

4-クロロ-2-ニトロアニリンのラットを用いた
経口投与によるがん原性試験（混餌試験）報告書

試験番号：0759

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TABLE A 1

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
280 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
1400 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
7000 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
Number of survival/ Number of effective animals Survival rate (%)															

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BA1S5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
280 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
1400 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
7000 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0

Number of survival/ Number of effective animals
Survival rate (%)

(HAN360)

BA1S5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
280 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
1400 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
7000 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
Number of survival/ Number of effective animals Survival rate (%)															

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BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
280 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0
1400 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0
7000 ppm	50	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
280 ppm	50	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
1400 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
7000 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0

Number of survival/ Number of effective animals
Survival rate(%)

(HAN360)

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STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	48/50 96.0	48/50 96.0	48/50 96.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	45/50 90.0	45/50 90.0
280 ppm	50	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	47/50 94.0	47/50 94.0	47/50 94.0
1400 ppm	50	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
7000 ppm	50	47/50 94.0	47/50 94.0	46/50 92.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0
Number of survival/ Number of effective animals Survival rate(%)															

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STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 7

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	45/50 90.0	45/50 90.0	45/50 90.0	43/50 86.0	41/50 82.0	41/50 82.0	41/50 82.0	41/50 82.0	41/50 82.0	41/50 82.0	41/50 82.0	40/50 80.0	40/50 80.0	38/50 76.0
280 ppm	50	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	45/50 90.0	45/50 90.0	43/50 86.0	43/50 86.0
1400 ppm	50	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	46/50 92.0	46/50 92.0	45/50 90.0	45/50 90.0	45/50 90.0	44/50 88.0	44/50 88.0	44/50 88.0
7000 ppm	50	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	45/50 90.0	44/50 88.0	43/50 86.0	43/50 86.0
Number of survival/ Number of effective animals Survival rate(%)															

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STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	38/50 76.0	38/50 76.0	38/50 76.0	38/50 76.0	38/50 76.0	38/50 76.0	38/50 76.0
280 ppm	50	41/50 82.0	41/50 82.0	41/50 82.0	39/50 78.0	39/50 78.0	38/50 76.0	36/50 72.0
1400 ppm	50	43/50 86.0	43/50 86.0	43/50 86.0	43/50 86.0	43/50 86.0	43/50 86.0	41/50 82.0
7000 ppm	50	40/50 80.0	40/50 80.0	39/50 78.0	37/50 74.0	37/50 74.0	36/50 72.0	33/50 66.0
Number of survival/ Number of effective animals Survival rate(%)								

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TABLE A 2

SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 9

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
160 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
800 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
4000 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
Number of survival/ Number of effective animals Survival rate (%)															

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STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000 ppm	50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Number of survival/ Number of effective animals		Survival rate(%)													

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BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
160 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
800 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
4000 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 12

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
160 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
800 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
4000 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
160 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
800 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
4000 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
160 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	47/50 94.0
800 ppm	50	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
4000 ppm	50	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 15

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	43/50	43/50	43/50	43/50	42/50	42/50
		94.0	92.0	92.0	92.0	92.0	92.0	90.0	90.0	86.0	86.0	86.0	86.0	84.0	84.0
160 ppm	50	47/50	46/50	46/50	46/50	46/50	45/50	45/50	43/50	43/50	42/50	42/50	42/50	42/50	42/50
		94.0	92.0	92.0	92.0	92.0	90.0	90.0	86.0	86.0	84.0	84.0	84.0	84.0	84.0
800 ppm	50	48/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	45/50	45/50	45/50	45/50	44/50	44/50
		96.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	90.0	90.0	90.0	90.0	88.0	88.0
4000 ppm	50	47/50	46/50	46/50	44/50	43/50	43/50	38/50	37/50	35/50	31/50	26/50	23/50	22/50	18/50
		94.0	92.0	92.0	88.0	86.0	86.0	76.0	74.0	70.0	62.0	52.0	46.0	44.0	36.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	40/50 80.0	39/50 78.0	38/50 76.0	38/50 76.0	35/50 70.0	34/50 68.0	34/50 68.0
160 ppm	50	42/50 84.0	40/50 80.0	40/50 80.0	39/50 78.0	39/50 78.0	39/50 78.0	39/50 78.0
800 ppm	50	43/50 86.0	43/50 86.0	43/50 86.0	43/50 86.0	42/50 84.0	42/50 84.0	42/50 84.0
4000 ppm	50	16/50 32.0	12/50 24.0	11/50 22.0	8/50 16.0	6/50 12.0	5/50 10.0	3/50 6.0
Number of survival/ Number of effective animals Survival rate(%)								

(HAN360)

BAIS5

TABLE B 1

CLINICAL OBSERVATION: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	1	1	2	3	7	7	16	16	48
	1400 ppm	0	0	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	30	31	50	50	50	50	50	50	50	50	50	50	50	50
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 2

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
		15-7	16-7														
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	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	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	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	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	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	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	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	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	48	49	49	49	49	49	49	49	49	49	50	50	50	50	50	50
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 3

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	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	7000 ppm	0	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	36	48	48	49	49	50	50	49	48	48	48	48
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	49	49	49
	7000 ppm	50	49	49	49	49	49	49	49	49	49	49	49	49	49
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 5

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												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	280 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	1	1	1		1	1	1	1	1	2	2	2	2	2	3
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	280 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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	1	1
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	0
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	48	48	48		48	46	48	48	48	48	48	48	48	48	48
	1400 ppm	49	49	49		49	49	49	49	49	49	49	49	49	49	49
	7000 ppm	49	49	49		49	49	49	49	49	48	48	48	48	48	47
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
DEATH	Control	1	1	3		3	3	3	3	3	3	3	3	3	3	3
	280 ppm	1	1	1		1	1	1	1	1	1	1	2	2	2	2
	1400 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	3	4	5		5	5	5	5	5	5	5	5	5	5	5
MORIBUND SACRIFICE	Control	1	1	1		1	1	1	1	1	1	1	1	2	2	2
	280 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	1	1	1		1	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	48	48	46		46	48	48	48	48	48	48	47	47	38	47
	1400 ppm	48	48	48		48	48	48	48	48	48	48	48	48	48	48
	7000 ppm	47	46	45		45	45	45	45	45	45	45	45	45	45	45
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	1	1	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
DEATH	Control	3	3	5	5	5	5	5	5	5	5	6	6	7	7
	280 ppm	2	2	2	2	2	2	2	2	2	4	4	4	4	4
	1400 ppm	2	2	2	2	2	3	3	4	4	4	4	4	4	5
	7000 ppm	5	5	5	5	5	5	5	5	5	5	5	6	6	8
MORIBUND SACRIFICE	Control	2	2	2	4	4	4	4	4	4	4	4	4	5	5
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	3	3	5
	1400 ppm	0	0	0	0	0	1	1	1	1	1	2	2	2	2
	7000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	47	47	47	47	47	47	44	47	47	45	45	43	43	41
	1400 ppm	48	48	48	48	48	46	46	45	45	45	44	44	44	43
	7000 ppm	45	45	45	45	45	45	45	45	45	45	44	43	43	40
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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
DEATH	Control	7	7	7	7	7	7
	280 ppm	4	4	4	4	4	6
	1400 ppm	5	5	5	5	5	7
	7000 ppm	8	9	11	11	12	14
MORIBUND SACRIFICE	Control	5	5	5	5	5	5
	280 ppm	5	5	7	7	8	8
	1400 ppm	2	2	2	2	2	2
	7000 ppm	2	2	2	2	2	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	2	1	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0
	280 ppm	41	41	39	39	38	36
	1400 ppm	43	43	43	43	43	41
	7000 ppm	40	39	37	37	36	33
PILORECTION	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	1	1	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration		Week-day		4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration		Week-day		18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7	17-7											
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	1	1	0	0	0	0	0	0	1	1	1	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

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											
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	1	1	1	1	1	1	1	1	1
	280 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	2	2	2	2	2	2	2
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	0	1	1	0	0	0	0
	280 ppm	0	1	1	1	1	1	1	2	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 12

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 PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	280 ppm	1	1	1	2	2	3	3	4	4	3	3	3	3	3
	1400 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	7000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	2	2	2	2	1	1	1	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	1	1	1	1	1	2	2	1	1	0	0	0	0	0
	1400 ppm	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
SOILED PERI-GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	1	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
	280 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	1	1		1	1	1	1	1	1	2	2	2	2	2
	280 ppm	3	3	3		3	3	3	3	3	3	4	4	4	4	4
	1400 ppm	1	1	1		1	1	1	1	1	1	1	2	2	2	2
	7000 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	2	2		3	3	4	6	6	6	5	3	3	3	3
	280 ppm	0	0	0		1	1	1	2	2	2	1	1	1	1	1
	1400 ppm	1	2	2		3	3	3	3	3	4	4	4	4	4	5
	7000 ppm	0	0	0		0	1	1	2	2	3	3	3	3	3	2
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	1	1	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	1	1		1	1	1	1	1	1	1	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	280 ppm	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6
	1400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
	280 ppm	1	1	1	1	2	2	2	2	3	3	2	3	4	4	5
	1400 ppm	5	5	5	5	5	5	5	6	7	8	8	9	10	11	11
	7000 ppm	2	2	2	2	2	2	4	4	3	3	3	3	3	3	3
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
		85-7	86-7	87-7														
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	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	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	280 ppm	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
	1400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	4	5	4	3	4	5	3	3	3	3	2	4	5	4	4	4	4
	280 ppm	5	5	5	5	5	5	5	5	5	6	6	5	5	6	6	6	6
	1400 ppm	11	13	12	12	12	12	12	12	14	15	16	16	16	16	14	14	14
	7000 ppm	3	3	3	3	2	4	4	4	4	4	4	4	3	3	4	4	4
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	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	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	1
	1400 ppm	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0
CATARACT	Control	2	2	4	4	4	4
	280 ppm	7	8	8	8	8	8
	1400 ppm	2	2	2	2	2	2
	7000 ppm	1	1	1	1	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	1	1	1	1	1	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	6	5	5	6	7	9
	280 ppm	7	7	7	7	6	6
	1400 ppm	16	16	15	16	17	17
	7000 ppm	5	7	6	6	5	5
INTERNAL MASS	Control	0	0	0	0	0	0
	280 ppm	1	1	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 17

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. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	1	1	0	0	0	0	0	0	1	1	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

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											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	1	1	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0
M. PERI EAR	Control	1	1	1	1	1	1	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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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												
M. PERI-MOUTH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	1	1	0	0	0	0	0	0	0
	1400 ppm	2	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	1	1	1		1	1	1	1	1	1	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	1	1	1	2	2	2	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	1	1	2	3	3	3	2	2	2	2	2
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	1	1	2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1400 ppm	1	1	1	1	1	1	1	2	2	2	3	4	4	4
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	7000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	1	1	1	1	1	1	1	1	1	1	0	0	1	1
	7000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	280 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	1400 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	7000 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	1	1	1	1	1	1	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. PERI-MOUTH	Control	1	1	0	0	1	1	0	0	1	0	0	1	0	0
	280 ppm	2	2	1	1	1	1	1	1	2	2	1	1	1	1
	1400 ppm	0	2	1	1	1	1	1	1	1	1	2	2	2	1
	7000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	1400 ppm	5	5	5	5	5	5	5	5	6	6	6	6	6	6
	7000 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
	280 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	1	1	1	1	1	0	0	0	2	2	2	2	2	2
	7000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
M. ANTERIOR DORSUM	Control	0	0	0	0	0	1	1	1	0	0	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1400 ppm	1	1	1	1	1	2	2	2	2	3	3	3	3	3
	7000 ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
M. POSTERIOR DORSUM	Control	1	2	2	1	1	1	1	1	1	1	1	1	1	1
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	1400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	7000 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
	280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1400 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	7000 ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0
M. SCROTUM	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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
M. PERI-MOUTH	Control	1	0	0	0	0	0
	280 ppm	1	1	1	1	1	1
	1400 ppm	2	1	0	0	0	1
	7000 ppm	0	1	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
M. BREAST	Control	3	3	3	3	3	3
	280 ppm	1	1	1	1	1	1
	1400 ppm	6	6	6	7	7	6
	7000 ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	1	1
	280 ppm	1	1	2	2	2	2
	1400 ppm	3	4	4	4	5	5
	7000 ppm	3	3	3	4	3	3
M. ANTERIOR DORSUM	Control	1	1	1	2	2	4
	280 ppm	1	1	1	1	1	1
	1400 ppm	3	3	3	3	3	4
	7000 ppm	2	2	2	1	1	1
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1
	280 ppm	2	2	2	2	1	1
	1400 ppm	1	1	1	1	1	1
	7000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	280 ppm	1	1	1	1	1	1
	1400 ppm	2	2	2	2	2	1
	7000 ppm	0	1	1	1	1	1
M. SCROTUM	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0
	280 ppm	1	1	1	1	1	1
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULGER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

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											
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	1	1	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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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												
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
ANEMIA	Control	0	1	0	1	1	1	1	1	0	0	0	1	1	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	1	1	1	0	0	1	1	1	0	2
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	1400 ppm	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1
	7000 ppm	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	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	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 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
ANEMIA	Control	0	0	0	0	0	0
	280 ppm	1	1	0	0	0	1
	1400 ppm	0	0	0	0	2	1
	7000 ppm	0	1	1	1	2	1
ULCER	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	2	1	1	1	1	0
	7000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	1
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0
	280 ppm	1	1	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	280 ppm	1	1	1	1	0	0
	1400 ppm	1	1	1	1	1	2
	7000 ppm	3	3	1	1	1	4
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	1	1	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	49	49	49	49	49
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI Crij [F344/DuCrj]
REPORT TYPE : A1 104

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											
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	7000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	48	48	48	48	47	47	48	48	48	48
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Crij [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	50	50	50	50	50	50	50	50	50	49	48	48	48	48
	1400 ppm	50	50	50	50	50	50	50	50	50	50	50	49	49	49
	7000 ppm	50	49	49	49	49	49	49	49	49	49	49	49	49	49
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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
	280 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
RED URINE	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	1400 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	7000 ppm	49	49	49	49	49	49	49	49	48	48	48	48	48	47
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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	1	1	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	1	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
NON REMARKABLE	Control	48	46	46	45	45	43	41	41	41	41	42	42	41	41
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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
RED URINE	Control	1	0	0	0	0	0	0	0	0	0	0	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	48	48	48	48	48	48	48	48	48	48	47	47	47	47
	1400 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	7000 ppm	47	46	45	45	45	45	45	45	45	45	45	45	45	45
BROWN URINE	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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	1	1	0	0	0
	280 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 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	1	1	0	0	0
	280 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	41	41	39	38	39	39	39	40	40	40	40	38	38	38
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
RED URINE	Control	1	1	1	1	1	1	1	0	0	0	0	1	1	1
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	1	0	0	0	0	0	0	0	1	1	1	0	0
	280 ppm	47	47	47	47	47	47	47	47	47	45	45	43	43	41
	1400 ppm	48	48	48	48	48	46	46	45	45	45	44	44	44	43
	7000 ppm	45	45	45	45	45	45	45	45	45	45	44	43	43	40
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	2	1	0	0	0	0	0	0	1	1	1	0	0
	280 ppm	0	0	0	0	0	0	0	0	1	0	0	0	1	0
	1400 ppm	0	1	1	0	0	0	1	0	0	0	0	0	1	0
	7000 ppm	0	0	0	0	0	0	2	2	1	1	0	0	0	0
OLIGO-STOOL	Control	0	2	1	0	0	0	0	0	0	0	1	1	0	0
	280 ppm	0	0	0	0	0	0	0	0	1	0	1	0	1	0
	1400 ppm	0	1	0	0	0	0	1	0	0	1	0	0	1	0
	7000 ppm	0	0	0	0	0	0	2	1	1	1	0	0	0	0
NON REMARKABLE	Control	38	35	35	35	35	33	34	35	35	35	32	30	30	31
	280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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
RED URINE	Control	1	1	1	1	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0
	280 ppm	41	41	39	39	38	36
	1400 ppm	43	43	43	43	43	41
	7000 ppm	40	39	37	37	36	33
BROWN URINE	Control	0	0	0	0	0	0
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0
	280 ppm	2	2	1	1	0	0
	1400 ppm	0	0	0	0	0	1
	7000 ppm	2	1	2	2	3	3
OLIGO-STOOL	Control	0	0	0	0	0	0
	280 ppm	2	2	1	2	0	0
	1400 ppm	0	0	0	0	0	2
	7000 ppm	1	1	1	1	6	9
NON REMARKABLE	Control	29	30	28	27	27	25
	280 ppm	0	0	0	0	0	0
	1400 ppm	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0

TABLE B 2

CLINICAL OBSERVATION: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	3	3	3	3	4	6	9	9	9	11	13	13	13	13
	800 ppm	0	5	5	6	8	8	12	16	19	19	28	27	32	32	32
	4000 ppm	1	16	19	21	30	30	36	37	42	44	46	42	49	49	49
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	13	14	17		18	19	19	19	19	19	21	21	23	23	23
	800 ppm	39	31	38		40	46	46	46	46	46	47	39	44	45	45
	4000 ppm	50	50	49		49	49	49	49	49	49	49	49	49	49	49
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	2

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	24	24	31	32	32	28	36	40	41	39	42	42	44	44
	800 ppm	49	48	49	50	50	47	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	2	1	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	44	44	45	45	46	46	46	46	46	46	46	46	47	47
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	1	0	0	0	0	0	1	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	1	1	1	1	1	1	1
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1		1	1	1	1	1	1	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	48	47	47		47	47	47	46	45	45	45	45	45	42	41
	800 ppm	50	50	50		50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49		49	49	49	49	49	49	48	48	48	48	48
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 46

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	0	0	0	0	1	1	1	1	1	2	2	2	2	3
	160 ppm	1	1	1	2	2	2	2	2	2	2	2	2	3	3
	800 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	41	41	41	40	40	40	40	41	41	41	40	40	40	40
	800 ppm	50	49	49	49	49	49	49	48	48	48	48	48	48	48
	4000 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	47
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
DEATH	Control	4	4	4	4	4	5	5	7	7	7	7	8	8	9
	160 ppm	4	4	4	4	4	4	6	6	7	7	7	7	7	7
	800 ppm	2	2	2	2	3	3	3	4	4	4	4	5	5	6
	4000 ppm	3	3	5	6	6	11	12	14	17	21	23	24	27	29
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	160 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	2	3	4	4	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1	0	1	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	1	1
SOILED	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	40	33	32	31	31	31	30	30	29	29	31	31	31	31
	800 ppm	47	47	47	47	46	46	46	45	45	45	45	44	44	43
	4000 ppm	46	46	44	43	43	38	37	35	31	26	23	22	18	16
PILORECTION	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	1	1	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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	1	1
	160 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	9	10	10	12	12	12
	160 ppm	7	7	8	8	8	8
	800 ppm	6	6	6	7	7	7
	4000 ppm	33	34	37	39	40	41
MORIBUND SACRIFICE	Control	2	2	2	3	4	4
	160 ppm	3	3	3	3	3	3
	800 ppm	1	1	1	1	1	1
	4000 ppm	5	5	5	5	5	6
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0
	160 ppm	31	30	29	27	27	28
	800 ppm	43	43	43	42	42	42
	4000 ppm	12	11	8	6	5	3
PILORECTION	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI Crj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	2	2	2	3	2	2	2	2	2	2	2	2	2	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	1	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	3	3	4	4	4	4	4	4	4	4	4	4	4	4
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI Crij [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	1	2	2	2	2
	160 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4000 ppm	4	4	4	4	4	4	4	4	5	4	5	5	5	5
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	2	2	2	2	3	3
	800 ppm	2	2	3	3	3	3	3	3	3	3	3	3	3	3
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	3	3	3	3	3	3	3	3	3	4	4
	160 ppm	2	2	1	0	0	1	2	2	2	2	2	3	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	2	2	1	1	1
	4000 ppm	5	5	4	4	4	4	4	5	5	5	5	7	10	10
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	1	1	0	0	0	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	4000 ppm	0	0	0	0	0	0	0	1	1	1	1	0	1	1
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	160 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	800 ppm	3	3	3	3	3	3	3	2	2	2	2	2	3	3
	4000 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	1	0	0	0	0	0	0	1	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
EXTERNAL MASS	Control	4	4	6	6	6	9	8	7	8	9	10	10	10	9
	160 ppm	2	2	2	3	3	3	3	4	4	4	4	6	6	6
	800 ppm	1	1	2	2	2	4	5	6	6	8	9	9	9	8
	4000 ppm	10	10	11	11	11	8	7	7	6	4	4	4	4	2
INTERNAL MASS	Control	0	0	0	1	1	0	0	0	0	0	0	1	1	0
	160 ppm	0	0	0	0	0	1	1	1	0	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1	1	1	1	1	0	0	0	0
M. EYE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CATARACT	Control	1	1	1	1	1	1
	160 ppm	3	3	3	3	3	3
	800 ppm	3	3	3	3	3	3
	4000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	1	1	1	0	2
EXTERNAL MASS	Control	12	11	11	12	14	13
	160 ppm	6	6	6	7	7	9
	800 ppm	8	9	9	10	12	12
	4000 ppm	1	1	1	1	1	2
INTERNAL MASS	Control	1	2	2	0	0	0
	160 ppm	0	0	0	0	1	2
	800 ppm	0	0	0	0	0	1
	4000 ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. EYE	Control	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1
M. EAR	Control	0	0	0	0	0	0
	160 ppm	0	0	0	1	1	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	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	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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												
M. PERI EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	0	0	0	0	1	1	1
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0		0	0	0	0	1	1	1	1	2	2	2

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	1	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	2	2	2	2
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	0	1	2	1	1	1	1	1	0	1	1	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	0	2	2	0	0	0	2	2	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. FORELIMB	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	160 ppm	1	1	1	0	0	0	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	1	1	1	1	1	1	1	1	2	2
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	4	4
ANEMIA	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	4000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
ULCER	Control	0	0	0	0	0	0	0	1	1	0	0	0	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1	1	1	0	0	0	0	1	1

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

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Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	1	1	2	2	2	1	1	1	1
	4000 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	2	2	2	3	3	4	4	3	4	5	5	5	5	5
	160 ppm	1	1	1	2	2	2	2	2	2	2	2	3	3	3
	800 ppm	1	1	1	1	1	2	2	2	2	3	3	4	4	3
	4000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	4000 ppm	1	1	2	2	2	1	1	1	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	2	2	2	4	3	3	3	3	3	3	3	2
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	1	1	1	1	2	2	2	2	4	4	4	4
	4000 ppm	3	3	3	3	3	1	1	1	1	1	1	1	1	1
ANEMIA	Control	1	1	1	1	1	0	2	1	1	1	1	1	1	1
	160 ppm	1	1	1	0	0	0	1	1	1	1	1	1	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. PERI EAR	Control	0	0	0	0	0	0
	160 ppm	1	1	1	0	0	1
	800 ppm	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. BREAST	Control	5	4	4	6	8	8
	160 ppm	3	3	3	3	3	3
	800 ppm	3	3	3	4	6	6
	4000 ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0
	160 ppm	1	1	1	2	2	3
	800 ppm	1	2	2	2	2	2
	4000 ppm	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	1	1	1	1	1	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	5	5	5	5	5	4
	160 ppm	1	1	1	1	1	2
	800 ppm	4	4	4	4	4	4
	4000 ppm	0	0	0	0	0	0
ANEMIA	Control	1	1	1	1	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	50	50	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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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											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	48	49	50	50	50	50	50
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
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SEX : FEMALE

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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											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	49	50	50	50	50	50	49	50	50
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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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											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4000 ppm	0	1	1	0	0	0	0	0	0	0	1	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	50	50	50	50	50	50	50	49	49	49	49	49	49	49
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	49	49	49	49	49	49	49	49	49	48	48	48	48	48
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	49	48	48	48	48
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	49	49	49	48	48	48	48	48	48	48	48	48	47	47
	800 ppm	50	49	49	49	49	49	49	48	48	48	48	48	48	48
	4000 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	47
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	1
	800 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	4000 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
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	800 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	47	47	46	46	46	46	46	45	45	45	44	43
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	1	0	0	0	0	1	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	2	0
	160 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	1	0	0	1	2	2	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	160 ppm	46	46	46	46	45	45	43	43	42	42	42	42	42	42
	800 ppm	47	47	47	47	46	46	46	45	45	45	45	44	44	43
	4000 ppm	46	46	44	43	43	38	37	35	31	26	23	22	18	16
SMALL STOOL	Control	0	0	0	1	1	0	0	0	0	0	0	1	2	0
	160 ppm	0	0	0	0	0	1	0	1	0	0	0	1	1	1
	800 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	2	0	0	0	2	1	2	1	2
OLIGO-STOOL	Control	0	0	0	1	1	0	0	0	0	0	0	0	1	1
	160 ppm	0	0	0	0	0	1	0	1	0	0	0	1	1	1
	800 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	4000 ppm	0	0	0	0	1	2	1	1	1	1	0	0	0	1
NON REMARKABLE	Control	42	42	40	39	39	36	36	36	35	34	33	31	30	27
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CRUSTA	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	2	3	2	2
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	2	0	0	2	1
BRADYPNEA	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	1	0	0	0	0
RED URINE	Control	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	1	0	0	0
	160 ppm	40	40	39	39	39	39
	800 ppm	43	43	43	42	42	42
	4000 ppm	12	11	8	6	5	3
SMALL STOOL	Control	0	1	4	3	2	2
	160 ppm	0	0	0	0	1	1
	800 ppm	0	0	0	1	2	2
	4000 ppm	0	0	2	1	0	0
OLIGO-STOOL	Control	0	0	4	3	1	1
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	2	1	0	0
NON REMARKABLE	Control	24	23	23	20	19	20
	160 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0

TABLE C 1

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			280 ppm			1400 ppm			7000 ppm		
	Av. Wt.	No. of Surviv. <50>		Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	124 (50)	50/50		124 (50)	100	50/50	124 (50)	100	50/50	124 (50)	100	50/50
1-7	157 (50)	50/50		156 (50)	99	50/50	157 (50)	100	50/50	147 (50)	94	50/50
2-7	189 (50)	50/50		187 (50)	99	50/50	189 (50)	100	50/50	177 (50)	94	50/50
3-7	215 (50)	50/50		214 (50)	100	50/50	215 (50)	100	50/50	199 (50)	93	50/50
4-7	236 (50)	50/50		235 (50)	100	50/50	235 (50)	100	50/50	218 (50)	92	50/50
5-7	254 (50)	50/50		251 (50)	99	50/50	252 (50)	99	50/50	233 (50)	92	50/50
6-7	268 (50)	50/50		266 (50)	99	50/50	267 (50)	100	50/50	247 (50)	92	50/50
7-7	282 (50)	50/50		279 (50)	99	50/50	281 (50)	100	50/50	257 (50)	91	50/50
8-7	293 (50)	50/50		291 (50)	99	50/50	294 (50)	100	50/50	268 (50)	91	50/50
9-7	302 (50)	50/50		299 (50)	99	50/50	304 (50)	101	50/50	276 (50)	91	50/50
10-7	312 (50)	50/50		308 (50)	99	50/50	313 (50)	100	50/50	283 (50)	91	50/50
11-7	320 (50)	50/50		316 (50)	99	50/50	320 (50)	100	50/50	289 (50)	90	50/50
12-7	325 (50)	50/50		322 (50)	99	50/50	327 (50)	101	50/50	295 (50)	91	50/50
13-7	333 (50)	50/50		329 (50)	99	50/50	334 (50)	100	50/50	300 (50)	90	50/50
14-7	340 (50)	50/50		336 (50)	99	50/50	341 (50)	100	50/50	306 (50)	90	50/50
18-7	358 (50)	50/50		355 (50)	99	50/50	360 (50)	101	50/50	320 (50)	89	50/50
22-7	371 (50)	50/50		369 (50)	99	50/50	373 (50)	101	50/50	329 (50)	89	50/50
26-7	384 (50)	50/50		381 (50)	99	50/50	387 (50)	101	50/50	339 (50)	88	50/50
30-7	394 (50)	50/50		390 (50)	99	50/50	397 (50)	101	50/50	347 (50)	88	50/50
34-7	401 (50)	50/50		400 (50)	100	50/50	406 (50)	101	50/50	354 (50)	88	50/50
38-7	410 (49)	49/50		406 (50)	99	50/50	413 (50)	101	50/50	359 (50)	88	50/50
42-7	417 (49)	49/50		414 (50)	99	50/50	420 (50)	101	50/50	365 (50)	88	50/50
46-7	422 (49)	49/50		420 (50)	100	50/50	426 (50)	101	50/50	369 (49)	87	49/50
50-7	427 (49)	49/50		424 (50)	99	50/50	431 (50)	101	50/50	372 (49)	87	49/50
54-7	430 (49)	49/50		427 (48)	99	48/50	435 (49)	101	49/50	373 (49)	87	49/50
58-7	432 (49)	49/50		429 (48)	99	48/50	435 (49)	101	49/50	372 (49)	86	49/50
62-7	434 (49)	49/50		430 (48)	99	48/50	438 (49)	101	49/50	371 (49)	85	49/50
66-7	432 (49)	49/50		429 (48)	99	48/50	439 (49)	102	49/50	367 (48)	85	48/50
70-7	433 (48)	48/50		432 (48)	100	48/50	439 (49)	101	49/50	367 (47)	85	47/50
74-7	434 (46)	46/50		435 (48)	100	48/50	443 (48)	102	48/50	363 (45)	84	45/50
78-7	433 (46)	46/50		437 (48)	101	48/50	442 (48)	102	48/50	356 (45)	82	45/50
82-7	432 (45)	45/50		438 (47)	101	47/50	440 (48)	102	48/50	349 (45)	81	45/50
86-7	423 (45)	45/50		435 (47)	103	47/50	433 (48)	102	48/50	339 (45)	80	45/50
90-7	424 (41)	41/50		430 (47)	101	47/50	425 (46)	100	46/50	324 (45)	76	45/50
94-7	416 (41)	41/50		424 (45)	102	45/50	417 (45)	100	45/50	312 (45)	75	45/50
98-7	412 (38)	38/50		414 (41)	100	41/50	405 (43)	98	43/50	300 (40)	73	40/50
102-7	399 (38)	38/50		400 (39)	100	39/50	389 (43)	97	43/50	282 (37)	71	37/50
104-7	390 (38)	38/50		393 (36)	101	36/50	375 (41)	96	41/50	266 (33)	68	33/50

< >:No. of effective animals, ():No. of measured animals Av. Wt.: g

TABLE C 2

**BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS: FEMALE**

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			160 ppm			800 ppm			4000 ppm		
	Av. Wt.	No. of Surviv. <50>		Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	99 (50)	50/50		100 (50)	101	50/50	100 (50)	101	50/50	99 (50)	100	50/50
1-7	115 (50)	50/50		115 (50)	100	50/50	115 (50)	100	50/50	112 (50)	97	50/50
2-7	128 (50)	50/50		129 (50)	101	50/50	129 (50)	101	50/50	125 (50)	98	50/50
3-7	138 (50)	50/50		137 (50)	99	50/50	138 (50)	100	50/50	132 (50)	96	50/50
4-7	146 (50)	50/50		145 (50)	99	50/50	146 (50)	100	50/50	138 (50)	95	50/50
5-7	154 (50)	50/50		153 (50)	99	50/50	155 (50)	101	50/50	145 (50)	94	50/50
6-7	159 (50)	50/50		159 (50)	100	50/50	160 (50)	101	50/50	151 (50)	95	50/50
7-7	163 (50)	50/50		163 (50)	100	50/50	165 (50)	101	50/50	155 (50)	95	50/50
8-7	167 (50)	50/50		167 (50)	100	50/50	169 (50)	101	50/50	158 (50)	95	50/50
9-7	170 (50)	50/50		171 (50)	101	50/50	173 (50)	102	50/50	161 (50)	95	50/50
10-7	174 (50)	50/50		175 (50)	101	50/50	178 (50)	102	50/50	166 (50)	95	50/50
11-7	177 (50)	50/50		178 (50)	101	50/50	180 (50)	102	50/50	168 (50)	95	50/50
12-7	178 (50)	50/50		181 (50)	102	50/50	183 (50)	103	50/50	171 (50)	96	50/50
13-7	180 (50)	50/50		182 (50)	101	50/50	184 (50)	102	50/50	172 (50)	96	50/50
14-7	182 (50)	50/50		184 (50)	101	50/50	186 (50)	102	50/50	174 (50)	96	50/50
18-7	191 (50)	50/50		191 (50)	100	50/50	194 (50)	102	50/50	178 (49)	93	49/50
22-7	196 (50)	50/50		196 (50)	100	50/50	198 (50)	101	50/50	182 (49)	93	49/50
26-7	202 (50)	50/50		201 (50)	100	50/50	205 (50)	101	50/50	186 (49)	92	49/50
30-7	208 (50)	50/50		205 (50)	99	50/50	209 (50)	100	50/50	188 (49)	90	49/50
34-7	212 (50)	50/50		210 (50)	99	50/50	214 (50)	101	50/50	192 (49)	91	49/50
38-7	217 (50)	50/50		215 (50)	99	50/50	219 (50)	101	50/50	196 (49)	90	49/50
42-7	222 (50)	50/50		221 (50)	100	50/50	225 (50)	101	50/50	198 (49)	89	49/50
46-7	227 (50)	50/50		225 (50)	99	50/50	229 (50)	101	50/50	200 (49)	88	49/50
50-7	230 (50)	50/50		230 (50)	100	50/50	232 (50)	101	50/50	203 (49)	88	49/50
54-7	235 (50)	50/50		235 (50)	100	50/50	239 (50)	102	50/50	206 (49)	88	49/50
58-7	239 (50)	50/50		241 (50)	101	50/50	244 (50)	102	50/50	208 (49)	87	49/50
62-7	245 (50)	50/50		246 (50)	100	50/50	250 (50)	102	50/50	210 (49)	86	49/50
66-7	252 (50)	50/50		253 (49)	100	49/50	257 (50)	102	50/50	213 (48)	85	48/50
70-7	261 (50)	50/50		262 (49)	100	49/50	264 (50)	101	50/50	216 (48)	83	48/50
74-7	268 (50)	50/50		266 (48)	99	48/50	271 (49)	101	49/50	215 (48)	80	48/50
78-7	272 (49)	49/50		272 (48)	100	48/50	276 (48)	101	48/50	212 (48)	78	48/50
82-7	277 (48)	48/50		277 (48)	100	48/50	282 (48)	102	48/50	207 (48)	75	48/50
86-7	283 (46)	46/50		281 (46)	99	46/50	284 (47)	100	47/50	200 (46)	71	46/50
90-7	287 (45)	45/50		283 (45)	99	45/50	286 (46)	100	46/50	189 (38)	66	38/50
94-7	286 (43)	43/50		286 (42)	100	42/50	285 (45)	100	45/50	182 (26)	64	26/50
98-7	286 (40)	40/50		284 (42)	99	42/50	287 (43)	100	43/50	168 (16)	59	16/50
102-7	280 (35)	35/50		287 (39)	103	39/50	281 (42)	100	42/50	162 (6)	58	6/50
104-7	281 (34)	34/50		284 (39)	101	39/50	276 (42)	98	42/50	148 (3)	53	3/50

< >:No. of effective animals, ():No. of measured animals Av. Wt. : g

TABLE C 3

BODY WEIGHT CHANGES: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	124±	6	157±	8	189±	8	215±	8	236±	8	254±	8	268±	8
280 ppm	124±	6	156±	9	187±	10	214±	11	235±	11	251±	12	266±	13
1400 ppm	124±	6	157±	8	189±	9	215±	9	235±	10	252±	10	267±	11
7000 ppm	124±	6	147±	8**	177±	10**	199±	10**	218±	10**	233±	10**	247±	11**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day											
	7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	282±	9	293±	9	302±	10	312±	11	320±	11	325±	12	333±	12
280 ppm	279±	13	291±	14	299±	15	308±	16	316±	15	322±	16	329±	17
1400 ppm	281±	12	294±	12	304±	12	313±	12	320±	12	327±	13	334±	13
7000 ppm	257±	11**	268±	13**	276±	12**	283±	13**	289±	13**	295±	13**	300±	14**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	340±	13	358±	12	371±	13	384±	15	394±	15	401±	21
280 ppm	336±	17	355±	18	369±	20	381±	23	390±	22	400±	23
1400 ppm	341±	13	360±	14	373±	15	387±	15	397±	16	406±	16
7000 ppm	306±	14**	320±	14**	329±	16**	339±	17**	347±	18**	354±	18**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	417±	16	422±	17	427±	17	430±	18	432±	17	434±	18
280 ppm	414±	24	420±	25	424±	29	427±	23	429±	23	430±	22
1400 ppm	420±	17	426±	17	431±	17	435±	19	435±	19	438±	19
7000 ppm	365±	19**	369±	21**	372±	22**	373±	22**	372±	22**	371±	22**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	433±	21	434±	20	433±	21	432±	21	423±	27	424±	26
280 ppm	432±	23	435±	24	437±	25	438±	25	435±	26	430±	28
1400 ppm	439±	23	443±	20	442±	20	440±	21	433±	26	425±	27
7000 ppm	367±	21**	363±	21**	356±	19**	349±	18**	339±	17**	324±	18**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	412 ±	28	399 ±	29	390 ±	31
280 ppm	414 ±	35	400 ±	39	393 ±	37
1400 ppm	405 ±	26	389 ±	31	375 ±	38
7000 ppm	300 ±	23**	282 ±	26**	266 ±	32**

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE C 4

BODY WEIGHT CHANGES: FEMALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	99 ±	4	115 ±	4	128 ±	5	138 ±	6	146 ±	7	154 ±	8	159 ±	8
160 ppm	100 ±	4	115 ±	4	129 ±	5	137 ±	6	145 ±	7	153 ±	8	159 ±	9
800 ppm	100 ±	4	115 ±	5	129 ±	6	138 ±	6	146 ±	7	155 ±	8	160 ±	9
4000 ppm	99 ±	4	112 ±	4**	125 ±	5**	132 ±	6**	138 ±	7**	145 ±	7**	151 ±	8**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration		week-day											
	7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	163±	10	167±	10	170±	11	174±	11	177±	11	178±	12	180±	11
160 ppm	163±	8	167±	9	171±	11	175±	10	178±	11	181±	10	182±	10
800 ppm	165±	9	169±	10	173±	11	178±	10	180±	11	183±	11	184±	11
4000 ppm	155±	8**	158±	8**	161±	10**	166±	10**	168±	9**	171±	10**	172±	10**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day											
	14-7		18-7		22-7		26-7		30-7		34-7		38-7	
Control	182±	12	191±	12	196±	13	202±	14	208±	15	212±	15	217±	15
160 ppm	184±	10	191±	10	196±	12	201±	13	205±	13	210±	14	215±	14
800 ppm	186±	11	194±	12	198±	12	205±	14	209±	14	214±	15	219±	17
4000 ppm	174±	10**	178±	10**	182±	11**	186±	11**	188±	11**	192±	12**	196±	12**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	222±	16	227±	18	230±	17	235±	18	239±	19	245±	22
160 ppm	221±	16	225±	18	230±	19	235±	20	241±	20	246±	20
800 ppm	225±	17	229±	19	232±	19	239±	20	244±	23	250±	24
4000 ppm	198±	13**	200±	13**	203±	13**	206±	14**	208±	14**	210±	15**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	261±	23	268±	23	272±	23	277±	22	283±	24	287±	27
160 ppm	262±	27	266±	21	272±	21	277±	21	281±	21	283±	24
800 ppm	264±	25	271±	25	276±	25	282±	24	284±	24	286±	25
4000 ppm	216±	16**	215±	18**	212±	19**	207±	22**	200±	23**	189±	20**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration		week-day			
	98-7		102-7		104-7	
Control	286 ± 29		280 ± 38		281 ± 33	
160 ppm	284 ± 31		287 ± 23		284 ± 24	
800 ppm	287 ± 28		281 ± 30		276 ± 31	
4000 ppm	168 ± 17**		162 ± 9**		148 ± 2**	

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE D 1

FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			280 ppm			1400 ppm			7000 ppm		
	Av. FC.	No. of Surviv. <50>		Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	13. 6 (50)	50/50		13. 7 (50)	101	50/50	13. 6 (50)	100	50/50	11. 4 (50)	84	50/50
2-7	14. 6 (50)	50/50		14. 8 (50)	101	50/50	14. 8 (50)	101	50/50	13. 7 (50)	94	50/50
3-7	15. 2 (50)	50/50		15. 6 (50)	103	50/50	15. 2 (50)	100	50/50	13. 9 (49)	91	50/50
4-7	15. 6 (50)	50/50		15. 7 (50)	101	50/50	15. 3 (50)	98	50/50	14. 1 (49)	90	50/50
5-7	15. 7 (50)	50/50		15. 7 (50)	100	50/50	15. 4 (50)	98	50/50	14. 3 (50)	91	50/50
6-7	15. 8 (50)	50/50		15. 7 (48)	99	50/50	15. 6 (50)	99	50/50	14. 4 (49)	91	50/50
7-7	15. 7 (50)	50/50		15. 6 (50)	99	50/50	15. 5 (50)	99	50/50	14. 2 (50)	90	50/50
8-7	16. 0 (49)	50/50		15. 9 (49)	99	50/50	15. 9 (48)	99	50/50	14. 4 (50)	90	50/50
9-7	16. 0 (50)	50/50		15. 6 (50)	98	50/50	15. 8 (50)	99	50/50	14. 2 (50)	89	50/50
10-7	15. 9 (50)	50/50		15. 9 (50)	100	50/50	15. 9 (50)	100	50/50	14. 2 (50)	89	50/50
11-7	16. 0 (50)	50/50		16. 0 (49)	100	50/50	16. 0 (49)	100	50/50	14. 2 (49)	89	50/50
12-7	15. 8 (49)	50/50		15. 9 (49)	101	50/50	15. 8 (49)	100	50/50	14. 0 (49)	89	50/50
13-7	15. 3 (46)	50/50		15. 3 (47)	100	50/50	15. 3 (47)	100	50/50	13. 8 (48)	90	50/50
14-7	15. 4 (47)	50/50		15. 5 (48)	101	50/50	15. 5 (46)	101	50/50	13. 9 (48)	90	50/50
18-7	15. 8 (50)	50/50		15. 8 (50)	100	50/50	15. 7 (50)	99	50/50	14. 0 (50)	89	50/50
22-7	15. 9 (46)	50/50		15. 9 (49)	100	50/50	16. 0 (50)	101	50/50	14. 0 (50)	88	50/50
26-7	15. 8 (48)	50/50		15. 9 (49)	101	50/50	15. 9 (49)	101	50/50	14. 1 (50)	89	50/50
30-7	16. 3 (48)	50/50		16. 2 (48)	99	50/50	16. 1 (50)	99	50/50	14. 2 (50)	87	50/50
34-7	16. 2 (50)	50/50		16. 5 (50)	102	50/50	16. 4 (50)	101	50/50	14. 5 (50)	90	50/50
38-7	16. 3 (49)	49/50		16. 3 (50)	100	50/50	16. 3 (50)	100	50/50	14. 6 (50)	90	50/50
42-7	16. 1 (43)	49/50		16. 3 (47)	101	50/50	16. 3 (48)	101	50/50	14. 7 (50)	91	50/50
46-7	16. 2 (44)	49/50		16. 2 (46)	100	50/50	16. 5 (48)	102	50/50	14. 6 (49)	90	49/50
50-7	16. 3 (46)	49/50		16. 1 (49)	99	50/50	16. 4 (50)	101	50/50	14. 6 (49)	90	49/50
54-7	16. 4 (45)	49/50		16. 4 (47)	100	48/50	16. 5 (48)	101	49/50	14. 7 (49)	90	49/50
58-7	16. 1 (45)	49/50		16. 2 (48)	101	48/50	16. 4 (49)	102	49/50	14. 6 (49)	91	49/50
62-7	16. 1 (45)	49/50		16. 1 (48)	100	48/50	16. 1 (47)	100	49/50	14. 3 (47)	89	49/50
66-7	15. 7 (47)	49/50		15. 8 (48)	101	48/50	16. 1 (49)	103	49/50	14. 4 (48)	92	48/50
70-7	15. 8 (44)	48/50		16. 0 (44)	101	48/50	16. 0 (44)	101	49/50	14. 0 (41)	89	47/50
74-7	16. 4 (45)	46/50		16. 5 (46)	101	48/50	16. 6 (48)	101	48/50	14. 1 (45)	86	45/50
78-7	15. 3 (40)	46/50		15. 4 (38)	101	48/50	15. 4 (38)	101	48/50	13. 3 (37)	87	45/50
82-7	15. 6 (42)	45/50		16. 0 (45)	103	47/50	15. 9 (46)	102	48/50	13. 7 (42)	88	45/50
86-7	14. 8 (45)	45/50		15. 4 (47)	104	47/50	15. 2 (48)	103	48/50	12. 7 (41)	86	45/50
90-7	16. 1 (39)	41/50		16. 1 (47)	100	47/50	15. 5 (44)	96	46/50	13. 4 (39)	83	45/50
94-7	15. 8 (39)	41/50		15. 8 (43)	100	45/50	15. 0 (43)	95	45/50	13. 0 (39)	82	45/50
98-7	15. 5 (36)	38/50		15. 5 (40)	100	41/50	15. 4 (40)	99	43/50	12. 9 (34)	83	40/50
102-7	15. 1 (37)	38/50		15. 0 (39)	99	39/50	15. 5 (43)	103	43/50	13. 3 (34)	88	37/50
104-7	15. 6 (30)	38/50		15. 6 (33)	100	36/50	15. 1 (31)	97	41/50	13. 2 (21)	85	33/50

< >:No. of effective animals, ():No. of measured animals

Av. FC. : g

TABLE D 2

**FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: FEMALE**

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			160 ppm			800 ppm			4000 ppm		
	Av. FC.	No. of Surviv. <50>		Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	10.3 (50)	50/50		10.3 (50)	100	50/50	10.4 (50)	101	50/50	9.4 (50)	91	50/50
2-7	10.4 (50)	50/50		10.6 (50)	102	50/50	10.8 (50)	104	50/50	10.0 (50)	96	50/50
3-7	10.4 (50)	50/50		10.5 (50)	101	50/50	10.6 (50)	102	50/50	9.8 (50)	94	50/50
4-7	10.8 (50)	50/50		10.7 (50)	99	50/50	10.9 (50)	101	50/50	10.0 (49)	93	50/50
5-7	10.8 (50)	50/50		10.8 (50)	100	50/50	10.9 (50)	101	50/50	10.0 (49)	93	50/50
6-7	10.7 (50)	50/50		10.8 (50)	101	50/50	10.8 (50)	101	50/50	10.1 (50)	94	50/50
7-7	10.3 (50)	50/50		10.5 (50)	102	50/50	10.5 (50)	102	50/50	10.0 (50)	97	50/50
8-7	10.4 (50)	50/50		10.6 (50)	102	50/50	10.6 (50)	102	50/50	10.1 (50)	97	50/50
9-7	10.5 (50)	50/50		10.6 (50)	101	50/50	10.5 (50)	100	50/50	9.8 (50)	93	50/50
10-7	10.5 (49)	50/50		10.6 (50)	101	50/50	10.7 (48)	102	50/50	10.1 (50)	96	50/50
11-7	10.4 (50)	50/50		10.7 (50)	103	50/50	10.7 (48)	103	50/50	10.0 (50)	96	50/50
12-7	10.3 (50)	50/50		10.7 (50)	104	50/50	10.7 (49)	104	50/50	10.0 (50)	97	50/50
13-7	10.2 (50)	50/50		10.3 (49)	101	50/50	10.3 (49)	101	50/50	9.9 (50)	97	50/50
14-7	10.4 (49)	50/50		10.4 (44)	100	50/50	10.4 (46)	100	50/50	10.0 (50)	96	50/50
18-7	11.0 (50)	50/50		10.7 (50)	97	50/50	10.9 (50)	99	50/50	10.0 (49)	91	49/50
22-7	10.7 (48)	50/50		10.8 (47)	101	50/50	10.8 (47)	101	50/50	10.1 (49)	94	49/50
26-7	10.8 (50)	50/50		11.1 (48)	103	50/50	11.1 (50)	103	50/50	10.2 (48)	94	49/50
30-7	11.5 (50)	50/50		11.3 (50)	98	50/50	11.3 (50)	98	50/50	10.3 (49)	90	49/50
34-7	11.4 (50)	50/50		11.5 (50)	101	50/50	11.8 (50)	104	50/50	10.6 (49)	93	49/50
38-7	11.6 (50)	50/50		11.8 (50)	102	50/50	11.9 (50)	103	50/50	10.5 (49)	91	49/50
42-7	11.7 (47)	50/50		12.0 (50)	103	50/50	11.9 (50)	102	50/50	10.6 (49)	91	49/50
46-7	11.9 (49)	50/50		12.1 (49)	102	50/50	11.8 (50)	99	50/50	10.8 (49)	91	49/50
50-7	12.0 (50)	50/50		12.3 (50)	103	50/50	12.3 (50)	103	50/50	11.0 (49)	92	49/50
54-7	12.2 (50)	50/50		12.3 (50)	101	50/50	12.4 (50)	102	50/50	11.2 (49)	92	49/50
58-7	11.9 (49)	50/50		12.3 (50)	103	50/50	12.2 (47)	103	50/50	11.3 (49)	95	49/50
62-7	12.3 (49)	50/50		12.4 (50)	101	50/50	12.5 (50)	102	50/50	11.4 (49)	93	49/50
66-7	11.7 (35)	50/50		11.9 (40)	102	49/50	11.8 (34)	101	50/50	11.1 (43)	95	48/50
70-7	12.5 (49)	50/50		12.7 (48)	102	49/50	12.7 (49)	102	50/50	11.3 (48)	90	48/50
74-7	12.9 (39)	50/50		13.0 (40)	101	48/50	12.9 (37)	100	49/50	11.6 (44)	90	48/50
78-7	12.2 (43)	49/50		12.4 (42)	102	48/50	12.6 (42)	103	48/50	11.0 (44)	90	48/50
82-7	12.7 (46)	48/50		12.7 (48)	100	48/50	13.2 (45)	104	48/50	11.2 (46)	88	48/50
86-7	12.8 (43)	46/50		12.6 (41)	98	46/50	12.8 (44)	100	47/50	10.9 (40)	85	46/50
90-7	13.0 (36)	45/50		12.4 (38)	95	45/50	13.1 (39)	101	46/50	10.2 (31)	78	38/50
94-7	12.6 (42)	43/50		12.7 (41)	101	42/50	12.8 (42)	102	45/50	10.3 (20)	82	26/50
98-7	12.2 (38)	40/50		12.4 (41)	102	42/50	12.6 (43)	103	43/50	9.3 (13)	76	16/50
102-7	12.5 (33)	35/50		13.0 (37)	104	39/50	12.7 (41)	102	42/50	9.3 (4)	74	6/50
104-7	13.0 (34)	34/50		12.5 (38)	96	39/50	12.5 (42)	96	42/50	7.4 (3)	57	3/50

< >:No. of effective animals, ():No. of measured animals

Av. FC. : g

TABLE D 3

FOOD CONSUMPTION CHANGES: MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	week-day (effective)													
	Administration 1-7 (7)		2-7 (7)		3-7 (7)		4-7 (7)		5-7 (7)		6-7 (7)		7-7 (7)	
Control	13.6 ± 0.8		14.6 ± 0.8		15.2 ± 0.7		15.6 ± 0.7		15.7 ± 0.6		15.8 ± 0.7		15.7 ± 0.8	
280 ppm	13.7 ± 0.9		14.8 ± 1.0		15.6 ± 0.9*		15.7 ± 0.9		15.7 ± 1.0		15.7 ± 0.9		15.6 ± 1.0	
1400 ppm	13.6 ± 0.7		14.8 ± 0.8		15.2 ± 0.7		15.3 ± 0.7		15.4 ± 0.6		15.6 ± 0.7		15.5 ± 0.8	
7000 ppm	11.4 ± 0.6**		13.7 ± 0.8**		13.9 ± 0.8**		14.1 ± 0.7**		14.3 ± 0.7**		14.4 ± 0.8**		14.2 ± 0.8**	

Test of Dunnett

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	16.0± 0.7	16.0± 0.9	15.9± 0.8	16.0± 0.9	15.8± 0.8	15.3± 0.8	15.4± 0.8
280 ppm	15.9± 1.1	15.6± 1.1	15.9± 1.2	16.0± 1.1	15.9± 1.3	15.3± 1.1	15.5± 1.2
1400 ppm	15.9± 0.8	15.8± 0.8	15.9± 0.9	16.0± 0.8	15.8± 0.8	15.3± 0.7	15.5± 0.8
7000 ppm	14.4± 0.8**	14.2± 0.8**	14.2± 0.8**	14.2± 0.8**	14.0± 0.8**	13.8± 0.7**	13.9± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 5

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration		week-day (effective)													
	18-7 (7)		22-7 (7)		26-7 (7)		30-7 (7)		34-7 (7)		38-7 (7)		42-7 (7)			
Control	15.8 ± 0.8		15.9 ± 0.7		15.8 ± 0.8		16.3 ± 0.7		16.2 ± 0.8		16.3 ± 0.8		16.1 ± 0.7			
280 ppm	15.8 ± 1.1		15.9 ± 1.2		15.9 ± 1.1		16.2 ± 1.3		16.5 ± 1.4		16.3 ± 1.2		16.3 ± 1.1			
1400 ppm	15.7 ± 0.7		16.0 ± 0.7		15.9 ± 0.8		16.1 ± 0.8		16.4 ± 1.1		16.3 ± 0.8		16.3 ± 0.8			
7000 ppm	14.0 ± 0.7**		14.0 ± 0.7**		14.1 ± 0.8**		14.2 ± 0.8**		14.5 ± 0.9**		14.6 ± 0.8**		14.7 ± 0.8**			

Test of Dunnett

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 46-7 (7)	week-day (effective) 50-7 (7)	54-7 (7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	16.2 ± 0.7	16.3 ± 0.8	16.4 ± 0.8	16.1 ± 0.9	16.1 ± 0.8	15.7 ± 1.1	15.8 ± 1.3
280 ppm	16.2 ± 1.2	16.1 ± 1.4	16.4 ± 1.1	16.2 ± 1.2	16.1 ± 1.1	15.8 ± 1.2	16.0 ± 1.2
1400 ppm	16.5 ± 0.9	16.4 ± 0.8	16.5 ± 0.8	16.4 ± 1.0	16.1 ± 0.8	16.1 ± 1.0	16.0 ± 1.3
7000 ppm	14.6 ± 0.9**	14.6 ± 0.9**	14.7 ± 0.8**	14.6 ± 0.8**	14.3 ± 0.8**	14.4 ± 1.4**	14.0 ± 0.7**

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

Test of Dunnett

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 74-7 (7)	week-day (effective) 78-7 (7)	82-7 (7)	86-7 (7)	90-7 (7)	94-7 (7)	98-7 (7)
Control	16.4± 0.9	15.3± 1.0	15.6± 1.6	14.8± 2.4	16.1± 1.2	15.8± 1.6	15.5± 1.3
280 ppm	16.5± 1.5	15.4± 1.2	16.0± 1.2	15.4± 1.6	16.1± 1.6	15.8± 2.0	15.5± 2.2
1400 ppm	16.6± 0.9	15.4± 1.0	15.9± 0.9	15.2± 1.4	15.5± 1.0	15.0± 2.0*	15.4± 1.5
7000 ppm	14.1± 1.1**	13.3± 0.8**	13.7± 0.8**	12.7± 1.4**	13.4± 1.0**	13.0± 1.0**	12.9± 1.8**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day (effective)	
	102-7 (7)	104-7 (7)
Control	15.1 ± 1.0	15.6 ± 1.0
280 ppm	15.0 ± 2.0	15.6 ± 1.8
1400 ppm	15.5 ± 1.6	15.1 ± 2.2
7000 ppm	13.3 ± 1.3**	13.2 ± 1.2**

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

Test of Dunnett

TABLE D 4

FOOD CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day (effective)							
	1-7 (7)		2-7 (7)		3-7 (7)		4-7 (7)		5-7 (7)	
Control	10.3 ± 0.5		10.4 ± 0.6		10.4 ± 0.5		10.8 ± 0.7		10.8 ± 0.8	
160 ppm	10.3 ± 0.4		10.6 ± 0.6		10.5 ± 0.6		10.7 ± 0.7		10.8 ± 0.8	
800 ppm	10.4 ± 0.5		10.8 ± 0.5**		10.6 ± 0.6		10.9 ± 0.6		10.9 ± 0.7	
4000 ppm	9.4 ± 0.4**		10.0 ± 0.5**		9.8 ± 0.6**		10.0 ± 0.7**		10.0 ± 0.6**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	10.4± 0.9	10.5± 0.9	10.5± 0.8	10.4± 0.8	10.3± 0.8	10.2± 1.0	10.4± 0.8
160 ppm	10.6± 0.8	10.6± 0.9	10.6± 0.8	10.7± 0.8	10.7± 0.9**	10.3± 0.7	10.4± 0.7
800 ppm	10.6± 0.8	10.5± 0.8	10.7± 0.7	10.7± 0.8	10.7± 0.7**	10.3± 0.8	10.4± 0.7
4000 ppm	10.1± 0.6	9.8± 0.7**	10.1± 0.6**	10.0± 0.6*	10.0± 0.6	9.9± 0.5	10.0± 0.6**

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

Test of Dunnett

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration 18-7 (7)	week-day (effective) 22-7 (7)	26-7 (7)	30-7 (7)	34-7 (7)	38-7 (7)	42-7 (7)
Control	11.0± 0.8	10.7± 0.9	10.8± 1.0	11.5± 1.2	11.4± 1.1	11.6± 1.3	11.7± 1.2
160 ppm	10.7± 0.7	10.8± 0.9	11.1± 1.1	11.3± 1.1	11.5± 1.1	11.8± 1.2	12.0± 1.2
800 ppm	10.9± 0.9	10.8± 0.9	11.1± 1.1	11.3± 1.2	11.8± 1.2	11.9± 1.4	11.9± 1.2
4000 ppm	10.0± 0.7**	10.1± 0.8**	10.2± 0.7**	10.3± 0.8**	10.6± 1.0**	10.5± 0.9**	10.6± 1.1**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration 46-7 (7)	week-day (effective) 50-7 (7)	54-7 (7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	11.9± 1.2	12.0± 1.1	12.2± 1.1	11.9± 0.9	12.3± 1.2	11.7± 1.2	12.5± 1.0
160 ppm	12.1± 1.0	12.3± 1.3	12.3± 1.0	12.3± 0.9	12.4± 1.4	11.9± 1.0	12.7± 1.4
800 ppm	11.8± 1.1	12.3± 1.2	12.4± 1.2	12.2± 1.4	12.5± 1.2	11.8± 1.2	12.7± 1.3
4000 ppm	10.8± 1.0**	11.0± 1.0**	11.2± 1.0**	11.3± 1.2**	11.4± 1.1**	11.1± 1.2	11.3± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day (effective)							
	74-7 (7)		78-7 (7)		82-7 (7)		86-7 (7)		90-7 (7)	
Control	12.9± 1.4		12.2± 1.1		12.7± 1.5		12.8± 1.1		13.0± 1.1	
160 ppm	13.0± 1.1		12.4± 0.9		12.7± 1.2		12.6± 1.0		12.4± 2.5	
800 ppm	12.9± 1.0		12.6± 1.1		13.2± 1.2		12.8± 1.2		13.1± 1.3	
4000 ppm	11.6± 1.1**		11.0± 1.0**		11.2± 1.4**		10.9± 1.6**		10.2± 1.6**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration 102-7 (7)	week-day (effective) 104-7 (7)
Control	12.5 ± 2.5	13.0 ± 1.7
160 ppm	13.0 ± 1.4	12.5 ± 1.8
800 ppm	12.7 ± 1.9	12.5 ± 1.8
4000 ppm	9.3 ± 0.8*	7.4 ± 0.5**

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

Test of Dunnett

(HAN260)

BAIS5

TABLE E 1

CHEMICAL INTAKE CHANGES: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
UNIT : mg/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± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0							
280 ppm	25± 1	22± 1	20± 1	19± 1	17± 1	17± 1	16± 1							
1400 ppm	122± 3	110± 3	99± 3	91± 3	86± 3	82± 3	78± 3							
7000 ppm	546± 17	542± 18	487± 17	452± 16	430± 16	410± 19	387± 18							

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
280 ppm	15±	1	15±	1	14±	1	14±	1	14±	1	13±	1	13±	1
1400 ppm	75±	3	73±	3	71±	4	70±	3	68±	3	64±	3	64±	3
7000 ppm	375±	16	360±	16	350±	15	344±	14	332±	14	322±	13	319±	12

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration		(weeks)											
	18		22		26		30		34		38		42	
Control	0 ±	0	0 ±	0	0 ±	0	0 ±	0	0 ±	0	0 ±	0	0 ±	0
280 ppm	12 ±	1	12 ±	1	12 ±	1	12 ±	1	12 ±	1	11 ±	1	11 ±	1
1400 ppm	61 ±	3	60 ±	3	57 ±	3	57 ±	3	57 ±	4	56 ±	3	54 ±	3
7000 ppm	307 ±	13	298 ±	12	291 ±	10	287 ±	12	286 ±	14	285 ±	11	282 ±	11

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
280 ppm	11±	1	11±	1	11±	1	11±	1	11±	1	10±	1	10±	1
1400 ppm	54±	4	53±	3	53±	3	53±	4	52±	3	51±	4	51±	4
7000 ppm	278±	10	275±	12	277±	11	275±	12	271±	11	274±	22	267±	11

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
280 ppm	11±	1	10±	0	10±	1	10±	1	11±	1	10±	1	10±	1
1400 ppm	53±	4	48±	4	51±	4	49±	4	51±	5	50±	7	53±	6
7000 ppm	272±	15	261±	14	275±	16	261±	31	287±	20	291±	21	302±	43

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)			
	102		104	
Control	0±	0	0±	0
280 ppm	10±	1	11±	1
1400 ppm	56±	7	55±	7
7000 ppm	333±	41	334±	29

(HAN300)

BAIS 5

TABLE E 2

CHEMICAL INTAKE CHANGES: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/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± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0							
160 ppm	14± 0	13± 0	12± 1	12± 1	11± 1	11± 0	10± 1							
800 ppm	72± 3	67± 2	62± 2	60± 2	56± 2	54± 2	51± 2							
4000 ppm	334± 13	321± 12	296± 12	291± 13	276± 11	269± 10	259± 9							

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
160 ppm	10±	1	10±	1	10±	1	10±	1	10±	1	9±	1	9±	0
800 ppm	50±	2	49±	2	48±	2	47±	3	47±	2	45±	2	45±	2
4000 ppm	254±	9	244±	9	244±	9	238±	9	235±	10	229±	10	229±	12

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
160 ppm	9±	0	9±	1	9±	1	9±	1	9±	1	9±	1	9±	1
800 ppm	45±	3	44±	3	43±	3	43±	3	44±	3	43±	4	42±	3
4000 ppm	224±	10	222±	10	220±	8	218±	10	221±	12	214±	11	213±	14

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
160 ppm	9±	1	9±	1	8±	1	8±	1	8±	1	8±	1	8±	1
800 ppm	41±	3	42±	4	42±	3	40±	4	40±	4	38±	4	39±	3
4000 ppm	216±	13	216±	13	218±	12	218±	14	217±	15	209±	14	210±	12

(HAN300)

BAIS5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/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±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
160 ppm	8±	1	7±	1	7±	1	7±	1	7±	1	7±	1	7±	1
800 ppm	39±	4	37±	3	37±	4	36±	4	37±	4	36±	4	35±	5
4000 ppm	217±	13	209±	15	215±	21	219±	22	215±	17	224±	24	218±	26

(HAN300)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)			
	102		104	
Control	0±	0	0±	0
160 ppm	7±	1	7±	1
800 ppm	36±	5	37±	6
4000 ppm	232±	13	200±	16

(HAN300)

BAIS 5

TABLE F 1

HEMATOLOGY: MALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	38	8.82±	1.02	13.9±	1.8	42.6±	4.7	48.5±	2.9	15.8±	1.2	32.5±	1.0	896±	154
280 ppm	36	8.41±	1.54	13.5±	2.5	41.5±	6.6	49.7±	2.8	16.0±	1.2	32.2±	1.8	929±	250
1400 ppm	39	7.77±	1.73**	12.4±	2.4*	38.5±	6.6*	51.2±	9.5	16.3±	2.1	32.0±	1.4	1006±	231**
7000 ppm	29	7.24±	1.94**	11.3±	2.3**	35.2±	7.0**	50.1±	6.8	16.0±	2.0	32.0±	0.6**	1096±	205**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	38	3.2±	1.8	0.8±	0.3
280 ppm	36	4.8±	4.9	0.9±	0.3
1400 ppm	39	4.4±	3.6	1.0±	0.5
7000 ppm	29	6.0±	4.3**	1.1±	0.4*

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	38	5.67±	1.68	49±	9	43±	9	3±	1	1±	0	0±	0	4±	2
280 ppm	36	6.01±	4.77	49±	10	44±	10	3±	1	1±	1	0±	0	3±	1
1400 ppm	39	8.78±	14.35	53±	13	38±	13	4±	1	1±	1	0±	1	5±	3
7000 ppm	29	11.54±	21.23	53±	19	32±	14**	3±	1	1±	1**	0±	0	11±	23

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE F 2

HEMATOLOGY: FEMALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	34	8.33±	1.21	14.5±	1.8	43.6±	4.6	52.9±	4.4	17.5±	1.4	33.2±	1.1	680±	163
160 ppm	38	8.15±	1.32	14.3±	2.0	43.0±	5.0	53.6±	7.1	17.7±	1.6	33.2±	1.4	664±	125
800 ppm	42	8.36±	0.87	14.5±	1.6	43.5±	4.0	52.2±	2.0	17.3±	0.8	33.2±	1.2	779±	148**
4000 ppm	3	3.99±	1.04**	7.3±	1.6**	24.3±	5.6**	61.3±	1.9*	18.4±	0.7	30.0±	0.5**	1034±	582

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	34	3.3±	3.3	0.8±	0.3
160 ppm	38	4.0±	6.5	0.8±	0.4
800 ppm	42	3.2±	3.5	0.9±	0.3
4000 ppm	3	14.0±	2.9**	1.1±	0.2

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	34	4.19±	6.79	44±	11	46±	13	4±	1	1±	1	0±	0	5±	14
160 ppm	38	4.44±	8.85	43±	12	48±	12	3±	1	2±	1	0±	0	4±	2
800 ppm	42	3.21±	3.20	44±	13	47±	13	3±	1	2±	1	0±	1	4±	2
4000 ppm	3	2.25±	0.39	67±	7**	28±	5	3±	1	0±	1*	0±	0	2±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE G 1

BIOCHEMISTRY: MALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	38	6.8±	0.4	2.8±	0.2	0.7±	0.1	0.09±	0.11	150±	20	167±	43	63±	33
280 ppm	36	6.7±	0.4	2.9±	0.2	0.8±	0.1	0.08±	0.04	150±	24	182±	49	77±	47
1400 ppm	39	6.8±	0.6	2.7±	0.3	0.7±	0.1*	0.61±	3.33	144±	27	248±	62**	138±	80**
7000 ppm	29	6.1±	0.8**	2.4±	0.3**	0.6±	0.1**	0.07±	0.05	141±	37	225±	54**	119±	75**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	38	235±	62	93±	46	42±	32	129±	42	348±	234	5.7±	2.8	105±	24
280 ppm	36	257±	67	86±	45	35±	11	148±	62	290±	107	5.5±	3.1	122±	52
1400 ppm	39	350±	119**	118±	207	51±	50	158±	103	339±	293	9.2±	6.8	127±	50
7000 ppm	29	313±	66**	120±	140	59±	43**	173±	162	341±	95	9.4±	5.7*	163±	130

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	38	19.5±	2.6	0.54±	0.15	142±	1	3.8±	0.4	105±	1	10.5±	0.3	3.9±	0.6
280 ppm	36	18.9±	3.0	0.56±	0.13	142±	1	3.7±	0.4	105±	1	10.6±	0.3	4.0±	0.5
1400 ppm	39	30.8±	11.3**	0.78±	0.27**	142±	2	3.8±	0.4	105±	2	11.0±	0.6**	4.6±	1.4*
7000 ppm	29	85.5±	73.9**	1.29±	0.71**	142±	2	4.3±	0.6**	103±	2**	11.3±	0.9**	9.1±	6.6**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE G 2

BIOCHEMISTRY: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
MEASURE TIME : 1
SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	34	7.0±	0.4	3.5±	0.3	1.0±	0.1	0.08±	0.09	154±	19	132±	27	75±	42
160 ppm	38	7.1±	0.5	3.5±	0.4	1.0±	0.2	0.12±	0.28	146±	20	158±	47**	118±	99
800 ppm	42	7.1±	0.5	3.7±	0.4	1.1±	0.2	0.06±	0.02	150±	18	159±	41**	77±	41
4000 ppm	3	4.0±	0.3**	1.6±	0.1**	0.7±	0.0	0.03±	0.01*	52±	20**	158±	29	10±	6*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	34	232±	47	140±	89	50±	20	188±	138	232±	170	2.1±	1.1	133±	179
160 ppm	38	274±	79*	141±	78	48±	16	166±	68	295±	472	3.1±	4.4	96±	37
800 ppm	42	267±	62**	120±	51	49±	20	146±	53	196±	161	2.4±	2.1	87±	25
4000 ppm	3	228±	52	378±	11*	189±	61*	468±	233*	243±	68	2.1±	0.2	797±	178*

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

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
MEASURE TIME : 1
SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	34	17.2±	2.5	0.45±	0.11	141±	2	3.5±	0.4	104±	2	10.6±	0.3	3.9±	0.6
160 ppm	38	16.9±	2.2	0.48±	0.13	141±	1	3.6±	0.5	104±	3	10.7±	0.4	3.7±	0.8
800 ppm	42	19.1±	8.7	0.47±	0.15	141±	2	3.4±	0.3	103±	3	10.9±	0.5*	3.7±	0.6
4000 ppm	3	248.6±	8.6**	1.70±	0.25**	149±	1**	5.5±	0.3*	107±	5	10.2±	0.5	19.4±	1.3**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE H 1

URINALYSIS: MALE

Urinalysis of male rats

In the dosed groups, protein, glucose, ketone body, bilirubin and urobilinogen could not be measured by urine test paper in some animals, because their urine were colored by metabolite of test substance.

The inspection items, group names and number of animals that could not be measured are shown as followed.

Protein: 1400 ppm (1), 7000 ppm (17)

Glucose: 1400 ppm (22), 7000 ppm (28)

Ketone body: 280 ppm (1), 1400 ppm (2), 7000 ppm (24)

Bilirubin: 280 ppm (2), 1400 ppm (20), 7000 ppm (29)

Urobilinogen: 280 ppm (2)

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrICrlj [F344/DuCrj]
 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	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	38	0	0	0	6	13	8	11		0	1	1	4	32	0		38	0	0	0	0	0		26	8	4	0	0	0		38	0	0	0	
280 ppm	37	0	1	2	2	14	10	8		0	0	1	14	22	0	*	37	0	0	0	0	0		24	11	1	0	0	0		34	1	0	0	
1400 ppm	41	0	3	10	5	5	5	13	**	0	0	0	15	25	0	*	19	0	0	0	0	0		22	16	1	0	0	0		18	1	1	1	
7000 ppm	33	0	2	7	7	10	1	6	**	0	0	0	10	6	0	**	5	0	0	0	0	0		6	2	1	0	0	0		4	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
MEASURE TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	38	37	0	0	0	1		38	0	0	0	0	
280 ppm	37	37	0	0	0	0		35	0	0	0	0	
1400 ppm	41	41	0	0	0	0		40	1	0	0	0	
7000 ppm	33	31	0	1	0	1		33	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE H 2

URINALYSIS: FEMALE

Urinalysis of female rats

In the dosed groups, glucose, ketone body, bilirubin and urobilinogen could not be measured by urine test paper in some animals, because their urine were colored by metabolite of test substance.

The inspection items, group names and number of animals that could not be measured are shown as followed.

Glucose: 800 ppm (2), 4000 ppm (3)

Ketone body: 800 ppm (6), 4000 ppm (3)

Bilirubin: 800 ppm (9), 4000 ppm (2)

Urobilinogen: 800 ppm (6)

Therefore, glucose, ketone body and bilirubin in 4000 ppm dosed group could not be evaluated.

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
MEASURE TIME : 1
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	34	0	1	1	5	6	17	4		0	4	11	9	10	0		34	0	0	0	0	0		14	18	2	0	0	0		34	0	0	0	
160 ppm	39	0	0	4	0	8	14	13	*	0	3	10	8	17	1		39	0	0	0	0	0		12	18	8	1	0	0		37	1	1	0	
800 ppm	42	0	2	4	3	7	13	13		0	1	12	17	11	1		40	0	0	0	0	0		10	16	8	2	0	0		33	0	0	0	
4000 ppm	4	0	1	3	0	0	0	0	**	0	0	0	0	4	0		1	0	0	0	0	0	?	1	0	0	0	0	0	?	2	0	0	0	?

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

Test of CHI SQUARE

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI/CrIj [F344/DuCrj]
MEASURE TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	34	33	0	0	1	0		34	0	0	0	0	
160 ppm	39	35	0	3	1	0		37	1	0	1	0	
800 ppm	42	41	0	0	0	1		36	0	0	0	0	
4000 ppm	4	0	0	1	1	2	**	4	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE I 1

GROSS FINDINGS: MALE: ALL ANIMALS

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	280 ppm 50 (%)	1400 ppm 50 (%)	7000 ppm 50 (%)
skin/app	nodule		8 (16)	2 (4)	5 (10)	1 (2)
	scab		0 (0)	0 (0)	0 (0)	1 (2)
subcutis	jaundice		1 (2)	0 (0)	2 (4)	0 (0)
	mass		6 (12)	11 (22)	16 (32)	6 (12)
lung	white zone		4 (8)	1 (2)	3 (6)	5 (10)
	red zone		1 (2)	0 (0)	1 (2)	1 (2)
	nodule		0 (0)	1 (2)	2 (4)	0 (0)
lymph node	enlarged		1 (2)	0 (0)	3 (6)	3 (6)
spleen	enlarged		5 (10)	5 (10)	9 (18)	5 (10)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
heart	nodule		0 (0)	0 (0)	1 (2)	0 (0)
oral cavity	nodule		1 (2)	1 (2)	0 (0)	0 (0)
tooth	white zone		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	0 (0)
tongue	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	ulcer		1 (2)	0 (0)	0 (0)	0 (0)
stomach	forestomach:ulcer		1 (2)	0 (0)	1 (2)	0 (0)
	forestomach:nodule		0 (0)	1 (2)	0 (0)	0 (0)
	forestomach:thick		0 (0)	1 (2)	0 (0)	0 (0)
	glandular stomach:ulcer		1 (2)	0 (0)	0 (0)	1 (2)
	glandular stomach:erosion		0 (0)	1 (2)	1 (2)	2 (4)
	glandular stomach:nodule		2 (4)	2 (4)	0 (0)	1 (2)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	280 ppm 50 (%)	1400 ppm 50 (%)	7000 ppm 50 (%)
stomach	glandular stomach:thick		0 (0)	0 (0)	0 (0)	5 (10)
small intes	nodule		0 (0)	0 (0)	0 (0)	1 (2)
	invagination		0 (0)	1 (2)	0 (0)	0 (0)
liver	enlarged		2 (4)	1 (2)	1 (2)	0 (0)
	white zone		0 (0)	0 (0)	1 (2)	1 (2)
	nodule		2 (4)	0 (0)	0 (0)	1 (2)
	rough		2 (4)	1 (2)	3 (6)	2 (4)
	herniation		4 (8)	9 (18)	4 (8)	5 (10)
pancreas	nodule		0 (0)	0 (0)	1 (2)	0 (0)
kidney	white zone		0 (0)	1 (2)	0 (0)	1 (2)
	nodule		0 (0)	1 (2)	0 (0)	1 (2)
	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	granular		5 (10)	2 (4)	13 (26)	29 (58)
urin bladd	white zone		1 (2)	0 (0)	0 (0)	0 (0)
	urine:marked retention		0 (0)	1 (2)	0 (0)	3 (6)
	urine:red		0 (0)	0 (0)	0 (0)	1 (2)
pituitary	enlarged		6 (12)	14 (28)	5 (10)	1 (2)
	red zone		9 (18)	5 (10)	5 (10)	0 (0)
	nodule		1 (2)	2 (4)	7 (14)	1 (2)
	cyst		1 (2)	1 (2)	1 (2)	0 (0)
thyroid	enlarged		2 (4)	3 (6)	7 (14)	1 (2)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	280 ppm 50 (%)	1400 ppm 50 (%)	7000 ppm 50 (%)
adrenal	enlarged		5 (10)	3 (6)	3 (6)	0 (0)
testis	nodule		32 (64)	27 (54)	36 (72)	45 (90)
epididymis	nodule		0 (0)	1 (2)	0 (0)	0 (0)
prostate	nodule		0 (0)	1 (2)	0 (0)	0 (0)
prep/cli gl	nodule		0 (0)	1 (2)	1 (2)	1 (2)
brain	red zone		2 (4)	0 (0)	0 (0)	1 (2)
	yellow zone		0 (0)	1 (2)	0 (0)	0 (0)
	black zone		1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	0 (0)
spinal cord	red zone		1 (2)	0 (0)	0 (0)	0 (0)
periph nerv	nodule		1 (2)	0 (0)	0 (0)	0 (0)
eye	turbid		1 (2)	0 (0)	0 (0)	2 (4)
	white		4 (8)	9 (18)	2 (4)	2 (4)
Zymbal gl	nodule		1 (2)	0 (0)	1 (2)	1 (2)
mediastinum	mass		1 (2)	0 (0)	0 (0)	0 (0)
peritoneum	nodule		0 (0)	1 (2)	0 (0)	0 (0)
retroperit	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	0 (0)	0 (0)	1 (2)
abdominal c	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
	ascites		0 (0)	1 (2)	0 (0)	2 (4)
thoracic ca	pleural fluid		0 (0)	1 (2)	1 (2)	2 (4)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		280 ppm		1400 ppm		7000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
other	tail:nodule		0	(0)	1	(2)	0	(0)	0	(0)
whole body	anemic		0	(0)	1	(2)	1	(2)	0	(0)

(HPT080)

BAIS 5

TABLE I 2

GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 12 (%)	280 ppm 14 (%)	1400 ppm 9 (%)	7000 ppm 17 (%)
skin/app	nodule		3 (25)	0 (0)	1 (11)	1 (6)
subcutis	jaundice		1 (8)	0 (0)	1 (11)	0 (0)
	mass		1 (8)	4 (29)	3 (33)	1 (6)
lung	white zone		1 (8)	0 (0)	1 (11)	1 (6)
	red zone		1 (8)	0 (0)	1 (11)	1 (6)
	nodule		0 (0)	0 (0)	1 (11)	0 (0)
lymph node	enlarged		0 (0)	0 (0)	2 (22)	3 (18)
spleen	enlarged		3 (25)	3 (21)	4 (44)	3 (18)
oral cavity	nodule		0 (0)	1 (7)	0 (0)	0 (0)
tooth	nodule		1 (8)	0 (0)	0 (0)	0 (0)
tongue	ulcer		1 (8)	0 (0)	0 (0)	0 (0)
stomach	forestomach:ulcer		1 (8)	0 (0)	0 (0)	0 (0)
	forestomach:thick		0 (0)	1 (7)	0 (0)	0 (0)
	glandular stomach:ulcer		1 (8)	0 (0)	0 (0)	1 (6)
	glandular stomach:erosion		0 (0)	1 (7)	0 (0)	1 (6)
small intes	nodule		0 (0)	0 (0)	0 (0)	1 (6)
	invagination		0 (0)	1 (7)	0 (0)	0 (0)
liver	enlarged		2 (17)	1 (7)	1 (11)	0 (0)
	nodule		2 (17)	0 (0)	0 (0)	0 (0)
	rough		1 (8)	0 (0)	1 (11)	0 (0)
	herniation		0 (0)	1 (7)	1 (11)	3 (18)
kidney	white zone		0 (0)	0 (0)	0 (0)	1 (6)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 12 (%)	280 ppm 14 (%)	1400 ppm 9 (%)	7000 ppm 17 (%)
kidney	granular		1 (8)	0 (0)	0 (0)	7 (41)
urin bladd	urine:marked retention		0 (0)	1 (7)	0 (0)	3 (18)
	urine:red		0 (0)	0 (0)	0 (0)	1 (6)
pituitary	enlarged		3 (25)	5 (36)	2 (22)	1 (6)
	red zone		0 (0)	2 (14)	0 (0)	0 (0)
thyroid	enlarged		1 (8)	0 (0)	0 (0)	1 (6)
adrenal	enlarged		2 (17)	1 (7)	0 (0)	0 (0)
testis	nodule		3 (25)	4 (29)	3 (33)	13 (76)
prostate	nodule		0 (0)	1 (7)	0 (0)	0 (0)
brain	red zone		2 (17)	0 (0)	0 (0)	1 (6)
	yellow zone		0 (0)	1 (7)	0 (0)	0 (0)
	black zone		1 (8)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (8)	0 (0)	0 (0)	0 (0)
spinal cord	red zone		1 (8)	0 (0)	0 (0)	0 (0)
periph nerv	nodule		1 (8)	0 (0)	0 (0)	0 (0)
eye	turbid		1 (8)	0 (0)	0 (0)	0 (0)
	white		0 (0)	1 (7)	0 (0)	2 (12)
Zymbal gl	nodule		1 (8)	0 (0)	0 (0)	1 (6)
mediastinum	mass		1 (8)	0 (0)	0 (0)	0 (0)
peritoneum	nodule		0 (0)	1 (7)	0 (0)	0 (0)
retroperit	thick		0 (0)	0 (0)	0 (0)	1 (6)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	280 ppm	1400 ppm	7000 ppm
			12 (%)	14 (%)	9 (%)	17 (%)
abdominal c	hemorrhage		0 (0)	1 (7)	0 (0)	0 (0)
	ascites		0 (0)	1 (7)	0 (0)	2 (12)
thoracic ca	pleural fluid		0 (0)	1 (7)	1 (11)	1 (6)
whole body	anemic		0 (0)	1 (7)	1 (11)	0 (0)

(HPT080)

BAIS 5

TABLE I 3

GROSS FINDINGS: MALE: SACRIFICED ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 38 (%)	280 ppm 36 (%)	1400 ppm 41 (%)	7000 ppm 33 (%)
skin/app	nodule		5 (13)	2 (6)	4 (10)	0 (0)
	scab		0 (0)	0 (0)	0 (0)	1 (3)
subcutis	jaundice		0 (0)	0 (0)	1 (2)	0 (0)
	mass		5 (13)	7 (19)	13 (32)	5 (15)
lung	white zone		3 (8)	1 (3)	2 (5)	4 (12)
	nodule		0 (0)	1 (3)	1 (2)	0 (0)
lymph node	enlarged		1 (3)	0 (0)	1 (2)	0 (0)
spleen	enlarged		2 (5)	2 (6)	5 (12)	2 (6)
	nodule		0 (0)	1 (3)	0 (0)	0 (0)
heart	nodule		0 (0)	0 (0)	1 (2)	0 (0)
oral cavity	nodule		1 (3)	0 (0)	0 (0)	0 (0)
tooth	white zone		1 (3)	0 (0)	0 (0)	0 (0)
tongue	nodule		0 (0)	0 (0)	1 (2)	0 (0)
stomach	forestomach:ulcer		0 (0)	0 (0)	1 (2)	0 (0)
	forestomach:nodule		0 (0)	1 (3)	0 (0)	0 (0)
	glandular stomach:erosion		0 (0)	0 (0)	1 (2)	1 (3)
	glandular stomach:nodule		2 (5)	2 (6)	0 (0)	1 (3)
	glandular stomach:thick		0 (0)	0 (0)	0 (0)	5 (15)
liver	white zone		0 (0)	0 (0)	1 (2)	1 (3)
	nodule		0 (0)	0 (0)	0 (0)	1 (3)
	rough		1 (3)	1 (3)	2 (5)	2 (6)
	herniation		4 (11)	8 (22)	3 (7)	2 (6)

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 38 (%)	280 ppm 36 (%)	1400 ppm 41 (%)	7000 ppm 33 (%)
pancreas	nodule		0 (0)	0 (0)	1 (2)	0 (0)
kidney	white zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		0 (0)	1 (3)	0 (0)	1 (3)
	cyst		1 (3)	0 (0)	0 (0)	0 (0)
	granular		4 (11)	2 (6)	13 (32)	22 (67)
urin bladd	white zone		1 (3)	0 (0)	0 (0)	0 (0)
pituitary	enlarged		3 (8)	9 (25)	3 (7)	0 (0)
	red zone		9 (24)	3 (8)	5 (12)	0 (0)
	nodule		1 (3)	2 (6)	7 (17)	1 (3)
	cyst		1 (3)	1 (3)	1 (2)	0 (0)
thyroid	enlarged		1 (3)	3 (8)	7 (17)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
adrenal	enlarged		3 (8)	2 (6)	3 (7)	0 (0)
testis	nodule		29 (76)	23 (64)	33 (80)	32 (97)
epididymis	nodule		0 (0)	1 (3)	0 (0)	0 (0)
prep/cli gl	nodule		0 (0)	1 (3)	1 (2)	1 (3)
eye	turbid		0 (0)	0 (0)	0 (0)	2 (6)
	white		4 (11)	8 (22)	2 (5)	0 (0)
Zymbal gl	nodule		0 (0)	0 (0)	1 (2)	0 (0)
retroperit	cyst		1 (3)	0 (0)	0 (0)	0 (0)
thoracic ca	pleural fluid		0 (0)	0 (0)	0 (0)	1 (3)
other	tail:nodule		0 (0)	1 (3)	0 (0)	0 (0)

TABLE I 4

GROSS FINDINGS: FEMALE: ALL ANIMALS

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	160 ppm 50 (%)	800 ppm 50 (%)	4000 ppm 50 (%)
skin/app	nodule		0 (0)	0 (0)	0 (0)	3 (6)
subcutis	jaundice		0 (0)	0 (0)	1 (2)	0 (0)
	mass		17 (34)	13 (26)	14 (28)	11 (22)
lung	white zone		0 (0)	1 (2)	0 (0)	29 (58)
	red zone		1 (2)	0 (0)	0 (0)	1 (2)
	brown zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		0 (0)	0 (0)	0 (0)	2 (4)
lymph node	enlarged		0 (0)	1 (2)	0 (0)	0 (0)
spleen	enlarged		6 (12)	7 (14)	5 (10)	2 (4)
	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
artery/aort	induration		0 (0)	0 (0)	0 (0)	1 (2)
tongue	nodule		0 (0)	1 (2)	3 (6)	0 (0)
stomach	forestomach:ulcer		1 (2)	2 (4)	0 (0)	2 (4)
	forestomach:nodule		1 (2)	0 (0)	0 (0)	0 (0)
	forestomach:red zone		0 (0)	0 (0)	0 (0)	1 (2)
	glandular stomach:erosion		1 (2)	0 (0)	0 (0)	3 (6)
	glandular stomach:black zone		1 (2)	0 (0)	0 (0)	0 (0)
	glandular stomach:thick		0 (0)	1 (2)	0 (0)	0 (0)
small intes	nodule		1 (2)	0 (0)	1 (2)	0 (0)
	adhesion		1 (2)	0 (0)	0 (0)	0 (0)
liver	enlarged		0 (0)	0 (0)	1 (2)	0 (0)
	pale		0 (0)	1 (2)	0 (0)	0 (0)

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	160 ppm 50 (%)	800 ppm 50 (%)	4000 ppm 50 (%)
liver	white zone		1 (2)	2 (4)	1 (2)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		1 (2)	1 (2)	0 (0)	0 (0)
	cyst		0 (0)	1 (2)	1 (2)	0 (0)
	rough		3 (6)	1 (2)	0 (0)	0 (0)
	nodular		0 (0)	1 (2)	0 (0)	0 (0)
	herniation		7 (14)	6 (12)	14 (28)	6 (12)
kidney	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	deformed		0 (0)	1 (2)	0 (0)	0 (0)
	granular		0 (0)	1 (2)	0 (0)	3 (6)
urin bladd	urine:marked retention		1 (2)	1 (2)	0 (0)	4 (8)
pituitary	enlarged		8 (16)	10 (20)	11 (22)	0 (0)
	red zone		13 (26)	11 (22)	6 (12)	3 (6)
	black zone		1 (2)	2 (4)	0 (0)	0 (0)
	nodule		1 (2)	1 (2)	4 (8)	1 (2)
	cyst		1 (2)	1 (2)	3 (6)	0 (0)
thyroid	enlarged		1 (2)	1 (2)	4 (8)	0 (0)
adrenal	enlarged		2 (4)	1 (2)	0 (0)	0 (0)
ovary	enlarged		0 (0)	0 (0)	1 (2)	2 (4)
	nodule		1 (2)	0 (0)	0 (0)	0 (0)
uterus	black zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		9 (18)	8 (16)	7 (14)	4 (8)

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	160 ppm 50 (%)	800 ppm 50 (%)	4000 ppm 50 (%)
uterus	dilated lumen		0 (0)	1 (2)	0 (0)	0 (0)
vagina	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	dilated		0 (0)	0 (0)	1 (2)	0 (0)
brain	red zone		1 (2)	1 (2)	1 (2)	0 (0)
eye	turbid		0 (0)	0 (0)	0 (0)	5 (10)
	white		1 (2)	3 (6)	3 (6)	2 (4)
Zymbal gl	nodule		0 (0)	1 (2)	2 (4)	1 (2)
muscle	nodule		0 (0)	0 (0)	0 (0)	1 (2)
pleura	nodule		0 (0)	0 (0)	0 (0)	1 (2)
mediastinum	mass		0 (0)	0 (0)	0 (0)	2 (4)
peritoneum	nodule		1 (2)	1 (2)	0 (0)	0 (0)
abdominal c	hemorrhage		0 (0)	1 (2)	0 (0)	0 (0)
	ascites		0 (0)	2 (4)	1 (2)	3 (6)
thoracic ca	pleural fluid		2 (4)	0 (0)	0 (0)	43 (86)
other	nodule		2 (4)	0 (0)	0 (0)	0 (0)
	tail:nodule		0 (0)	0 (0)	0 (0)	1 (2)
	ear:nodule		0 (0)	0 (0)	0 (0)	1 (2)
	forelimb:nodule		1 (2)	0 (0)	0 (0)	0 (0)
	nose:nodule		0 (0)	1 (2)	0 (0)	0 (0)
whole body	anemic		1 (2)	0 (0)	0 (0)	1 (2)

TABLE I 5

GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 16 (%)	160 ppm 11 (%)	800 ppm 8 (%)	4000 ppm 47 (%)
skin/app	nodule		0 (0)	0 (0)	0 (0)	2 (4)
subcutis	jaundice		0 (0)	0 (0)	1 (13)	0 (0)
	mass		3 (19)	2 (18)	1 (13)	11 (23)
lung	white zone		0 (0)	0 (0)	0 (0)	29 (62)
	red zone		1 (6)	0 (0)	0 (0)	1 (2)
	nodule		0 (0)	0 (0)	0 (0)	1 (2)
lymph node	enlarged		0 (0)	1 (9)	0 (0)	0 (0)
spleen	enlarged		4 (25)	3 (27)	4 (50)	2 (4)
	hemorrhage		0 (0)	1 (9)	0 (0)	0 (0)
artery/aort	induration		0 (0)	0 (0)	0 (0)	1 (2)
stomach	forestomach:ulcer		1 (6)	2 (18)	0 (0)	1 (2)
	forestomach:nodule		1 (6)	0 (0)	0 (0)	0 (0)
	forestomach:red zone		0 (0)	0 (0)	0 (0)	1 (2)
	glandular stomach:erosion		1 (6)	0 (0)	0 (0)	2 (4)
	glandular stomach:black zone		1 (6)	0 (0)	0 (0)	0 (0)
small intes	nodule		1 (6)	0 (0)	0 (0)	0 (0)
liver	enlarged		0 (0)	0 (0)	1 (13)	0 (0)
	pale		0 (0)	1 (9)	0 (0)	0 (0)
	white zone		1 (6)	0 (0)	0 (0)	0 (0)
	cyst		0 (0)	0 (0)	1 (13)	0 (0)
	rough		2 (13)	0 (0)	0 (0)	0 (0)
	herniation		3 (19)	1 (9)	2 (25)	6 (13)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 16 (%)	160 ppm 11 (%)	800 ppm 8 (%)	4000 ppm 47 (%)
kidney	nodule		0 (0)	0 (0)	1 (13)	0 (0)
	granular		0 (0)	0 (0)	0 (0)	2 (4)
urin bladd	urine:marked retention		1 (6)	1 (9)	0 (0)	4 (9)
pituitary	enlarged		6 (38)	4 (36)	3 (38)	0 (0)
	red zone		2 (13)	1 (9)	0 (0)	3 (6)
	black zone		1 (6)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (2)
thyroid	enlarged		1 (6)	0 (0)	1 (13)	0 (0)
adrenal	enlarged		1 (6)	0 (0)	0 (0)	0 (0)
ovary	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		1 (6)	0 (0)	0 (0)	0 (0)
uterus	black zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		3 (19)	3 (27)	0 (0)	3 (6)
	dilated lumen		0 (0)	1 (9)	0 (0)	0 (0)
vagina	nodule		0 (0)	1 (9)	0 (0)	0 (0)
	dilated		0 (0)	0 (0)	1 (13)	0 (0)
brain	red zone		1 (6)	0 (0)	1 (13)	0 (0)
eye	turbid		0 (0)	0 (0)	0 (0)	3 (6)
	white		0 (0)	0 (0)	0 (0)	2 (4)
Zymbal gl	nodule		0 (0)	0 (0)	1 (13)	1 (2)
muscle	nodule		0 (0)	0 (0)	0 (0)	1 (2)
pleura	nodule		0 (0)	0 (0)	0 (0)	1 (2)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control	160 ppm	800 ppm	4000 ppm
			16 (%)	11 (%)	8 (%)	47 (%)
mediastinum	mass		0 (0)	0 (0)	0 (0)	2 (4)
peritoneum	nodule		1 (6)	1 (9)	0 (0)	0 (0)
abdominal c	hemorrhage		0 (0)	1 (9)	0 (0)	0 (0)
	ascites		0 (0)	2 (18)	1 (13)	3 (6)
thoracic ca	pleural fluid		1 (6)	0 (0)	0 (0)	41 (87)
other	tail:nodule		0 (0)	0 (0)	0 (0)	1 (2)
	forelimb:nodule		1 (6)	0 (0)	0 (0)	0 (0)
whole body	anemic		1 (6)	0 (0)	0 (0)	1 (2)

(HPT080)

BAIS 5

TABLE I 6

GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 34 (%)	160 ppm 39 (%)	800 ppm 42 (%)	4000 ppm 3 (%)
skin/app	nodule		0 (0)	0 (0)	0 (0)	1 (33)
subcutis	mass		14 (41)	11 (28)	13 (31)	0 (0)
lung	white zone		0 (0)	1 (3)	0 (0)	0 (0)
	brown zone		0 (0)	0 (0)	0 (0)	1 (33)
	nodule		0 (0)	0 (0)	0 (0)	1 (33)
spleen	enlarged		2 (6)	4 (10)	1 (2)	0 (0)
tongue	nodule		0 (0)	1 (3)	3 (7)	0 (0)
stomach	forestomach:ulcer		0 (0)	0 (0)	0 (0)	1 (33)
	glandular stomach:erosion		0 (0)	0 (0)	0 (0)	1 (33)
	glandular stomach:thick		0 (0)	1 (3)	0 (0)	0 (0)
small intes	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	adhesion		1 (3)	0 (0)	0 (0)	0 (0)
liver	white zone		0 (0)	2 (5)	1 (2)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (33)
	nodule		1 (3)	1 (3)	0 (0)	0 (0)
	cyst		0 (0)	1 (3)	0 (0)	0 (0)
	rough		1 (3)	1 (3)	0 (0)	0 (0)
	nodular		0 (0)	1 (3)	0 (0)	0 (0)
	herniation		4 (12)	5 (13)	12 (29)	0 (0)
kidney	deformed		0 (0)	1 (3)	0 (0)	0 (0)
	granular		0 (0)	1 (3)	0 (0)	1 (33)
pituitary	enlarged		2 (6)	6 (15)	8 (19)	0 (0)

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 34 (%)	160 ppm 39 (%)	800 ppm 42 (%)	4000 ppm 3 (%)
pituitary	red zone		11 (32)	10 (26)	6 (14)	0 (0)
	black zone		0 (0)	2 (5)	0 (0)	0 (0)
	nodule		1 (3)	1 (3)	4 (10)	0 (0)
	cyst		1 (3)	1 (3)	3 (7)	0 (0)
thyroid	enlarged		0 (0)	1 (3)	3 (7)	0 (0)
adrenal	enlarged		1 (3)	1 (3)	0 (0)	0 (0)
ovary	enlarged		0 (0)	0 (0)	1 (2)	1 (33)
uterus	nodule		6 (18)	5 (13)	7 (17)	1 (33)
brain	red zone		0 (0)	1 (3)	0 (0)	0 (0)
eye	turbid		0 (0)	0 (0)	0 (0)	2 (67)
	white		1 (3)	3 (8)	3 (7)	0 (0)
Zymbal gl	nodule		0 (0)	1 (3)	1 (2)	0 (0)
thoracic ca	pleural fluid		1 (3)	0 (0)	0 (0)	2 (67)
other	nodule		2 (6)	0 (0)	0 (0)	0 (0)
	ear:nodule		0 (0)	0 (0)	0 (0)	1 (33)
	nose:nodule		0 (0)	1 (3)	0 (0)	0 (0)

TABLE J 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
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	38	372±	32	0.093±	0.088	3.196±	1.434	1.232±	0.090	1.442±	0.172	2.790±	0.183
280 ppm	36	373±	35	0.092±	0.101	2.881±	1.447	1.255±	0.125	1.427±	0.150	2.880±	0.374
1400 ppm	39	353±	38*	0.134±	0.224	2.734±	1.139	1.276±	0.102	1.548±	0.271*	3.221±	0.695**
7000 ppm	29	250±	28**	0.071±	0.009	3.226±	1.102	1.174±	0.086	1.515±	0.120**	2.819±	0.280

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

Test of Dunnett

(HCL040)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
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	38	1.089±	0.379	10.641±	0.973	2.126±	0.048
280 ppm	36	1.211±	0.654	11.144±	1.680	2.125±	0.049
1400 ppm	39	1.587±	2.443	13.159±	1.437**	2.135±	0.039
7000 ppm	29	1.077±	0.467	12.470±	1.394**	2.056±	0.043**

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

Test of Dunnett

(HCL040)

BAIS 5

TABLE J 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
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	34	266±	33	0.147±	0.415	0.139±	0.025	0.900±	0.057	1.038±	0.163	1.861±	0.119
160 ppm	39	268±	24	0.080±	0.029	0.139±	0.020	0.920±	0.099	1.048±	0.129	1.921±	0.181
800 ppm	42	261±	33	0.080±	0.014	0.216±	0.479	0.893±	0.066	1.031±	0.078	1.848±	0.186
4000 ppm	3	134±	7**	0.087±	0.002	4.762±	8.089	0.959±	0.044	2.056±	1.219**	1.485±	0.009*

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

Test of Dunnett

(HCL040)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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	34	1.056±	1.751	7.036±	1.021	1.955±	0.049
160 ppm	39	1.222±	2.282	7.615±	2.096	1.948±	0.039
800 ppm	42	0.678±	0.450	7.402±	1.332	1.945±	0.032
4000 ppm	3	0.350±	0.056**	6.145±	0.934	1.843±	0.044**

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

Test of Dunnett

(HCL040)

BAIS 5

TABLE K 1

ORGAN WEIGHT, RELATIVE: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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	38	372± 32	0.025± 0.022	0.861± 0.380	0.333± 0.026	0.391± 0.063	0.755± 0.073
280 ppm	36	373± 35	0.025± 0.030	0.784± 0.413	0.339± 0.042	0.385± 0.045	0.776± 0.103
1400 ppm	39	353± 38*	0.037± 0.059*	0.767± 0.298	0.366± 0.052**	0.445± 0.109**	0.937± 0.336**
7000 ppm	29	250± 28**	0.029± 0.006**	1.280± 0.389**	0.475± 0.063**	0.611± 0.059**	1.138± 0.133**

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	38	0.294± 0.109	2.873± 0.254	0.577± 0.055
280 ppm	36	0.323± 0.166	2.983± 0.334	0.574± 0.057
1400 ppm	39	0.473± 0.845**	3.767± 0.608**	0.611± 0.066**
7000 ppm	29	0.432± 0.205**	5.007± 0.401**	0.832± 0.086**

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

Test of Dunnett

(HCL042)

BAIS 5

TABLE K 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
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	34	266± 33	0.056± 0.160	0.053± 0.010	0.343± 0.052	0.399± 0.108	0.709± 0.101
160 ppm	39	268± 24	0.030± 0.013	0.052± 0.008	0.345± 0.043	0.395± 0.070	0.720± 0.075
800 ppm	42	261± 33	0.031± 0.006	0.081± 0.170	0.347± 0.042	0.401± 0.051	0.716± 0.083
4000 ppm	3	134± 7**	0.065± 0.002**	3.606± 6.129*	0.717± 0.060**	1.564± 0.993**	1.111± 0.064**

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	34	0.426± 0.786	2.657± 0.345	0.746± 0.102
160 ppm	39	0.496± 1.057	2.862± 0.859	0.732± 0.064
800 ppm	42	0.262± 0.169	2.841± 0.374**	0.759± 0.110
4000 ppm	3	0.262± 0.044	4.575± 0.547**	1.378± 0.080**

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

Test of Dunnett

(HCL042)

BAIS 5

TABLE L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: ALL ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																					
skin/app		<50>				<50>				<50>				<50>				<50>			
	ulcer	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)
	squamous cell hyperplasia	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)
	scab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
subcutis		<50>				<50>				<50>				<50>				<50>			
	cyst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<50>				<50>			
	thrombus	3	0	0	0	3	0	0	0	4	1	0	0	1	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	41	0	0	0	43	0	0	0	45	0	0	0	47	0	0	0	47	0	0	0
		(82)	(0)	(0)	(0)	(86)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(94)	(0)	(0)	(0)	(94)	(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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	eosinophilic change:olfactory epithelium		40 (80)	2 (4)	1 (2)	0 (0)	39 (78)	7 (14)	0 (0)	0 (0)	44 (88)	2 (4)	0 (0)	0 (0)	31 (62)	0 (0)	0 (0)	0 * (0)
	eosinophilic change:respiratory epithelium		8 (16)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		16 (32)	4 (8)	0 (0)	0 (0)	18 (36)	2 (4)	0 (0)	0 (0)	21 (42)	9 (18)	1 (2)	0 (0)	13 (26)	17 (34)	2 (4)	0 ** (0)
	inflammation:respiratory epithelium		9 (18)	1 (2)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		4 (8)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		50 (100)	0 (0)	0 (0)	0 (0)	49 (98)	1 (2)	0 (0)	0 (0)	47 (94)	0 (0)	0 (0)	0 (0)	40 (80)	1 (2)	0 (0)	0 ** (0)
	squamous cell metaplasia:respiratory epithelium		1 (2)	0 (0)	0 (0)	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)
	ulcer:respiratory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Respiratory system)																			
nasal cavit			<50>				<50>				<50>				<50>				
	hyperplasia:transitional epithelium		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammotory infiltration:respiratory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)
	brown pigment olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0) **	26 (52)	0 (0)	0 (0)	0 (0)	0 (0) **
nasopharynx			<50>				<50>				<50>				<50>				
	inflammation		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	3 (6)	0 (0)	0 (0)	
	lymphocytic infiltration		2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
	inflammation:foreign body		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
larynx			<50>				<50>				<50>				<50>				
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung			<50>				<50>				<50>				<50>			
	congestion		0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage		2 (4)	2 (4)	1 (2)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)
	edema		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	fibrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

(Hematopoietic system)

bone marrow																		
	<50>																	
congestion			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	hemorrhage		0 (0)	2 (4)	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)
	deposit of pigment		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)
	deposit of hemosiderin		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		6 (12)	0 (0)	0 (0)	0 (0)	10 (20)	3 (6)	0 (0)	0 (0)	9 (18)	3 (6)	1 (2)	0 (0)	36 (72)	3 (6)	0 (0)	0 ** (0)
thymus			<50>				<50>				<50>				<50>			
	ectopic tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
spleen			<50>				<50>				<50>				<50>			
	congestion		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)
	deposit of hemosiderin		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)

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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																	
spleen		<50>				<50>				<50>				<50>			
	fibrosis:focal	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)
	extramedullary hematopoiesis	18	2	0	0	23	6	1	0	19	5	0	0	22	3	0	0
		(36)	(4)	(0)	(0)	(46)	(12)	(2)	(0)	(38)	(10)	(0)	(0)	(44)	(6)	(0)	(0)
(Circulatory system)																	
heart		<50>				<50>				<50>				<50>			
	thrombus	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	fibrosis:focal	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)
	myocardial fibrosis	34	4	0	0	23	3	0	0 *	29	1	0	0	26	6	0	0
		(68)	(8)	(0)	(0)	(46)	(6)	(0)	(0)	(58)	(2)	(0)	(0)	(52)	(12)	(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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Circulatory system)																		
artery/aort	mineralization:pulmonary artery		<50>				<50>				<50>				<50>			
		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)
(Digestive system)																		
tongue	ulcer		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		arteritis		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)
stomach	ectopic tissue			<50>				<50>				<50>				<50>		
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:forestomach		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																		
stomach			<50>				<50>				<50>				<50>			
	hyperplasia:forestomach		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		4 (8)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		6 (12)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	hyperplasia:glandular stomach		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	intestinal metaplasia:glandular stomach		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:glandular stomach		0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
change of location of chief cell		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)	
small intes			<50>				<50>				<50>				<50>			
	ulcer		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name	Control				280 ppm				1400 ppm				7000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
small intes	invagination		<50>				<50>				<50>				<50>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes	erosion		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	herniation		<50>				<50>				<50>				<50>			
		4	0	0	0	0	9	0	0	0	4	0	0	0	5	0	0	0
			(8)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	necrosis:central		0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:peripheral		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	granulation		4 (8)	1 (2)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	8 (16)	1 (2)	0 (0)	0 (0)
	inflammatory cell nest		4 (8)	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)
	clear cell focus		3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		32 (64)	1 (2)	0 (0)	0 (0)	20 (40)	3 (6)	0 (0)	0 * (0)	28 (56)	4 (8)	0 (0)	0 (0)	29 (58)	4 (8)	0 (0)	0 (0)
	basophilic cell focus		14 (28)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	16 (32)	2 (4)	0 (0)	0 (0)
	mixed cell focus		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)	1 (2)	0 (0)	0 (0)
	spongiosis hepatitis		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 ** (0)	3 (6)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		32 (64)	15 (30)	0 (0)	0 (0)	36 (72)	11 (22)	0 (0)	0 (0)	29 (58)	16 (32)	0 (0)	0 (0)	30 (60)	19 (38)	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. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	biliary 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)
	focal 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)	1 (2)	0 (0)	0 (0)	0 (0)
pancreas			<50>				<50>				<50>				<50>			
	atrophy		4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		1 (2)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	cyst		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																	
kidney	scar	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	fatty metamorphosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy	24	10	9	1	17	19	7	1	4	11	23	10 **	1	2	15	31 **
		(48)	(20)	(18)	(2)	(34)	(38)	(14)	(2)	(8)	(22)	(46)	(20)	(2)	(4)	(30)	(62)
	mineralization:papilla	0	0	0	0	0	0	0	0	0	0	0	0	12	7	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(24)	(14)	(0)	(0)
	mineralization:pelvis	3	0	0	0	5	2	0	0	2	1	0	0	13	3	0	0 **
		(6)	(0)	(0)	(0)	(10)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(26)	(6)	(0)	(0)
	mineralization:tubule	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis	1	0	0	0	1	0	0	0	19	0	0	0 **	27	8	1	0 **
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(54)	(16)	(2)	(0)
	atypical tubule hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Urinary system)																			
kidney	inflammation:pelvis		<50>				<50>				<50>				<50>				
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
urin bladd	dilatation		<50>				<50>				<50>				<50>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)		
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	
(Endocrine system)																			
pituitary	angiectasis		<50>				<50>				<50>				<50>				
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	cyst		10 (20)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 * (0)	3 (6)	2 (4)	0 (0)	0 * (0)	3 (6)	0 (0)	1 (2)	0 (0)	0 (0)
		hyperplasia		14 (28)	8 (16)	0 (0)	0 (0)	12 (24)	5 (10)	0 (0)	0 (0)	15 (30)	8 (16)	1 (2)	0 (0)	11 (22)	2 (4)	0 (0)	0 (0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 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>				<50>				<50>				<50>			
	Rathke pouch		3 (6)	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)
	gliosis		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)
thyroid			<50>				<50>				<50>				<50>			
	C-cell hyperplasia		8 (16)	3 (6)	0 (0)	0 (0)	12 (24)	2 (4)	0 (0)	0 (0)	5 (10)	7 (14)	1 (2)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
adrenal			<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)
	extramedullary hematopoiesis		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:cortical cell		5 (10)	0 (0)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		3 (6)	4 (8)	1 (2)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	6 (12)	2 (4)	0 (0)	0 (0)	6 (12)	0 (0)	1 (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. : 0759
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 15

Organ	Findings	Control No. of Animals on Study Grade				280 ppm 50				1400 ppm 50				7000 ppm 50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																	
adrenal		<50>				<50>				<50>				<50>			
	focal fatty change:cortex	3 (6)	0 (0)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	5 (10)	3 (6)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
(Reproductive system)																	
testis		<50>				<50>				<50>				<50>			
	inflammatory infiltration	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)
		<50>				<50>				<50>				<50>			
	interstitial cell hyperplasia	4 (8)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
epididymis		<50>				<50>				<50>				<50>			
	inflammatory infiltration	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)
prostate		<50>				<50>				<50>				<50>			
	inflammation	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
		<50>				<50>				<50>				<50>			
	hyperplasia	4 (8)	1 (2)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	5 (10)	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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 16

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				280 ppm 50				1400 ppm 50				7000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Reproductive system)																		
mammary gl	cyst		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Nervous system)																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
		3 (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)
	necrosis:focal		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)
		dilatation:cerebral ventricle		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)
(Special sense organs/appendage)																		
eye	cataract		<50>				<50>				<50>				<50>			
		3 (6)	3 (6)	0 (0)	0 (0)	5 (10)	6 (12)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	2 (4)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 17

		Group Name	Control				280 ppm				1400 ppm				7000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	retinal atrophy		10	2	3	0	3	2	8	0	4	1	2	0	3	1	2	0
			(20)	(4)	(6)	(0)	(6)	(4)	(16)	(0)	(8)	(2)	(4)	(0)	(6)	(2)	(4)	(0)
	keratitis		4	0	1	0	6	0	0	0	2	0	0	0	3	1	1	0
			(8)	(0)	(2)	(0)	(12)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(2)	(2)	(0)
	iritis		1	1	0	0	3	0	0	0	1	0	0	0	3	0	0	0
			(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	mineralization:cornea		0	0	0	0	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)
Harder gl			<50>				<50>				<50>				<50>			
	degeneration		0	0	0	0	2	0	0	0	1	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
(Musculoskeletal system)																		
muscle			<50>				<50>				<50>				<50>			
	degeneration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 18

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Musculoskeletal system)																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Body cavities)																		
peritoneum	inflammation		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mesothelial hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
retroperit	cyst		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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)

BAIS5

TABLE L 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	12				14				9				17			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<12>				<14>				< 9>				<17>			
	ulcer		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)	(6)	(0)	(0)
	scab		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)	(6)	(0)	(0)	(0)
(Respiratory system)																		
nasal cavit			<12>				<14>				< 9>				<17>			
	thrombus		3	0	0	0	3	0	0	0	2	1	0	0	1	0	0	0
		(25)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(22)	(11)	(0)	(0)	(6)	(0)	(0)	(0)	
	mineralization		9	0	0	0	12	0	0	0	6	0	0	0	15	0	0	0
			(75)	(0)	(0)	(0)	(86)	(0)	(0)	(0)	(67)	(0)	(0)	(0)	(88)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		7	0	0	0	12	0	0	0	6	0	0	0	4	0	0	0
			(58)	(0)	(0)	(0)	(86)	(0)	(0)	(0)	(67)	(0)	(0)	(0)	(24)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	inflammation:foreign body		5	0	0	0	6	1	0	0	4	0	1	0	5	6	2	0
			(42)	(0)	(0)	(0)	(43)	(7)	(0)	(0)	(44)	(0)	(11)	(0)	(29)	(35)	(12)	(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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 12				280 ppm 14				1400 ppm 9				7000 ppm 17			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<12>				<14>				< 9>				<17>			
	inflammation:respiratory epithelium		1 (8)	1 (8)	0 (0)	0 (0)	2 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		1 (8)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		12 (100)	0 (0)	0 (0)	0 (0)	14 (100)	0 (0)	0 (0)	0 (0)	8 (89)	0 (0)	0 (0)	0 (0)	10 (59)	0 (0)	0 (0)	0 * (0)
	ulcer:respiratory epithelium		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	brown pigment olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)	
nasopharynx			<12>				<14>				< 9>				<17>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	2 (12)	0 (0)	0 (0)
	lymphocytic infiltration		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	1 (7)	0 (0)	0 (0)	1 (11)	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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 12				280 ppm 14				1400 ppm 9				7000 ppm 17			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
larynx	inflammatory infiltration		<12>				<14>				< 9>				<17>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	
lung	congestion		<12>				<14>				< 9>				<17>			
		0 (0)	1 (8)	0 (0)	0 (0)	3 (21)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hemorrhage		1 (8)	2 (17)	1 (8)	0 (0)	0 (0)	2 (14)	0 (0)	0 (0)	1 (11)	1 (11)	0 (0)	0 (0)	2 (12)	2 (12)	0 (0)	0 (0)
		edema		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (22)	0 (0)	0 (0)	0 (0)	2 (12)	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 (6)	0 (0)	0 (0)
		bronchiolar-alveolar cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	[Hematopoietic system]																	
bone marrow	congestion		<12>				<14>				< 9>				<17>			
		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 (12)	0 (0)	0 (0)	0 (0)	
Grade	1+ : Slight	2+ : Moderate	3+ : Marked	4+ : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

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DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 12				280 ppm 14				1400 ppm 9				7000 ppm 17			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
bone marrow			<12>				<14>				< 9>				<17>			
	hemorrhage		0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	deposit of pigment		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 (12)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		1 (8)	0 (0)	0 (0)	0 (0)	4 (29)	1 (7)	0 (0)	0 (0)	2 (22)	1 (11)	1 (11)	0 (0)	9 (53)	1 (6)	0 (0)	0 * (0)
thymus			<12>				<14>				< 9>				<17>			
	ectopic tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
spleen			<12>				<14>				< 9>				<17>			
	congestion		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		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 (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

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 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 12				280 ppm 14				1400 ppm 9				7000 ppm 17			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<12>				<14>				< 9>				<17>			
	extramedullary hematopoiesis		2 (17)	1 (8)	0 (0)	0 (0)	3 (21)	2 (14)	1 (7)	0 (0)	1 (11)	4 (44)	0 (0)	0 (0)	6 (35)	2 (12)	0 (0)	0 (0)
(Circulatory system)																		
heart			<12>				<14>				< 9>				<17>			
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization		0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		6 (50)	2 (17)	0 (0)	0 (0)	6 (43)	2 (14)	0 (0)	0 (0)	4 (44)	1 (11)	0 (0)	0 (0)	8 (47)	4 (24)	0 (0)	0 (0)
artery/aort			<12>				<14>				< 9>				<17>			
	mineralization:pulmonary artery		0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade				Control 12				280 ppm 14				1400 ppm 9				7000 ppm 17			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
tongue	ulcer	<12>				<14>				< 9>				<17>							
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	ulcer:forestomach	<12>				<14>				< 9>				<17>							
		2	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	3	0	0	0
		(17)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(18)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	hyperplasia:forestomach	0	1	0	0	1	1	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(0)	(8)	(0)	(0)	(7)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	erosion:glandular stomach	1	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
small intes	ulcer:glandular stomach	2	1	0	0	1	0	0	0	1	0	0	0	3	0	0	0	3	0	0	0
		(17)	(8)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	mineralization:glandular stomach	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0
		(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(6)	(0)	(0)	(12)	(6)	(0)	(0)
small intes	ulcer	<12>				<14>				< 9>				<17>							
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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
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Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

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 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 7

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm				
		No. of Animals on Study	12				14				9				17				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Digestive system)																			
small intes			<12>				<14>				< 9>				<17>				
	invagination		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
large intes			<12>				<14>				< 9>				<17>				
	erosion		0 (0)	0 (0)	0 (0)	0 (0)	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)
liver			<12>				<14>				< 9>				<17>				
	herniation		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	3 (18)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	2 (22)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	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)	1 (7)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (24)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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

PAGE : 8

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	12				14				9				17			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Digestive system)																		
liver																		
	clear cell focus		<12>				<14>				< 9>				<17>			
			1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	acidophilic cell focus		2	0	0	0	2	0	0	0	4	0	0	0	7	0	0	0
			(17)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(41)	(0)	(0)	(0)
	basophilic cell focus		0	0	0	0	1	0	0	0	1	0	0	0	6	1	0	0 *
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(35)	(6)	(0)	(0)
	mixed cell focus		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(6)	(0)	(0)
	spongiosis hepatitis		0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	bile duct hyperplasia		5	5	0	0	10	2	0	0	3	1	0	0	11	5	0	0
			(42)	(42)	(0)	(0)	(71)	(14)	(0)	(0)	(33)	(11)	(0)	(0)	(65)	(29)	(0)	(0)
	biliary cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	focal fatty change		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)	(6)	(0)	(0)	(0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ	Findings	Control No. of Animals on Study Grade				280 ppm 14				1400 ppm 9				7000 ppm 17			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
pancreas	atrophy	<12>				<14>				< 9>				<17>			
		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
(Urinary system)																	
kidney	inflammatory infiltration	<12>				<14>				< 9>				<17>			
		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)	(6)	(0)	(0)	(0)
	chronic nephropathy	5	2	1	1	5	4	1	0	2	4	0	1	1	1	3	11 *
		(42)	(17)	(8)	(8)	(36)	(29)	(7)	(0)	(22)	(44)	(0)	(11)	(6)	(6)	(18)	(65)
	mineralization:papilla	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0 *
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(35)	(12)	(0)	(0)
	mineralization:pelvis	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(6)	(0)	(0)
	mineralization:tubule	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis	1	0	0	0	0	0	0	0	0	0	0	0	9	2	0	0 **
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(53)	(12)	(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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

		Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	12				14				9				17			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
urin bladd			<12>				<14>				< 9>				<17>			
	dilatation		0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(6)	(0)	(0)
	inflammation		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)	(6)	(0)
(Endocrine system)																		
pituitary			<12>				<14>				< 9>				<17>			
	angiectasis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(25)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	hyperplasia		2	2	0	0	0	2	0	0	3	0	0	0	4	1	0	0
			(17)	(17)	(0)	(0)	(0)	(14)	(0)	(0)	(33)	(0)	(0)	(0)	(24)	(6)	(0)	(0)
	Rathke pouch		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
thyroid			<12>				<14>				< 9>				<17>			
	C-cell hyperplasia		1	1	0	0	1	1	0	0	2	1	0	0	0	0	0	0
			(8)	(8)	(0)	(0)	(7)	(7)	(0)	(0)	(22)	(11)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
< a > a : Number of animals examined at the site
b 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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	12				14				9				17			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Endocrine system)																		
adrenal			<12>				<14>				< 9>				<17>			
	congestion		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:cortical cell		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:medulla		0	1	0	0	2	0	0	0	0	0	0	0	3	0	0	0
			(0)	(8)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	focal fatty change:cortex		0	0	0	0	2	1	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(14)	(7)	(0)	(0)	(11)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
<hr/>																		
(Reproductive system)																		
testis			<12>				<14>				< 9>				<17>			
	interstitial cell hyperplasia		1	0	0	0	4	0	0	0	2	1	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(22)	(11)	(0)	(0)	(12)	(0)	(0)	(0)
prostate			<12>				<14>				< 9>				<17>			
	inflammation		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)

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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name Control No. of Animals on Study Grade				280 ppm 14				1400 ppm 9				7000 ppm 17			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																	
prostate	hyperplasia	<12>				<14>				< 9>				<17>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
(Nervous system)																	
brain	hemorrhage	<12>				<14>				< 9>				<17>			
		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(25)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	<12>				<14>				< 9>				<17>			
		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)	(6)	(0)	(0)	(0)
	dilatation:cerebral ventricle	<12>				<14>				< 9>				<17>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																	
eye	cataract	<12>				<14>				< 9>				<17>			
		1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
		(8)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(6)	(0)	(0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm				
		No. of Animals on Study	12				14				9				17				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Special sense organs/appendage)																			
eye	retinal atrophy		<12>				<14>				< 9>				<17>				
		1	1	0	0	0	0	1	0	0	0	1	0	0	0	2	0	2	0
		(8)	(8)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(12)	(0)	(12)	(0)
	keratitis	1	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	
		(8)	(0)	(8)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	
	iritis	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	
		(0)	(8)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	
	mineralization:cornea	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Harder gl	degeneration		<12>				<14>				< 9>				<17>				
		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)	(6)	(0)	(0)	(0)	
(Musculoskeletal system)																			
muscle	degeneration		<12>				<14>				< 9>				<17>				
		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)	(6)	(0)	(0)	(0)	

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

		Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	12				14				9				17			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Musculoskeletal system)																		
bone			<12>				<14>				< 9>				<17>			
	osteosclerosis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS5

TABLE L 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: SACRIFICED ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name Control No. of Animals on Study Grade				280 ppm 36				1400 ppm 41				7000 ppm 33			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																	
skin/app		<38>				<36>				<41>				<33>			
	squamous cell hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
subcutis		<38>				<36>				<41>				<33>			
	cyst	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)	(3)	(0)
(Respiratory system)																	
nasal cavit		<38>				<36>				<41>				<33>			
	thrombus	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	32	0	0	0	31	0	0	0	39	0	0	0	32	0	0	0
		(84)	(0)	(0)	(0)	(86)	(0)	(0)	(0)	(95)	(0)	(0)	(0)	(97)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium	33	2	1	0	27	7	0	0	38	2	0	0	27	0	0	0
		(87)	(5)	(3)	(0)	(75)	(19)	(0)	(0)	(93)	(5)	(0)	(0)	(82)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	8	0	0	0	7	0	0	0	2	0	0	0	6	0	0	0
		(21)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(18)	(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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<38>				<36>				<41>				<33>			
	inflammation:foreign body		11 (29)	4 (11)	0 (0)	0 (0)	12 (33)	1 (3)	0 (0)	0 (0)	17 (41)	9 (22)	0 (0)	0 (0)	8 (24)	11 (33)	0 (0)	0 (0)
	inflammation:respiratory epithelium		8 (21)	0 (0)	0 (0)	0 (0)	7 (19)	0 (0)	0 (0)	0 (0)	9 (22)	0 (0)	0 (0)	0 (0)	9 (27)	1 (3)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		3 (8)	0 (0)	0 (0)	0 (0)	9 (25)	0 (0)	0 (0)	0 (0)	7 (17)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		38 (100)	0 (0)	0 (0)	0 (0)	35 (97)	1 (3)	0 (0)	0 (0)	39 (95)	0 (0)	0 (0)	0 (0)	30 (91)	1 (3)	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)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional 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)
	inflammtory infiltration:respiratory epithelium		1 (3)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)
atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (9)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Control No. of Animals on Study Grade				280 ppm 36				1400 ppm 41				7000 ppm 33			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																	
nasal cavit		<38>				<36>				<41>				<33>			
	brown pigment olfactory gland	0	0	0	0	2	0	0	0	15	0	0	0 **	24	0	0	0 **
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(37)	(0)	(0)	(0)	(73)	(0)	(0)	(0)
nasopharynx		<38>				<36>				<41>				<33>			
	inflammation	1	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(3)	(0)	(0)
	lymphocytic infiltration	1	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0
		(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	inflammation:foreign body	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
larynx		<38>				<36>				<41>				<33>			
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung		<38>				<36>				<41>				<33>			
	congestion	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)
	hemorrhage	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																	
lung		<38>				<36>				<41>				<33>			
	edema	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	inflammatory infiltration	2	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fibrosis:focal	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)	(9)	(0)	(0)	(0)
	accumulation of foamy cells	1	0	0	0	1	0	0	0	0	1	0	0	5	0	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(15)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(5)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Hematopoietic system)																	
bone marrow		<38>				<36>				<41>				<33>			
	hemorrhage	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	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)	(6)	(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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 38				280 ppm 36				1400 ppm 41				7000 ppm 33			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
bone marrow	increased hematopoiesis		<38>				<36>				<41>				<33>			
		5 (13)	0 (0)	0 (0)	0 (0)	6 (17)	2 (6)	0 (0)	0 (0)	7 (17)	2 (5)	0 (0)	0 (0)	27 (82)	2 (6)	0 (0)	0 (0)	0 **
spleen	congestion		<38>				<36>				<41>				<33>			
		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)
	fibrosis:focal		<38>				<36>				<41>				<33>			
		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)
	extramedullary hematopoiesis		16 (42)	1 (3)	0 (0)	0 (0)	20 (56)	4 (11)	0 (0)	0 (0)	18 (44)	1 (2)	0 (0)	0 (0)	16 (48)	1 (3)	0 (0)	0 (0)
(Circulatory system)																		
heart	thrombus		<38>				<36>				<41>				<33>			
		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)
	inflammatory 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)
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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart			<38>				<36>				<41>				<33>			
	fibrosis:focal	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
myocardial fibrosis	28	2	0	0	17	1	0	0 *	25	0	0	0	18	2	0	0		
	(74)	(5)	(0)	(0)	(47)	(3)	(0)	(0)	(61)	(0)	(0)	(0)	(55)	(6)	(0)	(0)		
(Digestive system)																		
tongue			<38>				<36>				<41>				<33>			
	squamous cell hyperplasia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
arteritis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
stomach			<38>				<36>				<41>				<33>			
	ectopic tissue	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ulcer:forestomach	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)	(2)	(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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<38>				<36>				<41>				<33>			
	hyperplasia:forestomach		0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	erosion:glandular stomach		3	0	0	0	3	0	0	0	3	0	0	0	8	0	0	0
			(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(24)	(0)	(0)	(0)
	ulcer:glandular stomach		4	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
			(11)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
hyperplasia:glandular stomach		1	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
intestinal metaplasia:glandular stomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
mineralization:glandular stomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
change of location of chief cell		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)	
liver			<38>				<36>				<41>				<33>			
	herniation		4	0	0	0	8	0	0	0	3	0	0	0	2	0	0	0
		(11)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<38>				<36>				<41>				<33>			
	necrosis:focal		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)
	fatty change:peripheral		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)
	lymphocytic infiltration		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	granulation		4 (11)	1 (3)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	8 (20)	0 (0)	0 (0)	0 (0)	4 (12)	1 (3)	0 (0)	0 (0)
	inflammatory cell nest		3 (8)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	clear cell focus		2 (5)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		30 (79)	1 (3)	0 (0)	0 (0)	18 (50)	3 (8)	0 (0)	0 * (0)	24 (59)	4 (10)	0 (0)	0 (0)	22 (67)	4 (12)	0 (0)	0 (0)
	basophilic cell focus		14 (37)	0 (0)	0 (0)	0 (0)	10 (28)	0 (0)	0 (0)	0 (0)	17 (41)	0 (0)	0 (0)	0 (0)	10 (30)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name Control No. of Animals on Study Grade				280 ppm 36				1400 ppm 41				7000 ppm 33			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
liver		<38>				<36>				<41>				<33>			
	mixed cell focus	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)
	spongiosis hepatitis	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	12 (29)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia	27 (71)	10 (26)	0 (0)	0 (0)	26 (72)	9 (25)	0 (0)	0 (0)	26 (63)	15 (37)	0 (0)	0 (0)	19 (58)	14 (42)	0 (0)	0 (0)
	focal fatty change	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)
pancreas		<38>				<36>				<41>				<33>			
	atrophy	3 (8)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia	1 (3)	0 (0)	1 (3)	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)
(Urinary system)																	
kidney		<38>				<36>				<41>				<33>			
	cyst	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (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 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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Control No. of Animals on Study Grade				280 ppm 36				1400 ppm 41				7000 ppm 33			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																	
kidney		<38>				<36>				<41>				<33>			
	scar	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)	1 (3)	0 (0)	0 (0)
	fatty metamorphosis	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)
	chronic nephropathy	19 (50)	8 (21)	8 (21)	0 (0)	12 (33)	15 (42)	6 (17)	1 (3)	2 (5)	7 (17)	23 (56)	9 ** (22)	0 (0)	1 (3)	12 (36)	20 ** (61)
	mineralization:papilla	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (18)	5 (15)	0 (0)	0 ** (0)
	mineralization:pelvis	3 (8)	0 (0)	0 (0)	0 (0)	4 (11)	2 (6)	0 (0)	0 (0)	2 (5)	1 (2)	0 (0)	0 (0)	11 (33)	2 (6)	0 (0)	0 ** (0)
	mineralization:tubule	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)
	urothelial hyperplasia:pelvis	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	19 (46)	0 (0)	0 (0)	0 ** (0)	18 (55)	6 (18)	1 (3)	0 ** (0)
	atypical tubule 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)

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. : 0759
 ANIMAL : RAT F344/DuCrjCrj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney	inflammation:pelvis		<38>				<36>				<41>				<33>			
		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)	(0)
(Endocrine system)																		
pituitary	angiectasis		<38>				<36>				<41>				<33>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		7	0	0	0	3	2	0	0	3	2	0	0	2	0	1	0
		(18)	(0)	(0)	(0)	(8)	(6)	(0)	(0)	(7)	(5)	(0)	(0)	(6)	(0)	(3)	(0)	(0)
	hyperplasia		12	6	0	0	12	3	0	0	12	8	1	0	7	1	0	0
		(32)	(16)	(0)	(0)	(33)	(8)	(0)	(0)	(29)	(20)	(2)	(0)	(21)	(3)	(0)	(0)	(0)
	Rathke pouch		3	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	gliosis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid	C-cell hyperplasia		<38>				<36>				<41>				<33>			
		7	2	0	0	11	1	0	0	3	6	1	0	2	1	0	0	
		(18)	(5)	(0)	(0)	(31)	(3)	(0)	(0)	(7)	(15)	(2)	(0)	(6)	(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. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal			<38>				<36>				<41>				<33>			
	hyperplasia:cortical cell		4 (11)	0 (0)	0 (0)	0 (0)	3 (8)	2 (6)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		3 (8)	3 (8)	1 (3)	0 (0)	3 (8)	2 (6)	0 (0)	0 (0)	6 (15)	2 (5)	0 (0)	0 (0)	3 (9)	0 (0)	1 (3)	0 (0)
	focal fatty change:cortex		3 (8)	0 (0)	0 (0)	0 (0)	3 (8)	1 (3)	0 (0)	0 (0)	4 (10)	3 (7)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
testis			<38>				<36>				<41>				<33>			
	inflammatory infiltration		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)
	interstitial cell hyperplasia		3 (8)	0 (0)	0 (0)	0 (0)	7 (19)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
epididymis			<38>				<36>				<41>				<33>			
	inflammatory infiltration		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 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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
prostate			<38>				<36>				<41>				<33>			
	inflammation		1 (3)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	5 (15)	0 (0)	0 (0)	0 (0)
	hyperplasia		4 (11)	1 (3)	0 (0)	0 (0)	5 (14)	2 (6)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
mammary gl			<38>				<36>				<41>				<33>			
	cyst		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)
(Special sense organs/appendage)																		
eye			<38>				<36>				<41>				<33>			
	cataract		2 (5)	3 (8)	0 (0)	0 (0)	5 (14)	5 (14)	0 (0)	0 (0)	4 (10)	1 (2)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	retinal atrophy		9 (24)	1 (3)	3 (8)	0 (0)	3 (8)	2 (6)	7 (19)	0 (0)	3 (7)	1 (2)	2 (5)	0 (0)	1 (3)	1 (3)	0 (0)	0 * (0)
	keratitis		3 (8)	0 (0)	0 (0)	0 (0)	5 (14)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	1 (3)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name	Control				280 ppm				1400 ppm				7000 ppm			
		No. of Animals on Study	38				36				41				33			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	iritis		<38>				<36>				<41>				<33>			
		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	
		(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
	mineralization:cornea		0	0	0	0	2	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)	
Harder gl	degeneration		<38>				<36>				<41>				<33>			
		0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
(Body cavities)																		
peritoneum	inflammation		<38>				<36>				<41>				<33>			
		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)	
	mesothelial 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)	(2)	(0)	(0)	(0)	(0)	
retroperit	cyst		<38>				<36>				<41>				<33>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

TABLE L 4

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: ALL ANIMALS

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 19

Organ	Findings	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																	
skin/app	squamous cell hyperplasia	<50>				<50>				<50>				<50>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scab	<50>				<50>				<50>				<50>			
		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)	(4)	(0)	(0)
{Respiratory system}																	
nasal cavit	thrombus	<50>				<50>				<50>				<50>			
		3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	<50>				<50>				<50>				<50>			
		30	0	0	0	25	0	0	0	33	0	0	0	37	0	0	0
		(60)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(66)	(0)	(0)	(0)	(74)	(0)	(0)	(0)
	rhinitis	<50>				<50>				<50>				<50>			
		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)
	eosinophilic change:olfactory epithelium	<50>				<50>				<50>				<50>			
		31	16	0	0	27	22	0	0	28	21	0	0	31	1	0	0 **
		(62)	(32)	(0)	(0)	(54)	(44)	(0)	(0)	(56)	(42)	(0)	(0)	(62)	(2)	(0)	(0)
	eosinophilic change:respiratory epithelium	<50>				<50>				<50>				<50>			
		18	0	0	0	26	0	0	0	27	0	0	0	10	0	0	0
		(36)	(0)	(0)	(0)	(52)	(0)	(0)	(0)	(54)	(0)	(0)	(0)	(20)	(0)	(0)	(0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				160 ppm 50				800 ppm 50				4000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	inflammation:foreign body		2 (4)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammation:respiratory epithelium		10 (20)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 *
	respiratory metaplasia:gland		47 (94)	0 (0)	0 (0)	0 (0)	49 (98)	0 (0)	0 (0)	0 (0)	49 (98)	0 (0)	0 (0)	0 (0)	38 (76)	0 (0)	0 (0)	0 *
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0
	hyperplasia:transitional epithelium		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
	inflammtoary infiltration:respiratory epithelium		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
nasopharynx	brown pigment olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 *
	inflammation		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0

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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				160 ppm 50				800 ppm 50				4000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
larynx			<50>				<50>				<50>				<50>			
	inflammation		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:epithelium		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
trachea			<50>				<50>				<50>				<50>			
	inflammation		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)
lung			<50>				<50>				<50>				<50>			
	congestion		4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)
	hemorrhage		2 (4)	1 (2)	1 (2)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	edema		3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	22 (44)	3 (6)	0 (0)	0 ** (0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																	
lung		<50>				<50>				<50>				<50>			
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fibrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	36	1	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(72)	(2)	(0)	(0)
	accumulation of foamy cells	1	0	0	0	1	0	0	0	4	0	0	0	9	0	0	0 *
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammation:foreign body	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Hematopoietic system)																	
bone marrow		<50>				<50>				<50>				<50>			
	congestion	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)
	hemorrhage	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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																	
bone marrow		<50>				<50>				<50>				<50>			
	deposit of hemosiderin	1	0	0	0	2	0	0	0	0	0	0	0	39	0	0	0 **
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(78)	(0)	(0)	(0)
	granulation	2	2	0	0	3	0	0	0	0	2	0	0	0	0	0	0
		(4)	(4)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis	9	4	0	0	6	3	0	0	7	4	0	0	45	2	0	0 **
		(18)	(8)	(0)	(0)	(12)	(6)	(0)	(0)	(14)	(8)	(0)	(0)	(90)	(4)	(0)	(0)
	myelofibrosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node		<50>				<50>				<50>				<50>			
	hemorrhage	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen		<50>				<50>				<50>				<50>			
	congestion	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	deposit of hemosiderin	1	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																	
spleen		<50>				<50>				<50>				<50>			
	fibrosis:focal	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	26	8	3	0	28	7	3	0	26	9	4	0	24	11	2	0
		(52)	(16)	(6)	(0)	(56)	(14)	(6)	(0)	(52)	(18)	(8)	(0)	(48)	(22)	(4)	(0)
(Circulatory system)																	
heart		<50>				<50>				<50>				<50>			
	thrombus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammatory infiltration	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)
	myocardial fibrosis	22	0	0	0	20	0	0	0	23	0	0	0	35	9	0	0 **
		(44)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(70)	(18)	(0)	(0)
	subendocardial fibrosis	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 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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

		Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
artery/aort			<50>				<50>				<50>				<50>			
	mineralization:pulmonary artery		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
tongue			<50>				<50>				<50>				<50>			
	lymphocytic 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)
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	arteritis		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)
stomach			<50>				<50>				<50>				<50>			
	ulcer:forestomach		1 (2)	2 (4)	2 (4)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)
	hyperplasia:forestomach		2 (4)	1 (2)	0 (0)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	4 (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 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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<50>				<50>				<50>				<50>			
	erosion:glandular stomach		2 (4)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		2 (4)	1 (2)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)
	hyperplasia:glandular stomach		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:glandular stomach		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)
	hemorrhage:glandular stomach		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:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	17 (34)	7 (14)	3 (6)	0 ** (0)
	change of location of chief cell		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)	
small intes			<50>				<50>				<50>				<50>			
	inflammatory infiltration		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)

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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 27

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	herniation		7 (14)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	peliosis-like lesion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	necrosis:central		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)	2 (4)	0 (0)	0 (0)
	necrosis:focal		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)
	fatty change:peripheral		0 (0)	1 (2)	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)
	degeneration:central		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		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)
	granulation		17 (34)	2 (4)	0 (0)	0 (0)	18 (36)	1 (2)	0 (0)	0 (0)	9 (18)	2 (4)	0 (0)	0 (0)	10 (20)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 28

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	inflammatory cell nest		2	0	0	0	0	2	0	0	6	1	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(12)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	clear cell focus		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)	(6)	(0)	(0)	(0)
	acidophilic cell focus		5	1	0	0	11	1	0	0	6	1	0	0	11	0	0	0
		(10)	(2)	(0)	(0)	(22)	(2)	(0)	(0)	(12)	(2)	(0)	(0)	(22)	(0)	(0)	(0)	
	basophilic cell focus		28	0	0	0	33	1	0	0	25	0	0	0	24	0	0	0
			(56)	(0)	(0)	(0)	(66)	(2)	(0)	(0)	(50)	(0)	(0)	(0)	(48)	(0)	(0)	(0)
	mixed cell focus		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)
	spongiosis hepatitis		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)
	bile duct hyperplasia		19	3	0	0	18	5	0	0	28	1	0	0	27	0	0	0
			(38)	(6)	(0)	(0)	(36)	(10)	(0)	(0)	(56)	(2)	(0)	(0)	(54)	(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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 29

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				160 ppm 50				800 ppm 50				4000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver	cholangiofibrosis		<50>				<50>				<50>				<50>			
		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)
	hepatocellular hypertrophy:central		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)
pancreas	atrophy		<50>				<50>				<50>				<50>			
		1 (2)	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)	0 (0)
(Urinary system)																		
kidney	cyst		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	scar		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 30

Organ	Findings	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																	
kidney																	
	fatty metamorphosis	<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)
	chronic nephropathy	16	3	1	0	19	6	3	0	27	8	3	1 **	1	1	1	46 **
		(32)	(6)	(2)	(0)	(38)	(12)	(6)	(0)	(54)	(16)	(6)	(2)	(2)	(2)	(2)	(92)
	tubular necrosis	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)
	mineralization:pelvis	0	0	0	0	0	0	0	0	2	0	0	0	4	2	0	0 *
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(4)	(0)	(0)
	dilatation:tubular lumen	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:tubule	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis	1	0	0	0	0	0	0	0	0	2	0	0	30	2	0	0 **
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(60)	(4)	(0)	(0)
	dilated pelvis	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 31

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	50				50				50				50			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Urinary system)																		
kidney	inflammation:pelvis	<50>				<50>				<50>				<50>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
urin bladd	dilatation	<50>				<50>				<50>				<50>				
		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)	4 (8)	0 (0)	0 (0)	
(Endocrine system)																		
pituitary	angiectasis	<50>				<50>				<50>				<50>				
		3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	
	cyst	16 (32)	0 (0)	3 (6)	0 (0)	20 (40)	2 (4)	1 (2)	0 (0)	12 (24)	3 (6)	2 (4)	0 (0)	8 (16)	3 (6)	1 (2)	0 (0)	
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	degeneration	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)	
		8 (16)	5 (10)	2 (4)	0 (0)	14 (28)	6 (12)	1 (2)	0 (0)	13 (26)	5 (10)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	
	hyperplasia	8 (16)	5 (10)	2 (4)	0 (0)	14 (28)	6 (12)	1 (2)	0 (0)	13 (26)	5 (10)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)	

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
< a > a : Number of animals examined at the site
b 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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 32

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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>				<50>				<50>				<50>				
	Rathke pouch		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)	0 (0)
thyroid			<50>				<50>				<50>				<50>				
	C-cell hyperplasia		17 (34)	7 (14)	1 (2)	0 (0)	18 (36)	5 (10)	0 (0)	0 (0)	23 (46)	7 (14)	1 (2)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 ** (0)
parathyroid			<50>				<50>				<50>				<50>				
	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)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal			<50>				<50>				<50>				<50>				
	angiectasis		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)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0)	0 ** (0)
	peliosis-like lesion		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)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 33

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Endocrine system)																		
adrenal			<50>				<50>				<50>				<50>			
	extramedullary hematopoiesis		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)	0 (0)
	hyperplasia:cortical cell		4 (8)	2 (4)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		2 (4)	1 (2)	0 (0)	0 (0)	6 (12)	0 (0)	1 (2)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		5 (10)	0 (0)	0 (0)	0 (0)	8 (16)	1 (2)	0 (0)	0 (0)	7 (14)	2 (4)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	focal fatty change		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)
<hr/>																		
(Reproductive system)																		
ovary			<50>				<50>				<50>				<50>			
	cyst		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		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)

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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 34

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				160 ppm 50				800 ppm 50				4000 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Reproductive system)																		
ovary	hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
uterus	cyst		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	stromal hyperplasia		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)
		endometrial hyperplasia		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)
	cystic endometrial hyperplasia		10 (20)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 * (0)
	vagina	inflammation		<50>				<50>				<50>				<50>		
0 (0)			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
prep/cli gl	hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 35

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Nervous system)																		
brain			<50>				<50>				<50>				<50>			
	hemorrhage		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)
	gliosis		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)
	dilatation:cerebral ventricle		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)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	cataract		4 (8)	0 (0)	0 (0)	0 (0)	4 (8)	2 (4)	0 (0)	0 (0)	2 (4)	3 (6)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)
	retinal atrophy		14 (28)	7 (14)	0 (0)	0 (0)	10 (20)	2 (4)	3 (6)	0 (0)	2 (4)	0 (0)	3 (6)	0 (0)	3 (6)	0 (0)	1 (2)	0 (0)
	keratitis		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	2 (4)	0 (0)	6 (12)	12 (24)	1 (2)	0 (0)
	iritis		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	9 (18)	3 (6)	0 (0)	0 (0)	*

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 36

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	mineralization:cornea		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
Harder gl	degeneration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
		lymphocytic infiltration		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)
nasolacr d	inflammation		<50>				<50>				<50>				<50>			
		4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	
(Musculoskeletal system)																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		5 (10)	1 (2)	0 (0)	0 (0)	9 (18)	2 (4)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)	

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 37

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				160 ppm 50				800 ppm 50				4000 ppm 50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Body cavities)																					
mediastinum	inflammatory infiltration	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
peritoneum	inflammation	<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)

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)

BA1S5

TABLE L 5

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 16				160 ppm 11				800 ppm 8				4000 ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Integumentary system/appandage)																		
skin/app	scab		<16>				<11>				< 8>				<47>			
		0 (0)	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)	
(Respiratory system)																		
nasal cavit	thrombus		<16>				<11>				< 8>				<47>			
		3 (19)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 * (0)
	mineralization		7 (44)	0 (0)	0 (0)	0 (0)	5 (45)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	34 (72)	0 (0)	0 (0)	0 (0)
	rhinitis		0 (0)	0 (0)	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)
	eosinophilic change:olfactory epithelium		10 (63)	4 (25)	0 (0)	0 (0)	8 (73)	2 (18)	0 (0)	0 (0)	5 (63)	2 (25)	0 (0)	0 (0)	28 (60)	1 (2)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium		4 (25)	0 (0)	0 (0)	0 (0)	3 (27)	0 (0)	0 (0)	0 (0)	4 (50)	0 (0)	0 (0)	0 (0)	9 (19)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		1 (6)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavity			<16>				<11>				< 8>				<47>			
	inflammation:respiratory epithelium		2 (13)	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)
	respiratory metaplasia:gland		14 (88)	0 (0)	0 (0)	0 (0)	10 (91)	0 (0)	0 (0)	0 (0)	7 (88)	0 (0)	0 (0)	0 (0)	35 (74)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration:respiratory epithelium		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)
	brown pigment olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (9)	0 (0)	0 (0)	0 (0)
nasopharynx			<16>				<11>				< 8>				<47>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
larynx			<16>				<11>				< 8>				<47>			
	inflammation		1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		2 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				160 ppm 11				800 ppm 8				4000 ppm 47			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																	
larynx		<16>				<11>				< 8>				<47>			
	hyperplasia:epithelium	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)
trachea		<16>				<11>				< 8>				<47>			
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung		<16>				<11>				< 8>				<47>			
	congestion	3 (19)	0 (0)	0 (0)	0 (0)	2 (18)	1 (9)	0 (0)	0 (0)	2 (25)	1 (13)	0 (0)	0 (0)	12 (26)	0 (0)	0 (0)	0 (0)
	hemorrhage	2 (13)	1 (6)	1 (6)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	4 (9)	0 (0)	0 (0)	0 (0)
	edema	3 (19)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	1 (13)	0 (0)	0 (0)	21 (45)	2 (4)	0 (0)	0 (0)
	fibrosis:focal	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	35 (74)	1 (2)	0 (0)	0 ** (0)
	accumulation of foamy cells	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (19)	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. : 0759
ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<16>				<11>				< 8>				<47>			
	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	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)
	deposit of hemosiderin		1 (6)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	38 (81)	0 (0)	0 (0)	0 ** (0)
	granulation		1 (6)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		4 (25)	3 (19)	0 (0)	0 (0)	3 (27)	3 (27)	0 (0)	0 (0)	3 (38)	3 (38)	0 (0)	0 (0)	42 (89)	2 (4)	0 (0)	0 ** (0)
	myelofibrosis		0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
lymph node			<16>				<11>				< 8>				<47>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen			<16>				<11>				< 8>				<47>			
	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<16>				<11>				< 8>				<47>			
	deposit of hemosiderin		1 (6)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fibrosis:focal		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)
	extramedullary hematopoiesis		5 (31)	1 (6)	3 (19)	0 (0)	2 (18)	3 (27)	2 (18)	0 (0)	1 (13)	0 (0)	3 (38)	0 (0)	23 (49)	9 (19)	2 (4)	0 (0)
(Circulatory system)																		
heart			<16>				<11>				< 8>				<47>			
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		9 (56)	0 (0)	0 (0)	0 (0)	6 (55)	0 (0)	0 (0)	0 (0)	7 (88)	0 (0)	0 (0)	0 (0)	33 (70)	9 (19)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

		Group Name No. of Animals on Study	Control 16				160 ppm 11				800 ppm 8				4000 ppm 47			
Organ_____	Findings_____	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Circulatory system)																		
artery/aort			<16>				<11>				< 8>				<47>			
	mineralization:pulmonary artery		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
tongue			<16>				<11>				< 8>				<47>			
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach			<16>				<11>				< 8>				<47>			
	ulcer:forestomach		0 (0)	1 (6)	2 (13)	0 (0)	0 (0)	1 (9)	1 (9)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)
	hyperplasia:forestomach		1 (6)	0 (0)	0 (0)	0 (0)	2 (18)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		2 (13)	1 (6)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		2 (13)	1 (6)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Digestive system)																		
stomach			<16>				<11>				< 8>				<47>			
	hemorrhage:glandular stomach		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:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	17 (36)	7 (15)	3 (6)	0 ** (0)	
small intes			<16>				<11>				< 8>				<47>			
	inflammatory 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)
liver			<16>				<11>				< 8>				<47>			
	herniation		3 (19)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)
	necrosis:central		2 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade				Control 16				160 ppm 11				800 ppm 8				4000 ppm 47			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)				
(Digestive system)																					
liver		<16>				<11>				< 8>				<47>							
	degeneration:central	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)				
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)				
	granulation	3 (19)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (21)	1 (2)	0 (0)	0 (0)				
	inflammatory cell nest	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)				
	extramedullary hematopoiesis	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)				
	clear cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)				
	acidophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (21)	0 (0)	0 (0)	0 (0)				
basophilic cell focus	4 (25)	0 (0)	0 (0)	0 (0)	6 (55)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	21 (45)	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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control No. of Animals on Study Grade				160 ppm 11				800 ppm 8				4000 ppm 47			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
liver		<16>				<11>				< 8>				<47>			
	mixed cell focus	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)
	spongiosis hepatitis	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)
	bile duct hyperplasia	6	2	0	0	2	1	0	0	2	1	0	0	27	0	0	0 *
		(38)	(13)	(0)	(0)	(18)	(9)	(0)	(0)	(25)	(13)	(0)	(0)	(57)	(0)	(0)	(0)
pancreas		<16>				<11>				< 8>				<47>			
	atrophy	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
(Urinary system)																	
kidney		<16>				<11>				< 8>				<47>			
	inflammatory infiltration	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	fatty metamorphosis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 24

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 16				160 ppm 11				800 ppm 8				4000 ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney			<16>				<11>				< 8>				<47>			
	chronic nephropathy		3 (19)	1 (6)	1 (6)	0 (0)	5 (45)	0 (0)	0 (0)	0 (0)	3 (38)	2 (25)	0 (0)	1 (13)	1 (2)	1 (2)	1 (2)	43 ** (91)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	dilatation:tubular lumen		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:tubule		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)
	urothelial hyperplasia:pelvis		1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	27 (57)	2 (4)	0 (0)	0 ** (0)
	dilated pelvis		0 (0)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
urin bladd			<16>				<11>				< 8>				<47>			
	dilatation		0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (9)	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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 25

Organ	Findings	Control No. of Animals on Study Grade				160 ppm 11				800 ppm 8				4000 ppm 47			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																	
pituitary		<16>				<11>				< 8>				<47>			
	angiectasis	1 (6)	1 (6)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
	cyst	2 (13)	0 (0)	1 (6)	0 (0)	3 (27)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	7 (15)	3 (6)	1 (2)	0 (0)
	degeneration	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)
	hyperplasia	1 (6)	1 (6)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	5 (11)	1 (2)	0 (0)	0 (0)
	Rathke pouch	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)
thyroid		<16>				<11>				< 8>				<47>			
	C-cell hyperplasia	2 (13)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
parathyroid		<16>				<11>				< 8>				<47>			
	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)

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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 26

Organ	Findings	Control No. of Animals on Study Grade				160 ppm 11				800 ppm 8				4000 ppm 47			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																	
adrenal		<16>				<11>				< 8>				<47>			
	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	15 (32)	0 (0)	0 (0)	0 * (0)
	peliosis-like lesion	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)
	extramedullary hematopoiesis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex	2 (13)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)

(Reproductive system)

ovary		<16>				<11>				< 8>				<47>			
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 27

Organ	Findings	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
uterus			<16>				<11>				< 8>				<47>			
	cyst		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	stromal 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)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
vagina			<16>				<11>				< 8>				<47>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
(Nervous system)																		
brain			<16>				<11>				< 8>				<47>			
	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)
	gliosis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
Grade	1+ : Slight	2+ : Moderate	3+ : Marked	4+ : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 28

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	16				11				8				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Nervous system)																		
brain			<16>				<11>				< 8>				<47>			
	dilatation:cerebral ventricle		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(13)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
eye			<16>				<11>				< 8>				<47>			
	cataract		1	0	0	0	1	0	0	0	0	1	0	0	5	1	0	0
			(6)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(11)	(2)	(0)	(0)
	retinal atrophy		2	1	0	0	1	1	0	0	1	0	1	0	2	0	1	0
			(13)	(6)	(0)	(0)	(9)	(9)	(0)	(0)	(13)	(0)	(13)	(0)	(4)	(0)	(2)	(0)
	keratitis		1	0	0	0	0	0	0	0	1	0	1	0	6	11	1	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(13)	(0)	(13)	(23)	(2)	(0)
	iritis		1	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(15)	(6)	(0)	(0)
	mineralization:cornea		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)
Harder gl			<16>				<11>				< 8>				<47>			
	inflammatory infiltration		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. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 29

Organ	Findings	Group Name No. of Animals on Study Grade	Control 16				160 ppm 11				800 ppm 8				4000 ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Special sense organs/appendage)																		
Harder gl	lymphocytic infiltration		<16>				<11>				< 8>				<47>			
		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)	
nasolacr d	inflammation		<16>				<11>				< 8>				<47>			
		2 (13)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (9)	0 (0)	0 (0)	0 (0)	
(Musculoskeletal system)																		
bone	osteosclerosis		<16>				<11>				< 8>				<47>			
		2 (13)	0 (0)	0 (0)	0 (0)	3 (27)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (19)	1 (2)	0 (0)	0 (0)	
(Body cavities)																		
mediastinum	inflammatory infiltration		<16>				<11>				< 8>				<47>			
		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)	
peritoneum	inflammation		<16>				<11>				< 8>				<47>			
		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

TABLE L 6

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: SACRIFICED ANIMALS

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name No. of Animals on Study Grade				Control 34				160 ppm 39				800 ppm 42				4000 ppm 3			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)				
(Integumentary system/appandage)																					
skin/app		<34>				<39>				<42>				< 3>							
	squamous cell hyperplasia	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)				
	scab	0 (0)	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 (33)	0 (0)	0 (0)				
(Respiratory system)																					
nasal cavit		<34>				<39>				<42>				< 3>							
	mineralization	23 (68)	0 (0)	0 (0)	0 (0)	20 (51)	0 (0)	0 (0)	0 (0)	31 (74)	0 (0)	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)				
	eosinophilic change:olfactory epithelium	21 (62)	12 (35)	0 (0)	0 (0)	19 (49)	20 (51)	0 (0)	0 (0)	23 (55)	19 (45)	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)				
	eosinophilic change:respiratory epithelium	14 (41)	0 (0)	0 (0)	0 (0)	23 (59)	0 (0)	0 (0)	0 (0)	23 (55)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)				
	inflammation:foreign body	1 (3)	1 (3)	1 (3)	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:respiratory epithelium	8 (24)	0 (0)	0 (0)	0 (0)	9 (23)	0 (0)	0 (0)	0 (0)	6 (14)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		Grade	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<34>				<39>				<42>				< 3>			
	respiratory metaplasia:gland		33 (97)	0 (0)	0 (0)	0 (0)	39 (100)	0 (0)	0 (0)	0 (0)	42 (100)	0 (0)	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional epithelium		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)
	inflammatory infiltration:respiratory epithelium		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)
	brown pigment olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (24)	0 (0)	0 (0)	0 (0) **	2 (67)	0 (0)	0 (0)	0 (0) **	
larynx			<34>				<39>				<42>				< 3>			
	inflammation		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)
	inflammatory infiltration		1 (3)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung			<34>				<39>				<42>				< 3>			
	congestion		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 17

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm				
		No. of Animals on Study	34				39				42				3				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Respiratory system)																			
lung			<34>				<39>				<42>				< 3>				
	hemorrhage		0 (0)	0 (0)	0 (0)	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)
	edema		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 (33)	1 (33)	0 (0)	0 ** (0)	
	inflammatory infiltration		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)	
	fibrosis:focal		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 (33)	0 (0)	0 (0)	0 (0)	
	accumulation of foamy cells		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	bronchiolar-alveolar cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	
	inflammation:foreign body		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)	
(Hematopoietic system)																			
bone marrow			<34>				<39>				<42>				< 3>				
	deposit of hemosiderin		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 (33)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name	Control				160 ppm				800 ppm				4000 ppm						
		No. of Animals on Study	34					39					42					3			
		Grade	1+	2+	3+	4+		1+	2+	3+	4+		1+	2+	3+	4+		1+	2+	3+	4+
			(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)
(Hematopoietic system)																					
bone marrow			<34>				<39>				<42>				< 3>						
	granulation		1 (3)	2 (6)	0 (0)	0 (0)		2 (5)	0 (0)	0 (0)	0 (0)		0 (0)	2 (5)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		5 (15)	1 (3)	0 (0)	0 (0)		3 (8)	0 (0)	0 (0)	0 (0)		4 (10)	1 (2)	0 (0)	0 (0)		3 (100)	0 (0)	0 (0)	0 ** (0)
spleen			<34>				<39>				<42>				< 3>						
	congestion		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)
	deposit of hemosiderin		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)
	extramedullary hematopoiesis		21 (62)	7 (21)	0 (0)	0 (0)		26 (67)	4 (10)	1 (3)	0 (0)		25 (60)	9 (21)	1 (2)	0 (0)		1 (33)	2 (67)	0 (0)	0 (0)
(Circulatory system)																					
heart			<34>				<39>				<42>				< 3>						
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)		1 (3)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart			<34>				<39>				<42>				< 3>			
	myocardial fibrosis		13 (38)	0 (0)	0 (0)	0 (0)	14 (36)	0 (0)	0 (0)	0 (0)	16 (38)	0 (0)	0 (0)	0 (0)	2 (67)	0 (0)	0 (0)	0 (0)
	subendocardial fibrosis		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)
(Digestive system)																		
tongue			<34>				<39>				<42>				< 3>			
	lymphocytic infiltration		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)
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach			<34>				<39>				<42>				< 3>			
	ulcer:forestomach		1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)
	hyperplasia:forestomach		1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	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. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name	Control				160 ppm				800 ppm				4000 ppm					
		No. of Animals on Study	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Digestive system)																				
stomach			<34>					<39>					<42>					< 3>		
	erosion:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	3 (8)	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)
	ulcer:glandular stomach		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)	2 (67)	0 (0)	0 (0)	0 (0)	0 ** (0)
	hyperplasia:glandular stomach		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	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)
	inflammation:glandular stomach		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)
	change of location of chief cell		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)	
liver			<34>					<39>					<42>					< 3>		
	herniation		4 (12)	0 (0)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	12 (29)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	peliosis-like lesion		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 (33)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal		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)

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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Control No. of Animals on Study Grade				160 ppm 39				800 ppm 42				4000 ppm 3			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
liver		<34>				<39>				<42>				< 3>			
	fatty change:peripheral	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)
	lymphocytic infiltration	2 (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)
	granulation	14 (41)	2 (6)	0 (0)	0 (0)	17 (44)	1 (3)	0 (0)	0 (0)	9 (21)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	5 (12)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	clear cell focus	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)
	acidophilic cell focus	5 (15)	1 (3)	0 (0)	0 (0)	9 (23)	1 (3)	0 (0)	0 (0)	6 (14)	1 (2)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)
	basophilic cell focus	24 (71)	0 (0)	0 (0)	0 (0)	27 (69)	1 (3)	0 (0)	0 (0)	24 (57)	0 (0)	0 (0)	0 (0)	3 (100)	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. : 0759
 ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 34				160 ppm 39				800 ppm 42				4000 ppm 3			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<34>				<39>				<42>				< 3>			
	bile duct hyperplasia		13 (38)	1 (3)	0 (0)	0 (0)	16 (41)	4 (10)	0 (0)	0 (0)	26 (62)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cholangiofibrosis		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)	0 (0)	0 (0)	0 (0)
	hepatocellular hypertrophy:central		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)
pancreas			<34>				<39>				<42>				< 3>			
	atrophy		1 (3)	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)
(Urinary system)																		
kidney			<34>				<39>				<42>				< 3>			
	cyst		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)
	scar		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<34>				<39>				<42>				< 3>			
	chronic nephropathy		13 (38)	2 (6)	0 (0)	0 (0)	14 (36)	6 (15)	3 (8)	0 (0)	24 (57)	6 (14)	3 (7)	0 * (0)	0 (0)	0 (0)	0 (0)	3 ** (100)
	tubular necrosis		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)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (33)	1 (33)	0 (0)	0 ** (0)
	mineralization:tubule		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 (33)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)	0 ** (0)
(Endocrine system)																		
pituitary			<34>				<39>				<42>				< 3>			
	angiectasis		2 (6)	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)
	cyst		14 (41)	0 (0)	2 (6)	0 (0)	17 (44)	2 (5)	1 (3)	0 (0)	10 (24)	3 (7)	2 (5)	0 (0)	1 (33)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
pituitary			<34>				<39>				<42>				< 3>			
	hyperplasia		7 (21)	4 (12)	2 (6)	0 (0)	13 (33)	6 (15)	1 (3)	0 (0)	12 (29)	5 (12)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)
	Rathke pouch		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid			<34>				<39>				<42>				< 3>			
	C-cell hyperplasia		15 (44)	7 (21)	1 (3)	0 (0)	17 (44)	5 (13)	0 (0)	0 (0)	23 (55)	7 (17)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
parathyroid			<34>				<39>				<42>				< 3>			
	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)
adrenal			<34>				<39>				<42>				< 3>			
	angiectasis		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)
	peliosis-like lesion		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 (33)	0 (0)	0 (0)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	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. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal			<34>				<39>				<42>				< 3>			
	extramedullary hematopoiesis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		4 (12)	2 (6)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	6 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		2 (6)	1 (3)	0 (0)	0 (0)	6 (15)	0 (0)	1 (3)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		3 (9)	0 (0)	0 (0)	0 (0)	6 (15)	1 (3)	0 (0)	0 (0)	6 (14)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		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)
(Reproductive system)																		
ovary			<34>				<39>				<42>				< 3>			
	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)
	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 (33)	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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
uterus	endometrial hyperplasia		<34>				<39>				<42>				< 3>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic endometrial hyperplasia		9	0	0	0	8	0	0	0	4	0	0	0	1	0	0	0
			(26)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
prep/cli gl	hyperplasia		<34>				<39>				<42>				< 3>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Nervous system)																		
brain	gliosis		<34>				<39>				<42>				< 3>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
eye	cataract		<34>				<39>				<42>				< 3>			
		3	0	0	0	3	2	0	0	2	2	0	0	0	0	0	0	0
		(9)	(0)	(0)	(0)	(8)	(5)	(0)	(0)	(5)	(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. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 27

Organ_____	Findings_____	Group Name	Control				160 ppm				800 ppm				4000 ppm			
		No. of Animals on Study	34				39				42				3			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye			<34>				<39>				<42>				< 3>			
	retinal atrophy		12 (35)	6 (18)	0 (0)	0 (0)	9 (23)	1 (3)	3 (8)	0 * (0)	1 (2)	0 (0)	2 (5)	0 ** (0)	1 (33)	0 (0)	0 (0)	0 (0)
	keratitis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)
	iritis		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (67)	0 (0)	0 (0)	0 ** (0)
Harder gl			<34>				<39>				<42>				< 3>			
	degeneration		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasolacr d			<34>				<39>				<42>				< 3>			
	inflammation		2 (6)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Musculoskeletal system)																		
bone			<34>				<39>				<42>				< 3>			
	osteosclerosis		3 (9)	1 (3)	0 (0)	0 (0)	6 (15)	2 (5)	0 (0)	0 (0)	6 (14)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

TABLE M 1

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
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	280 ppm	1400 ppm	7000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	1	0	1
	NO. OF ANIMALS WITH TUMORS		1	1	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	1	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	1	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	1	0	0
53 - 78	NO. OF EXAMINED ANIMALS		3	1	2	4
	NO. OF ANIMALS WITH TUMORS		3	0	1	3
	NO. OF ANIMALS WITH SINGLE TUMORS		2	0	0	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	1	2
	NO. OF BENIGN TUMORS		3	0	1	2
	NO. OF MALIGNANT TUMORS		1	0	1	3
	NO. OF TOTAL TUMORS		4	0	2	5
79 - 104	NO. OF EXAMINED ANIMALS		8	12	7	12
	NO. OF ANIMALS WITH TUMORS		8	12	7	12
	NO. OF ANIMALS WITH SINGLE TUMORS		1	3	2	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	9	5	6
	NO. OF BENIGN TUMORS		17	16	9	15
	NO. OF MALIGNANT TUMORS		6	8	7	3
	NO. OF TOTAL TUMORS		23	24	16	18
105 - 105	NO. OF EXAMINED ANIMALS		38	36	41	33
	NO. OF ANIMALS WITH TUMORS		38	36	41	33
	NO. OF ANIMALS WITH SINGLE TUMORS		7	9	4	20
	NO. OF ANIMALS WITH MULTIPLE TUMORS		31	27	37	13
	NO. OF BENIGN TUMORS		86	72	95	49
	NO. OF MALIGNANT TUMORS		4	10	16	3
	NO. OF TOTAL TUMORS		90	82	111	52

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
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	280 ppm	1400 ppm	7000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		50	49	49	48
	NO. OF ANIMALS WITH SINGLE TUMORS		11	13	6	27
	NO. OF ANIMALS WITH MULTIPLE TUMORS		39	36	43	21
	NO. OF BENIGN TUMORS		106	89	105	66
	NO. OF MALIGNANT TUMORS		12	18	24	9
	NO. OF TOTAL TUMORS		118	107	129	75

(HPT070)

BAIS5

TABLE M 2

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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	160 ppm	800 ppm	4000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	1
	NO. OF ANIMALS WITH TUMORS		0	0	0	1
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	1
	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	1
	NO. OF TOTAL TUMORS		0	0	0	1
53 - 78	NO. OF EXAMINED ANIMALS		1	2	2	1
	NO. OF ANIMALS WITH TUMORS		1	2	2	1
	NO. OF ANIMALS WITH SINGLE TUMORS		1	2	2	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	2	0	1
	NO. OF MALIGNANT TUMORS		1	0	2	0
	NO. OF TOTAL TUMORS		1	2	2	1
79 - 104	NO. OF EXAMINED ANIMALS		15	9	6	45
	NO. OF ANIMALS WITH TUMORS		15	9	6	16
	NO. OF ANIMALS WITH SINGLE TUMORS		9	8	3	10
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	1	3	6
	NO. OF BENIGN TUMORS		14	4	5	19
	NO. OF MALIGNANT TUMORS		8	6	4	3
	NO. OF TOTAL TUMORS		22	10	9	22
105 - 105	NO. OF EXAMINED ANIMALS		34	39	42	3
	NO. OF ANIMALS WITH TUMORS		26	29	30	3
	NO. OF ANIMALS WITH SINGLE TUMORS		16	18	19	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		10	11	11	0
	NO. OF BENIGN TUMORS		32	36	39	1
	NO. OF MALIGNANT TUMORS		7	8	9	2
	NO. OF TOTAL TUMORS		39	44	48	3

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
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	160 ppm	800 ppm	4000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		42	40	38	21
	NO. OF ANIMALS WITH SINGLE TUMORS		26	28	24	15
	NO. OF ANIMALS WITH MULTIPLE TUMORS		16	12	14	6
	NO. OF BENIGN TUMORS		46	42	44	21
	NO. OF MALIGNANT TUMORS		16	14	15	6
	NO. OF TOTAL TUMORS		62	56	59	27

(HPT070)

BAIS5

TABLE N 1

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: MALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	trichoepithelioma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
	keratoacanthoma		7 (14%)	2 (4%)	7 (14%)	1 (2%)
	sebaceous adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		4 (8%)	7 (14%)	7 (14%)	2 (4%)
	lipoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	schwannoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	fibrosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	sarcoma:NOS		0 (0%)	0 (0%)	1 (2%)	0 (0%)
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	adenoma		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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
(Respiratory system)						
lung	bronchiolar-alveolar adenoma		<50> 2 (4%)	<50> 3 (6%)	<50> 1 (2%)	<50> 1 (2%)
	bronchiolar-alveolar carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
(Hematopoietic system)						
lymph node	histiocytic sarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
spleen	hemangioma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	mononuclear cell leukemia		4 (8%)	6 (12%)	9 (18%)	6 (12%)
(Digestive system)						
oral cavity	squamous cell papilloma		<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
	squamous cell carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
esophagus	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
small intes	leiomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
liver	hepatocellular adenoma		<50> 3 (6%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
pancreas	islet cell adenoma		<50> 4 (8%)	<50> 2 (4%)	<50> 5 (10%)	<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. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
(Digestive system)						
pancreas	islet cell adenocarcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
(Urinary system)						
kidney	mesenchymoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
	renal cell carcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
urin bladd	transitional cell papilloma		<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
(Endocrine system)						
pituitary	adenoma		<50> 15 (30%)	<50> 17 (34%)	<50> 17 (34%)	<50> 0 (0%)
	adenocarcinoma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
thyroid	C-cell adenoma		<50> 14 (28%)	<50> 5 (10%)	<50> 12 (24%)	<50> 6 (12%)
	follicular adenoma		0 (0%)	1 (2%)	0 (0%)	3 (6%)
	C-cell carcinoma		2 (4%)	4 (8%)	5 (10%)	0 (0%)
	follicular adenocarcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
parathyroid	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
(Endocrine system)						
adrenal	pheochromocytoma		<50> 7 (14%)	<50> 4 (8%)	<50> 4 (8%)	<50> 0 (0%)
	pheochromocytoma:malignant		2 (4%)	1 (2%)	2 (4%)	0 (0%)
(Reproductive system)						
testis	interstitial cell tumor		<50> 41 (82%)	<50> 35 (70%)	<50> 43 (86%)	<50> 47 (94%)
mammary gl	fibroadenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)
prep/cli gl	adenoma		<50> 1 (2%)	<50> 2 (4%)	<50> 3 (6%)	<50> 3 (6%)
	preputial gland tumor:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
(Nervous system)						
brain	glioma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	meningioma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Special sense organs/appendage)						
Zymbal gl	Zymbal gland tumor:benign		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	Zymbal gland tumor:malignant		1 (2%)	0 (0%)	0 (0%)	1 (2%)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name No. of animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
<hr/>						
(Musculoskeletal system)						
bone			<50>	<50>	<50>	<50>
	osteoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
(Body cavities)						
peritoneum			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	mesothelioma		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)

BA1S5

TABLE N 2

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: FEMALE

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	160 ppm 50	800 ppm 50	4000 ppm 50
(Integumentary system/appandage)						
skin/app	schwannoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	keratoacanthoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
subcutis	fibroma		<50> 1 (2%)	<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)
	leiomyosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	schwannoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Hematopoietic system)						
spleen	mononuclear cell leukemia		<50> 6 (12%)	<50> 5 (10%)	<50> 4 (8%)	<50> 2 (4%)
(Digestive system)						
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
small intes	leiomyosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
	histiocytic sarcoma		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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	160 ppm 50	800 ppm 50	4000 ppm 50
(Digestive system)						
liver			<50>	<50>	<50>	<50>
	hepatocellular carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		0 (0%)	0 (0%)	2 (4%)	0 (0%)
(Urinary system)						
kidney			<50>	<50>	<50>	<50>
	sarcoma:NOS		0 (0%)	0 (0%)	1 (2%)	0 (0%)
(Endocrine system)						
pituitary			<50>	<50>	<50>	<50>
	adenoma		14 (28%)	17 (34%)	11 (22%)	0 (0%)
	adenocarcinoma		0 (0%)	1 (2%)	2 (4%)	0 (0%)
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		5 (10%)	6 (12%)	7 (14%)	0 (0%)
	C-cell carcinoma		0 (0%)	1 (2%)	2 (4%)	0 (0%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	pheochromocytoma:malignant		2 (4%)	1 (2%)	0 (0%)	0 (0%)
(Reproductive system)						
ovary			<50>	<50>	<50>	<50>
	granulosa cell tumor:benign		0 (0%)	0 (0%)	1 (2%)	0 (0%)

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

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	160 ppm 50	800 ppm 50	4000 ppm 50
(Reproductive system)						
ovary			<50>	<50>	<50>	<50>
	granulosa cell tumor:malignant		1 (2%)	0 (0%)	0 (0%)	1 (2%)
uterus			<50>	<50>	<50>	<50>
	endometrial stromal polyp		7 (14%)	7 (14%)	6 (12%)	5 (10%)
	adenocarcinoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	histiocytic sarcoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	endometrial stromal sarcoma		2 (4%)	3 (6%)	2 (4%)	0 (0%)
vagina			<50>	<50>	<50>	<50>
	polyp		0 (0%)	0 (0%)	1 (2%)	0 (0%)
mammary gl			<50>	<50>	<50>	<50>
	adenoma		1 (2%)	1 (2%)	0 (0%)	1 (2%)
	fibroadenoma		11 (22%)	7 (14%)	14 (28%)	7 (14%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		3 (6%)	0 (0%)	0 (0%)	2 (4%)
(Special sense organs/appendage)						
Zymbal gl			<50>	<50>	<50>	<50>
	Zmbal gland tumor:benign		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	Zymbal gland tumor:malignant		0 (0%)	0 (0%)	2 (4%)	1 (2%)
(Musculoskeletal system)						
muscle			<50>	<50>	<50>	<50>
	rhabdomyosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)

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

STUDY NO. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ_____	Findings_____	Group Name No. of animals on Study	Control 50	160 ppm 50	800 ppm 50	4000 ppm 50
(Musculoskeletal system)						
cartilage			<50>	<50>	<50>	<50>
	chondroma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Body cavities)						
peritoneum			<50>	<50>	<50>	<50>
	lipoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	neuroendocrine cell tumor:benign		1 (2%)	0 (0%)	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)

BA1S5

TABLE O 1

NEOPLASTIC LESIONS-INCIDENCE AND
STATISTICAL ANALYSIS: MALE

STUDY No. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : skin/appendage TUMOR : keratoacanthoma				
Tumor rate				
Overall rates (a)	7/50 (14. 0)	2/50 (4. 0)	7/50 (14. 0)	1/50 (2. 0)
Adjusted rates (b)	15. 56	5. 56	15. 91	3. 03
Terminal rates (c)	5/38 (13. 2)	2/36 (5. 6)	5/41 (12. 2)	1/33 (3. 0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9651			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0809			
Fisher Exact test (e)		P = 0. 0798	P = 0. 6129	P = 0. 0297*
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates (a)	4/50 (8. 0)	7/50 (14. 0)	7/50 (14. 0)	2/50 (4. 0)
Adjusted rates (b)	10. 53	13. 89	17. 07	6. 06
Terminal rates (c)	4/38 (10. 5)	5/36 (13. 9)	7/41 (17. 1)	2/33 (6. 1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 8093			
Prevalence method (d)	P = 0. 8450			
Combined analysis (d)	P = 0. 9049			
Cochran-Armitage test (e)	P = 0. 1428			
Fisher Exact test (e)		P = 0. 2623	P = 0. 2623	P = 0. 3389
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates (a)	4/50 (8. 0)	7/50 (14. 0)	8/50 (16. 0)	2/50 (4. 0)
Adjusted rates (b)	10. 53	13. 89	18. 60	6. 06
Terminal rates (c)	4/38 (10. 5)	5/36 (13. 9)	7/41 (17. 1)	2/33 (6. 1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 8093			
Prevalence method (d)	P = 0. 8759			
Combined analysis (d)	P = 0. 9243			
Cochran-Armitage test (e)	P = 0. 1345			
Fisher Exact test (e)		P = 0. 2623	P = 0. 1783	P = 0. 3389

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	3/50 (6.0)	1/50 (2.0)	1/50 (2.0)
Adjusted rates (b)	5.26	8.33	2.44	2.78
Terminal rates (c)	2/38 (5.3)	3/36 (8.3)	1/41 (2.4)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.7595			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.4198			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	3/50 (6.0)	2/50 (4.0)	1/50 (2.0)
Adjusted rates (b)	5.26	8.33	2.44	2.78
Terminal rates (c)	2/38 (5.3)	3/36 (8.3)	1/41 (2.4)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3109			
Prevalence method (d)	P = 0.7595			
Combined analysis (d)	P = 0.7742			
Cochran-Armitage test (e)	P = 0.3928			
Fisher Exact test (e)		P = 0.5000	P = 0.6913	P = 0.5000
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	4/50 (8.0)	6/50 (12.0)	9/50 (18.0)	6/50 (12.0)
Adjusted rates (b)	2.63	8.33	14.63	6.06
Terminal rates (c)	1/38 (2.6)	3/36 (8.3)	6/41 (14.6)	2/33 (6.1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2982			
Prevalence method (d)	P = 0.5195			
Combined analysis (d)	P = 0.3700			
Cochran-Armitage test (e)	P = 0.8784			
Fisher Exact test (e)		P = 0.3703	P = 0.1168	P = 0.3703

STUDY No. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS--INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	0/50 (0.0)	0/50 (0.0)	2/50 (4.0)
Adjusted rates (b)	6.67	0.0	0.0	6.06
Terminal rates (c)	1/38 (2.6)	0/36 (0.0)	0/41 (0.0)	2/33 (6.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.2841			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.6151			
Fisher Exact test (e)		P = 0.1212	P = 0.1212	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	2/50 (4.0)	5/50 (10.0)	0/50 (0.0)
Adjusted rates (b)	10.53	5.56	12.20	0.0
Terminal rates (c)	4/38 (10.5)	2/36 (5.6)	5/41 (12.2)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9662			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0746			
Fisher Exact test (e)		P = 0.3389	P = 0.5000	P = 0.0587
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	3/50 (6.0)	6/50 (12.0)	0/50 (0.0)
Adjusted rates (b)	10.53	8.33	14.63	0.0
Terminal rates (c)	4/38 (10.5)	3/36 (8.3)	6/41 (14.6)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9756			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0552			
Fisher Exact test (e)		P = 0.5000	P = 0.3703	P = 0.0587

STUDY No. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	15/50 (30.0)	17/50 (34.0)	17/50 (34.0)	0/50 (0.0)
Adjusted rates (b)	28.95	39.47	36.59	0.0
Terminal rates (c)	11/38 (28.9)	14/36 (38.9)	15/41 (36.6)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9652			
Prevalence method (d)	P = 1.0000			
Combined analysis (d)	P = 1.0000			
Cochran-Armitage test (e)	P < 0.0001**			
Fisher Exact test (e)		P = 0.4152	P = 0.4152	P < 0.0001**
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	15/50 (30.0)	19/50 (38.0)	17/50 (34.0)	0/50 (0.0)
Adjusted rates (b)	28.95	39.47	36.59	0.0
Terminal rates (c)	11/38 (28.9)	14/36 (38.9)	15/41 (36.6)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9847			
Prevalence method (d)	P = 1.0000			
Combined analysis (d)	P = 1.0000			
Cochran-Armitage test (e)	P < 0.0001**			
Fisher Exact test (e)		P = 0.2634	P = 0.4152	P < 0.0001**
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	14/50 (28.0)	5/50 (10.0)	12/50 (24.0)	6/50 (12.0)
Adjusted rates (b)	34.21	13.89	26.83	18.18
Terminal rates (c)	13/38 (34.2)	5/36 (13.9)	11/41 (26.8)	6/33 (18.2)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.8524			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.1973			
Fisher Exact test (e)		P = 0.0198*	P = 0.4100	P = 0.0392*

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : thyroid TUMOR : follicular adenoma				
Tumor rate				
Overall rates (a)	0/50 (0.0)	1/50 (2.0)	0/50 (0.0)	3/50 (6.0)
Adjusted rates (b)	0.0	2.78	0.0	7.32
Terminal rates (c)	0/38 (0.0)	1/36 (2.8)	0/41 (0.0)	2/33 (6.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0224*			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0249*			
Fisher Exact test (e)		P = 0.5000	P = N. C.	P = 0.1212
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	4/50 (8.0)	5/50 (10.0)	0/50 (0.0)
Adjusted rates (b)	5.00	11.11	12.20	0.0
Terminal rates (c)	1/38 (2.6)	4/36 (11.1)	5/41 (12.2)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9696			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0851			
Fisher Exact test (e)		P = 0.3389	P = 0.2180	P = 0.2475
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	16/50 (32.0)	9/50 (18.0)	17/50 (34.0)	6/50 (12.0)
Adjusted rates (b)	37.50	25.00	39.02	18.18
Terminal rates (c)	14/38 (36.8)	9/36 (25.0)	16/41 (39.0)	6/33 (18.2)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9716			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0365*			
Fisher Exact test (e)		P = 0.0826	P = 0.5000	P = 0.0142*

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : thyroid TUMOR : follicular adenoma, follicular adenocarcinoma				
Tumor rate				
Overall rates (a)	0/50 (0.0)	1/50 (2.0)	1/50 (2.0)	3/50 (6.0)
Adjusted rates (b)	0.0	2.78	2.44	7.32
Terminal rates (c)	0/38 (0.0)	1/36 (2.8)	1/41 (2.4)	2/33 (6.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0433*			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0590			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.1212
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates (a)	7/50 (14.0)	4/50 (8.0)	4/50 (8.0)	0/50 (0.0)
Adjusted rates (b)	18.42	8.51	9.30	0.0
Terminal rates (c)	7/38 (18.4)	2/36 (5.6)	3/41 (7.3)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9978			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0145*			
Fisher Exact test (e)		P = 0.2623	P = 0.2623	P = 0.0062**
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	9/50 (18.0)	5/50 (10.0)	6/50 (12.0)	0/50 (0.0)
Adjusted rates (b)	18.42	10.64	13.95	0.0
Terminal rates (c)	7/38 (18.4)	3/36 (8.3)	5/41 (12.2)	0/33 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8850			
Prevalence method (d)	P = 0.9984			
Combined analysis (d)	P = 0.9994			
Cochran-Armitage test (e)	P = 0.0053**			
Fisher Exact test (e)		P = 0.1940	P = 0.2883	P = 0.0013**

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates (a)	41/50 (82. 0)	35/50 (70. 0)	43/50 (86. 0)	47/50 (94. 0)
Adjusted rates (b)	89. 47	78. 38	95. 35	100. 00
Terminal rates (c)	34/38 (89. 5)	28/36 (77. 8)	39/41 (95. 1)	33/33 (100. 0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 0001**			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0101*			
Fisher Exact test (e)		P = 0. 1207	P = 0. 3929	P = 0. 0606
SITE : preputial/clitoral gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	1/50 (2. 0)	2/50 (4. 0)	3/50 (6. 0)	3/50 (6. 0)
Adjusted rates (b)	2. 17	2. 78	7. 32	6. 82
Terminal rates (c)	0/38 (0. 0)	1/36 (2. 8)	3/41 (7. 3)	2/33 (6. 1)
Statistical analysis				
Peto test				
Standard method (d)	P = 1. 0000 ?			
Prevalence method (d)	P = 0. 1473			
Combined analysis (d)	P = 0. 2157			
Cochran-Armitage test (e)	P = 0. 4539			
Fisher Exact test (e)		P = 0. 5000	P = 0. 3087	P = 0. 3087
(HPT360A)				
BAIS5				

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	280 ppm	1400 ppm	7000 ppm
SITE : preputial/clitoral gland				
TUMOR : adenoma, preputial gland tumor:malignant				
Tumor rate				
Overall rates (a)	1/50 (2.0)	2/50 (4.0)	4/50 (8.0)	3/50 (6.0)
Adjusted rates (b)	2.17	2.78	7.32	6.82
Terminal rates (c)	0/38 (0.0)	1/36 (2.8)	3/41 (7.3)	2/33 (6.1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.6666			
Prevalence method (d)	P = 0.1486			
Combined analysis (d)	P = 0.2502			
Cochran-Armitage test (e)	P = 0.5324			
Fisher Exact test (e)		P = 0.5000	P = 0.1811	P = 0.3087

(HPT360A)

BAIS5

- (a) : Number of tumor-bearing animals/number of animals examined at the site.
 (b) : Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c) : Observed tumor incidence at terminal kill.
 (d) : Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e) : The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C. : Statistical value cannot be calculated and was not significant.

TABLE O 2

**NEOPLASTIC LESIONS-INCIDENCE AND
STATISTICAL ANALYSIS: FEMALE**

STUDY No. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	160 ppm	800 ppm	4000 ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	6/50 (12.0)	5/50 (10.0)	4/50 (8.0)	2/50 (4.0)
Adjusted rates (b)	11.76	7.69	4.76	0.0
Terminal rates (c)	4/34 (11.8)	3/39 (7.7)	2/42 (4.8)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2506			
Prevalence method (d)	P = 0.8533			
Combined analysis (d)	P = 0.4131			
Cochran-Armitage test (e)	P = 0.1556			
Fisher Exact test (e)		P = 0.5000	P = 0.3703	P = 0.1343
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	14/50 (28.0)	17/50 (34.0)	11/50 (22.0)	0/50 (0.0)
Adjusted rates (b)	22.50	33.33	22.73	0.0
Terminal rates (c)	7/34 (20.6)	13/39 (33.3)	9/42 (21.4)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9879			
Prevalence method (d)	P = 0.9915			
Combined analysis (d)	P = 0.9996			
Cochran-Armitage test (e)	P < 0.0001**			
Fisher Exact test (e)		P = 0.3329	P = 0.3224	P < 0.0001**
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	14/50 (28.0)	18/50 (36.0)	13/50 (26.0)	0/50 (0.0)
Adjusted rates (b)	22.50	35.90	25.00	0.0
Terminal rates (c)	7/34 (20.6)	14/39 (35.9)	10/42 (23.8)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9848			
Prevalence method (d)	P = 0.9902			
Combined analysis (d)	P = 0.9994			
Cochran-Armitage test (e)	P < 0.0001**			
Fisher Exact test (e)		P = 0.2603	P = 0.5000	P < 0.0001**

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	160 ppm	800 ppm	4000 ppm
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	5/50 (10. 0)	6/50 (12. 0)	7/50 (14. 0)	0/50 (0. 0)
Adjusted rates (b)	11. 43	15. 38	15. 56	0. 0
Terminal rates (c)	3/34 (8. 8)	6/39 (15. 4)	6/42 (14. 3)	0/ 3 (0. 0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9555			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0163*			
Fisher Exact test (e)		P = 0. 5000	P = 0. 3798	P = 0. 0281*
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	5/50 (10. 0)	6/50 (12. 0)	9/50 (18. 0)	0/50 (0. 0)
Adjusted rates (b)	11. 43	15. 38	20. 00	0. 0
Terminal rates (c)	3/34 (8. 8)	6/39 (15. 4)	8/42 (19. 0)	0/ 3 (0. 0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9300			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0156*			
Fisher Exact test (e)		P = 0. 5000	P = 0. 1940	P = 0. 0281*
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates (a)	7/50 (14. 0)	7/50 (14. 0)	6/50 (12. 0)	5/50 (10. 0)
Adjusted rates (b)	17. 65	17. 95	14. 29	33. 33
Terminal rates (c)	6/34 (17. 6)	7/39 (17. 9)	6/42 (14. 3)	1/ 3 (33. 3)
Statistical analysis				
Peto test				
Standard method (d)	P = 1. 0000 ?			
Prevalence method (d)	P = 0. 0845			
Combined analysis (d)	P = 0. 1457			
Cochran-Armitage test (e)	P = 0. 5029			
Fisher Exact test (e)		P = 0. 6129	P = 0. 5000	P = 0. 3798

STUDY No. : 0759
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	160 ppm	800 ppm	4000 ppm
SITE : uterus TUMOR : endometrial stromal sarcoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	3/50 (6.0)	2/50 (4.0)	0/50 (0.0)
Adjusted rates (b)	2.94	2.56	2.38	0.0
Terminal rates (c)	1/34 (2.9)	1/39 (2.6)	1/42 (2.4)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8467			
Prevalence method (d)	P = 0.4699			
Combined analysis (d)	P = 0.8621			
Cochran-Armitage test (e)	P = 0.1173			
Fisher Exact test (e)		P = 0.5000	P = 0.6913	P = 0.2475
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates (a)	11/50 (22.0)	7/50 (14.0)	14/50 (28.0)	7/50 (14.0)
Adjusted rates (b)	29.41	17.50	30.95	16.67
Terminal rates (c)	10/34 (29.4)	6/39 (15.4)	13/42 (31.0)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1722			
Prevalence method (d)	P = 0.2276			
Combined analysis (d)	P = 0.1435			
Cochran-Armitage test (e)	P = 0.3762			
Fisher Exact test (e)		P = 0.2178	P = 0.3224	P = 0.2178
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates (a)	12/50 (24.0)	8/50 (16.0)	14/50 (28.0)	8/50 (16.0)
Adjusted rates (b)	32.35	20.00	30.95	18.42
Terminal rates (c)	11/34 (32.4)	7/39 (17.9)	13/42 (31.0)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1722			
Prevalence method (d)	P = 0.2347			
Combined analysis (d)	P = 0.1494			
Cochran-Armitage test (e)	P = 0.4158			
Fisher Exact test (e)		P = 0.2270	P = 0.4100	P = 0.2270

STUDY No. : 0759
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 12

Group Name	Control	160 ppm	800 ppm	4000 ppm
SITE : preputial/clitoral gland				
TUMOR : adenoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	0/50 (0.0)	0/50 (0.0)	2/50 (4.0)
Adjusted rates (b)	5.88	0.0	0.0	2.38
Terminal rates (c)	2/34 (5.9)	0/39 (0.0)	0/42 (0.0)	0/ 3 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1829			
Prevalence method (d)	P = 0.4388			
Combined analysis (d)	P = 0.2016			
Cochran-Armitage test (e)	P = 0.6151			
Fisher Exact test (e)		P = 0.1212	P = 0.1212	P = 0.5000

(HPT360A)

BAIS5

- (a): Number of tumor-bearing animals/number of animals examined at the site.
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c): Observed tumor incidence at terminal kill.
 (d): Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C. : Statistical value cannot be calculated and was not significant.

TABLE P 1

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	280 ppm 50	1400 ppm 50	7000 ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	2
subcutis			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	1
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	5	6	4
	metastasis:adrenal tumor		1	0	0	0
	metastasis:thyroid tumor		1	0	0	0
(Hematopoietic system)						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	3	7	3
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	3	3
	metastasis:subcutis tumor		0	0	1	0
(Circulatory system)						
heart			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	2	2	4
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Group Name		Control	280 ppm	1400 ppm	7000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
(Digestive system)					
stomach		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
small intes		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	1
liver		<50>	<50>	<50>	<50>
	leukemic cell infiltration	4	5	6	5
pancreas		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	2	1
(Urinary system)					
kidney		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	2	2	3
urin bladd		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
(Endocrine system)					
pituitary		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	3	0
adrenal		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	2	2	2
(Reproductive system)					
semin ves		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0759
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Group Name		Control	280 ppm	1400 ppm	7000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
(Reproductive system)					
prostate	leukemic cell infiltration	<50> 0	<50> 1	<50> 0	<50> 2
(Nervous system)					
brain	leukemic cell infiltration	<50> 1	<50> 1	<50> 0	<50> 1
	metastasis:pituitary tumor	0	2	0	0
spinal cord	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 1
(Special sense organs/appendage)					
Harder gl	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
(Musculoskeletal system)					
muscle	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
(Body cavities)					
peritoneum	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 2

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

TABLE P 2

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Group Name		Control	160 ppm	800 ppm	4000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
(Respiratory system)					
lung	leukemic cell infiltration	<50> 3	<50> 4	<50> 1	<50> 1
	metastasis:uterus tumor	0	1	0	0
	metastasis:subcutis tumor	0	0	0	1
(Hematopoietic system)					
bone marrow	leukemic cell infiltration	<50> 3	<50> 4	<50> 1	<50> 0
	metastasis:uterus tumor	<50> 1	<50> 1	<50> 0	<50> 0
(Circulatory system)					
heart	leukemic cell infiltration	<50> 1	<50> 1	<50> 1	<50> 0
(Digestive system)					
stomach	leukemic cell infiltration	<50> 0	<50> 1	<50> 0	<50> 0
small intes	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
liver	leukemic cell infiltration	<50> 5	<50> 5	<50> 2	<50> 0
	metastasis:uterus tumor	0	1	0	0
< a >		a : Number of animals examined at the site			
b		b : Number of animals with lesion			

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 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	160 ppm 50	800 ppm 50	4000 ppm 50
(Digestive system)						
liver			<50>	<50>	<50>	<50>
	metastasis:small intestine tumor		0	0	1	0
pancreas			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
	metastasis:uterus tumor		0	1	0	0
(Urinary system)						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	2	1	0
(Endocrine system)						
pituitary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	0	0
parathyroid			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
adrenal			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	2	0	0
(Reproductive system)						
ovary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	1	0
vagina			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		0	1	0	0
mammary 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					

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

PAGE : 6

Group Name		Control	160 ppm	800 ppm	4000 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
(Nervous system)					
brain		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	1	1	0
	metastasis:uterus tumor	1	0	0	0
	metastasis:pituitary tumor	0	1	2	0
spinal cord		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
(Special sense organs/appendage)					
eye		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
Harder gl		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	1	0
(Musculoskeletal system)					
muscle		<50>	<50>	<50>	<50>
	metastasis:subcutis tumor	1	0	0	0
(Body cavities)					
peritoneum		<50>	<50>	<50>	<50>
	metastasis:uterus tumor	0	2	0	0
	metastasis:kidney tumor	0	0	1	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

TABLE Q

HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC
LESIONS IN JAPAN BIOASSAY RESEARCH CENTER:
F344/DuCr1Cr1j MALE RATS

TABLE Q HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN
JAPAN BIOASSAY RESEARCH CENTER : F344Du/CrI/CrIj MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Thyroid	3041			
Follicular adenoma		28	0.9	0 - 4
Follicular carcinoma		39	1.3	0 - 8
Follicular adenoma + Follicular carcinoma		67	2.2	0 - 8
Testis	3047			
Interstitial cell tumor		2508	82.3	56 - 98

61 carcinogenicity studies examined in Japan Bioassay Research Center were used.

Study No. : 0043, 0059, 0061, 0063, 0065, 0067, 0095, 0104, 0115, 0130, 0141, 0158, 0162,
0189, 0205, 0210, 0224, 0242, 0246, 0267, 0269, 0278, 0284, 0288, 0294, 0296,
0318, 0328, 0342, 0347, 0365, 0371, 0396, 0399, 0401, 0407, 0417, 0421, 0437,
0448, 0457, 0461, 0497, 0535, 0560, 0579, 0581, 0610, 0612, 0641, 0667, 0675,
0684, 0686, 0691, 0704, 0711, 0731, 0739, 0753, 0774

TABLE R 1

CAUSE OF DEATH: MALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

COUSE OF DEATH (SUMMARY)
(0-105W)

PAGE : 1

Group Name	Control	280 ppm	1400 ppm	7000 ppm
Number of Dead and Moribund Animal	12	14	9	17
no microscop confirm	0	0	1	0
digestive sy les	0	1	0	0
cystitis	0	0	0	1
chronic nephropathy	1	0	0	10
tumor d:leukemia	3	3	3	4
tumor d:skin/app	0	0	1	0
tumor d:subcutis	0	2	1	0
tumor d:lung	0	0	1	0
tumor d:oral cavity	1	0	0	0
tumor d:small intes	0	0	0	1
tumor d:pituitary	3	4	1	0
tumor d:adrenal	2	0	0	0
tumor d:prep/cli gl	0	1	1	0
tumor d:brain	0	2	0	0
tumor d:Zymbal gl	1	0	0	1
tumor d:bone	1	0	0	0
tumor d:peritoneum	0	1	0	0

(B10120)

BA1S5

TABLE R 2

CAUSE OF DEATH: FEMALE

STUDY NO. : 0759
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : FEMALE

COUSE OF DEATH (SUMMARY)
(0-105W)

PAGE : 2

Group Name	Control	160 ppm	800 ppm	4000 ppm
Number of Dead and Moribund Animal	16	11	8	47
no microscop confirm	1	0	0	0
chronic nephropathy	0	0	0	40
tumor d:leukemia	2	2	2	2
tumor d:skin/app	0	0	0	1
tumor d:subcutis	2	1	0	0
tumor d:kidney	0	0	1	0
tumor d:pituitary	5	4	2	0
tumor d:adrenal	1	0	0	0
tumor d:uterus	3	4	1	0
tumor d:mammary gl	1	0	1	1
tumor d:prep/cli gl	1	0	0	1
tumor d:Zymbal gl	0	0	1	1
tumor d:muscle	0	0	0	1

(B10120)

BAIS5