUMORS		20	14	13	5
	NO. OF BENIGN TUMORS		21	22	21	6
	NO. OF MALIGNANT TUMORS		41	40	33	17
	NO. OF TOTAL TUMORS		62	62	54	23

(HPT070)

BAIS3

APPENDIX M2

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

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0268  
 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	1500 ppm	3000 ppm	6000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		3	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		5	5	2	2
	NO. OF ANIMALS WITH TUMORS		5	5	2	2
	NO. OF ANIMALS WITH SINGLE TUMORS		4	5	2	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		2	0	0	0
	NO. OF MALIGNANT TUMORS		5	5	2	2
	NO. OF TOTAL TUMORS		7	5	2	2
79 - 104	NO. OF EXAMINED ANIMALS		12	16	16	7
	NO. OF ANIMALS WITH TUMORS		12	13	16	6
	NO. OF ANIMALS WITH SINGLE TUMORS		8	13	11	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	0	5	0
	NO. OF BENIGN TUMORS		4	0	2	1
	NO. OF MALIGNANT TUMORS		13	13	20	5
	NO. OF TOTAL TUMORS		17	13	22	6
105 - 105	NO. OF EXAMINED ANIMALS		30	29	32	39
	NO. OF ANIMALS WITH TUMORS		20	21	14	20
	NO. OF ANIMALS WITH SINGLE TUMORS		14	11	10	16
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	10	4	4
	NO. OF BENIGN TUMORS		11	17	6	5
	NO. OF MALIGNANT TUMORS		16	17	13	20
	NO. OF TOTAL TUMORS		27	34	19	25

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 4

Time-related Weeks	Items	Group Name	Control	1500 ppm	3000 ppm	6000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	49
	NO. OF ANIMALS WITH TUMORS		37	39	32	28
	NO. OF ANIMALS WITH SINGLE TUMORS		26	29	23	24
	NO. OF ANIMALS WITH MULTIPLE TUMORS		11	10	9	4
	NO. OF BENIGN TUMORS		17	17	8	6
	NO. OF MALIGNANT TUMORS		34	35	35	27
	NO. OF TOTAL TUMORS		51	52	43	33

(HPT070)

BAIS3

APPENDIX N 1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	333 ppm 50	1000 ppm 50	3000 ppm 50
[Integumentary system/appandage]						
skin/app	squamous cell carcinoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
subcutis	schwannoma:malignant		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 1 ( 2%)
[Respiratory system]						
nasal cavit	sarcoma:NOS		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
lung	bronchiolar-alveolar adenoma		<50> 3 ( 6%)	<50> 3 ( 6%)	<50> 4 ( 8%)	<50> 0 ( 0%)
	bronchiolar-alveolar carcinoma		9 ( 18%)	6 ( 12%)	7 ( 14%)	6 ( 12%)
[Hematopoietic system]						
bone marrow	mastcytoma:benign		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	hemangioma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
	histiocytic sarcoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	hemangiosarcoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
lymph node	malignant lymphoma		<50> 7 ( 14%)	<50> 9 ( 18%)	<50> 4 ( 8%)	<50> 2 ( 4%)
spleen	hemangioma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	333 ppm 50	1000 ppm 50	3000 ppm 50
[Hematopoietic system]						
spleen			<50>	<50>	<50>	<50>
	malignant lymphoma		0 ( 0%)	3 ( 6%)	1 ( 2%)	1 ( 2%)
	hemangiosarcoma		5 ( 10%)	4 ( 8%)	1 ( 2%)	0 ( 0%)
[Digestive system]						
tooth			<50>	<50>	<50>	<50>
	odontoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
salivary gl			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	mastocytoma:malignant		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
small intes			<50>	<50>	<50>	<50>
	adenoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	leiomyoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	histiocytic sarcoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
cecum			<50>	<50>	<50>	<50>
	adenoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
liver			<50>	<50>	<50>	<50>
	hemangioma		1 ( 2%)	1 ( 2%)	0 ( 0%)	1 ( 2%)
	hepatocellular adenoma		10 ( 20%)	11 ( 22%)	10 ( 20%)	3 ( 6%)
	histiocytic sarcoma		5 ( 10%)	1 ( 2%)	5 ( 10%)	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. : 0268  
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	333 ppm 50	1000 ppm 50	3000 ppm 50
[Digestive system]						
liver	hemangiosarcoma		<50> 3 ( 6%)	<50> 3 ( 6%)	<50> 2 ( 4%)	<50> 1 ( 2%)
	hepatocellular carcinoma		8 ( 16%)	11 ( 22%)	6 ( 12%)	2 ( 4%)
	hepatoblastoma		1 ( 2%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
[Urinary system]						
kidney	hemangiosarcoma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	leiomyosarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
[Endocrine system]						
pituitary	adenoma		<50> 1 ( 2%)	<49> 0 ( 0%)	<49> 0 ( 0%)	<50> 1 ( 2%)
	pheochromocytoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
[Special sense organs/appendage]						
Harder gl	adenoma		<50> 4 ( 8%)	<50> 4 ( 8%)	<50> 4 ( 8%)	<50> 0 ( 0%)
[Musculoskeletal system]						
bone	osteosarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)

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

STUDY NO. : 0268  
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	333 ppm 50	1000 ppm 50	3000 ppm 50
[Body cavities]						
mediastinum	leiomyosarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
peritoneum	hemangioma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	hemangiosarcoma		0 ( 0%)	1 ( 2%)	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

APPENDIX N 2

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Integumentary system/appandage]						
skin/app			<50>	<50>	<50>	<49>
	squamous cell papilloma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
subcutis			<50>	<50>	<50>	<49>
	fibrosarcoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	leiomyosarcoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	schwannoma:malignant		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
[Respiratory system]						
lung			<50>	<50>	<50>	<49>
	bronchiolar-alveolar adenoma		0 ( 0%)	2 ( 4%)	1 ( 2%)	1 ( 2%)
	bronchiolar-alveolar carcinoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	2 ( 4%)
[Hematopoietic system]						
lymph node			<50>	<50>	<50>	<49>
	malignant lymphoma		18 ( 36%)	23 ( 46%)	19 ( 38%)	10 ( 20%)
thymus			<50>	<50>	<50>	<49>
	malignant lymphoma		0 ( 0%)	1 ( 2%)	1 ( 2%)	0 ( 0%)
spleen			<50>	<50>	<50>	<48>
	hemangioma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	malignant lymphoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	hemangiosarcoma		1 ( 2%)	1 ( 2%)	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

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Circulatory system]						
heart	schwannoma:malignant		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 0 ( 0%)
[Digestive system]						
salivary gl	histiocytic sarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<49> 0 ( 0%)
stomach	squamous cell papilloma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<49> 0 ( 0%)
	mastocytoma:malignant		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<49> 0 ( 0%)
small intes	adenocarcinoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<49> 0 ( 0%)
liver	hemangioma		<50> 1 ( 2%)	<50> 3 ( 6%)	<50> 0 ( 0%)	<49> 2 ( 4%)
	hepatocellular adenoma		<50> 2 ( 4%)	<50> 2 ( 4%)	<50> 0 ( 0%)	<49> 0 ( 0%)
	histiocytic sarcoma		<50> 2 ( 4%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 2 ( 4%)
	hemangiosarcoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 1 ( 2%)
	hepatocellular carcinoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 0 ( 0%)
[Endocrine system]						
pituitary	adenoma		<49> 6 ( 12%)	<49> 4 ( 8%)	<50> 4 ( 8%)	<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. : 0268  
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 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Endocrine system]						
pituitary	adenocarcinoma		<49> 0 ( 0%)	<49> 0 ( 0%)	<50> 1 ( 2%)	<49> 0 ( 0%)
[Reproductive system]						
ovary	cystadenoma		<50> 2 ( 4%)	<50> 3 ( 6%)	<50> 1 ( 2%)	<49> 1 ( 2%)
	hemangioma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
	histiocytic sarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
uterus	hemangioma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<49> 0 ( 0%)
	endometrial stromal polyp		2 ( 4%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	histiocytic sarcoma		6 ( 12%)	10 ( 20%)	9 ( 18%)	11 ( 22%)
mammary gl	adenoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 0 ( 0%)
[Special sense organs/appendage]						
Harder gl	adenoma		<50> 2 ( 4%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<48> 1 ( 2%)
[Body cavities]						
peritoneum	sarcoma:NOS		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<49> 0 ( 0%)

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

APPENDIX O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : MALE

(2-YEAR STUDY)

STUDY No. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	3/50( 6.0)	4/50( 8.0)	0/50( 0.0)
Adjusted rates(b)	6.98	6.52	10.53	0.0
Terminal rates(c)	1/33( 3.0)	1/41( 2.4)	4/38( 10.5)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9566			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1039			
Fisher Exact test(e)		P = 0.3392	P = 0.4895	P = 0.1325
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	6/50( 12.0)	7/50( 14.0)	6/50( 12.0)
Adjusted rates(b)	24.24	12.20	10.53	14.63
Terminal rates(c)	8/33( 24.2)	5/41( 12.2)	4/38( 10.5)	5/40( 12.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6379			
Prevalence method(d)	P = 0.6977			
Combined analysis(d)	P = 0.7449			
Cochran-Armitage test(e)	P = 0.5595			
Fisher Exact test(e)		P = 0.3291	P = 0.4234	P = 0.3291
SITE : lung TUMOR : bronchiolar-alveolar adenoma,bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	12/50( 24.0)	9/50( 18.0)	11/50( 22.0)	6/50( 12.0)
Adjusted rates(b)	28.21	17.78	21.05	14.63
Terminal rates(c)	9/33( 27.3)	6/41( 14.6)	8/38( 21.1)	5/40( 12.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6379			
Prevalence method(d)	P = 0.9090			
Combined analysis(d)	P = 0.9213			
Cochran-Armitage test(e)	P = 0.1557			
Fisher Exact test(e)		P = 0.3620	P = 0.4826	P = 0.1474



STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : Lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	9/50( 18.0)	4/50( 8.0)	2/50( 4.0)
Adjusted rates(b)	15.15	9.76	10.53	2.50
Terminal rates(c)	5/33( 15.2)	4/41( 9.8)	4/38( 10.5)	1/40( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8988			
Prevalence method(d)	P = 0.9694			
Combined analysis(d)	P = 0.9897			
Cochran-Armitage test(e)	P = 0.0354*			
Fisher Exact test(e)		P = 0.4234	P = 0.2958	P = 0.1045
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	3/50( 6.0)	1/50( 2.0)	1/50( 2.0)
Adjusted rates(b)	0.0	7.32	2.63	2.50
Terminal rates(c)	0/33( 0.0)	3/41( 7.3)	1/38( 2.6)	1/40( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5695			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8710			
Fisher Exact test(e)		P = 0.1325	P = 0.4950	P = 0.4950
SITE : spleen TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50( 10.0)	4/50( 8.0)	1/50( 2.0)	0/50( 0.0)
Adjusted rates(b)	5.26	8.70	2.38	0.0
Terminal rates(c)	1/33( 3.0)	2/41( 4.9)	0/38( 0.0)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9818			
Prevalence method(d)	P = 0.9751			
Combined analysis(d)	P = 0.9973			
Cochran-Armitage test(e)	P = 0.0178*			
Fisher Exact test(e)		P = 0.4883	P = 0.1210	P = 0.0360*

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : spleen TUMOR : hemangioma,hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50( 10.0)	4/50( 8.0)	2/50( 4.0)	0/50( 0.0)
Adjusted rates(b)	5.26	8.70	4.76	0.0
Terminal rates(c)	1/33( 3.0)	2/41( 4.9)	1/38( 2.6)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9818			
Prevalence method(d)	P = 0.9660			
Combined analysis(d)	P = 0.9956			
Cochran-Armitage test(e)	P = 0.0222*			
Fisher Exact test(e)		P = 0.4883	P = 0.2425	P = 0.0360*
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	10/50( 20.0)	11/50( 22.0)	10/50( 20.0)	3/50( 6.0)
Adjusted rates(b)	20.45	25.00	22.22	7.50
Terminal rates(c)	6/33( 18.2)	10/41( 24.4)	8/38( 21.1)	3/40( 7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.9855			
Combined analysis(d)	P = 0.9903			
Cochran-Armitage test(e)	P = 0.0219*			
Fisher Exact test(e)		P = 0.4833	P = 0.4035	P = 0.0604
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	5/50( 10.0)	1/50( 2.0)	5/50( 10.0)	3/50( 6.0)
Adjusted rates(b)	6.06	0.0	5.26	2.33
Terminal rates(c)	2/33( 6.1)	0/41( 0.0)	2/38( 5.3)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5373			
Prevalence method(d)	P = 0.5546			
Combined analysis(d)	P = 0.5816			
Cochran-Armitage test(e)	P = 0.8428			
Fisher Exact test(e)		P = 0.1210	P = 0.3710	P = 0.3790

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : Liver TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	3/50( 6.0)	2/50( 4.0)	1/50( 2.0)
Adjusted rates(b)	7.69	4.35	5.26	2.50
Terminal rates(c)	1/33( 3.0)	1/41( 2.4)	2/38( 5.3)	1/40( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5380			
Prevalence method(d)	P = 0.8214			
Combined analysis(d)	P = 0.8681			
Cochran-Armitage test(e)	P = 0.2717			
Fisher Exact test(e)		P = 0.3392	P = 0.4909	P = 0.3235
SITE : Liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	8/50( 16.0)	11/50( 22.0)	6/50( 12.0)	2/50( 4.0)
Adjusted rates(b)	15.15	23.91	15.79	0.0
Terminal rates(c)	5/33( 15.2)	9/41( 22.0)	6/38( 15.8)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2333			
Prevalence method(d)	P = 0.9905			
Combined analysis(d)	P = 0.9948			
Cochran-Armitage test(e)	P = 0.0157*			
Fisher Exact test(e)		P = 0.3526	P = 0.4157	P = 0.0671
SITE : Liver TUMOR : hemangioma,hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	4/50( 8.0)	2/50( 4.0)	2/50( 4.0)
Adjusted rates(b)	10.26	6.52	5.26	5.00
Terminal rates(c)	1/33( 3.0)	2/41( 4.9)	2/38( 5.3)	2/40( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5380			
Prevalence method(d)	P = 0.7766			
Combined analysis(d)	P = 0.8264			
Cochran-Armitage test(e)	P = 0.3481			
Fisher Exact test(e)		P = 0.3579	P = 0.3574	P = 0.3574

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : Liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	17/50( 34.0)	20/50( 40.0)	13/50( 26.0)	5/50( 10.0)
Adjusted rates(b)	33.33	43.48	28.95	7.50
Terminal rates(c)	11/33( 33.3)	17/41( 41.5)	11/38( 28.9)	3/40( 7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3865			
Prevalence method(d)	P = 0.9999			
Combined analysis(d)	P = 0.9997			
Cochran-Armitage test(e)	P = 0.0007**			
Fisher Exact test(e)		P = 0.4098	P = 0.3333	P = 0.0166*
SITE : Harderian gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	4/50( 8.0)	4/50( 8.0)	0/50( 0.0)
Adjusted rates(b)	12.12	9.76	10.53	0.0
Terminal rates(c)	4/33( 12.1)	4/41( 9.8)	4/38( 10.5)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9889			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0498*			
Fisher Exact test(e)		P = 0.3579	P = 0.3579	P = 0.0688

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

STUDY No. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	1/50( 2.0)	6/50( 12.0)	3/50( 6.0)
Adjusted rates(b)	9.09	0.0	7.89	2.33
Terminal rates(c)	3/33( 9.1)	0/41( 0.0)	3/38( 7.9)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6548			
Prevalence method(d)	P = 0.7088			
Combined analysis(d)	P = 0.7595			
Cochran-Armitage test(e)	P = 0.5019			
Fisher Exact test(e)		P = 0.0430*	P = 0.4863	P = 0.1917
SITE : ALL SITE TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	12/50( 24.0)	5/50( 10.0)	3/50( 6.0)
Adjusted rates(b)	15.15	17.07	13.16	5.00
Terminal rates(c)	5/33( 15.2)	7/41( 17.1)	5/38( 13.2)	2/40( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8988			
Prevalence method(d)	P = 0.9599			
Combined analysis(d)	P = 0.9864			
Cochran-Armitage test(e)	P = 0.0454*			
Fisher Exact test(e)		P = 0.2119	P = 0.4062	P = 0.1917

(HPT360A)

BAIS3

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : MALE

# NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	333 ppm	1000 ppm	3000 ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	5/50( 10.0)	7/50( 14.0)	3/50( 6.0)	1/50( 2.0)
Adjusted rates(b)	5.26	13.04	5.26	2.50
Terminal rates(c)	1/33( 3.0)	4/41( 9.8)	2/38( 5.3)	1/40( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9627			
Prevalence method(d)	P = 0.9164			
Combined analysis(d)	P = 0.9850			
Cochran-Armitage test(e)	P = 0.0438*			
Fisher Exact test(e)		P = 0.4062	P = 0.3790	P = 0.1210

(IPT3G0A)

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

APPENDIX O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	2/50( 4.0)	1/50( 2.0)	3/49( 6.1)
Adjusted rates(b)	3.13	6.90	3.13	7.69
Terminal rates(c)	0/30( 0.0)	2/29( 6.9)	1/32( 3.1)	3/39( 7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2258			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3175			
Fisher Exact test(e)		P = 0.4926	P = 0.2475	P = 0.3162
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	18/50( 36.0)	23/50( 46.0)	19/50( 38.0)	10/49( 20.4)
Adjusted rates(b)	30.00	34.48	18.75	20.51
Terminal rates(c)	9/30( 30.0)	10/29( 34.5)	6/32( 18.8)	8/39( 20.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9902			
Prevalence method(d)	P = 0.8864			
Combined analysis(d)	P = 0.9947			
Cochran-Armitage test(e)	P = 0.0370*			
Fisher Exact test(e)		P = 0.3187	P = 0.4792	P = 0.1408
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	3/50( 6.0)	0/50( 0.0)	2/49( 4.1)
Adjusted rates(b)	2.86	10.34	0.0	5.00
Terminal rates(c)	0/30( 0.0)	3/29( 10.3)	0/32( 0.0)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4863			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8731			
Fisher Exact test(e)		P = 0.3235	P = 0.4950	P = 0.5000



STUDY No. : 0268  
ANIMAL : MOUSE C<sub>7</sub>:BDF<sub>1</sub>  
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : liver TUMOR : hemangioma,hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	3/50( 6.0)	0/50( 0.0)	3/49( 6.1)
Adjusted rates(b)	5.71	10.34	0.0	5.00
Terminal rates(c)	1/30( 3.3)	3/29( 10.3)	0/32( 0.0)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1110			
Prevalence method(d)	P = 0.6692			
Combined analysis(d)	P = 0.4534			
Cochran-Armitage test(e)	P = 0.7895			
Fisher Exact test(e)		P = 0.4909	P = 0.2574	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma,hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	2/50( 4.0)	0/50( 0.0)	0/49( 0.0)
Adjusted rates(b)	6.82	6.90	0.0	0.0
Terminal rates(c)	2/30( 6.7)	2/29( 6.9)	0/32( 0.0)	0/39( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9913			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0397*			
Fisher Exact test(e)		P = 0.4909	P = 0.1325	P = 0.1364
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	6/49( 12.2)	4/49( 8.2)	4/50( 8.0)	0/49( 0.0)
Adjusted rates(b)	16.67	13.79	11.43	0.0
Terminal rates(c)	5/30( 16.7)	4/29( 13.8)	3/32( 9.4)	0/39( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9250 ?			
Prevalence method(d)	P = 0.9942			
Combined analysis(d)	P = 0.9974			
Cochran-Armitage test(e)	P = 0.0186*			
Fisher Exact test(e)		P = 0.3948	P = 0.3827	P = 0.0191*

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : pituitary gland TUMOR : adenoma,adenocarcinoma				
Tumor rate				
Overall rates(a)	6/49( 12.2)	4/49( 8.2)	5/50( 10.0)	0/49( 0.0)
Adjusted rates(b)	16.67	13.79	14.29	0.0
Terminal rates(c)	5/30( 16.7)	4/29( 13.8)	3/32( 9.4)	0/39( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9250 ?			
Prevalence method(d)	P = 0.9919			
Combined analysis(d)	P = 0.9962			
Cochran-Armitage test(e)	P = 0.0255*			
Fisher Exact test(e)		P = 0.3948	P = 0.5000	P = 0.0191*
SITE : ovary TUMOR : cystadenoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	3/50( 6.0)	1/50( 2.0)	1/49( 2.0)
Adjusted rates(b)	5.88	10.34	3.13	2.56
Terminal rates(c)	0/30( 0.0)	3/29( 10.3)	1/32( 3.1)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8366			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4078			
Fisher Exact test(e)		P = 0.4909	P = 0.4926	P = 0.4851

(HPT360A)

BAIS3

STUDY No. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 SEX : FEMALE

# NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : uterus				
TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	6/50( 12.0)	10/50( 20.0)	9/50( 18.0)	11/49( 22.4)
Adjusted rates(b)	11.63	17.24	11.76	20.51
Terminal rates(c)	3/30( 10.0)	5/29( 17.2)	3/32( 9.4)	8/39( 20.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3871			
Prevalence method(d)	P = 0.2411			
Combined analysis(d)	P = 0.2374			
Cochran-Armitage test(e)	P = 0.2399			
Fisher Exact test(e)		P = 0.2557	P = 0.3291	P = 0.1853

(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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	5/50( 10.0)	1/50( 2.0)	2/49( 4.1)
Adjusted rates(b)	2.86	17.24	2.13	5.00
Terminal rates(c)	0/30( 0.0)	5/29( 17.2)	0/32( 0.0)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9285 ?			
Prevalence method(d)	P = 0.6087			
Combined analysis(d)	P = 0.7472			
Cochran-Armitage test(e)	P = 0.5993			
Fisher Exact test(e)		P = 0.2425	P = 0.4926	P = 0.3162
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	8/50( 16.0)	10/50( 20.0)	10/50( 20.0)	14/49( 28.6)
Adjusted rates(b)	12.20	17.24	14.71	25.64
Terminal rates(c)	3/30( 10.0)	5/29( 17.2)	4/32( 12.5)	10/39( 25.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4814			
Prevalence method(d)	P = 0.1023			
Combined analysis(d)	P = 0.1648			
Cochran-Armitage test(e)	P = 0.1262			
Fisher Exact test(e)		P = 0.4300	P = 0.4300	P = 0.1674

(HPT360A)

BAIS3

STUDY No. : 0268  
ANIMAL : MOUSE Crj:BDF1  
SEX : FEMALE

# NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	1500 ppm	3000 ppm	6000 ppm
SITE : ALL SITE TUMOR : malignant Lymphoma				
Tumor rate				
Overall rates(a)	18/50( 36.0)	24/50( 48.0)	20/50( 40.0)	10/49( 20.4)
Adjusted rates(b)	30.00	37.93	21.88	20.51
Terminal rates(c)	9/30( 30.0)	11/29( 37.9)	7/32( 21.9)	8/39( 20.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9902			
Prevalence method(d)	P = 0.9020			
Combined analysis(d)	P = 0.9955			
Cochran-Armitage test(e)	P = 0.0340*			
Fisher Exact test(e)		P = 0.2768	P = 0.4661	P = 0.1408

(HP1360A)

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 cut 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 P 1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	333 ppm 50	1000 ppm 50	3000 ppm 50
[Integumentary system/appandage]						
skin/app	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
[Respiratory system]						
nasal cavit	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
lung	leukemic cell infiltration		<50> 4	<50> 6	<50> 2	<50> 0
	metastasis:liver tumor		3	2	3	0
	metastasis:mediastinum tumor		0	0	1	0
[Hematopoietic system]						
bone marrow	leukemic cell infiltration		<50> 0	<50> 2	<50> 0	<50> 0
	metastasis:liver tumor		0	0	3	0
lymph node	metastasis:liver tumor		<50> 1	<50> 0	<50> 1	<50> 0
spleen	leukemic cell infiltration		<50> 1	<50> 5	<50> 1	<50> 1
	metastasis:liver tumor		2	0	3	1
	metastasis:salivary gland tumor		0	1	0	0
[Circulatory system]						
heart	leukemic cell infiltration		<50> 0	<50> 4	<50> 0	<50> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0268  
 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	333 ppm 50	1000 ppm 50	3000 ppm 50
[Circulatory system]						
heart	metastasis:liver tumor		<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:mediastinum tumor		0	0	1	0
[Digestive system]						
salivary gl	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
stomach	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
small intes	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 1
large intes	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
liver	leukemic cell infiltration		<50> 0	<50> 4	<50> 2	<50> 0
	metastasis:salivary gland tumor		0	1	0	0
pancreas	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<50> 0
	metastasis:liver tumor		0	0	2	0
[Urinary system]						
kidney	leukemic cell infiltration		<50> 0	<50> 3	<50> 0	<50> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 3

Group Name No. of Animals on Study		Control 50	333 ppm 50	1000 ppm 50	3000 ppm 50
Organ	Findings				
[Urinary system]					
kidney		<50>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
urin bladd		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	0
[Endocrine system]					
pituitary		<50>	<50>	<50>	<50>
	metastasis:bone tumor	0	0	0	1
thyroid		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
[Reproductive system]					
testis		<50>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
epididymis		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	1	0	1
	metastasis:liver tumor	1	0	0	0
semin ves		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	1	0	0
	metastasis:liver tumor	0	0	1	0
prostate		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	2	0	0
[Special sense organs/appendage]					
Harder gl		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0

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

APPENDIX P 2

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 17	333 ppm 9	1000 ppm 12	3000 ppm 10
Organ	Findings				
[Integumentary system/appandage]					
skin/app		<17>	< 9>	<12>	<10>
	leukemic cell infiltration	0	1	0	0
[Respiratory system]					
lung		<17>	< 9>	<12>	<10>
	leukemic cell infiltration	0	5	0	0
	metastasis:liver tumor	2	1	0	0
	metastasis:mediastinum tumor	0	0	1	0
[Hematopoietic system]					
bone marrow		<17>	< 9>	<12>	<10>
	leukemic cell infiltration	0	2	0	0
	metastasis:liver tumor	0	0	2	0
spleen		<17>	< 9>	<12>	<10>
	leukemic cell infiltration	0	2	0	0
	metastasis:liver tumor	1	0	3	1
[Circulatory system]					
heart		<17>	< 9>	<12>	<10>
	leukemic cell infiltration	0	4	0	0
	metastasis:liver tumor	1	0	0	0
	metastasis:mediastinum tumor	0	0	1	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 17	333 ppm 9	1000 ppm 12	3000 ppm 10
[Digestive system]						
salivary gl			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		0	1	0	0
stomach			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		0	1	0	0
small intes			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		1	0	0	0
large intes			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		1	0	0	0
liver			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		0	3	0	0
pancreas			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		1	1	0	0
	metastasis:liver tumor		0	0	1	0
[Urinary system]						
kidney			<17>	< 9>	<12>	<10>
	leukemic cell infiltration		0	3	0	0
	metastasis:liver tumor		1	0	0	0
[Endocrine system]						
pituitary			<17>	< 9>	<12>	<10>
	metastasis:bone tumor		0	0	0	1
thyroid			<17>	< 9>	<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. : 0268  
ANIMAL : MOUSE Crj:BDF1  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 3

		Group Name No. of Animals on Study	Control 17	333 ppm 9	1000 ppm 12	3000 ppm 10
Organ	Findings					
[Reproductive system]						
epididymis	leukemic cell infiltration		<17> 1	< 9> 1	<12> 0	<10> 1
semin ves	leukemic cell infiltration		<17> 0	< 9> 1	<12> 0	<10> 0
prostate	leukemic cell infiltration		<17> 0	< 9> 2	<12> 0	<10> 0
[Special sense organs/appendage]						
Harder gl	leukemic cell infiltration		<17> 0	< 9> 1	<12> 0	<10> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAISS

APPENDIX P 3

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crl:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 33	333 ppm 41	1000 ppm 38	3000 ppm 40
[Respiratory system]						
nasal cavit			<33>	<41>	<38>	<40>
	metastasis:liver tumor		1	0	0	0
lung			<33>	<41>	<38>	<40>
	leukemic cell infiltration		4	1	2	0
	metastasis:liver tumor		1	1	3	0
[Hematopoietic system]						
bone marrow			<33>	<41>	<38>	<40>
	metastasis:liver tumor		0	0	1	0
lymph node			<33>	<41>	<38>	<40>
	metastasis:liver tumor		1	0	1	0
spleen			<33>	<41>	<38>	<40>
	leukemic cell infiltration		1	3	1	1
	metastasis:liver tumor		1	0	0	0
	metastasis:salivary gland tumor		0	1	0	0
[Digestive system]						
small intes			<33>	<41>	<38>	<40>
	leukemic cell infiltration		0	0	0	1
liver			<33>	<41>	<38>	<40>
	leukemic cell infiltration		0	1	2	0
	metastasis:salivary gland tumor		0	1	0	0
pancreas			<33>	<41>	<38>	<40>
	leukemic cell infiltration		0	1	1	0

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crl:BDF1  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 33	333 ppm 41	1000 ppm 38	3000 ppm 40
[Digestive system]						
pancreas	metastasis:liver tumor		<33> 0	<41> 0	<38> 1	<40> 0
[Urinary system]						
urin bladd	leukemic cell infiltration		<33> 1	<41> 0	<38> 0	<40> 0
[Reproductive system]						
testis	metastasis:liver tumor		<33> 1	<41> 0	<38> 0	<40> 0
epididymis	metastasis:liver tumor		<33> 1	<41> 0	<38> 0	<40> 0
semin ves	leukemic cell infiltration		<33> 1	<41> 0	<38> 0	<40> 0
	metastasis:liver tumor		0	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS3



APPENDIX P 4

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 4

Group Name No. of Animals on Study		Control 20	1500 ppm 21	3000 ppm 18	6000 ppm 10
Organ	Findings				
[Integumentary system/appandage]					
skin/app		<20>	<21>	<18>	<10>
	leukemic cell infiltration	0	0	1	0
subcutis		<20>	<21>	<18>	<10>
	leukemic cell infiltration	0	1	0	0
	metastasis:uterus tumor	0	1	0	0
[Respiratory system]					
nasal cavit		<20>	<21>	<18>	<10>
	leukemic cell infiltration	0	1	1	0
lung		<20>	<21>	<18>	<10>
	leukemic cell infiltration	8	9	10	1
	metastasis:liver tumor	1	0	0	0
	metastasis:uterus tumor	0	2	2	1
[Hematopoietic system]					
bone marrow		<20>	<21>	<18>	<10>
	leukemic cell infiltration	3	4	2	1
lymph node		<20>	<21>	<18>	<10>
	metastasis:uterus tumor	0	2	0	0
spleen		<20>	<21>	<18>	<10>
	leukemic cell infiltration	8	8	9	2
	metastasis:liver tumor	2	0	0	1
	metastasis:uterus tumor	1	3	1	2
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0268  
 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	1500 ppm 21	3000 ppm 18	6000 ppm 10
[Circulatory system]						
heart	leukemic cell infiltration		<20> 2	<21> 1	<18> 3	<10> 0
	metastasis:uterus tumor		1	0	0	0
[Digestive system]						
tongue	leukemic cell infiltration		<20> 1	<21> 0	<18> 3	<10> 0
salivary gl	leukemic cell infiltration		<20> 3	<21> 1	<18> 3	<10> 1
stomach	leukemic cell infiltration		<20> 1	<21> 1	<18> 0	<10> 0
liver	leukemic cell infiltration		<20> 7	<21> 7	<18> 9	<10> 1
	metastasis:uterus tumor		1	5	4	2
gall bladd	leukemic cell infiltration		<20> 0	<21> 1	<18> 0	<10> 0
pancreas	leukemic cell infiltration		<20> 4	<21> 0	<18> 1	<10> 0
	metastasis:peritoneum tumor		1	0	0	0
[Urinary system]						
kidney	leukemic cell infiltration		<20> 4	<21> 4	<18> 1	<10> 2

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 6

Group Name No. of Animals on Study		Control 20	1500 ppm 21	3000 ppm 18	6000 ppm 10
Organ	Findings				
[Urinary system]					
kidney	metastasis:liver tumor	<20> 1	<21> 0	<18> 0	<10> 0
	metastasis:uterus tumor	0	2	1	0
urin bladd	leukemic cell infiltration	<20> 7	<21> 2	<18> 4	<10> 2
[Endocrine system]					
pituitary	leukemic cell infiltration	<20> 1	<21> 1	<18> 1	<10> 0
	leukemic cell infiltration	<20> 0	<21> 0	<18> 1	<10> 0
parathyroid	leukemic cell infiltration	<20> 1	<21> 0	<18> 0	<10> 0
	leukemic cell infiltration	<20> 5	<21> 5	<18> 1	<10> 0
adrenal	metastasis:uterus tumor	0	0	1	0
[Reproductive system]					
ovary	leukemic cell infiltration	<20> 8	<21> 7	<18> 8	<10> 1
	metastasis:uterus tumor	0	4	3	2
uterus	leukemic cell infiltration	<20> 7	<21> 6	<18> 8	<10> 1
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 7

Group Name No. of Animals on Study		Control 20	1500 ppm 21	3000 ppm 18	6000 ppm 10
Organ	Findings				
[Reproductive system]					
vagina	leukemic cell infiltration	<20> 4	<21> 1	<18> 0	<10> 1
[Nervous system]					
brain	leukemic cell infiltration	<20> 2	<21> 3	<18> 1	<10> 0
	metastasis:pituitary tumor	0	0	1	0
spinal cord	leukemic cell infiltration	<20> 1	<21> 2	<18> 1	<10> 0
[Special sense organs/appendage]					
Harder gl	leukemic cell infiltration	<20> 0	<21> 0	<18> 1	<10> 0
[Musculoskeletal system]					
muscle	leukemic cell infiltration	<20> 0	<21> 0	<18> 1	<10> 1
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

(JPT150)

BAIS3

APPENDIX P 5

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Integumentary system/appandage]						
skin/app			<50>	<50>	<50>	<49>
	leukemic cell infiltration		1	0	1	0
subcutis			<50>	<50>	<50>	<49>
	leukemic cell infiltration		1	1	0	0
	metastasis:uterus tumor		0	1	0	0
[Respiratory system]						
nasal cavit			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	2	1	0
	metastasis:subcutis tumor		1	0	0	0
lung			<50>	<50>	<50>	<49>
	leukemic cell infiltration		15	14	14	7
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	2	2	1
[Hematopoietic system]						
bone marrow			<50>	<50>	<50>	<49>
	leukemic cell infiltration		3	5	2	2
lymph node			<50>	<50>	<50>	<49>
	metastasis:uterus tumor		0	2	0	0
spleen			<50>	<50>	<50>	<49>
	leukemic cell infiltration		14	11	11	3
	metastasis:liver tumor		2	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Hematopoietic system]						
spleen			<50>	<50>	<50>	<49>
	metastasis:uterus tumor		1	4	1	3
	metastasis:stomach tumor		0	0	1	0
[Circulatory system]						
heart			<50>	<50>	<50>	<49>
	leukemic cell infiltration		5	3	3	0
	metastasis:uterus tumor		1	0	0	0
[Digestive system]						
tongue			<50>	<50>	<50>	<49>
	leukemic cell infiltration		2	0	3	0
salivary gl			<50>	<50>	<50>	<49>
	leukemic cell infiltration		9	1	5	1
stomach			<50>	<50>	<50>	<49>
	leukemic cell infiltration		4	1	0	0
small intes			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	1	0	0
	metastasis:uterus tumor		0	0	0	1
liver			<50>	<50>	<50>	<49>
	leukemic cell infiltration		13	14	16	5
	metastasis:uterus tumor		1	6	4	4
	metastasis:stomach tumor		0	0	1	0

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



STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Digestive system]						
gall bladd			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	1	0	0
pancreas			<50>	<50>	<50>	<49>
	leukemic cell infiltration		8	1	1	1
	metastasis:peritoneum tumor		1	0	0	0
[Urinary system]						
kidney			<50>	<50>	<50>	<49>
	leukemic cell infiltration		8	8	3	3
	metastasis:liver tumor		1	0	0	0
	metastasis:uterus tumor		0	2	1	0
urin bladd			<50>	<50>	<50>	<49>
	leukemic cell infiltration		12	5	5	4
[Endocrine system]						
pituitary			<50>	<50>	<50>	<49>
	leukemic cell infiltration		1	1	1	0
thyroid			<50>	<50>	<50>	<49>
	leukemic cell infiltration		0	0	1	0
parathyroid			<50>	<50>	<50>	<49>
	leukemic cell infiltration		2	0	0	0
adrenal			<50>	<50>	<50>	<49>
	leukemic cell infiltration		5	6	1	1

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

STUDY NO. : 0268  
 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 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
[Endocrine system]						
adrenal	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<49> 0
[Reproductive system]						
ovary	leukemic cell infiltration		<50> 11	<50> 10	<50> 8	<49> 5
	metastasis:uterus tumor		1	5	3	4
uterus	leukemic cell infiltration		<50> 10	<50> 7	<50> 8	<49> 2
vagina	leukemic cell infiltration		<50> 4	<50> 2	<50> 0	<49> 1
mammary gl	leukemic cell infiltration		<50> 3	<50> 0	<50> 0	<49> 0
[Nervous system]						
brain	leukemic cell infiltration		<50> 2	<50> 4	<50> 1	<49> 0
	metastasis:pituitary tumor		0	0	1	0
spinal cord	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<49> 0
[Special sense organs/appendage]						
Harder gl	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<49> 0

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

STUDY NO. : 0268  
ANIMAL : MOUSE Crl:BDF1  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study	Control 50	1500 ppm 50	3000 ppm 50	6000 ppm 49
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[Musculoskeletal system]

muscle	leukemic cell infiltration	<50> 1	<50> 0	<50> 1	<49> 1
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< a > a : Number of animals examined at the site  
b b : Number of animals with lesion

(JPT150)

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APPENDIX P 6

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 3

Group Name No. of Animals on Study		Control 30	1500 ppm 29	3000 ppm 32	6000 ppm 39
Organ	Findings				
[Integumentary system/appandage]					
skin/app		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	1	0	0	0
subcutis		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	1	0	0	0
[Respiratory system]					
nasal cavit		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	0	1	0	0
	metastasis:subcutis tumor	1	0	0	0
lung		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	7	5	4	6
[Hematopoietic system]					
bone marrow		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	0	1	0	1
spleen		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	6	3	2	1
	metastasis:uterus tumor	0	1	0	1
	metastasis:stomach tumor	0	0	1	0
[Circulatory system]					
heart		<30>	<29>	<32>	<39>
	Leukemic cell infiltration	3	2	0	0

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

STUDY NO. : 0268  
 ANIMAL : MOUSE Crj:BDF1  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 4

Group Name No. of Animals on Study		Control 30	1500 ppm 28	3000 ppm 32	6000 ppm 39
Organ	Findings				
[Digestive system]					
tongue	leukemic cell infiltration	<30> 1	<29> 0	<32> 0	<39> 0
salivary gl	leukemic cell infiltration	<30> 6	<29> 0	<32> 2	<39> 0
stomach	leukemic cell infiltration	<30> 3	<29> 0	<32> 0	<39> 0
small intes	leukemic cell infiltration	<30> 0	<29> 1	<32> 0	<39> 0
	metastasis:uterus tumor	0	0	0	1
liver	leukemic cell infiltration	<30> 6	<29> 7	<32> 7	<39> 4
	metastasis:uterus tumor	0	1	0	2
	metastasis:stomach tumor	0	0	1	0
pancreas	leukemic cell infiltration	<30> 4	<29> 1	<32> 0	<39> 1
[Urinary system]					
kidney	leukemic cell infiltration	<30> 4	<29> 4	<32> 2	<39> 1
urin bladd	leukemic cell infiltration	<30> 5	<29> 3	<32> 1	<39> 2
[Endocrine system]					
parathyroid	leukemic cell infiltration	<30> 1	<29> 0	<32> 0	<39> 0

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

STUDY NO. : 0268  
 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 30	1500 ppm 29	3000 ppm 32	6000 ppm 39
[Endocrine system]						
adrenal	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 1
[Reproductive system]						
ovary	leukemic cell infiltration		<30> 3	<29> 3	<32> 0	<39> 4
	metastasis:uterus tumor		1	1	0	2
uterus	leukemic cell infiltration		<30> 3	<29> 1	<32> 0	<39> 1
vagina	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 0
mammary gl	leukemic cell infiltration		<30> 3	<29> 0	<32> 0	<39> 0
[Nervous system]						
brain	leukemic cell infiltration		<30> 0	<29> 1	<32> 0	<39> 0
[Special sense organs/appendage]						
Harder gl	leukemic cell infiltration		<30> 1	<29> 1	<32> 0	<39> 0
[Musculoskeletal system]						
muscle	leukemic cell infiltration		<30> 1	<29> 0	<32> 0	<39> 0

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

## APPENDIX Q 1

### IDENTITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY



## IDENTITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : Glyoxal (Wako Pure Chemical Industries, LTD.)

A. Lot No. : CAK4487

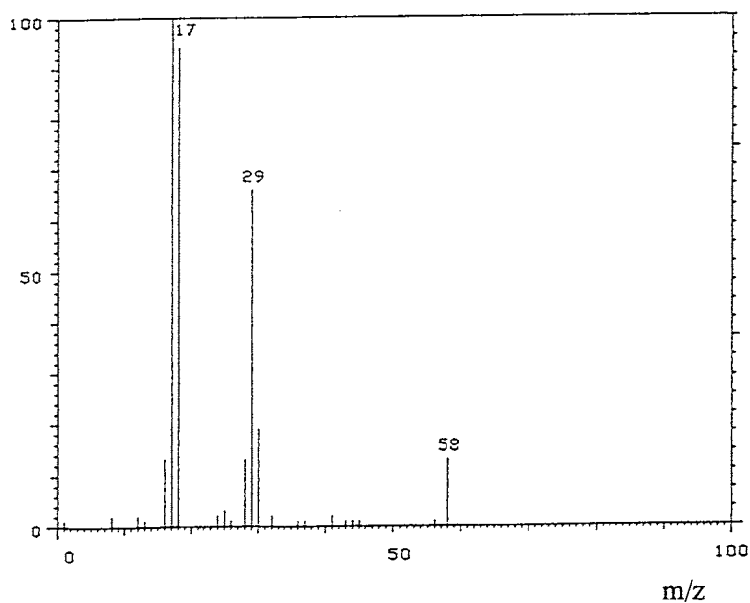
## 1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

Determined Values

Fragment Peak (m/z)

17

29

58

Literature Values\*

Fragment Peak (m/z)

17

29

58

Results: The mass spectrum was consistent with literature spectrum.

(\*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base.  
Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

B. Lot No. : SKQ5736

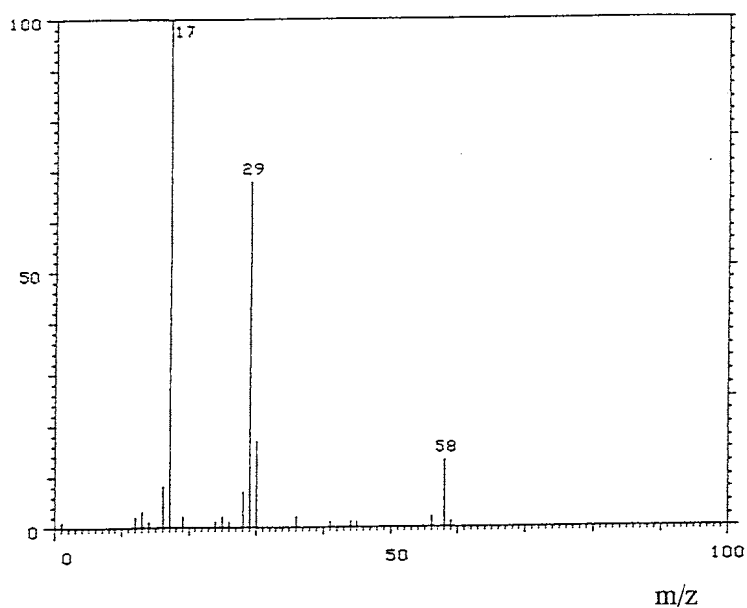
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

<u>Determined Values</u>	<u>Literature Values</u> *
Fragment Peak (m/z)	Fragment Peak (m/z)
17	17
29	29
58	58

Results: The mass spectrum was consistent with literature spectrum.

(\*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base.  
Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

C. Lot No. : SKE5515

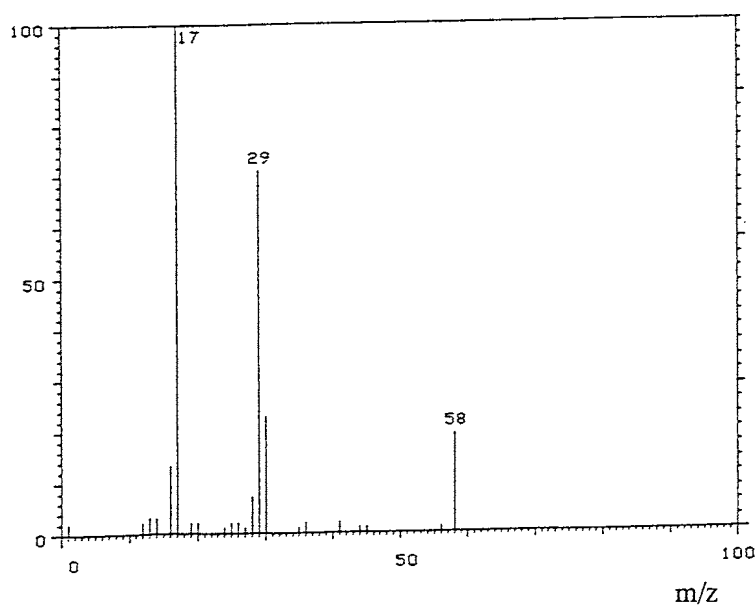
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

<u>Determined Values</u>	<u>Literature Values</u> *
Fragment Peak (m/z)	Fragment Peak (m/z)
17	17
29	29
58	58

Results: The mass spectrum was consistent with literature spectrum.

(\*S. R. Heller and G. W. A. Milne (1978) EPA/NIH Mass spectral data base.  
Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 63, Vol. 1, pp. 7)

2. Conclusions: The test substance was identified as glyoxal, by the mass spectrum.

## APPENDIX Q 2

### STABILITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

## STABILITY OF GLYOXAL IN THE 2-YEAR DRINKING WATER STUDY

Test Substance : Glyoxal (Wako Pure Chemical Industries, LTD.)

A. Lot No. : CAK4487

1. Sample : This lot was used from 1994.9.30 to 1995.8.18. Test substance was stored in the dark place at room temperature.

## 2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm  $\phi$   $\times$  25 m)

Column Temperature : 140° C

Flow Rate : 0.7 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1  $\mu$ L

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

Date (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1994.09.05	1	1.293 (Solvent Peak)	100
	2	2.03	
1995.08.28	1	1.292 (Solvent Peak)	100
	2	2.028	

\* The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1994.9.5 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1995.8.28. No new trace impurity peak in the test substance analyzed at 1995.8.28 was detected.

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

B. Lot No. : SKQ5736

1. Sample : This lot was used from 1995.8.18 to 1996.3.8. Test substance was stored in the dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm  $\phi$   $\times$  25m)

Column Temperature : 140 °C

Flow Rate : 0.7 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1  $\mu$ L

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

Date (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1995.08.15	1	1.227 (Solvent Peak)	100
	2	2.055	
1996.03.15	1	1.227 (Solvent Peak)	100
	2	2.055	

\* The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1995.8.15 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.3.15. No new trace impurity peak in the test substance analyzed at 1996.3.15 was detected.

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

C. Lot No. : SKE5515

1. Sample : This lot was used from 1996.3.8 to 1996.10.4. Test substance was stored in the dark place at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm  $\phi$   $\times$  25 m)

Column Temperature : 140 °C

Flow Rate : 0.7 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1  $\mu$ L

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02mL), 36% hydrochloric acid (0.1mL), 4% o-phenylene diamine dihydrochloride (0.05mL) were added to a glyoxal solution (1mL). This mixture was stirred at 75°C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2mL) and analyzed.

Date (date analyzed)	Peak No.	Retention Time (min)	Area* (%)
1996.02.13	1	1.207 (Solvent Peak)	100
	2	2.008	
1996.10.15	1	1.207 (Solvent Peak)	100
	2	2.01	

\* The solvent peak was excluded from the area calculation.

Results: Gas chromatography indicated one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.2.13 and one major peak (peak No.2) and solvent peak (peak No.1) analyzed at 1996.10.15. No new trace impurity peak in the test substance analyzed at 1996.10.15 was detected.

3. Conclusions: The test substance was stable for about 8 months in the dark place at room temperature.

## APPENDIX R 1

### CONCENTRATION OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY



# CONCENTRATION OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

Date Analyzed	Target Concentration				
	333 <sup>a</sup>	1000	1500	3000	6000
1994.12.02	341 (102.4) <sup>b</sup>	1038 (103.8)	1567 (104.5)	3134 (104.5)	6208 (103.5)
1995.02.17	358 (107.5)	1004 (100.4)	1680 (112.0)	3487 (116.2)	7050 (117.5)
1995.05.23	347 (104.2)	1069 (106.9)	1444 ( 96.3)	3041 (101.4)	6023 (100.4)
1995.08.15	359 (107.8)	1050 (105.0)	1607 (107.1)	3252 (108.4)	6443 (107.4)
1995.11.07	350 (105.1)	1050 (105.0)	1577 (105.1)	3153 (105.1)	6307 (105.1)
1996.01.30	358 (107.5)	1072 (107.2)	1611 (107.4)	3238 (107.9)	6430 (107.2)
1996.04.23	366 (109.9)	1067 (106.7)	1605 (107.0)	3256 (108.5)	6358 (106.0)
1996.07.16	328 ( 98.5)	1003 (100.3)	1582 (105.5)	3134 (104.5)	6327 (105.5)

<sup>a</sup> ppm

<sup>b</sup> %

Analytical method: The samples were analyzed by the GC.

Instrument : Hewlett Packard 5890A Gas Chromatograph  
 Column : Methyl Silicone (0.2 mm  $\phi$   $\times$  25 m)  
 Flow Rate : 0.7 mL/min  
 Detector : FID (Flame Ionization Detector)

Column Temperature: 140 °C  
 Injection Volume : 1  $\mu$ L

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

## APPENDIX R 2

### STABILITY OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

# STABILITY OF GLYOXAL IN FORMULATED WATER IN THE 2-YEAR DRINKING WATER STUDY

Date Prepared	Date Analyzed	Target Concentration	
		333 <sup>a</sup>	6000
1994.08.29 <sup>a</sup>	1994.08.29	329 (100) <sup>b</sup>	6304 (100)
	1994.09.02 <sup>c</sup>	343 (104.3)	6092 ( 96.6)
	1994.09.06 <sup>c</sup>	323 ( 98.2)	5957 ( 94.5)

Date Prepared	Date Analyzed	Target Concentration	
		333 <sup>a</sup>	6000
1994.12.02 <sup>a</sup>	1994.12.02	341 (100) <sup>b</sup>	6208 (100)
	1994.12.16 <sup>c</sup>	298 ( 87.4)	6278 (101.1)

<sup>a</sup> ppm

<sup>b</sup> % (Percentage were based on the concentration on date of preparation.)

<sup>c</sup> Animal room samples

Analytical method : The samples were analyzed by the GC.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm  $\phi$   $\times$  25 m)

Flow Rate : 0.7 mL/min

Detector : FID (Flame Ionization Detector)

Column Temperature: 140 °C

Injection Volume : 1  $\mu$ L

Pre-Treatment : Glyoxal was allowed to react with quinoxaline, and analyzed. First, 50% hydroxylammonium chloride (0.02 mL), 36% hydrochloric acid (0.1 mL), 4% o-phenylene diamine dihydrochloride (0.05 mL) were added to a glyoxal solution (1 mL). This mixture was stirred at 75 °C for 0.5 hr. Then, this solution was extracted with ethyl acetate (2 mL) and analyzed.

## APPENDIX S 1

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

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

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

1) Automatic blood cell analyzer (Technicon H•1 : Technicon Instruments Corporation,USA)

2) Automatic blood cell differential analyzer (Hitachi 8200 : Hitachi,Ltd.,Japan)

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

4) Ames reagent strips for urinalysis (Uro-Labstix : Bayer-Sankyo Co.,Ltd.,Japan)

## APPENDIX S 2

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

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

Item	Unit	Decimal place
<b>Hematology</b>		
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
<b>Biochemistry</b>		
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 transminase (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