

エチレングリコールモノエチルエーテルアセテートの
ラットを用いた吸入によるがん原性試験報告書

試験番号：0774

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TABLE A

CONCENTRATIONS OF

ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

IN THE INHALATION CHAMBER

OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
IN THE INHALATION CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.0 \pm 0.0
12 ppm	12.1 \pm 0.1
50 ppm	50.2 \pm 0.2
200 ppm	200.3 \pm 0.6

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
12ppm	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
50ppm	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
200ppm	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. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
12ppm	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
50ppm	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
200ppm	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)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [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	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0
	12ppm	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
	50ppm	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
	200ppm	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
Number of survival/ Number of effective animals			Survival rate(%)													

(HAN360)

BA1S5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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
12ppm	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
50ppm	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
200ppm	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)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [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
12ppm	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
50ppm	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	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
200ppm	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. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)		72	73	74	75	76	77	78	79	80	81	82	83
		70	71												
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	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
12ppm	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	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
50ppm	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
200ppm	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. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
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	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
12ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	46/50	46/50	45/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	92.0	92.0	90.0
50ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0
200ppm	50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50
		100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0

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

(HAN360)

BA1S5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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	48/50	48/50	46/50	46/50	45/50	45/50	45/50
		96.0	96.0	92.0	92.0	90.0	90.0	90.0
12ppm	50	45/50	45/50	44/50	44/50	41/50	41/50	40/50
		90.0	90.0	88.0	88.0	82.0	82.0	80.0
50ppm	50	47/50	47/50	47/50	44/50	44/50	43/50	43/50
		94.0	94.0	94.0	88.0	88.0	86.0	86.0
200ppm	50	48/50	48/50	48/50	48/50	48/50	47/50	47/50
		96.0	96.0	96.0	96.0	96.0	94.0	94.0
Number of survival/ Number of effective animals Survival rate(%)								

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TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
12ppm	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
50ppm	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
200ppm	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)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group Name	Animals At start	Administration (Weeks)		16	17	18	19	20	21	22	23	24	25	26	27
		14	15												
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
12ppm	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
50ppm	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
200ppm	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

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

(HAN360)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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
12ppm	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
50ppm	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
200ppm	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)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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	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
	12ppm	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
	50ppm	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
	200ppm	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
Number of survival/ Number of effective animals			Survival rate(%)													

(HAN360)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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
12ppm	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
50ppm	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
200ppm	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	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)

BA1S5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [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
	Control	50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	47/50	46/50
			100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	94.0
	12ppm	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
			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
	50ppm	50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50
			100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0
	200ppm	50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50
			98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0
Number of survival/ Number of effective animals			Survival rate(%)												

(HAN360)

BAIS5

STUDY NO. : 0774
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	46/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	44/50
		92.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.0
12ppm	50	49/50	49/50	48/50	48/50	47/50	45/50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	43/50
		98.0	98.0	96.0	96.0	94.0	90.0	90.0	90.0	88.0	88.0	88.0	88.0	88.0	86.0
50ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0
200ppm	50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50
		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BA1S5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [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	44/50	44/50	44/50	43/50	43/50	42/50	42/50
		88.0	88.0	88.0	86.0	86.0	84.0	84.0
12ppm	50	43/50	42/50	41/50	41/50	41/50	41/50	40/50
		86.0	84.0	82.0	82.0	82.0	82.0	80.0
50ppm	50	47/50	46/50	44/50	43/50	43/50	42/50	40/50
		94.0	92.0	88.0	86.0	86.0	84.0	80.0
200ppm	50	45/50	45/50	45/50	45/50	44/50	43/50	42/50
		90.0	90.0	90.0	90.0	88.0	86.0	84.0

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

(HAN360)

BAIS5

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j[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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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	
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	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	
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0774
 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		31-7	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												
DEATH	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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				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												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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	1		1	1	1	1	1	2	2	2	2	2	2
	12ppm	0	0	0		0	1	1	1	1	1	1	1	1	1	1
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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											
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	12ppm	1	1	1	1	1	1	1	1	1	1	3	3	3	3
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	200ppm	0	1	1	1	1	1	1	1	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	2
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1

STUDY NO. : 0774
 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
DEATH	Control	2	4	4	5	5	5
	12ppm	3	3	3	4	4	5
	50ppm	2	2	4	4	5	5
	200ppm	2	2	2	2	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0
	12ppm	2	3	3	5	5	5
	50ppm	1	1	2	2	2	2
	200ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	1	1	1	0
	200ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	1	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	1	0
	200ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	1	0	0	0	0
	200ppm	0	0	1	1	1	1

STUDY NO. : 0774
 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											
		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
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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											
		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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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											
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	2	2	2	2	2	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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				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												
CATARACT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	50ppm	0	0	0		0	0	1	1	1	1	1	1	2	2	2
	200ppm	3	3	3		3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	12ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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				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	1	0	0
	12ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	50ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3
	12ppm	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3
	50ppm	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1
	200ppm	1	1	1	2	2	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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			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	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	50ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	4	5	5	5	5	5	5	5	5	6	6	6	6	6
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	3	4	4	4	4	3	3	3	2	2	3
	12ppm	3	3	4	4	4	4	4	4	4	4	4	5	5	6
	50ppm	1	1	1	1	1	1	2	2	3	3	3	3	4	4
	200ppm	2	3	3	3	3	3	3	2	2	3	5	5	5	5
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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											
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	2	2	3	3	3	3	3	3	3	3	3	3	3	3
	50ppm	2	2	3	3	3	3	3	3	3	3	3	3	3	4
	200ppm	7	7	7	7	7	7	7	7	8	8	8	8	8	8
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	3	3	5	5	5	6	7	7	7	7	10
	12ppm	6	6	8	9	10	10	10	10	10	9	8	8	8	10
	50ppm	4	4	4	5	5	5	5	5	6	6	6	6	6	5
	200ppm	5	4	5	5	5	5	5	5	5	5	5	7	7	7
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	1	1	1	1	1	1	1	0	0	0
M. NOSE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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
CATARACT	Control	2	2	2	2	2	2
	12ppm	3	3	3	2	2	2
	50ppm	4	4	4	4	4	4
	200ppm	8	8	8	8	8	8
CORNEAL OPACITY	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	1	1	1
EXTERNAL MASS	Control	10	10	10	10	10	11
	12ppm	10	10	11	11	12	11
	50ppm	5	6	6	7	8	8
	200ppm	7	7	7	8	8	8
INTERNAL MASS	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. NOSE	Control	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. MANDIBULAR	Control	2	2	2	1	1	1
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

STUDY NO. : 0774
 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		3-7	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												
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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		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												
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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	31-7											
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Crlj[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												
M. PERI EAR	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	1	1	1	1	1	1	2	2	2
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	1	1	1	1	1	1
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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
M. PERI EAR	Control	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	1	1	1	1	1	1	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	2	2	2	2	2	2	2	2	2	3	3	4	4	5
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	2	2	2	2	2	2	2	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	200ppm	0	0	0	0	0	0	0	0	0	0	2	2	2	2
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200ppm	1	2	2	2	2	2	2	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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											
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1
	12ppm	5	5	5	5	6	6	6	6	6	5	5	5	5	5
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. ABDOMEN	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	12ppm	0	0	2	2	2	2	2	2	2	2	2	2	2	2
	50ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	200ppm	2	1	1	1	1	1	1	1	1	1	1	2	2	2
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	1	2	2	2	2	2
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	50ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Crlj [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 EAR	Control	0	0	0	0	0	0
	12ppm	0	0	0	1	1	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1
	12ppm	5	5	4	4	4	4
	50ppm	0	1	1	1	2	2
	200ppm	2	2	2	2	2	2
M. ABDOMEN	Control	2	2	2	4	4	4
	12ppm	2	2	2	1	2	2
	50ppm	2	2	2	3	3	3
	200ppm	2	2	2	3	3	3
M. ANTERIOR DORSUM	Control	2	2	2	2	2	3
	12ppm	1	1	1	1	1	1
	50ppm	1	1	1	1	1	2
	200ppm	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1
	12ppm	0	0	1	1	2	2
	50ppm	1	1	1	1	1	0
	200ppm	1	1	1	1	1	1
M. HINDLIMB	Control	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration		Week-day											
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Crlj[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												
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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		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. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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				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. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Crij [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												
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration				Week-day										
		85-7	86-7	87-7		88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	0	0		0	0	0	0	0	0	0	0	0	0	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	1	1	1	1	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	1	0	0	0	0	1	1
RESPIRATORY SOUND ABNOR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 32

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. GENITALIA	Control	0	0	0	0	0	0
	12ppm	0	0	1	1	1	1
	50ppm	1	1	1	1	1	0
	200ppm	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	12ppm	0	0	1	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	1	1	1	1	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	1	1	1	1	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	12ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	50ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	200ppm	49	49	49	50	50	50	50	50	50	50	50	50	50	49

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	12ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	50ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	200ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 35

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											
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	49	49	49	49	49
	12ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	48
	50ppm	50	50	50	50	50	50	50	50	50	49	49	49	49	49
	200ppm	49	49	48	48	48	48	48	47	47	47	47	47	47	47

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	48
	12ppm	47	47	47	47	47	47	47	47	47	47	47	47	46	46
	50ppm	49	49	49	49	49	48	48	48	48	48	48	47	47	47
	200ppm	47	47	47	47	47	47	47	47	47	47	47	46	46	46

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 37

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											
NON REMARKABLE	Control	48	48	48	47	47	47	47	47	46	46	46	45	46	46
	12ppm	46	46	46	46	46	46	46	46	46	46	46	45	44	44
	50ppm	46	46	46	46	46	46	46	46	46	46	45	45	45	45
	200ppm	46	46	46	45	45	45	45	45	45	45	45	45	45	44

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 38

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											
NON REMARKABLE	Control	46	46	45	45	44	44	44	44	44	44	44	45	45	44
	12ppm	44	44	43	43	42	42	42	42	42	42	42	42	42	41
	50ppm	45	45	45	45	45	45	44	44	43	43	43	43	42	41
	200ppm	44	42	42	42	42	42	42	43	43	42	41	41	41	41

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 39

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
NON REMARKABLE	Control	44	44	44	44	44	42	42	42	41	40	40	40	40	38
	12ppm	41	42	40	39	38	38	38	38	38	38	36	36	36	33
	50ppm	40	40	39	38	38	38	38	38	37	37	37	37	36	36
	200ppm	40	40	39	38	38	38	36	36	36	35	35	34	34	34

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
NON REMARKABLE	Control	36	35	35	34	34	33
	12ppm	33	32	29	27	26	26
	50ppm	36	34	32	32	30	29
	200ppm	34	34	33	31	31	31

(HAN190)

BAIS 5

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 41

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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Crij [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												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1		1	1	1	1	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1
	12ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	1	3	2	2	2	4	0	0	0	0	0

STUDY NO. : 0774
 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			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	0	0	0	0	0	0	0	0	0	0	0	1	2	2
	12ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	1	1	1	1	1	2	2	2	2	2
	200ppm	1	2	2	2	2	2	2	2	2	2	3	3	4	4
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	1	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	0	0	0
	12ppm	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	50ppm	0	0	0	1	1	1	1	1	1	0	0	0	0	1
	200ppm	0	1	0	0	1	1	1	1	2	2	1	1	1	1

STUDY NO. : 0774
 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	2	2	2	2	3	3	3	3	3	3	3	3	4	4
	12ppm	1	2	2	3	5	5	5	5	5	5	5	5	6	6
	50ppm	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	200ppm	4	4	4	4	4	4	4	4	4	4	4	4	4	4
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	12ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	1	1	1	1	1	1	1	2	1	1	1	0	2	2
	50ppm	1	1	1	1	2	1	0	0	0	0	1	0	0	0
	200ppm	1	1	1	3	3	1	1	0	1	1	2	1	1	1

STUDY NO. : 0774
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					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	4	4	5	5	5	5
	12ppm	7	7	7	7	7	7
	50ppm	3	4	4	4	5	6
	200ppm	4	4	4	5	6	7
MORIBUND SACRIFICE	Control	2	2	2	2	3	3
	12ppm	1	2	2	2	2	3
	50ppm	1	2	3	3	3	4
	200ppm	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	1	1
	200ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	2	2
	200ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	1	0
	200ppm	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	1	0
	200ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	2	0	0	0	1	1
	200ppm	1	1	1	1	1	0

STUDY NO. : 0774
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		3-7	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												
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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											
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	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	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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	1	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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												
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
	12ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	12ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	50ppm	1	1	1	1	1	3	3	3	3	3	3	4	4	4
	200ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	3
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	5	5
	12ppm	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	50ppm	4	4	4	4	4	4	4	5	5	5	5	5	5	5
	200ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200ppm	1	1	1	1	1	1	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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				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												
EXOPHTHALMOS	Control	0	0	1		1	1	1	1	1	1	1	1	1	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	5	5	6		6	6	6	6	6	6	6	6	6	5	5
	12ppm	3	3	3		3	3	3	3	3	3	3	3	3	3	3
	50ppm	5	5	5		5	5	5	5	5	5	5	5	5	5	5
	200ppm	3	3	3		3	3	3	3	3	3	4	3	3	3	3
CORNEAL OPACITY	Control	1	1	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	2	2	2	1	2	2	2	3
	12ppm	1	1	1		1	1	2	2	2	2	2	2	2	2	2
	50ppm	1	1	1		1	1	1	1	1	1	1	1	2	2	2
	200ppm	0	0	0		0	0	0	0	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	1	1	1	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	1	1	1	1	1	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	12ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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		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														
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	12ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	50ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	200ppm	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	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	5	5	5	6
	12ppm	2	2	2	2	2	3	3	3	4	4	4	3	3	3	4	4
	50ppm	2	2	3	4	4	4	4	5	6	6	6	6	6	6	6	6
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
	50ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. PERI-MOUTH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12ppm	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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					
		99-7	100-7	101-7	102-7	103-7	104-7
EXOPHTHALMOS	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
CATARACT	Control	5	5	5	5	4	4
	12ppm	3	3	3	3	3	3
	50ppm	5	5	4	4	4	4
	200ppm	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	0	0	0	0
	200ppm	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	1
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	6	6	6	8	8	10
	12ppm	5	5	5	5	5	5
	50ppm	6	6	5	5	5	6
	200ppm	2	2	2	2	3	4
INTERNAL MASS	Control	0	0	0	0	0	2
	12ppm	1	0	0	0	0	0
	50ppm	1	0	2	2	2	1
	200ppm	1	1	1	1	1	1
M. PERI-MOUTH	Control	1	1	1	1	1	1
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

STUDY NO. : 0774
 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													
		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. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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											
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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				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. EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	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	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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											
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	200ppm	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	1	1	1	0	1	1	1	2
	12ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
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		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														
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	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	2	2	2	3
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	2	2	3	4	4	4	4	4	4	5	5	5	5	5	5	5
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	12ppm	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	200ppm	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
	12ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	1
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	200ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
	200ppm	0	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	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0774
 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					
		99-7	100-7	101-7	102-7	103-7	104-7
M. EAR	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0
	12ppm	1	1	1	1	1	1
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
M. BREAST	Control	3	3	3	4	4	5
	12ppm	1	1	1	1	1	1
	50ppm	5	5	4	4	4	5
	200ppm	1	1	1	1	2	3
M. ABDOMEN	Control	2	2	2	3	3	4
	12ppm	1	1	1	1	1	2
	50ppm	1	1	1	1	0	0
	200ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	1	1	1	1	1	1
	200ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	12ppm	2	2	2	2	2	2
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	1	2	2
	12ppm	1	0	0	0	0	0
	50ppm	2	0	0	0	0	1
	200ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	1	1
	200ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0

STUDY NO. : 0774
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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	50ppm	50	50	50	50	50	49	49	49	49	49	49	49	49	49
	200ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0774
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				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												
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50		50	50	49	48	49	49	48	48	48	47	48
	12ppm	50	50	50		50	50	50	50	50	50	50	50	49	49	49
	50ppm	49	48	48		48	48	48	48	48	48	48	48	48	48	48
	200ppm	50	50	50		50	50	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [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											
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	47	47	47	47	47	47	47	47	47	47	47	47
	12ppm	50	50	50	50	50	50	50	50	50	50	50	49	48	47
	50ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	200ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	12ppm	47	47	47	47	47	47	47	48	48	48	48	48	48	48
	50ppm	48	48	48	48	48	47	47	47	47	47	47	46	46	46
	200ppm	49	49	49	48	48	48	48	48	48	48	48	48	48	47

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	45	46	46	46	46	46	46	46	46	46	45	44
	12ppm	48	48	48	48	48	47	47	47	45	45	45	45	45	45
	50ppm	46	46	46	46	46	46	45	44	44	44	44	44	44	44
	200ppm	46	46	46	45	43	44	44	44	42	46	46	46	46	46

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 70

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												
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	200ppm	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
	12ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	44	44	43	43	43	43	41	41	41	41	39	39	39	39	38
	12ppm	45	46	45	45	45	44	44	44	44	44	44	44	43	43	43
	50ppm	44	44	44	43	41	41	41	42	42	42	41	41	41	41	41
	200ppm	46	44	45	45	44	44	44	43	43	42	42	42	41	41	41

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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												
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	200ppm	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
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		1	1	1	1	1	0	1	1	1	1	2
	200ppm	0	0	0		0	0	0	0	0	0	1	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	12ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	38	38	38		37	36	36	36	36	36	36	36	35	34	33
	12ppm	43	42	41		40	38	37	37	36	36	36	37	38	35	33
	50ppm	41	40	39		39	38	39	39	38	37	36	35	36	36	36
	200ppm	41	41	41		39	39	41	41	42	41	40	39	40	40	40

(HAN190)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
TORTICOLLIS	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	1	2	2
	12ppm	1	0	0	0	0	0
	50ppm	3	2	1	1	2	1
	200ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	12ppm	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0
NON REMARKABLE	Control	33	33	32	30	29	26
	12ppm	33	33	33	33	33	32
	50ppm	35	35	34	34	31	28
	200ppm	39	39	39	38	36	35

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week on Study	Control			12ppm			50ppm			200ppm		
	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	118 (50)	50/50		118 (50)	100	50/50	118 (50)	100	50/50	118 (50)	100	50/50
1	150 (50)	50/50		151 (50)	101	50/50	151 (50)	101	50/50	147 (50)	98	50/50
2	184 (50)	50/50		184 (50)	100	50/50	184 (50)	100	50/50	178 (50)	97	50/50
3	210 (50)	50/50		210 (50)	100	50/50	210 (50)	100	50/50	201 (50)	96	50/50
4	232 (50)	50/50		231 (50)	100	50/50	231 (50)	100	50/50	220 (50)	95	50/50
5	249 (50)	50/50		249 (50)	100	50/50	249 (50)	100	50/50	235 (50)	94	50/50
6	263 (50)	50/50		263 (50)	100	50/50	263 (50)	100	50/50	246 (50)	94	50/50
7	277 (50)	50/50		278 (50)	100	50/50	277 (50)	100	50/50	260 (50)	94	50/50
8	291 (50)	50/50		291 (50)	100	50/50	289 (50)	99	50/50	271 (50)	93	50/50
9	300 (50)	50/50		301 (50)	100	50/50	300 (50)	100	50/50	279 (50)	93	50/50
10	308 (50)	50/50		309 (50)	100	50/50	307 (50)	100	50/50	288 (50)	94	50/50
11	315 (50)	50/50		316 (50)	100	50/50	314 (50)	100	50/50	294 (50)	93	50/50
12	322 (50)	50/50		321 (50)	100	50/50	320 (50)	99	50/50	300 (50)	93	50/50
13	328 (50)	50/50		327 (50)	100	50/50	326 (50)	99	50/50	306 (50)	93	50/50
14	334 (50)	50/50		333 (50)	100	50/50	332 (50)	99	50/50	312 (50)	93	50/50
18	355 (50)	50/50		353 (50)	99	50/50	351 (50)	99	50/50	328 (50)	92	50/50
22	372 (50)	50/50		370 (50)	99	50/50	367 (50)	99	50/50	345 (50)	93	50/50
26	384 (50)	50/50		380 (50)	99	50/50	378 (50)	98	50/50	355 (50)	92	50/50
30	395 (50)	50/50		391 (50)	99	50/50	388 (50)	98	50/50	364 (50)	92	50/50
34	404 (50)	50/50		398 (50)	99	50/50	397 (50)	98	50/50	373 (50)	92	50/50
38	411 (49)	49/50		408 (50)	99	50/50	406 (50)	99	50/50	382 (50)	93	50/50
42	419 (49)	49/50		415 (50)	99	50/50	412 (50)	98	50/50	388 (50)	93	50/50
46	424 (49)	49/50		421 (50)	99	50/50	418 (50)	99	50/50	393 (50)	93	50/50
50	425 (49)	49/50		423 (50)	100	50/50	421 (50)	99	50/50	397 (50)	93	50/50
54	430 (49)	49/50		429 (50)	100	50/50	427 (50)	99	50/50	400 (50)	93	50/50
58	434 (49)	49/50		433 (50)	100	50/50	433 (50)	100	50/50	404 (50)	93	50/50
62	436 (49)	49/50		436 (50)	100	50/50	435 (49)	100	49/50	409 (50)	94	50/50
66	438 (49)	49/50		438 (50)	100	50/50	438 (49)	100	49/50	409 (50)	93	50/50
70	442 (49)	49/50		439 (50)	99	50/50	440 (49)	100	49/50	411 (50)	93	50/50
74	446 (49)	49/50		442 (50)	99	50/50	441 (49)	99	49/50	412 (50)	92	50/50
78	445 (49)	49/50		443 (49)	100	49/50	440 (49)	99	49/50	412 (50)	93	50/50
82	449 (48)	48/50		444 (49)	99	49/50	440 (49)	98	49/50	412 (50)	92	50/50
86	451 (48)	48/50		442 (49)	98	49/50	439 (48)	97	48/50	412 (49)	91	49/50
90	447 (48)	48/50		437 (49)	98	49/50	436 (48)	98	48/50	408 (49)	91	49/50
94	440 (48)	48/50		427 (48)	97	48/50	427 (48)	97	48/50	404 (48)	92	48/50
98	436 (48)	48/50		424 (45)	97	45/50	424 (47)	97	47/50	400 (48)	92	48/50
102	431 (45)	45/50		421 (41)	98	41/50	424 (44)	98	44/50	398 (48)	92	48/50
104	424 (45)	45/50		416 (40)	98	40/50	413 (43)	97	43/50	398 (47)	94	47/50

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

Av. Wt. : g

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week on Study	Control		12ppm		50ppm		200ppm				
	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	95 (50)	50/50	95 (50)	100	50/50	95 (50)	100	50/50	95 (50)	100	50/50
1	109 (50)	50/50	109 (50)	100	50/50	110 (50)	101	50/50	108 (50)	99	50/50
2	125 (50)	50/50	125 (50)	100	50/50	125 (50)	100	50/50	122 (50)	98	50/50
3	136 (50)	50/50	136 (50)	100	50/50	136 (50)	100	50/50	131 (50)	96	50/50
4	145 (50)	50/50	145 (50)	100	50/50	145 (50)	100	50/50	139 (50)	96	50/50
5	152 (50)	50/50	153 (50)	101	50/50	151 (50)	99	50/50	145 (50)	95	50/50
6	158 (50)	50/50	158 (50)	100	50/50	156 (50)	99	50/50	148 (50)	94	50/50
7	164 (50)	50/50	163 (50)	99	50/50	162 (50)	99	50/50	156 (50)	95	50/50
8	166 (50)	50/50	167 (50)	101	50/50	165 (50)	99	50/50	158 (50)	95	50/50
9	170 (50)	50/50	170 (50)	100	50/50	168 (50)	99	50/50	159 (50)	94	50/50
10	174 (50)	50/50	174 (50)	100	50/50	172 (50)	99	50/50	164 (50)	94	50/50
11	177 (50)	50/50	177 (50)	100	50/50	175 (50)	99	50/50	166 (50)	94	50/50
12	181 (50)	50/50	179 (50)	99	50/50	177 (50)	98	50/50	168 (50)	93	50/50
13	182 (50)	50/50	182 (50)	100	50/50	180 (50)	99	50/50	171 (50)	94	50/50
14	184 (50)	50/50	185 (50)	101	50/50	181 (50)	98	50/50	174 (50)	95	50/50
18	192 (50)	50/50	194 (50)	101	50/50	191 (50)	99	50/50	179 (50)	93	50/50
22	199 (50)	50/50	200 (50)	101	50/50	197 (50)	99	50/50	187 (50)	94	50/50
26	204 (50)	50/50	206 (50)	101	50/50	203 (50)	100	50/50	193 (50)	95	50/50
30	209 (50)	50/50	211 (50)	101	50/50	207 (50)	99	50/50	196 (50)	94	50/50
34	214 (50)	50/50	214 (50)	100	50/50	212 (50)	99	50/50	201 (50)	94	50/50
38	220 (50)	50/50	219 (50)	100	50/50	215 (50)	98	50/50	205 (50)	93	50/50
42	225 (50)	50/50	225 (50)	100	50/50	220 (50)	98	50/50	210 (50)	93	50/50
46	225 (50)	50/50	226 (50)	100	50/50	223 (50)	99	50/50	212 (50)	94	50/50
50	227 (50)	50/50	229 (50)	101	50/50	225 (50)	99	50/50	217 (50)	96	50/50
54	231 (50)	50/50	234 (50)	101	50/50	229 (50)	99	50/50	217 (50)	94	50/50
58	238 (50)	50/50	239 (50)	100	50/50	234 (50)	98	50/50	224 (50)	94	50/50
62	241 (50)	50/50	242 (50)	100	50/50	238 (50)	99	50/50	226 (50)	94	50/50
66	247 (50)	50/50	248 (50)	100	50/50	241 (50)	98	50/50	231 (49)	94	49/50
70	251 (50)	50/50	254 (50)	101	50/50	247 (50)	98	50/50	235 (49)	94	49/50
74	257 (49)	49/50	258 (49)	100	49/50	250 (50)	97	50/50	237 (48)	92	48/50
78	260 (49)	49/50	262 (49)	101	49/50	254 (49)	98	49/50	239 (48)	92	48/50
82	268 (47)	47/50	267 (49)	100	49/50	262 (48)	98	48/50	245 (47)	91	47/50
86	275 (46)	46/50	270 (48)	98	48/50	268 (48)	97	48/50	252 (46)	92	46/50
90	276 (45)	45/50	269 (45)	97	45/50	269 (48)	97	48/50	253 (46)	92	46/50
94	276 (45)	45/50	270 (44)	98	44/50	268 (47)	97	47/50	252 (46)	91	46/50
98	280 (44)	44/50	270 (43)	96	43/50	267 (47)	95	47/50	256 (45)	91	45/50
102	281 (43)	43/50	273 (41)	97	41/50	274 (43)	98	43/50	260 (44)	93	44/50
104	278 (42)	42/50	270 (40)	97	40/50	267 (40)	96	40/50	258 (42)	93	42/50

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

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

Av. Wt. : g

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0774
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		1		2		3		4		5		6	
	0													
Control	118 ± 6		150 ± 8		184 ± 9		210 ± 10		232 ± 11		249 ± 11		263 ± 12	
12ppm	118 ± 6		151 ± 8		184 ± 9		210 ± 10		231 ± 11		249 ± 11		263 ± 11	
50ppm	118 ± 6		151 ± 7		184 ± 8		210 ± 9		231 ± 10		249 ± 10		263 ± 11	
200ppm	118 ± 6		147 ± 7		178 ± 9**		201 ± 9**		220 ± 10**		235 ± 11**		246 ± 11**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
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		7		8		9		10		11		12		13	
Control	277±	12	291±	12	300±	12	308±	12	315±	13	322±	13	328±	13		
12ppm	278±	12	291±	13	301±	13	309±	13	316±	14	321±	15	327±	15		
50ppm	277±	12	289±	12	300±	12	307±	13	314±	13	320±	13	326±	14		
200ppm	260±	13**	271±	13**	279±	13**	288±	14**	294±	14**	300±	15**	306±	16**		

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration week		18		22		26		30		34		38	
	14													
Control	334±	14	355±	14	372±	16	384±	18	395±	19	404±	19	411±	20
12ppm	333±	15	353±	17	370±	17	380±	18	391±	19	398±	20	408±	20
50ppm	332±	14	351±	14	367±	15	378±	17	388±	18	397±	18	406±	19
200ppm	312±	16**	328±	15**	345±	16**	355±	17**	364±	18**	373±	19**	382±	19**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 4

Group Name	Administration week		46		50		54		58		62		66	
	42													
Control	419 ± 21		424 ± 21		425 ± 22		430 ± 23		434 ± 23		436 ± 24		438 ± 24	
12ppm	415 ± 22		421 ± 22		423 ± 22		429 ± 23		433 ± 22		436 ± 22		438 ± 21	
50ppm	412 ± 21		418 ± 21		421 ± 22		427 ± 22		433 ± 23		435 ± 23		438 ± 22	
200ppm	388 ± 20**		393 ± 21**		397 ± 22**		400 ± 21**		404 ± 21**		409 ± 22**		409 ± 22**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrI]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 5

Group Name	Administration week		74		78		82		86		90		94	
	70													
Control	442 ± 25		446 ± 23		445 ± 32		449 ± 21		451 ± 21		447 ± 20		440 ± 21	
12ppm	439 ± 20		442 ± 20		443 ± 20		444 ± 20		442 ± 20		437 ± 20		427 ± 28*	
50ppm	440 ± 22		441 ± 22		440 ± 24		440 ± 27		439 ± 27*		436 ± 28		427 ± 32*	
200ppm	411 ± 22**		412 ± 22**		412 ± 23**		412 ± 25**		412 ± 26**		408 ± 26**		404 ± 24**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week					
	98		102		104	
Control	436 ±	23	431 ±	26	424 ±	29
12ppm	424 ±	20*	421 ±	24	416 ±	24
50ppm	424 ±	39	424 ±	48	413 ±	35
200ppm	400 ±	32**	398 ±	38**	398 ±	33**

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 7

Group Name	Administration week		0		1		2		3		4		5		6	
Control	95±	3	109±	5	125±	5	136±	6	145±	7	152±	8	158±	8		
12ppm	95±	3	109±	4	125±	5	136±	6	145±	8	153±	7	158±	8		
50ppm	95±	3	110±	4	125±	4	136±	5	145±	6	151±	6	156±	7		
200ppm	95±	3	108±	4	122±	5**	131±	6**	139±	7**	145±	8**	148±	8**		

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration week		7		8		9		10		11		12		13	
Control	164± 9		166± 9		170± 9		174± 10		177± 10		181± 10		182± 10			
12ppm	163± 8		167± 9		170± 10		174± 10		177± 10		179± 11		182± 11			
50ppm	162± 8		165± 8		168± 10		172± 9		175± 10		177± 10		180± 10			
200ppm	156± 9**		158± 9**		159± 9**		164± 10**		166± 10**		168± 10**		171± 10**			

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
 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		18		22		26		30		34		38	
	14													
Control	184± 10		192± 11		199± 12		204± 13		209± 14		214± 15		220± 15	
12ppm	185± 11		194± 12		200± 14		206± 14		211± 14		214± 15		219± 14	
50ppm	181± 10		191± 11		197± 11		203± 12		207± 12		212± 13		215± 13	
200ppm	174± 11**		179± 12**		187± 13**		193± 12**		196± 14**		201± 14**		205± 13**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week		46		50		54		58		62		66	
	42													
Control	225 ± 16		225 ± 16		227 ± 17		231 ± 18		238 ± 20		241 ± 20		247 ± 23	
12ppm	225 ± 15		226 ± 15		229 ± 15		234 ± 17		239 ± 17		242 ± 18		248 ± 21	
50ppm	220 ± 14		223 ± 15		225 ± 15		229 ± 17		234 ± 17		238 ± 18		241 ± 19	
200ppm	210 ± 14**		212 ± 14**		217 ± 15**		217 ± 15**		224 ± 16**		226 ± 20**		231 ± 17**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI Crij [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week		74		78		82		86		90		94	
	70													
Control	251 ±	24	257 ±	24	260 ±	24	268 ±	23	275 ±	23	276 ±	22	276 ±	23
12ppm	254 ±	21	258 ±	21	262 ±	22	267 ±	22	270 ±	22	269 ±	24	270 ±	21
50ppm	247 ±	19	250 ±	22	254 ±	20	262 ±	21	268 ±	22	269 ±	23	268 ±	29
200ppm	235 ±	18**	237 ±	18**	239 ±	18**	245 ±	18**	252 ±	20**	253 ±	19**	252 ±	21**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
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					
	98	102	104			
Control	280 ± 23	281 ± 26	278 ± 29			
12ppm	270 ± 22	273 ± 22	270 ± 24			
50ppm	267 ± 34	274 ± 37	267 ± 37			
200ppm	256 ± 19**	260 ± 20**	258 ± 20**			

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0774
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		12ppm		50ppm		200ppm				
	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	14. 7 (50)	50/50	14. 7 (50)	100	50/50	14. 7 (50)	100	50/50	14. 4 (50)	98	50/50
2-7	17. 1 (50)	50/50	16. 8 (50)	98	50/50	16. 7 (50)	98	50/50	16. 4 (50)	96	50/50
3-7	17. 8 (50)	50/50	17. 3 (50)	97	50/50	17. 6 (50)	99	50/50	17. 1 (50)	96	50/50
4-7	17. 7 (50)	50/50	17. 2 (50)	97	50/50	17. 3 (50)	98	50/50	16. 6 (50)	94	50/50
5-7	17. 5 (50)	50/50	17. 2 (50)	98	50/50	17. 0 (50)	97	50/50	16. 4 (50)	94	50/50
6-7	17. 0 (50)	50/50	16. 8 (50)	99	50/50	16. 4 (50)	96	50/50	15. 8 (50)	93	50/50
7-7	17. 2 (50)	50/50	17. 0 (50)	99	50/50	16. 5 (50)	96	50/50	15. 8 (50)	92	50/50
8-7	17. 2 (50)	50/50	16. 9 (50)	98	50/50	16. 5 (50)	96	50/50	15. 3 (50)	89	50/50
9-7	17. 1 (50)	50/50	17. 0 (50)	99	50/50	16. 8 (50)	98	50/50	15. 7 (50)	92	50/50
10-7	16. 9 (50)	50/50	16. 9 (50)	100	50/50	16. 7 (50)	99	50/50	15. 9 (50)	94	50/50
11-7	16. 7 (50)	50/50	16. 5 (50)	99	50/50	16. 4 (50)	98	50/50	15. 6 (50)	93	50/50
12-7	16. 5 (50)	50/50	16. 4 (50)	99	50/50	16. 3 (50)	99	50/50	15. 5 (50)	94	50/50
13-7	16. 3 (50)	50/50	16. 4 (50)	101	50/50	16. 2 (50)	99	50/50	15. 4 (50)	94	50/50
14-7	16. 3 (50)	50/50	16. 1 (50)	99	50/50	16. 3 (50)	100	50/50	15. 5 (50)	95	50/50
18-7	16. 6 (50)	50/50	16. 6 (50)	100	50/50	16. 3 (50)	98	50/50	15. 1 (50)	91	50/50
22-7	16. 7 (50)	50/50	16. 5 (50)	99	50/50	16. 3 (50)	98	50/50	15. 7 (50)	94	50/50
26-7	16. 5 (50)	50/50	16. 4 (50)	99	50/50	16. 3 (50)	99	50/50	15. 5 (50)	94	50/50
30-7	16. 7 (50)	50/50	16. 3 (50)	98	50/50	16. 3 (50)	98	50/50	15. 6 (50)	93	50/50
34-7	16. 9 (50)	50/50	16. 4 (50)	97	50/50	16. 6 (50)	98	50/50	16. 2 (50)	96	50/50
38-7	16. 5 (49)	49/50	16. 4 (50)	99	50/50	16. 4 (50)	99	50/50	15. 9 (50)	96	50/50
42-7	16. 6 (49)	49/50	16. 4 (50)	99	50/50	16. 3 (50)	98	50/50	15. 7 (50)	95	50/50
46-7	16. 8 (49)	49/50	16. 8 (50)	100	50/50	16. 8 (50)	100	50/50	16. 0 (50)	95	50/50
50-7	16. 0 (49)	49/50	16. 0 (50)	100	50/50	16. 0 (50)	100	50/50	15. 9 (50)	99	50/50
54-7	16. 0 (49)	49/50	16. 4 (50)	103	50/50	16. 3 (50)	102	50/50	15. 5 (50)	97	50/50
58-7	16. 7 (49)	49/50	17. 0 (50)	102	50/50	16. 8 (50)	101	50/50	16. 1 (50)	96	50/50
62-7	16. 8 (49)	49/50	17. 1 (50)	102	50/50	17. 2 (49)	102	49/50	16. 4 (50)	98	50/50
66-7	16. 6 (49)	49/50	16. 9 (50)	102	50/50	17. 2 (49)	104	49/50	16. 2 (50)	98	50/50
70-7	17. 1 (49)	49/50	17. 0 (50)	99	50/50	17. 0 (49)	99	49/50	16. 2 (50)	95	50/50
74-7	16. 6 (49)	49/50	16. 7 (50)	101	50/50	16. 8 (49)	101	49/50	15. 9 (50)	96	50/50
78-7	15. 7 (49)	49/50	16. 5 (49)	105	49/50	16. 3 (49)	104	49/50	15. 4 (50)	98	50/50
82-7	16. 6 (48)	48/50	16. 9 (49)	102	49/50	16. 8 (49)	101	49/50	16. 1 (50)	97	50/50
86-7	16. 9 (48)	48/50	16. 9 (49)	100	49/50	16. 6 (48)	98	48/50	16. 1 (49)	95	49/50
90-7	16. 3 (48)	48/50	16. 4 (49)	101	49/50	16. 4 (48)	101	48/50	15. 6 (49)	96	49/50
94-7	15. 9 (48)	48/50	15. 7 (48)	99	48/50	16. 2 (48)	102	48/50	15. 4 (48)	97	48/50
98-7	16. 5 (48)	48/50	16. 5 (45)	100	45/50	16. 7 (47)	101	47/50	15. 7 (48)	95	48/50
102-7	16. 7 (45)	45/50	16. 4 (41)	98	41/50	17. 0 (44)	102	44/50	16. 2 (48)	97	48/50
104-7	16. 4 (45)	45/50	16. 8 (40)	102	40/50	16. 7 (43)	102	43/50	16. 4 (46)	100	47/50

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

Av. FC. : g

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		12ppm		50ppm		200ppm				
	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	11. 1 (50)	50/50	11. 1 (50)	100	50/50	11. 2 (50)	101	50/50	10. 8 (50)	97	50/50
2-7	12. 0 (50)	50/50	12. 0 (50)	100	50/50	12. 2 (50)	102	50/50	12. 0 (50)	100	50/50
3-7	11. 9 (50)	50/50	12. 3 (50)	103	50/50	12. 1 (50)	102	50/50	12. 3 (50)	103	50/50
4-7	12. 0 (50)	50/50	12. 0 (50)	100	50/50	12. 0 (50)	100	50/50	11. 8 (50)	98	50/50
5-7	11. 9 (50)	50/50	12. 0 (50)	101	50/50	11. 8 (50)	99	50/50	11. 5 (50)	97	50/50
6-7	11. 3 (50)	50/50	11. 4 (50)	101	50/50	11. 3 (50)	100	50/50	11. 1 (50)	98	50/50
7-7	11. 2 (50)	50/50	11. 2 (50)	100	50/50	11. 4 (50)	102	50/50	11. 2 (50)	100	50/50
8-7	10. 9 (50)	50/50	11. 3 (50)	104	50/50	11. 2 (50)	103	50/50	10. 8 (50)	99	50/50
9-7	11. 0 (50)	50/50	11. 0 (50)	100	50/50	11. 0 (50)	100	50/50	10. 4 (50)	95	50/50
10-7	11. 0 (50)	50/50	11. 3 (50)	103	50/50	11. 1 (50)	101	50/50	10. 8 (50)	98	50/50
11-7	11. 0 (50)	50/50	11. 0 (50)	100	50/50	11. 2 (50)	102	50/50	10. 5 (50)	95	50/50
12-7	11. 1 (50)	50/50	11. 1 (50)	100	50/50	10. 8 (50)	97	50/50	10. 2 (50)	92	50/50
13-7	11. 1 (50)	50/50	11. 1 (50)	100	50/50	10. 9 (50)	98	50/50	10. 7 (50)	96	50/50
14-7	11. 0 (50)	50/50	11. 3 (50)	103	50/50	10. 9 (50)	99	50/50	10. 9 (50)	99	50/50
18-7	11. 0 (50)	50/50	11. 4 (50)	104	50/50	11. 4 (50)	104	50/50	10. 8 (50)	98	50/50
22-7	10. 8 (50)	50/50	11. 2 (50)	104	50/50	11. 0 (50)	102	50/50	10. 8 (50)	100	50/50
26-7	11. 0 (50)	50/50	11. 0 (50)	100	50/50	10. 7 (50)	97	50/50	10. 3 (50)	94	50/50
30-7	10. 8 (50)	50/50	10. 9 (50)	101	50/50	10. 7 (50)	99	50/50	10. 3 (50)	95	50/50
34-7	11. 4 (50)	50/50	11. 3 (50)	99	50/50	11. 2 (50)	98	50/50	10. 9 (50)	96	50/50
38-7	11. 2 (50)	50/50	11. 4 (50)	102	50/50	10. 9 (50)	97	50/50	10. 7 (50)	96	50/50
42-7	11. 4 (50)	50/50	11. 6 (50)	102	50/50	11. 0 (50)	96	50/50	10. 5 (50)	92	50/50
46-7	10. 9 (50)	50/50	11. 2 (50)	103	50/50	11. 3 (50)	104	50/50	10. 7 (50)	98	50/50
50-7	10. 4 (50)	50/50	10. 8 (50)	104	50/50	10. 7 (50)	103	50/50	10. 7 (50)	103	50/50
54-7	10. 7 (50)	50/50	11. 0 (50)	103	50/50	11. 0 (50)	103	50/50	10. 3 (50)	96	50/50
58-7	11. 7 (50)	50/50	11. 6 (50)	99	50/50	11. 4 (50)	97	50/50	11. 5 (50)	98	50/50
62-7	11. 8 (50)	50/50	11. 6 (50)	98	50/50	11. 8 (50)	100	50/50	11. 1 (50)	94	50/50
66-7	11. 7 (50)	50/50	12. 1 (50)	103	50/50	11. 7 (50)	100	50/50	11. 9 (49)	102	49/50
70-7	11. 8 (50)	50/50	12. 2 (50)	103	50/50	12. 0 (50)	102	50/50	11. 7 (49)	99	49/50
74-7	12. 0 (49)	49/50	12. 0 (49)	100	49/50	12. 0 (49)	100	50/50	11. 1 (48)	93	48/50
78-7	11. 3 (49)	49/50	11. 7 (49)	104	49/50	11. 3 (49)	100	49/50	10. 9 (48)	96	48/50
82-7	12. 3 (47)	47/50	12. 3 (49)	100	49/50	12. 3 (48)	100	48/50	12. 0 (47)	98	47/50
86-7	12. 3 (46)	46/50	11. 9 (48)	97	48/50	12. 6 (48)	102	48/50	12. 1 (46)	98	46/50
90-7	11. 9 (45)	45/50	11. 8 (45)	99	45/50	12. 1 (48)	102	48/50	11. 5 (46)	97	46/50
94-7	12. 0 (45)	45/50	12. 0 (44)	100	44/50	11. 9 (47)	99	47/50	11. 3 (46)	94	46/50
98-7	12. 6 (44)	44/50	12. 2 (43)	97	43/50	12. 1 (47)	96	47/50	12. 0 (45)	95	45/50
102-7	12. 5 (43)	43/50	12. 2 (41)	98	41/50	12. 8 (43)	102	43/50	11. 8 (44)	94	44/50
104-7	12. 1 (42)	42/50	12. 0 (40)	99	40/50	12. 1 (40)	100	40/50	11. 8 (42)	98	42/50

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

Av. FC. :g

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7 (7)	week-day (effective) 2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	14.7± 1.1	17.1± 1.4	17.8± 1.5	17.7± 1.4	17.5± 1.3	17.0± 1.3	17.2± 1.3
12ppm	14.7± 1.1	16.8± 1.2	17.3± 1.2	17.2± 1.1	17.2± 1.0	16.8± 0.9	17.0± 1.0
50ppm	14.7± 1.1	16.7± 1.4	17.6± 1.5	17.3± 1.3	17.0± 1.4	16.4± 1.0*	16.5± 1.0**
200ppm	14.4± 1.1	16.4± 1.4	17.1± 1.6	16.6± 1.3**	16.4± 1.1**	15.8± 1.1**	15.8± 1.1**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [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	17.2± 1.2	17.1± 1.1	16.9± 1.1	16.7± 1.0	16.5± 1.0	16.3± 1.1	16.3± 0.9
12ppm	16.9± 1.1	17.0± 1.0	16.9± 0.9	16.5± 0.9	16.4± 0.9	16.4± 0.9	16.1± 0.9
50ppm	16.5± 0.9**	16.8± 1.0	16.7± 0.9	16.4± 0.9	16.3± 1.0	16.2± 1.0	16.3± 1.0
200ppm	15.3± 1.0**	15.7± 1.2**	15.9± 1.1**	15.6± 1.0**	15.5± 0.9**	15.4± 1.0**	15.5± 1.1**

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

Test of Dunnett

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	16.6 ± 0.9		16.7 ± 1.0		16.5 ± 1.0		16.7 ± 1.5		16.9 ± 1.7		16.5 ± 1.0		16.6 ± 0.9					
12ppm	16.6 ± 0.9		16.5 ± 1.0		16.4 ± 1.0		16.3 ± 0.8		16.4 ± 1.0		16.4 ± 0.9		16.4 ± 1.0					
50ppm	16.3 ± 0.8		16.3 ± 0.9		16.3 ± 0.9		16.3 ± 0.9		16.6 ± 0.9		16.4 ± 0.8		16.3 ± 1.0					
200ppm	15.1 ± 0.8**		15.7 ± 0.9**		15.5 ± 0.8**		15.6 ± 1.0**		16.2 ± 1.0**		15.9 ± 1.0**		15.7 ± 1.0**					

Test of Dunnett

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day (effective)					
	46-7 (7)		50-7 (7)		54-7 (7)		58-7 (7)	
Control	16.8± 0.9		16.0± 0.9		16.0± 0.9		16.7± 1.0	
12ppm	16.8± 0.9		16.0± 0.8		16.4± 1.0		17.0± 0.9	
50ppm	16.8± 0.9		16.0± 0.9		16.3± 1.0		16.8± 0.7	
200ppm	16.0± 1.0**		15.9± 1.1		15.5± 0.9*		16.1± 1.0**	

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
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	16.6± 0.8	15.7± 2.2	16.6± 1.1	16.9± 1.2	16.3± 1.0	15.9± 1.3	16.5± 1.1
12ppm	16.7± 0.9	16.5± 0.9*	16.9± 1.1	16.9± 1.0	16.4± 1.1	15.7± 2.1	16.5± 1.2
50ppm	16.8± 0.9	16.3± 0.9	16.8± 1.4	16.6± 1.1	16.4± 1.1	16.2± 1.3	16.7± 1.4
200ppm	15.9± 1.0**	15.4± 1.1**	16.1± 1.2	16.1± 1.1**	15.6± 1.1**	15.4± 1.2	15.7± 1.8*

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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	16.7 ± 1.3	16.4 ± 1.7
12ppm	16.4 ± 2.7	16.8 ± 1.2
50ppm	17.0 ± 2.0	16.7 ± 1.5
200ppm	16.2 ± 1.8	16.4 ± 1.5

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration 1-7 (7)	week-day (effective) 2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	11.1± 1.2	12.0± 0.9	11.9± 1.0	12.0± 0.9	11.9± 1.4	11.3± 0.8	11.2± 0.9
12ppm	11.1± 0.8	12.0± 0.8	12.3± 1.2	12.0± 1.0	12.0± 1.2	11.4± 1.0	11.2± 0.8
50ppm	11.2± 0.7	12.2± 1.1	12.1± 1.1	12.0± 1.0	11.8± 1.1	11.3± 1.0	11.4± 1.2
200ppm	10.8± 0.8	12.0± 1.1	12.3± 1.4	11.8± 1.1	11.5± 1.0	11.1± 0.9	11.2± 1.1

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

Test of Dunnett

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group	Name	Administration		week-day (effective)		10-7 (7)		11-7 (7)		12-7 (7)		13-7 (7)		14-7 (7)	
		8-7 (7)		9-7 (7)											
	Control	10.9 ± 0.9		11.0 ± 0.9		11.0 ± 0.8		11.0 ± 0.8		11.1 ± 0.9		11.1 ± 0.8		11.0 ± 0.9	
	12ppm	11.3 ± 0.9		11.0 ± 0.9		11.3 ± 1.0		11.0 ± 0.8		11.1 ± 1.1		11.1 ± 1.0		11.3 ± 1.1	
	50ppm	11.2 ± 1.3		11.0 ± 1.2		11.1 ± 1.1		11.2 ± 1.0		10.8 ± 0.9		10.9 ± 0.9		10.9 ± 0.9	
	200ppm	10.8 ± 1.1		10.4 ± 1.1**		10.8 ± 1.2		10.5 ± 1.3**		10.2 ± 0.9**		10.7 ± 1.0		10.9 ± 1.1	

Test of Dunnett

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration week-day (effective)						
	18-7 (7)	22-7 (7)	26-7 (7)	30-7 (7)	34-7 (7)	38-7 (7)	42-7 (7)
Control	11.0± 0.7	10.8± 0.9	11.0± 0.8	10.8± 0.9	11.4± 1.1	11.2± 0.9	11.4± 1.1
12ppm	11.4± 1.2	11.2± 1.2	11.0± 1.2	10.9± 1.0	11.3± 1.0	11.4± 1.3	11.6± 1.2
50ppm	11.4± 1.0	11.0± 0.9	10.7± 0.7	10.7± 0.8	11.2± 0.9	10.9± 0.9	11.0± 1.0
200ppm	10.8± 1.1	10.8± 1.0	10.3± 0.8**	10.3± 0.9**	10.9± 0.9	10.7± 1.0*	10.5± 0.9**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day (effective)					
	46-7 (7)		50-7 (7)		54-7 (7)		58-7 (7)	
Control	10.9± 0.7		10.4± 0.7		10.7± 0.9		11.7± 1.1	
12ppm	11.2± 0.9		10.8± 1.0		11.0± 1.1		11.6± 1.1	
50ppm	11.3± 1.0		10.7± 0.9		11.0± 1.0		11.4± 1.0	
200ppm	10.7± 1.0		10.7± 0.8		10.3± 0.9		11.5± 1.2	

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

(HAN260)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day (effective)						
	74-7 (7)	78-7 (7)	82-7 (7)	86-7 (7)	90-7 (7)	94-7 (7)	98-7 (7)
Control	12.0 ± 0.9	11.3 ± 1.4	12.3 ± 1.5	12.3 ± 1.1	11.9 ± 0.7	12.0 ± 1.1	12.6 ± 1.1
12ppm	12.0 ± 1.1	11.7 ± 1.2	12.3 ± 1.1	11.9 ± 1.6	11.8 ± 1.5	12.0 ± 0.8	12.2 ± 1.8
50ppm	12.0 ± 1.0	11.3 ± 1.8	12.3 ± 1.0	12.6 ± 1.1	12.1 ± 1.0	11.9 ± 1.6	12.1 ± 2.4
200ppm	11.1 ± 0.9**	10.9 ± 1.1	12.0 ± 1.0	12.1 ± 0.9	11.5 ± 1.1	11.3 ± 1.8	12.0 ± 0.9

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration		week-day (effective)	
	102-7 (7)		104-7 (7)	
Control	12.5 ± 1.6		12.1 ± 2.1	
12ppm	12.2 ± 1.2		12.0 ± 1.1	
50ppm	12.8 ± 2.1		12.1 ± 2.8	
200ppm	11.8 ± 0.9**		11.8 ± 0.9	

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	45	8.75±	1.29	14.3±	2.0	42.3±	5.1	48.7±	4.4	16.4±	1.3	33.7±	1.0	887±	230
12ppm	40	8.58±	1.49	13.9±	2.5	41.3±	6.4	48.4±	2.7	16.2±	0.9	33.4±	1.5	902±	223
50ppm	42	8.65±	1.32	14.0±	2.4	41.9±	6.0	48.6±	2.1	16.2±	0.9	33.3±	1.3	901±	187
200ppm	47	9.34±	1.40	14.9±	2.3	44.2±	6.2	47.4±	1.7**	15.9±	0.7**	33.6±	0.9	826±	202

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0774
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 %	
Control	45	3.7±	3.2
12ppm	40	4.2±	4.0
50ppm	42	3.9±	2.6
200ppm	47	3.0±	1.9

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

Test of Dunnett

(HCL070)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	45	8.88±	22.73	45±	11	46±	12	4±	1	2±	1	0±	0	4±	14
12ppm	40	5.72±	5.65	46±	9	46±	10	4±	1	2±	1	0±	1	2±	2
50ppm	42	5.64±	4.28	44±	9	49±	10	5±	1	2±	1	0±	0	2±	1
200ppm	47	5.49±	5.03	44±	9	48±	9	4±	2	2±	1**	0±	0	2±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS5

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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	42	8.11±	1.62	14.3±	2.5	41.0±	6.5	52.7±	11.7	18.0±	2.4	34.6±	1.8	677±	171
12ppm	40	8.25±	1.19	14.6±	2.0	42.0±	5.0	51.3±	3.6	17.7±	1.0	34.6±	1.3	713±	216
50ppm	40	8.31±	1.24	14.6±	2.1	41.9±	5.4	51.1±	6.1	17.7±	1.7	34.7±	0.9	703±	159
200ppm	41	8.59±	0.79*	15.1±	1.1	43.6±	2.6**	51.1±	3.7	17.6±	0.7	34.5±	0.9	701±	124

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	42	3.3±	4.3
12ppm	40	3.2±	3.1
50ppm	40	2.9±	3.1
200ppm	41	3.1±	4.2

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	42	6.84±	19.19	35±	12	55±	14	4±	1	2±	1	0±	0	4±	15
12ppm	40	4.92±	9.24	40±	12	53±	12	4±	1	2±	1	0±	1	2±	2
50ppm	40	5.05±	9.45	38±	12	55±	12	4±	1	2±	1	0±	1	2±	1
200ppm	41	4.39±	11.31	35±	10	57±	10	4±	1	3±	1**	0±	1	1±	2*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [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	45	6.9±	0.3	3.0±	0.2	0.8±	0.1	0.09±	0.06	169±	17	186±	51	122±	74
12ppm	40	6.7±	0.4	3.0±	0.3	0.8±	0.2	0.08±	0.04	166±	22	178±	45	107±	54
50ppm	42	6.7±	0.4	3.0±	0.2	0.8±	0.1	0.08±	0.03	170±	17	172±	40	95±	48
200ppm	47	6.6±	0.3*	3.0±	0.2	0.8±	0.1	0.08±	0.06	169±	20	162±	49	112±	67

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

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 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	45	268±	67	95±	37	41±	13	135±	60	329±	91	7.5±	3.4	101±	34
12ppm	40	260±	56	90±	30	38±	11	120±	59	338±	116	7.8±	4.7	100±	35
50ppm	42	248±	50	97±	59	41±	20	125±	58	325±	93	7.7±	3.7	107±	57
200ppm	47	243±	73	95±	58	42±	17	121±	47	347±	115	10.2±	4.4**	109±	33

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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	45	18.3±	2.6	0.40±	0.06	142±	1	3.6±	0.3	106±	2	10.5±	0.3	4.1±	0.5
12ppm	40	19.0±	2.7	0.40±	0.06	142±	2	3.6±	0.3	106±	2	10.4±	0.3	4.0±	0.6
50ppm	42	18.0±	2.2	0.39±	0.05	142±	1	3.6±	0.3	106±	2	10.4±	0.3*	4.0±	0.7
200ppm	47	18.3±	3.3	0.39±	0.04	142±	1	3.7±	0.3	106±	2	10.3±	0.4**	4.0±	0.6

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 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	42	7.1±	0.6	3.7±	0.4	1.1±	0.2	0.30±	1.16	149±	22	144±	40	84±	61
12ppm	40	7.1±	0.4	3.7±	0.3	1.1±	0.2	0.06±	0.04	149±	18	137±	45	69±	33
50ppm	40	6.9±	0.5	3.7±	0.4	1.1±	0.2	0.26±	1.33	147±	23	134±	37	71±	47
200ppm	41	6.8±	0.4**	3.7±	0.3	1.2±	0.2	0.07±	0.15	159±	12	126±	16**	66±	58

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

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0774
 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	42	271±	91	233±	478	73±	107	310±	821	245±	258	2.4±	2.6	110±	90
12ppm	40	251±	69	130±	55	50±	14	165±	74	217±	136	2.2±	1.2	98±	29
50ppm	40	248±	77*	176±	273	66±	71	159±	133	227±	182	2.5±	2.2	102±	38
200ppm	41	234±	33*	108±	78	56±	43	115±	44**	229±	166	2.5±	1.5	94±	45

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	42	17.2±	2.7	0.32±	0.03	141±	1	3.4±	0.5	104±	2	10.6±	0.4	3.9±	0.6
12ppm	40	18.2±	4.5	0.36±	0.14	142±	1	3.3±	0.4	104±	2	10.6±	0.5	3.8±	1.0
50ppm	40	18.4±	3.3	0.32±	0.04	142±	1	3.3±	0.4	104±	2	10.4±	0.4	3.8±	0.8
200ppm	41	17.7±	2.4	0.32±	0.03	141±	1	3.3±	0.4	105±	2	10.4±	0.3	3.8±	0.8

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

URINALYSIS

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+
Control	45	0	1	2	8	13	6	15		0	0	2	9	33	1		45	0	0	0	0	0		45	0	0	0	0	0		45	0	0	0
12ppm	41	0	0	9	5	9	5	13		0	1	1	5	34	0		41	0	0	0	0	0		38	3	0	0	0	0		41	0	0	0
50ppm	43	0	0	2	7	11	11	12		0	0	2	5	35	1		43	0	0	0	0	0		41	2	0	0	0	0		41	0	2	0
200ppm	47	0	0	2	3	14	10	18		0	0	1	4	39	3		47	0	0	0	0	0		45	1	1	0	0	0		45	2	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [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	45	43	0	0	2	0		45	0	0	0	0	
12ppm	41	40	0	0	1	0		41	0	0	0	0	
50ppm	43	40	0	1	0	2		43	0	0	0	0	
200ppm	47	46	0	0	0	1		47	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS5

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH								CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	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	42	0	0	4	2	6	10	20		1	3	6	15	14	3		42	0	0	0	0	0		19	23	0	0	0	0		40	0	0	2		
12ppm	41	0	0	5	1	5	15	15		0	4	5	10	16	6		41	0	0	0	0	0		19	22	0	0	0	0		41	0	0	0		
50ppm	42	0	1	5	1	6	13	16		0	2	11	9	16	4		42	0	0	0	0	0		20	21	1	0	0	0		41	0	0	1		
200ppm	43	0	0	0	0	1	17	25	*	2	8	15	12	6	0	*	43	0	0	0	0	0		30	13	0	0	0	0	*	43	0	0	0		

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

Test of CHI SQUARE

(HCL101)

BAIS5

STUDY NO. : 0774
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	42	42	0	0	0	0		41	0	0	1	0	
12ppm	41	40	0	1	0	0		41	0	0	0	0	
50ppm	42	41	0	0	0	1		41	0	1	0	0	
200ppm	43	43	0	0	0	0		43	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. : 0774
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		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		2	(4)	3	(6)	3	(6)	3	(6)
	scab		0	(0)	1	(2)	0	(0)	0	(0)
subcutis	mass		12	(24)	11	(22)	10	(20)	7	(14)
nasal cavit	white zone		0	(0)	0	(0)	1	(2)	2	(4)
lung	red		1	(2)	1	(2)	0	(0)	1	(2)
	white zone		7	(14)	0	(0)	0	(0)	2	(4)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		2	(4)	2	(4)	1	(2)	0	(0)
lymph node	enlarged		0	(0)	0	(0)	0	(0)	2	(4)
spleen	enlarged		2	(4)	3	(6)	2	(4)	3	(6)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		1	(2)	0	(0)	1	(2)	0	(0)
tongue	nodule		1	(2)	0	(0)	0	(0)	0	(0)
stomach	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	forestomach:ulcer		1	(2)	3	(6)	1	(2)	0	(0)
	glandular stomach:ulcer		0	(0)	1	(2)	2	(4)	1	(2)
	glandular stomach:erosion		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:nodule		0	(0)	1	(2)	0	(0)	0	(0)
	glandular stomach:black zone		0	(0)	1	(2)	0	(0)	0	(0)
	glandular stomach:thick		1	(2)	1	(2)	0	(0)	1	(2)
liver	enlarged		2	(4)	1	(2)	0	(0)	2	(4)
	white zone		1	(2)	1	(2)	0	(0)	0	(0)

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	nodule		0	(0)	0	(0)	1	(2)	1	(2)
	cyst		0	(0)	0	(0)	0	(0)	1	(2)
	herniation		6	(12)	7	(14)	1	(2)	9	(18)
pancreas	nodule		0	(0)	0	(0)	0	(0)	1	(2)
kidney	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	granular		1	(2)	2	(4)	1	(2)	3	(6)
	hydronephrosis		0	(0)	0	(0)	0	(0)	1	(2)
urin bladd	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	urine:marked retention		0	(0)	1	(2)	0	(0)	0	(0)
pituitary	enlarged		1	(2)	7	(14)	6	(12)	4	(8)
	red zone		4	(8)	7	(14)	3	(6)	2	(4)
	nodule		6	(12)	2	(4)	3	(6)	1	(2)
	cyst		0	(0)	1	(2)	0	(0)	0	(0)
thyroid	enlarged		6	(12)	6	(12)	5	(10)	7	(14)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
adrenal	enlarged		3	(6)	2	(4)	2	(4)	1	(2)
testis	small		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		43	(86)	45	(90)	40	(80)	45	(90)
brain	red zone		3	(6)	0	(0)	0	(0)	0	(0)
eye	white		2	(4)	3	(6)	4	(8)	8	(16)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0774
 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		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
Harder gl	nodule		0	(0)	0	(0)	1	(2)	0	(0)
Zymbal gl	nodule		1	(2)	1	(2)	0	(0)	0	(0)
muscle	nodule		1	(2)	1	(2)	0	(0)	1	(2)
peritoneum	nodule		0	(0)	0	(0)	2	(4)	0	(0)
abdominal c	ascites		0	(0)	0	(0)	2	(4)	2	(4)
adipose	nodule		0	(0)	1	(2)	0	(0)	0	(0)
thoracic ca	pleural fluid		2	(4)	0	(0)	1	(2)	1	(2)
other	thick		0	(0)	0	(0)	1	(2)	0	(0)
	eye lid:nodule		1	(2)	0	(0)	0	(0)	0	(0)
	ear:nodule		0	(0)	1	(2)	0	(0)	0	(0)
	nose:nodule		1	(2)	0	(0)	0	(0)	0	(0)
whole body	anemic		0	(0)	1	(2)	1	(2)	0	(0)

TABLE I 2

GROSS FINDINGS : MALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control				12ppm				50ppm				200ppm			
			5	(%)	10	(%)	7	(%)	3	(%)	7	(%)	3	(%)	3	(%)	3	(%)
skin/app	nodule		0	(0)	1	(10)	0	(0)	0	(0)					0	(0)		
subcutis	mass		1	(20)	3	(30)	2	(29)	1	(33)								
lung	red		1	(20)	1	(10)	0	(0)	1	(33)								
	nodule		1	(20)	1	(10)	0	(0)	0	(0)					0	(0)		
lymph node	enlarged		0	(0)	0	(0)	0	(0)	1	(33)								
spleen	enlarged		1	(20)	2	(20)	0	(0)	1	(33)								
	red zone		0	(0)	0	(0)	1	(14)	0	(0)					0	(0)		
stomach	nodule		0	(0)	1	(10)	0	(0)	0	(0)					0	(0)		
	forestomach:ulcer		1	(20)	2	(20)	1	(14)	0	(0)					0	(0)		
	glandular stomach:ulcer		0	(0)	0	(0)	0	(0)	1	(33)								
	glandular stomach:black zone		0	(0)	1	(10)	0	(0)	0	(0)					0	(0)		
liver	enlarged		2	(40)	1	(10)	0	(0)	1	(33)								
	white zone		1	(20)	0	(0)	0	(0)	0	(0)					0	(0)		
	herniation		1	(20)	0	(0)	0	(0)	0	(0)					0	(0)		
kidney	nodule		1	(20)	0	(0)	0	(0)	0	(0)					0	(0)		
	granular		1	(20)	1	(10)	0	(0)	0	(0)					0	(0)		
	hydronephrosis		0	(0)	0	(0)	0	(0)	1	(33)								
urin bladd	nodule		0	(0)	0	(0)	0	(0)	1	(33)								
	urine:marked retention		0	(0)	1	(10)	0	(0)	0	(0)					0	(0)		
pituitary	enlarged		1	(20)	4	(40)	2	(29)	1	(33)								
thyroid	enlarged		1	(20)	0	(0)	1	(14)	2	(67)								
adrenal	enlarged		0	(0)	1	(10)	1	(14)	0	(0)								

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			5	(%)	10	(%)	7	(%)	3	(%)
testis	nodule		2	(40)	7	(70)	4	(57)	1	(33)
brain	red zone		3	(60)	0	(0)	0	(0)	0	(0)
eye	white		0	(0)	1	(10)	0	(0)	0	(0)
Harder gl	nodule		0	(0)	0	(0)	1	(14)	0	(0)
Zymbal gl	nodule		1	(20)	1	(10)	0	(0)	0	(0)
muscle	nodule		1	(20)	1	(10)	0	(0)	0	(0)
peritoneum	nodule		0	(0)	0	(0)	1	(14)	0	(0)
abdominal c	ascites		0	(0)	0	(0)	1	(14)	2	(67)
thoracic ca	pleural fluid		2	(40)	0	(0)	1	(14)	1	(33)
other	thick		0	(0)	0	(0)	1	(14)	0	(0)
whole body	anemic		0	(0)	1	(10)	1	(14)	0	(0)

TABLE I 3

GROSS FINDINGS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			45	(%)	40	(%)	43	(%)	47	(%)
skin/app	nodule		2	(4)	2	(5)	3	(7)	3	(6)
	scab		0	(0)	1	(3)	0	(0)	0	(0)
subcutis	mass		11	(24)	8	(20)	8	(19)	6	(13)
nasal cavit	white zone		0	(0)	0	(0)	1	(2)	2	(4)
lung	white zone		7	(16)	0	(0)	0	(0)	2	(4)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		1	(2)	1	(3)	1	(2)	0	(0)
lymph node	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
spleen	enlarged		1	(2)	1	(3)	2	(5)	2	(4)
	nodule		1	(2)	0	(0)	1	(2)	0	(0)
tongue	nodule		1	(2)	0	(0)	0	(0)	0	(0)
stomach	forestomach:ulcer		0	(0)	1	(3)	0	(0)	0	(0)
	glandular stomach:ulcer		0	(0)	1	(3)	2	(5)	0	(0)
	glandular stomach:erosion		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:nodule		0	(0)	1	(3)	0	(0)	0	(0)
	glandular stomach:thick		1	(2)	1	(3)	0	(0)	1	(2)
liver	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	1	(3)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	1	(2)
	cyst		0	(0)	0	(0)	0	(0)	1	(2)
	herniation		5	(11)	7	(18)	1	(2)	9	(19)
pancreas	nodule		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0774
 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		12ppm		50ppm		200ppm	
			45	(%)	40	(%)	43	(%)	47	(%)
kidney	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	granular		0	(0)	1	(3)	1	(2)	3	(6)
pituitary	enlarged		0	(0)	3	(8)	4	(9)	3	(6)
	red zone		4	(9)	7	(18)	3	(7)	2	(4)
	nodule		6	(13)	2	(5)	3	(7)	1	(2)
	cyst		0	(0)	1	(3)	0	(0)	0	(0)
thyroid	enlarged		5	(11)	6	(15)	4	(9)	5	(11)
	red zone		0	(0)	1	(3)	0	(0)	0	(0)
adrenal	enlarged		3	(7)	1	(3)	1	(2)	1	(2)
testis	small		0	(0)	1	(3)	0	(0)	0	(0)
	nodule		41	(91)	38	(95)	36	(84)	44	(94)
eye	white		2	(4)	2	(5)	4	(9)	8	(17)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
muscle	nodule		0	(0)	0	(0)	0	(0)	1	(2)
peritoneum	nodule		0	(0)	0	(0)	1	(2)	0	(0)
abdominal c	ascites		0	(0)	0	(0)	1	(2)	0	(0)
adipose	nodule		0	(0)	1	(3)	0	(0)	0	(0)
other	eye lid:nodule		1	(2)	0	(0)	0	(0)	0	(0)
	ear:nodule		0	(0)	1	(3)	0	(0)	0	(0)
	nose:nodule		1	(2)	0	(0)	0	(0)	0	(0)

TABLE I 4

GROSS FINDINGS : FEMALE

ALL ANIMALS

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		2	(4)	1	(2)	0	(0)	0	(0)
	scab		0	(0)	1	(2)	1	(2)	0	(0)
subcutis	jaundice		1	(2)	0	(0)	0	(0)	0	(0)
	mass		11	(22)	6	(12)	8	(16)	3	(6)
lung	red		0	(0)	0	(0)	1	(2)	0	(0)
	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	red zone		0	(0)	0	(0)	2	(4)	0	(0)
	edema		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
lymph node	enlarged		1	(2)	2	(4)	0	(0)	1	(2)
spleen	enlarged		6	(12)	4	(8)	4	(8)	2	(4)
	white zone		0	(0)	0	(0)	0	(0)	1	(2)
heart	white zone		0	(0)	1	(2)	0	(0)	0	(0)
tongue	nodule		0	(0)	0	(0)	1	(2)	0	(0)
stomach	forestomach:ulcer		3	(6)	1	(2)	2	(4)	1	(2)
	forestomach:erosion		0	(0)	0	(0)	1	(2)	0	(0)
	forestomach:thick		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:ulcer		0	(0)	1	(2)	1	(2)	0	(0)
	glandular stomach:thick		0	(0)	0	(0)	1	(2)	0	(0)
liver	enlarged		0	(0)	1	(2)	0	(0)	0	(0)
	white zone		4	(8)	0	(0)	2	(4)	0	(0)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	nodule		2	(4)	0	(0)	0	(0)	0	(0)
	cyst		0	(0)	0	(0)	1	(2)	0	(0)
	rough		3	(6)	1	(2)	2	(4)	1	(2)
	herniation		10	(20)	7	(14)	12	(24)	14	(28)
kidney	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	granular		0	(0)	1	(2)	0	(0)	0	(0)
urin bladd	urine:marked retention		2	(4)	0	(0)	3	(6)	0	(0)
pituitary	enlarged		8	(16)	12	(24)	11	(22)	6	(12)
	red zone		11	(22)	9	(18)	9	(18)	7	(14)
	black zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		6	(12)	5	(10)	2	(4)	2	(4)
	cyst		1	(2)	0	(0)	0	(0)	0	(0)
thyroid	enlarged		1	(2)	4	(8)	5	(10)	2	(4)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
adrenal	enlarged		0	(0)	2	(4)	0	(0)	2	(4)
ovary	enlarged		1	(2)	0	(0)	2	(4)	0	(0)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
uterus	nodule		7	(14)	5	(10)	6	(12)	3	(6)
	dilated lumen		0	(0)	0	(0)	0	(0)	1	(2)
vagina	nodule		0	(0)	0	(0)	1	(2)	1	(2)
eye	white		6	(12)	3	(6)	5	(10)	4	(8)
Zymbal gl	nodule		1	(2)	1	(2)	0	(0)	1	(2)

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
retroperit	nodule		0	(0)	0	(0)	1	(2)	0	(0)
abdominal c	hemorrhage		1	(2)	0	(0)	0	(0)	0	(0)
	ascites		0	(0)	1	(2)	0	(0)	0	(0)
thoracic ca	pleural fluid		0	(0)	1	(2)	2	(4)	0	(0)
other	ear:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	hindlimb:nodule		0	(0)	0	(0)	1	(2)	0	(0)
whole body	anemic		1	(2)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 5

TABLE I 5

GROSS FINDINGS : FEMALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control				12ppm				50ppm				200ppm			
			8	(%)	10	(%)	8	(%)	10	(%)	8	(%)	10	(%)	8	(%)	10	(%)
skin/app	scab		0	(0)	1	(10)			0	(0)			0	(0)				
subcutis	jaundice		1	(13)	0	(0)			0	(0)			0	(0)				
	mass		0	(0)	0	(0)			2	(20)			0	(0)				
lung	red		0	(0)	0	(0)			1	(10)			0	(0)				
	red zone		0	(0)	0	(0)			1	(10)			0	(0)				
	edema		0	(0)	0	(0)			1	(10)			0	(0)				
	nodule		0	(0)	1	(10)			0	(0)			0	(0)				
lymph node	enlarged		0	(0)	2	(20)			0	(0)			1	(13)				
spleen	enlarged		3	(38)	4	(40)			2	(20)			0	(0)				
tongue	nodule		0	(0)	0	(0)			1	(10)			0	(0)				
stomach	forestomach:ulcer		2	(25)	0	(0)			0	(0)			1	(13)				
	forestomach:erosion		0	(0)	0	(0)			1	(10)			0	(0)				
liver	enlarged		0	(0)	1	(10)			0	(0)			0	(0)				
	white zone		1	(13)	0	(0)			0	(0)			0	(0)				
	rough		1	(13)	1	(10)			0	(0)			0	(0)				
	herniation		1	(13)	0	(0)			2	(20)			1	(13)				
urin bladd	urine:marked retention		2	(25)	0	(0)			2	(20)			0	(0)				
pituitary	enlarged		2	(25)	6	(60)			5	(50)			3	(38)				
	red zone		0	(0)	0	(0)			1	(10)			1	(13)				
	black zone		0	(0)	0	(0)			1	(10)			0	(0)				
	nodule		1	(13)	1	(10)			0	(0)			1	(13)				
	cyst		1	(13)	0	(0)			0	(0)			0	(0)				

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			8	(%)	10	(%)	10	(%)	8	(%)
thyroid	enlarged		0	(0)	1	(10)	0	(0)	0	(0)
adrenal	enlarged		0	(0)	1	(10)	0	(0)	1	(13)
ovary	enlarged		0	(0)	0	(0)	1	(10)	0	(0)
uterus	nodule		4	(50)	0	(0)	2	(20)	1	(13)
	dilated lumen		0	(0)	0	(0)	0	(0)	1	(13)
vagina	nodule		0	(0)	0	(0)	1	(10)	0	(0)
eye	white		2	(25)	0	(0)	1	(10)	2	(25)
Zymbal gl	nodule		0	(0)	0	(0)	0	(0)	1	(13)
abdominal c	hemorrhage		1	(13)	0	(0)	0	(0)	0	(0)
	ascites		0	(0)	1	(10)	0	(0)	0	(0)
thoracic ca	pleural fluid		0	(0)	1	(10)	2	(20)	0	(0)
whole body	anemic		1	(13)	0	(0)	0	(0)	0	(0)

TABLE I 6

GROSS FINDINGS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			42	(%)	40	(%)	40	(%)	42	(%)
skin/app	nodule		2	(5)	1	(3)	0	(0)	0	(0)
	scab		0	(0)	0	(0)	1	(3)	0	(0)
subcutis	mass		11	(26)	6	(15)	6	(15)	3	(7)
lung	white zone		0	(0)	0	(0)	1	(3)	0	(0)
	red zone		0	(0)	0	(0)	1	(3)	0	(0)
lymph node	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
spleen	enlarged		3	(7)	0	(0)	2	(5)	2	(5)
	white zone		0	(0)	0	(0)	0	(0)	1	(2)
heart	white zone		0	(0)	1	(3)	0	(0)	0	(0)
stomach	forestomach:ulcer		1	(2)	1	(3)	2	(5)	0	(0)
	forestomach:thick		0	(0)	0	(0)	1	(3)	0	(0)
	glandular stomach:ulcer		0	(0)	1	(3)	1	(3)	0	(0)
	glandular stomach:thick		0	(0)	0	(0)	1	(3)	0	(0)
liver	white zone		3	(7)	0	(0)	2	(5)	0	(0)
	red zone		0	(0)	0	(0)	1	(3)	0	(0)
	nodule		2	(5)	0	(0)	0	(0)	0	(0)
	cyst		0	(0)	0	(0)	1	(3)	0	(0)
	rough		2	(5)	0	(0)	2	(5)	1	(2)
	herniation		9	(21)	7	(18)	10	(25)	13	(31)
kidney	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	granular		0	(0)	1	(3)	0	(0)	0	(0)
urin bladd	urine:marked retention		0	(0)	0	(0)	1	(3)	0	(0)

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		12ppm		50ppm		200ppm	
			42	(%)	40	(%)	40	(%)	42	(%)
pituitary	enlarged		6	(14)	6	(15)	6	(15)	3	(7)
	red zone		11	(26)	9	(23)	8	(20)	6	(14)
	nodule		5	(12)	4	(10)	2	(5)	1	(2)
thyroid	enlarged		1	(2)	3	(8)	5	(13)	2	(5)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
adrenal	enlarged		0	(0)	1	(3)	0	(0)	1	(2)
ovary	enlarged		1	(2)	0	(0)	1	(3)	0	(0)
	nodule		0	(0)	1	(3)	0	(0)	0	(0)
uterus	nodule		3	(7)	5	(13)	4	(10)	2	(5)
vagina	nodule		0	(0)	0	(0)	0	(0)	1	(2)
eye	white		4	(10)	3	(8)	4	(10)	2	(5)
Zymbal gl	nodule		1	(2)	1	(3)	0	(0)	0	(0)
retroperit	nodule		0	(0)	0	(0)	1	(3)	0	(0)
other	ear:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	hindlimb:nodule		0	(0)	0	(0)	1	(3)	0	(0)

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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	45	399±	28	0.124±	0.226	3.468±	1.214	1.193±	0.101	1.442±	0.139	2.691±	0.181
12ppm	40	393±	24	0.079±	0.015	3.645±	1.225	1.229±	0.124	1.441±	0.126	2.739±	0.229
50ppm	42	389±	34	0.077±	0.014	3.934±	1.594	1.203±	0.074	1.438±	0.087	2.709±	0.260
200ppm	47	374±	33**	0.074±	0.022**	4.259±	1.374*	1.177±	0.119	1.420±	0.160	2.682±	0.293

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

Test of Dunnett

(HCL040)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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	45	1.131±	0.881	11.140±	1.397	2.095±	0.036
12ppm	40	1.083±	0.503	11.176±	1.342	2.103±	0.050
50ppm	42	1.288±	1.517	10.897±	1.120	2.084±	0.044
200ppm	47	1.033±	0.634*	10.702±	2.103	2.063±	0.044**

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

Test of Dunnett

(HCL040)

BAIS5

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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	42	260± 28	0.074± 0.011	0.138± 0.030	0.879± 0.066	1.059± 0.240	1.775± 0.103
12ppm	40	253± 23	0.254± 1.108	0.227± 0.563	0.874± 0.064	1.013± 0.104	1.813± 0.202
50ppm	40	250± 37	0.075± 0.009	0.927± 5.040	0.872± 0.086	1.024± 0.171	1.764± 0.135
200ppm	41	243± 21**	0.078± 0.022	0.139± 0.023	0.843± 0.063	0.992± 0.199*	1.705± 0.120

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

(HCL040)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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	42	1.007±	1.678	6.736±	0.880	1.900±	0.037
12ppm	40	0.639±	0.319	6.467±	0.713	1.896±	0.045
50ppm	40	0.694±	0.749	6.626±	2.022*	1.891±	0.046
200ppm	41	0.960±	2.470*	5.971±	1.070**	1.870±	0.043**

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

Test of Dunnett

(HCL040)

BAIS5

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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	45	399± 28	0.033± 0.070	0.873± 0.313	0.300± 0.027	0.362± 0.035	0.676± 0.048
12ppm	40	393± 24	0.020± 0.004	0.929± 0.311	0.314± 0.033	0.368± 0.034	0.700± 0.069
50ppm	42	389± 34	0.020± 0.004	1.014± 0.411	0.312± 0.033	0.373± 0.046	0.701± 0.088
200ppm	47	374± 33**	0.020± 0.006	1.141± 0.355**	0.316± 0.037	0.382± 0.049**	0.719± 0.072**

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0774
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	45	0.281± 0.200	2.788± 0.253	0.527± 0.038
12ppm	40	0.275± 0.125	2.848± 0.304	0.537± 0.033
50ppm	42	0.342± 0.439	2.807± 0.211	0.540± 0.051
200ppm	47	0.277± 0.171	2.861± 0.523	0.555± 0.042**

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

Test of Dunnett

(HCL042)

BAIS 5

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
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	42	260± 28	0.029± 0.005	0.053± 0.012	0.342± 0.050	0.419± 0.164	0.691± 0.096
12ppm	40	253± 23	0.113± 0.519*	0.091± 0.230	0.347± 0.035	0.403± 0.054	0.723± 0.123
50ppm	40	250± 37	0.031± 0.008	0.429± 2.379	0.354± 0.048	0.418± 0.095	0.721± 0.129
200ppm	41	243± 21**	0.032± 0.008*	0.058± 0.009	0.349± 0.028	0.412± 0.098	0.705± 0.051

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	42	0.452± 0.939	2.628± 0.561	0.740± 0.096
12ppm	40	0.254± 0.128	2.567± 0.332	0.755± 0.072
50ppm	40	0.288± 0.354	2.657± 0.620	0.773± 0.123
200ppm	41	0.416± 1.143	2.469± 0.469*	0.776± 0.069

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

Test of Dunnett

(HCL042)

BAIS5

TABLE L1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
ALL ANIMALS

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app	ulcer		<50>				<50>				<50>				<50>			
			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)
	fibrosis		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)
	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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	scab		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)
	epidermal cyst		0	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)
subcutis	hematoma		<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)
	abscess		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)
{Respiratory system}																		
nasal cavit	eosinophilic change:olfactory epithelium		<50>				<50>				<50>				<50>			
			23	10	2	0	23	11	0	0	19	16	0	0	9	35	5	0 **
			(46)	(20)	(4)	(0)	(46)	(22)	(0)	(0)	(38)	(32)	(0)	(0)	(18)	(70)	(10)	(0)

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit	eosinophilic change:respiratory epithelium		<50>				<50>				<50>				<50>			
			3	0	0	0	3	0	0	0	4	0	0	0	23	0	0	0 **
			(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(46)	(0)	(0)	(0)
	inflammation:foreign body		16	3	0	0	17	0	0	0	15	3	0	0	15	3	0	0
			(32)	(6)	(0)	(0)	(34)	(0)	(0)	(0)	(30)	(6)	(0)	(0)	(30)	(6)	(0)	(0)
	inflammation:respiratory epithelium		5	0	0	0	4	0	0	0	6	0	0	0	3	0	0	0
			(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		3	0	0	0	7	0	0	0	2	0	0	0	7	0	0	0
			(6)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	respiratory metaplasia:gland		10	0	0	0	8	0	0	0	6	0	0	0	11	0	0	0
			(20)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(22)	(0)	(0)	(0)
	regeneration:olfactory epithelium		1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	2	0	0	0	1	0	0	0	14	0	0	0 **
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(28)	(0)	(0)	(0)
larynx	inflammation		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0774
 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 No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
trachea	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)	1 (2)	0 (0)	0 (0)	0 (0)	
	hyperplasia:epithelium		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)	
lung	edema		<50>				<50>				<50>				<50>			
		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
		inflammatory infiltration		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
		accumulation of foamy cells		3 (6)	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)	
		bronchiolar-alveolar cell hyperplasia		3 (6)	3 (6)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)
		inflammation:foreign body		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)
(Hematopoietic system)																		
bone marrow	granulation		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	

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. : 0774
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	Control				12ppm				50ppm				200ppm			
		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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	increased hematopoiesis		1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen			<50>				<50>				<50>				<50>			
	atrophy		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)	0 (0)	0 (0)	0 (0)
	congestion		5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		20 (40)	1 (2)	0 (0)	0 (0)	21 (42)	1 (2)	0 (0)	0 (0)	17 (34)	1 (2)	0 (0)	0 (0)	20 (40)	0 (0)	0 (0)	0 (0)
	fibrosis		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		5 (10)	1 (2)	0 (0)	0 (0)	2 (4)	3 (6)	0 (0)	0 (0)	8 (16)	2 (4)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	thrombus		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
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(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	myocardial fibrosis		13	4	0	0	10	2	0	0	8	4	0	0	10	1	0	0
		(26)	(8)	(0)	(0)	(20)	(4)	(0)	(0)	(16)	(8)	(0)	(0)	(20)	(2)	(0)	(0)	
(Digestive system)																		
tongue			<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)	
			<50>				<50>				<50>				<50>			
	arteritis		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)	
stomach			<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)	
			<50>				<50>				<50>				<50>			
	ulcer:forestomach		1	0	0	0	2	2	0	0	0	1	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
			<50>				<50>				<50>				<50>			
	hyperplasia:forestomach		1	0	0	0	2	2	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
 < a > a : Number of animals examined at the site
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STUDY NO. : 0774
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 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		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		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	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)
large intes			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver			<50>				<50>				<50>				<50>			
	herniation		6 (12)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)
	necrosis:central		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)
	fatty change		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	granulation		9 (18)	1 (2)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	clear cell focus		4 (8)	0 (0)	0 (0)	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)
	acidophilic cell focus		23 (46)	1 (2)	0 (0)	0 (0)	17 (34)	1 (2)	0 (0)	0 (0)	20 (40)	1 (2)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		12 (24)	4 (8)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	10 (20)	1 (2)	0 (0)	0 (0)	6 (12)	0 (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)	0 (0)	0 (0)	0 (0)	0 (0)
	spongiosis hepatitis		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		30 (60)	18 (36)	0 (0)	0 (0)	24 (48)	25 (50)	0 (0)	0 (0)	23 (46)	25 (50)	0 (0)	0 (0)	31 (62)	19 (38)	0 (0)	0 (0)
cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	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 b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

		Group Name	Control				12ppm				50ppm				200ppm			
Organ	Findings	No. of Animals on Study	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		Grade	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver	biliary cyst		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
pancreas	atrophy		<50>				<50>				<50>				<50>			
		21 (42)	1 (2)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)	15 (30)	2 (4)	1 (2)	0 (0)	13 (26)	2 (4)	1 (2)	0 (0)	
	acidophilic cell focus		<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)	
	islet cell hyperplasia		<50>				<50>				<50>				<50>			
			3 (6)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney	deposit of hemosiderin		<50>				<50>				<50>				<50>			
		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)
	fibrosis		<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)

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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	chronic nephropathy		19 (38)	17 (34)	11 (22)	1 (2)	20 (40)	19 (38)	9 (18)	0 (0)	21 (42)	19 (38)	7 (14)	0 (0)	25 (50)	15 (30)	9 (18)	0 (0)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	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)
	urothelial hyperplasia:pelvis		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)
	atypical tubule hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	dilated 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)	
urin bladd			<50>				<50>				<50>				<50>			
	dilatation		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)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	angiectasis		0 (0)	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)

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. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name	Control				12ppm				50ppm				200ppm			
		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>			
	hyperplasia		18 (36)	7 (14)	0 (0)	0 (0)	12 (24)	11 (22)	0 (0)	0 (0)	14 (28)	10 (20)	0 (0)	0 (0)	15 (30)	6 (12)	0 (0)	0 (0)
	Rathke pouch		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
thyroid			<50>				<50>				<50>				<50>			
	ultimobranchial body remanet		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)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	C-cell hyperplasia		19 (38)	8 (16)	0 (0)	0 (0)	8 (16)	4 (8)	0 (0)	0 (0) **	10 (20)	5 (10)	0 (0)	0 (0)	11 (22)	9 (18)	0 (0)	0 (0)
	cystic thyroid follicle		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal			<50>				<50>				<50>				<50>			
	hyperplasia:cortical cell		0 (0)	1 (2)	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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal	hyperplasia:medulla		<50>				<50>				<50>				<50>			
			5 (10)	2 (4)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	5 (10)	4 (8)	0 (0)	0 (0)	5 (10)	3 (6)	0 (0)	0 (0)
	focal fatty change:cortex		<50>				<50>				<50>				<50>			
			0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
testis	mineralization		<50>				<50>				<50>				<50>			
			2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	arteritis		<50>				<50>				<50>				<50>			
			4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	interstitial cell hyperplasia		<50>				<50>				<50>				<50>			
			7 (14)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
prostate	inflammation		<50>				<50>				<50>				<50>			
			1 (2)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 * (0)	5 (10)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
prostate	hyperplasia		<50>				<50>				<50>				<50>			
			8	4	0	0	10	2	0	0	10	3	0	0	11	3	0	0
			(16)	(8)	(0)	(0)	(20)	(4)	(0)	(0)	(20)	(6)	(0)	(0)	(22)	(6)	(0)	(0)
mammary gl	galactoceles		<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)
(Nervous system)																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
eye	fibrosis		<50>				<50>				<50>				<50>			
			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)
	cataract		<50>				<50>				<50>				<50>			
			0	2	0	0	2	2	0	0	2	2	0	0	1	7	0	0
			(0)	(4)	(0)	(0)	(4)	(4)	(0)	(0)	(4)	(4)	(0)	(0)	(2)	(14)	(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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		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	retinal atrophy		<50>				<50>				<50>				<50>			
		1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	1 (2)	0 (0)	2 (4)	0 (0)	2 (4)	0 (0)	2 (4)	3 (6)	4 (8)	0 (0)	
Harder gl	lymphocytic infiltration		<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)	2 (4)	0 (0)	0 (0)	0 (0)	
nasolacr d	inflammation		<50>				<50>				<50>				<50>			
		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)	0 (0)	0 (0)	0 (0)	
(Musculoskeletal system)																		
muscle	atrophy		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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 L2

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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 No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app	epidermal cyst		< 5>				<10>				< 7>				< 3>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)
(Respiratory system)																		
nasal cavit	eosinophilic change:olfactory epithelium		< 5>				<10>				< 7>				< 3>			
			0	1	0	0	3	1	0	0	3	1	0	0	2	0	0	0
			(0)	(20)	(0)	(0)	(30)	(10)	(0)	(0)	(43)	(14)	(0)	(0)	(67)	(0)	(0)	(0)
	inflammation:foreign body		0	0	0	0	2	0	0	0	2	1	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(29)	(14)	(0)	(0)	(33)	(0)	(0)	(0)
	inflammation:respiratory epithelium		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(33)	(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. : 0774
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	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	5				10				7				3			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
trachea	inflammation		< 5>				<10>				< 7>				< 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 (33)	0 (0)	0 (0)	0 (0)	
	hyperplasia:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	
lung	edema		< 5>				<10>				< 7>				< 3>			
		0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (29)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	
		inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)
(Hematopoietic system)																		
bone marrow	increased hematopoiesis		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (29)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [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				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen	atrophy		< 5>				<10>				< 7>				< 3>			
			0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
	deposit of hemosiderin		2	1	0	0	4	1	0	0	1	1	0	0	0	0	0	0
			(40)	(20)	(0)	(0)	(40)	(10)	(0)	(0)	(14)	(14)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	1	0	0	1	2	0	0	2	1	0	0	1	0	0	0
			(20)	(20)	(0)	(0)	(10)	(20)	(0)	(0)	(29)	(14)	(0)	(0)	(33)	(0)	(0)	(0)
(Circulatory system)																		
heart	thrombus		< 5>				<10>				< 7>				< 3>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myocardial fibrosis		0	3	0	0	3	2	0	0	2	3	0	0	0	1	0	0
			(0)	(60)	(0)	(0)	(30)	(20)	(0)	(0)	(29)	(43)	(0)	(0)	(0)	(33)	(0)	(0)
(Digestive system)																		
tongue	inflammatory infiltration		< 5>				<10>				< 7>				< 3>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach	ulcer:forestomach		< 5>				<10>				< 7>				< 3>			
			1	0	0	0	2	2	0	0	0	1	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(20)	(20)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		1	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(20)	(10)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
liver	herniation		< 5>				<10>				< 7>				< 3>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change		0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver	basophilic cell focus		< 5>				<10>				< 7>				< 3>			
			0 (0)	1 (20)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		3 (60)	0 (0)	0 (0)	0 (0)	5 (50)	5 (50)	0 (0)	0 (0)	4 (57)	3 (43)	0 (0)	0 (0)	2 (67)	1 (33)	0 (0)	0 (0)
pancreas	atrophy		< 5>				<10>				< 7>				< 3>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	2 (29)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney	deposit of hemosiderin		< 5>				<10>				< 7>				< 3>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	chronic nephropathy		2 (40)	0 (0)	0 (0)	1 (20)	6 (60)	1 (10)	1 (10)	0 (0)	2 (29)	2 (29)	1 (14)	0 (0)	2 (67)	0 (0)	0 (0)	0 (0)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (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 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	urothelial hyperplasia:pelvis		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	dilated 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 (33)	0 (0)	0 (0)	0 (0)
urin bladd	dilatation		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Endocrine system)																		
pituitary	hyperplasia		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid	C-cell hyperplasia		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal	hyperplasia:medulla		< 5>				<10>				< 7>				< 3>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	1 (33)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

		Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	5				10				7				3			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
(Reproductive system)																		
testis	arteritis		< 5>				<10>				< 7>				< 3>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	interstitial cell hyperplasia	0	0	0	0	3	0	0	0	1	0	0	0	2	0	0	0	0
	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(67)	(0)	(0)	(0)	(0)	
prostate	inflammation		< 5>				<10>				< 7>				< 3>			
		0	0	0	0	4	0	0	0	2	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(0)
	hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
(Nervous system)																		
brain	hemorrhage		< 5>				<10>				< 7>				< 3>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
(Special sense organs/appendage)																		
eye	cataract		< 5>				<10>				< 7>				< 3>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

		Control				12ppm				50ppm				200ppm			
		5				10				7				3			
Organ	Findings	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																	
eye		< 5>				<10>				< 7>				< 3>			
	retinal atrophy	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
(Musculoskeletal system)																	
muscle		< 5>				<10>				< 7>				< 3>			
	atrophy	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(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 L3

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<45>				<40>				<43>				<47>			
	ulcer		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)
	fibrosis		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)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	scab		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)
	epidermal cyst		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)	1 (2)	0 (0)	0 (0)
subcutis			<45>				<40>				<43>				<47>			
	hematoma		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)
	abscess		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Respiratory system)																		
nasal cavit			<45>				<40>				<43>				<47>			
	eosinophilic change:olfactory epithelium		23 (51)	9 (20)	2 (4)	0 (0)	20 (50)	10 (25)	0 (0)	0 (0)	16 (37)	15 (35)	0 (0)	0 (0)	7 (15)	35 (74)	5 (11)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 45				12ppm 40				50ppm 43				200ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<45>				<40>				<43>				<47>			
	eosinophilic change:respiratory epithelium		3 (7)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	4 (9)	0 (0)	0 (0)	0 (0)	23 (49)	0 (0)	0 (0)	0 (0) **
	inflammation:foreign body		16 (36)	3 (7)	0 (0)	0 (0)	15 (38)	0 (0)	0 (0)	0 (0)	13 (30)	2 (5)	0 (0)	0 (0)	14 (30)	3 (6)	0 (0)	0 (0)
	inflammation:respiratory epithelium		5 (11)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	6 (14)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		3 (7)	0 (0)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	7 (15)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		9 (20)	0 (0)	0 (0)	0 (0)	8 (20)	0 (0)	0 (0)	0 (0)	6 (14)	0 (0)	0 (0)	0 (0)	10 (21)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (28)	0 (0)	0 (0)	0 (0) **
larynx			<45>				<40>				<43>				<47>			
	inflammation		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)

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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 45				12ppm 40				50ppm 43				200ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung			<45>				<40>				<43>				<47>			
	edema		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)
	inflammatory infiltration		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		3 (7)	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)
	bronchiolar-alveolar cell hyperplasia		3 (7)	3 (7)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
(Hematopoietic system)																		
bone marrow			<45>				<40>				<43>				<47>			
	granulation		1 (2)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
spleen			<45>				<40>				<43>				<47>			
	congestion		5 (11)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	6 (14)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<45>				<40>				<43>				<47>			
	deposit of hemosiderin		18 (40)	0 (0)	0 (0)	0 (0)	17 (43)	0 (0)	0 (0)	0 (0)	16 (37)	0 (0)	0 (0)	0 (0)	20 (43)	0 (0)	0 (0)	0 (0)
	fibrosis		0 (0)	1 (2)	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)
	extramedullary hematopoiesis		4 (9)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	6 (14)	1 (2)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<45>				<40>				<43>				<47>			
	myocardial fibrosis		13 (29)	1 (2)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	6 (14)	1 (2)	0 (0)	0 (0)	10 (21)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
tongue			<45>				<40>				<43>				<47>			
	arteritis		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 (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. : 0774
 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 45				12ppm 40				50ppm 43				200ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
stomach	inflammatory infiltration		<45>				<40>				<43>				<47>			
		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:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
		erosion:glandular stomach	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
small intes	inflammatory infiltration	hyperplasia:glandular stomach	0 (0)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
			<45>				<40>				<43>				<47>			
		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)	
		large intes	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)
liver	herniation		<45>				<40>				<43>				<47>			
		5 (11)	0 (0)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	1 (2)	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

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

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 45				12ppm 40				50ppm 43				200ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver	granulation		9 (20)	1 (2)	0 (0)	0 (0)	9 (23)	0 (0)	0 (0)	0 (0)	10 (23)	0 (0)	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)	0 (0)
	clear cell focus		4 (9)	0 (0)	0 (0)	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)
	acidophilic cell focus		23 (51)	1 (2)	0 (0)	0 (0)	17 (43)	1 (3)	0 (0)	0 (0)	19 (44)	1 (2)	0 (0)	0 (0)	15 (32)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		12 (27)	3 (7)	0 (0)	0 (0)	8 (20)	0 (0)	0 (0)	0 (0)	10 (23)	1 (2)	0 (0)	0 (0)	6 (13)	0 (0)	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)	0 (0)	0 (0)	0 (0)	0 (0)
	spongiosis hepatitis		3 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		27 (60)	18 (40)	0 (0)	0 (0)	19 (48)	20 (50)	0 (0)	0 (0)	19 (44)	22 (51)	0 (0)	0 (0)	29 (62)	18 (38)	0 (0)	0 (0)
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	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	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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
(%)		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Digestive system)																		
liver		<45>				<40>				<43>				<47>				
	biliary cyst	1 (2)	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)	
pancreas		<45>				<40>				<43>				<47>				
	atrophy	21 (47)	1 (2)	0 (0)	0 (0)	16 (40)	0 (0)	0 (0)	0 (0)	15 (35)	0 (0)	1 (2)	0 (0)	13 (28)	2 (4)	1 (2)	0 (0)	
	acidophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	islet cell hyperplasia	3 (7)	1 (2)	0 (0)	0 (0)	2 (5)	1 (3)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
(Urinary system)																		
kidney		<45>				<40>				<43>				<47>				
	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)	
	fibrosis	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. : 0774
 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				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<45>				<40>				<43>				<47>			
	chronic nephropathy		17 (38)	17 (38)	11 (24)	0 (0)	14 (35)	18 (45)	8 (20)	0 (0)	19 (44)	17 (40)	6 (14)	0 (0)	23 (49)	15 (32)	9 (19)	0 (0)
	mineralization:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	atypical tubule 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)
(Endocrine system)																		
pituitary			<45>				<40>				<43>				<47>			
	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia		18 (40)	7 (16)	0 (0)	0 (0)	10 (25)	11 (28)	0 (0)	0 (0)	13 (30)	10 (23)	0 (0)	0 (0)	14 (30)	6 (13)	0 (0)	0 (0)
	Rathke pouch		3 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	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. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 45				12ppm 40				50ppm 43				200ppm 47			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
thyroid			<45>				<40>				<43>				<47>			
	ultimobranchial body remanet		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)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	C-cell hyperplasia		19 (42)	8 (18)	0 (0)	0 (0)	7 (18)	4 (10)	0 (0)	0 * (0)	10 (23)	5 (12)	0 (0)	0 (0)	11 (23)	9 (19)	0 (0)	0 (0)
	cystic thyroid follicle		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)
adrenal			<45>				<40>				<43>				<47>			
	hyperplasia:cortical cell		0 (0)	1 (2)	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)
	hyperplasia:medulla		5 (11)	2 (4)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	4 (9)	4 (9)	0 (0)	0 (0)	4 (9)	2 (4)	0 (0)	0 (0)
	focal fatty change:cortex		0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
testis			<45>				<40>				<43>				<47>			
	mineralization		2 (4)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

		Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
testis			<45>				<40>				<43>				<47>			
	arteritis	3	0	0	0	1	0	0	0	3	0	0	0	1	0	0	0	
		(7)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	interstitial cell hyperplasia	7	0	0	0	5	0	0	0	8	0	0	0	4	0	0	0	
		(16)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	
prostate			<45>				<40>				<43>				<47>			
	inflammation	1	0	0	0	4	0	0	0	3	0	0	0	3	0	0	0	
		(2)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	hyperplasia	8	4	0	0	9	2	0	0	10	3	0	0	11	3	0	0	
		(18)	(9)	(0)	(0)	(23)	(5)	(0)	(0)	(23)	(7)	(0)	(0)	(23)	(6)	(0)	(0)	
mammary gl			<45>				<40>				<43>				<47>			
	galactoceles	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)	
(Special sense organs/appendage)																		
eye			<45>				<40>				<43>				<47>			
	fibrosis	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

		Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	45				40				43				47			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye			<45>				<40>				<43>				<47>			
	cataract		0 (0)	2 (4)	0 (0)	0 (0)	2 (5)	1 (3)	0 (0)	0 (0)	2 (5)	2 (5)	0 (0)	0 (0)	1 (2)	7 (15)	0 (0)	0 (0)
	retinal atrophy		1 (2)	1 (2)	0 (0)	0 (0)	2 (5)	1 (3)	0 (0)	0 (0)	2 (5)	0 (0)	2 (5)	0 (0)	1 (2)	3 (6)	4 (9)	0 (0)
Harder gl			<45>				<40>				<43>				<47>			
	lymphocytic infiltration		1 (2)	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)
nasolacr d			<45>				<40>				<43>				<47>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (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 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

(HPT150)

BA155

TABLE L4

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
ALL ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name	Control				12ppm				50ppm				200ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Integumentary system/appandage)																			
skin/app			<50>				<50>				<50>				<50>				
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	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)
	scab		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)	
(Respiratory system)																			
nasal cavit			<50>				<50>				<50>				<50>				
	eosinophilic change:olfactory epithelium		6 (12)	29 (58)	15 (30)	0 (0)	5 (10)	31 (62)	11 (22)	0 (0)	4 (8)	28 (56)	16 (32)	0 (0)	1 (2)	16 (32)	32 (64)	0 (0)	**
	eosinophilic change:respiratory epithelium		31 (62)	0 (0)	0 (0)	0 (0)	27 (54)	0 (0)	0 (0)	0 (0)	35 (70)	0 (0)	0 (0)	0 (0)	45 (90)	0 (0)	0 (0)	0 (0)	**
	inflammation:foreign body		2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	
	inflammation:respiratory epithelium		2 (4)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	
	respiratory metaplasia:olfactory 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)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	respiratory metaplasia:gland		15 (30)	0 (0)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)
	regeneration: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)	4 (8)	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)	12 (24)	0 (0)	0 (0)	0 (0) **
nasopharynx			<50>				<50>				<50>				<50>			
	inflammation:foreign body		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)
larynx			<50>				<50>				<50>				<50>			
	inflammation		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)
lung			<50>				<50>				<50>				<50>			
	congestion		1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	3 (6)	0 (0)	0 (0)
	inflammatory infiltration		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)	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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung	granulomatous 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)
	inflammatory 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)
	accumulation of foamy cells		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)
(Hematopoietic system)																		
bone marrow	granulation		6 (12)	1 (2)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	7 (14)	1 (2)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		0 (0)	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)
spleen	congestion		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	deposit of hemosiderin		22	16	0	0	19	19	0	0	22	14	0	0	25	18	0	0
			(44)	(32)	(0)	(0)	(38)	(38)	(0)	(0)	(44)	(28)	(0)	(0)	(50)	(36)	(0)	(0)
	extramedullary hematopoiesis		7	1	0	0	5	0	0	0	3	1	0	0	3	0	0	0
			(14)	(2)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(6)	(0)	(0)	(0)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	myocardial fibrosis		10	1	0	0	5	2	0	0	8	0	0	0	5	0	0	0
			(20)	(2)	(0)	(0)	(10)	(4)	(0)	(0)	(16)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	subendocardial fibrosis		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Digestive system)																		
tooth			<50>				<50>				<50>				<50>			
	dysplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
tongue	arteritis		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	ulcer:forestomach		<50>				<50>				<50>				<50>			
			3	0	0	0	1	0	0	0	3	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:forestomach		4	0	0	0	3	0	0	0	2	2	0	0	1	1	0	0
			(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(2)	(2)	(0)	(0)
	erosion:glandular stomach		2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
large intes	hyperplasia:glandular stomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	herniation		<50>				<50>				<50>				<50>			
			10	0	0	0	7	0	0	0	11	0	0	0	13	0	0	0
			(20)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(26)	(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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	peliosis-like lesion		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)
	necrosis:focal		2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	fatty change		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)
	fatty change:peripheral		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		11	3	0	0	11	3	0	0	12	5	0	0	12	0	0	0
			(22)	(6)	(0)	(0)	(22)	(6)	(0)	(0)	(24)	(10)	(0)	(0)	(24)	(0)	(0)	(0)
	clear cell focus		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus		31	1	0	0	25	3	0	0	27	2	0	0	32	0	0	0
			(62)	(2)	(0)	(0)	(50)	(6)	(0)	(0)	(54)	(4)	(0)	(0)	(64)	(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. : 0774
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				12ppm				50ppm				200ppm			
			50	1+	2+	3+	4+	50	1+	2+	3+	4+	50	1+	2+	3+	4+	200ppm
				(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)	
(Digestive system)																		
liver	bile duct hyperplasia		<50>	10 (20)	1 (2)	0 (0)	0 (0)	<50>	5 (10)	1 (2)	0 (0)	0 (0)	<50>	7 (14)	0 (0)	0 (0)	0 (0)	<50>
	cholangiofibrosis			1 (2)	1 (2)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)		1 (2)	2 (4)	0 (0)	0 (0)	
	biliary 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)	
pancreas	focal fatty change			1 (2)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)	
	atrophy		<50>	1 (2)	1 (2)	0 (0)	0 (0)	<50>	4 (8)	0 (0)	0 (0)	0 (0)	<50>	6 (12)	0 (0)	0 (0)	0 (0)	<50>
	islet cell hyperplasia			0 (0)	1 (2)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)	
(Urinary system)																		
kidney	deposit of hemosiderin		<50>	0 (0)	0 (0)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	0 (0)	<50>

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. : 0774
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				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	scar	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)
	chronic nephropathy	34 (68)	5 (10)	1 (2)	0 (0)	33 (66)	4 (8)	2 (4)	1 (2)	31 (62)	2 (4)	2 (4)	0 (0)	27 (54)	2 (4)	0 (0)	0 (0)	0 (0)
	tubular necrosis	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis	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)	0 (0)
	dilated pelvis	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
urin bladd			<50>				<50>				<50>				<50>			
	dilatation	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)	0 (0)	0 (0)	0 (0)	0 (0)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	angiectasis	5 (10)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	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 b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0774
 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_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	cyst		7 (14)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	hyperplasia		8 (16)	8 (16)	0 (0)	0 (0)	8 (16)	11 (22)	0 (0)	0 (0)	11 (22)	9 (18)	0 (0)	0 (0)	11 (22)	4 (8)	0 (0)	0 (0)
	Rathke pouch		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	aberrant craniopharyngeal tissue		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)
thyroid			<50>				<50>				<50>				<50>			
	C-cell hyperplasia		13 (26)	5 (10)	0 (0)	0 (0)	14 (28)	3 (6)	0 (0)	0 (0)	14 (28)	3 (6)	0 (0)	0 (0)	11 (22)	4 (8)	0 (0)	0 (0)
adrenal			<50>				<50>				<50>				<50>			
	peliosis-like lesion		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0774
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_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal			<50>				<50>				<50>				<50>			
	hyperplasia:medulla		1	0	0	0	0	1	0	0	1	0	0	0	1	2	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(4)	(0)	(0)
	focal fatty change:cortex		4	1	0	0	6	0	0	0	7	1	0	0	4	1	0	0
			(8)	(2)	(0)	(0)	(12)	(0)	(0)	(0)	(14)	(2)	(0)	(0)	(8)	(2)	(0)	(0)
(Reproductive system)																		
ovary			<50>				<50>				<50>				<50>			
	hyperplasia		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
uterus			<50>				<50>				<50>				<50>			
	dilatation		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)
	cystic endometrial hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Nervous system)																		
brain			<50>				<50>				<50>				<50>			
	hemorrhage		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

		Group Name	Control				12ppm				50ppm				200ppm			
		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	cataract		<50>				<50>				<50>				<50>			
		1 (2)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	1 (2)	4 (8)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)	
	retinal atrophy		0 (0)	2 (4)	3 (6)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	1 (2)	2 (4)	3 (6)	0 (0)	1 (2)	1 (2)	2 (4)	0 (0)
Harder gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		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)	
nasolacr d	inflammation		<50>				<50>				<50>				<50>			
		5 (10)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
(Musculoskeletal system)																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

(HPT150)

BA1S5

TABLE L5

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCrJ]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app	scab		< 8>				<10>				<10>				< 8>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Respiratory system)																		
nasal cavit	eosinophilic change:olfactory epithelium		< 8>				<10>				<10>				< 8>			
			1	4	3	0	2	3	2	0	3	4	1	0	1	5	1	0
			(13)	(50)	(38)	(0)	(20)	(30)	(20)	(0)	(30)	(40)	(10)	(0)	(13)	(63)	(13)	(0)
	eosinophilic change:respiratory epithelium		7	0	0	0	3	0	0	0 *	2	0	0	0 *	5	0	0	0
			(88)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(63)	(0)	(0)	(0)
	respiratory metaplasia:gland		3	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(38)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	regeneration:olfactory epithelium		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)	(25)	(0)	(0)	(0)
	atrophy:olfactory epithelium		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)	(38)	(0)	(0)	(0)
larynx	inflammation		< 8>				<10>				<10>				< 8>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0774
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 : 10

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 8				12ppm 10				50ppm 10				200ppm 8			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung	congestion		< 8>				<10>				<10>				< 8>			
			1 (13)	1 (13)	0 (0)	0 (0)	1 (10)	2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	1 (13)	3 (38)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
(Hematopoietic system)																		
bone marrow	increased hematopoiesis		< 8>				<10>				<10>				< 8>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen	congestion		< 8>				<10>				<10>				< 8>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		3 (38)	1 (13)	0 (0)	0 (0)	4 (40)	1 (10)	0 (0)	0 (0)	3 (30)	3 (30)	0 (0)	0 (0)	2 (25)	4 (50)	0 (0)	0 (0)
	extramedullary hematopoiesis		2 (25)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	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. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	8				10				10				8			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart			< 8>				<10>				<10>				< 8>			
	myocardial fibrosis		2 (25)	1 (13)	0 (0)	0 (0)	3 (30)	2 (20)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)	3 (38)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
stomach			< 8>				<10>				<10>				< 8>			
	ulcer:forestomach		2 (25)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach		2 (25)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)
	erosion:glandular stomach		2 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
large intes			< 8>				<10>				<10>				< 8>			
	inflammatory infiltration		0 (0)	1 (13)	0 (0)	0 (0)	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			< 8>				<10>				<10>				< 8>			
	herniation		1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 12

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				12ppm				50ppm				200ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
<hr/>																		
(Digestive system)																		
liver	necrosis:focal		< 8>				<10>				<10>				< 8>			
			1 (13)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	
	fatty change		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	granulation		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		3 (38)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)
	bile duct 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 (25)	0 (0)	0 (0)	0 (0)
<hr/>																		
(Urinary system)																		
kidney	chronic nephropathy		< 8>				<10>				<10>				< 8>			
			2 (25)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0)	2 (20)	1 (10)	0 (0)	0 (0)	1 (13)	1 (13)	0 (0)	0 (0)
	tubular necrosis		1 (13)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
<hr/>																		
Grade	1+ : Slight	2+ : Moderate	3+ : Marked	4+ : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 13

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 8				12ppm 10				50ppm 10				200ppm 8				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Urinary system)																			
kidney	dilated pelvis		< 8>				<10>				<10>				< 8>				
		1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
urin bladd	dilatation		< 8>				<10>				<10>				< 8>				
		0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
(Endocrine system)																			
pituitary	angiectasis		< 8>				<10>				<10>				< 8>				
		0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
	cyst		3 (38)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
thyroid	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	
		C-cell hyperplasia		< 8>				<10>				<10>				< 8>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0774
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 : 14

		Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	8				10				10				8			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal			< 8>				<10>				<10>				< 8>			
	hyperplasia:medulla		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
eye			< 8>				<10>				<10>				< 8>			
	cataract		1	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0
			(13)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(13)	(13)	(0)	(0)	
	retinal atrophy		0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
			(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(13)	(0)
Harder gl			< 8>				<10>				<10>				< 8>			
	lymphocytic infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasolacr d			< 8>				<10>				<10>				< 8>			
	inflammation		0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
(Musculoskeletal system)																		
bone			< 8>				<10>				<10>				< 8>			
	osteosclerosis		0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

TABLE L6

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 12

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<42>				<40>				<40>				<42>			
	inflammation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Respiratory system)																		
nasal cavit			<42>				<40>				<40>				<42>			
	eosinophilic change:olfactory epithelium		5	25	12	0	3	28	9	0	1	24	15	0	0	11	31	0 **
			(12)	(60)	(29)	(0)	(8)	(70)	(23)	(0)	(3)	(60)	(38)	(0)	(0)	(26)	(74)	(0)
	eosinophilic change:respiratory epithelium		24	0	0	0	24	0	0	0	33	0	0	0 *	40	0	0	0 **
			(57)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(83)	(0)	(0)	(0)	(95)	(0)	(0)	(0)
	inflammation:foreign body		2	0	0	0	4	0	0	0	3	0	0	0	3	0	0	0
			(5)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	inflammation:respiratory epithelium		2	0	0	0	5	0	0	0	3	0	0	0	4	0	0	0
			(5)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	respiratory metaplasia:gland		12	0	0	0	11	0	0	0	9	0	0	0	16	0	0	0
			(29)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(38)	(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. : 0774
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 SACRIFICED ANIMALS (105W)

PAGE : 13

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<42>				<40>				<40>				<42>			
	regeneration: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)	2 (5)	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)	9 (21)	0 (0)	0 (0)	0 (0)	0 ** (0)
nasopharynx			<42>				<40>				<40>				<42>			
	inflammation:foreign body		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)
larynx			<42>				<40>				<40>				<42>			
	inflammation		1 (2)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
lung			<42>				<40>				<40>				<42>			
	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)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulomatous inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 14

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
lung			<42>				<40>				<40>				<42>			
	inflammatory cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		0	0	0	0	2	1	0	0	2	0	0	0	2	1	0	0
			(0)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(2)	(0)	(0)
(Hematopoietic system)																		
bone marrow			<42>				<40>				<40>				<42>			
	granulation		6	1	0	0	4	1	0	0	7	1	0	0	6	0	0	0
			(14)	(2)	(0)	(0)	(10)	(3)	(0)	(0)	(18)	(3)	(0)	(0)	(14)	(0)	(0)	(0)
	increased hematopoiesis		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<42>				<40>				<40>				<42>			
	congestion		1	0	0	0	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)
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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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 15

Organ	Findings	Control				12ppm				50ppm				200ppm			
		Group Name No. of Animals on Study Grade	42	1+	2+	3+	4+	40	1+	2+	3+	4+	40	1+	2+	3+	4+
				(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)
(Hematopoietic system)																	
spleen			<42>					<40>					<40>			<42>	
	deposit of hemosiderin		19	15	0	0		15	18	0	0		19	11	0	0	
			(45)	(36)	(0)	(0)		(38)	(45)	(0)	(0)		(48)	(28)	(0)	(0)	
	extramedullary hematopoiesis		5	0	0	0		5	0	0	0		2	0	0	0	
			(12)	(0)	(0)	(0)		(13)	(0)	(0)	(0)		(5)	(0)	(0)	(0)	
(Circulatory system)																	
heart			<42>					<40>					<40>			<42>	
	myocardial fibrosis		8	0	0	0		2	0	0	0		4	0	0	0	
			(19)	(0)	(0)	(0)		(5)	(0)	(0)	(0)		(10)	(0)	(0)	(0)	
	subendocardial fibrosis		1	0	0	0		2	0	0	0		0	0	0	0	
			(2)	(0)	(0)	(0)		(5)	(0)	(0)	(0)		(0)	(0)	(0)	(0)	
(Digestive system)																	
tooth			<42>					<40>					<40>			<42>	
	dysplasia		0	0	0	0		1	0	0	0		0	0	0	0	
			(0)	(0)	(0)	(0)		(3)	(0)	(0)	(0)		(0)	(0)	(0)	(0)	

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 16

		Group Name No. of Animals on Study Grade	Control 42				12ppm 40				50ppm 40				200ppm 42				
Organ	Findings		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Digestive system)																			
tongue			<42>				<40>				<40>				<42>				
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach	ulcer:forestomach		<42>				<40>				<40>				<42>				
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach		2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia: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)	0 (0)	0 (0)	0 (0)	0 (0)
liver			<42>				<40>				<40>				<42>				
	herniation		9 (21)	0 (0)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	9 (23)	0 (0)	0 (0)	0 (0)	12 (29)	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)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
< a > a : Number of animals examined at the site
b 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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SACRIFICED ANIMALS (105W)

PAGE : 17

Organ	Findings	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<42>				<40>				<40>				<42>			
	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)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		11 (26)	3 (7)	0 (0)	0 (0)	10 (25)	3 (8)	0 (0)	0 (0)	12 (30)	5 (13)	0 (0)	0 (0)	10 (24)	0 (0)	0 (0)	0 (0)
	clear cell focus		0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		28 (67)	1 (2)	0 (0)	0 (0)	24 (60)	2 (5)	0 (0)	0 (0)	26 (65)	2 (5)	0 (0)	0 (0)	30 (71)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		10 (24)	1 (2)	0 (0)	0 (0)	5 (13)	1 (3)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	8 (19)	0 (0)	0 (0)	0 (0)
	cholangiofibrosis		1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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b b : Number of animals with lesion
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PAGE : 18

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<42>				<40>				<40>				<42>			
	biliary cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		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)
pancreas			<42>				<40>				<40>				<42>			
	atrophy		1 (2)	1 (2)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	0 (0)	5 (12)	1 (2)	0 (0)
	islet cell hyperplasia		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Urinary system}																		
kidney			<42>				<40>				<40>				<42>			
	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)	0 (0)	1 (2)	0 (0)	0 (0)
	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 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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SACRIFICED ANIMALS (105W)

PAGE : 19

Organ	Findings	Control				12ppm				50ppm				200ppm			
		Group Name No. of Animals on Study Grade	42	1+	2+	3+	4+	40	1+	2+	3+	4+	40	1+	2+	3+	4+
				(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)
{Urinary system}																	
kidney			<42>					<40>					<40>				<42>
	scar		0	1	0	0		0	0	0	0		0	0	0	0	
			(0)	(2)	(0)	(0)		(0)	(0)	(0)	(0)		(0)	(0)	(0)	(0)	
	chronic nephropathy		32	5	1	0		28	4	2	1		29	1	2	0	0 *
			(76)	(12)	(2)	(0)		(70)	(10)	(5)	(3)		(73)	(3)	(5)	(0)	(0)
	urothelial hyperplasia:pelvis		0	0	0	0		0	1	0	0		1	0	0	0	
			(0)	(0)	(0)	(0)		(0)	(3)	(0)	(0)		(3)	(0)	(0)	(0)	
	dilated pelvis		0	0	0	0		0	1	0	0		0	0	0	0	
			(0)	(0)	(0)	(0)		(0)	(3)	(0)	(0)		(0)	(0)	(0)	(0)	
urin bladd			<42>					<40>					<40>				<42>
	dilatation		0	0	0	0		0	0	0	0		0	1	0	0	
			(0)	(0)	(0)	(0)		(0)	(0)	(0)	(0)		(0)	(3)	(0)	(0)	(0)
{Endocrine system}																	
pituitary			<42>					<40>					<40>				<42>
	angiectasis		5	0	0	0		1	0	0	0		3	0	0	0	
			(12)	(0)	(0)	(0)		(3)	(0)	(0)	(0)		(8)	(0)	(0)	(0)	(2)

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

STUDY NO. : 0774
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				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
pituitary	cyst		<42>				<40>				<40>				<42>			
		4 (10)	0 (0)	0 (0)	0 (0)	2 (5)	2 (5)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	3 (7)	1 (2)	0 (0)	0 (0)	
	hyperplasia	8 (19)	8 (19)	0 (0)	0 (0)	7 (18)	10 (25)	0 (0)	0 (0)	9 (23)	9 (23)	0 (0)	0 (0)	10 (24)	4 (10)	0 (0)	0 (0)	
		Rathke pouch	1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	aberrant craniopharyngeal tissue	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
thyroid	C-cell hyperplasia		<42>				<40>				<40>				<42>			
		13 (31)	5 (12)	0 (0)	0 (0)	14 (35)	3 (8)	0 (0)	0 (0)	13 (33)	3 (8)	0 (0)	0 (0)	10 (24)	4 (10)	0 (0)	0 (0)	
adrenal	peliosis-like lesion		<42>				<40>				<40>				<42>			
		2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hyperplasia:cortical cell	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	2 (5)	0 (0)	0 (0)	2 (5)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal	hyperplasia:medulla		<42>				<40>				<40>				<42>			
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	2 (5)	0 (0)	0 (0)
	focal fatty change:cortex		4 (10)	1 (2)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	7 (18)	1 (3)	0 (0)	0 (0)	4 (10)	1 (2)	0 (0)	0 (0)
(Reproductive system)																		
ovary	hyperplasia		<42>				<40>				<40>				<42>			
			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)
uterus	dilatation		<42>				<40>				<40>				<42>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	cystic endometrial 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)
(Nervous system)																		
brain	hemorrhage		<42>				<40>				<40>				<42>			
			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. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ_____	Findings_____	Group Name	Control				12ppm				50ppm				200ppm			
		No. of Animals on Study	42				40				40				42			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	cataract		<42>				<40>				<40>				<42>			
		0	4	0	0	0	3	0	0	1	3	0	0	0	2	0	0	
		(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(3)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	
	retinal atrophy		0	2	2	0	0	2	1	0	1	2	2	0	1	1	1	0
		(0)	(5)	(5)	(0)	(0)	(5)	(3)	(0)	(3)	(5)	(5)	(0)	(2)	(2)	(2)	(0)	
Harder gl	lymphocytic infiltration		<42>				<40>				<40>				<42>			
		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)	
nasolacr d	inflammation		<42>				<40>				<40>				<42>			
		5	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	
		(12)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
(Musculoskeletal system)																		
bone	osteosclerosis		<42>				<40>				<40>				<42>			
		1	1	0	0	1	1	0	0	1	2	0	0	0	0	0	0	
	(2)	(2)	(0)	(0)	(3)	(3)	(0)	(0)	(3)	(5)	(0)	(0)	(0)	(0)	(0)	(0)		

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

TABLE M1

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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	12ppm	50ppm	200ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	0
	NO. OF ANIMALS WITH TUMORS		1	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		0	1	1	0
	NO. OF ANIMALS WITH TUMORS		0	1	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	1	0	0
	NO. OF TOTAL TUMORS		0	1	0	0
79 - 104	NO. OF EXAMINED ANIMALS		4	9	6	3
	NO. OF ANIMALS WITH TUMORS		4	9	6	3
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	9	5	3
	NO. OF BENIGN TUMORS		6	21	10	4
	NO. OF MALIGNANT TUMORS		3	6	3	3
	NO. OF TOTAL TUMORS		9	27	13	7
105 - 105	NO. OF EXAMINED ANIMALS		45	40	43	47
	NO. OF ANIMALS WITH TUMORS		45	39	42	46
	NO. OF ANIMALS WITH SINGLE TUMORS		15	16	16	19
	NO. OF ANIMALS WITH MULTIPLE TUMORS		30	23	26	27
	NO. OF BENIGN TUMORS		84	81	75	80
	NO. OF MALIGNANT TUMORS		7	2	8	4
	NO. OF TOTAL TUMORS		91	83	83	84

STUDY NO. : 0774
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	12ppm	50ppm	200ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		50	49	48	49
	NO. OF ANIMALS WITH SINGLE TUMORS		16	17	17	19
	NO. OF ANIMALS WITH MULTIPLE TUMORS		34	32	31	30
	NO. OF BENIGN TUMORS		90	102	85	84
	NO. OF MALIGNANT TUMORS		11	9	11	7
	NO. OF TOTAL TUMORS		101	111	96	91

(HPT070)

BA1S5

TABLE M2

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

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [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	12ppm	50ppm	200ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		1	1	1	2
	NO. OF ANIMALS WITH TUMORS		0	1	1	2
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	1	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	1	0	1
	NO. OF MALIGNANT TUMORS		0	0	1	1
	NO. OF TOTAL TUMORS		0	1	1	2
79 - 104	NO. OF EXAMINED ANIMALS		7	9	9	6
	NO. OF ANIMALS WITH TUMORS		7	8	9	6
	NO. OF ANIMALS WITH SINGLE TUMORS		5	6	6	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	2	3	2
	NO. OF BENIGN TUMORS		3	6	11	8
	NO. OF MALIGNANT TUMORS		6	5	4	2
	NO. OF TOTAL TUMORS		9	11	15	10
105 - 105	NO. OF EXAMINED ANIMALS		42	40	40	42
	NO. OF ANIMALS WITH TUMORS		28	25	20	20
	NO. OF ANIMALS WITH SINGLE TUMORS		14	15	11	15
	NO. OF ANIMALS WITH MULTIPLE TUMORS		14	10	9	5
	NO. OF BENIGN TUMORS		32	31	24	23
	NO. OF MALIGNANT TUMORS		12	8	8	5
	NO. OF TOTAL TUMORS		44	39	32	28

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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	12ppm	50ppm	200ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		35	34	30	28
	NO. OF ANIMALS WITH SINGLE TUMORS		19	22	18	21
	NO. OF ANIMALS WITH MULTIPLE TUMORS		16	12	12	7
	NO. OF BENIGN TUMORS		35	38	35	32
	NO. OF MALIGNANT TUMORS		18	13	13	8
	NO. OF TOTAL TUMORS		53	51	48	40

(HPT070)

BAIS5

TABLE N1

HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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	12ppm 50	50ppm 50	200ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		2 (4%)	0 (0%)	0 (0%)	1 (2%)
	trichoepithelioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	keratoacanthoma		2 (4%)	1 (2%)	1 (2%)	0 (0%)
	sebaceous adenoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	basal cell carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		4 (8%)	4 (8%)	4 (8%)	3 (6%)
	lipoma		1 (2%)	2 (4%)	0 (0%)	1 (2%)
	leiomyoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hemangioma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	histiocytic sarcoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	fibroma		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. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 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	12ppm 50	50ppm 50	200ppm 50
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 6 (12%)	<50> 2 (4%)	<50> 4 (8%)	<50> 1 (2%)
{Hematopoietic system}						
lymph node	malignant lymphoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
spleen	mononuclear cell leukemia		<50> 3 (6%)	<50> 4 (8%)	<50> 2 (4%)	<50> 4 (8%)
	hemangiosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Digestive system}						
oral cavity	squamous cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
tongue	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
stomach	leiomyosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
small intes	fibroma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 2 (4%)
pancreas	islet cell adenoma		<50> 6 (12%)	<50> 7 (14%)	<50> 3 (6%)	<50> 3 (6%)
{Urinary system}						
kidney	renal cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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	12ppm 50	50ppm 50	200ppm 50
(Urinary system)						
urin bladd	transitional cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	transitional cell carcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Endocrine system)						
pituitary	adenoma		<50> 8 (16%)	<50> 9 (18%)	<50> 12 (24%)	<50> 6 (12%)
thyroid	C-cell adenoma		<50> 9 (18%)	<50> 15 (30%)	<50> 8 (16%)	<50> 9 (18%)
	follicular adenoma		0 (0%)	1 (2%)	1 (2%)	1 (2%)
	C-cell carcinoma		1 (2%)	0 (0%)	1 (2%)	1 (2%)
adrenal	pheochromocytoma		<50> 4 (8%)	<50> 3 (6%)	<50> 8 (16%)	<50> 6 (12%)
	cortical adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	pheochromocytoma:malignant		2 (4%)	1 (2%)	1 (2%)	0 (0%)
(Reproductive system)						
testis	interstitial cell tumor		<50> 43 (86%)	<50> 46 (92%)	<50> 40 (80%)	<50> 44 (88%)
mammary gl	adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)

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

STUDY NO. : 0774
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	12ppm 50	50ppm 50	200ppm 50
(Reproductive system)						
mammary gl			<50>	<50>	<50>	<50>
	fibroma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	fibroadenoma		0 (0%)	2 (4%)	1 (2%)	1 (2%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	1 (2%)	1 (2%)	1 (2%)
(Nervous system)						
brain			<50>	<50>	<50>	<50>
	glioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
(Special sense organs/appendage)						
eye			<50>	<50>	<50>	<50>
	leiomyoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
Harder gl			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
Zymbal gl			<50>	<50>	<50>	<50>
	Zymbal gland tumor:malignant		1 (2%)	1 (2%)	0 (0%)	0 (0%)
(Musculoskeletal system)						
muscle			<50>	<50>	<50>	<50>
	lipoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
vertebra			<50>	<50>	<50>	<50>
	chordoma:malignant		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. : 0774
ANIMAL : RAT F344/DuCrI CrIj [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	12ppm 50	50ppm 50	200ppm 50
(Body cavities)						
peritoneum	mesothelioma		<50> 1 (2%)	<50> 0 (0%)	<50> 3 (6%)	<50> 0 (0%)
adipose	lipoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)

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

(HPT085)

BA1S5

TABLE N2

**HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : FEMALE**

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrIj [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	12ppm 50	50ppm 50	200ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	trichoepithelioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
	lipoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	leiomyoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	chondroma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		0 (0%)	0 (0%)	2 (4%)	1 (2%)
(Hematopoietic system)						
thymus			<50>	<50>	<50>	<50>
	thymoma:benign		0 (0%)	0 (0%)	0 (0%)	1 (2%)
spleen			<50>	<50>	<50>	<50>
	mononuclear cell leukemia		9 (18%)	7 (14%)	5 (10%)	2 (4%)
(Digestive system)						
tongue			<50>	<50>	<50>	<50>
	squamous cell papilloma		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. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [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	12ppm 50	50ppm 50	200ppm 50
(Digestive system)						
liver	hepatocellular adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
pancreas	islet cell adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
(Endocrine system)						
pituitary	adenoma		<50> 12 (24%)	<50> 12 (24%)	<50> 12 (24%)	<50> 9 (18%)
thyroid	C-cell adenoma		<50> 2 (4%)	<50> 7 (14%)	<50> 2 (4%)	<50> 6 (12%)
	C-cell carcinoma		1 (2%)	1 (2%)	4 (8%)	1 (2%)
adrenal	pheochromocytoma		<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)	<50> 2 (4%)
	cortical adenoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	pheochromocytoma:malignant		0 (0%)	3 (6%)	0 (0%)	1 (2%)
(Reproductive system)						
ovary	cystadenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	granulosa-theca cell tumor		0 (0%)	1 (2%)	1 (2%)	0 (0%)

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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	12ppm 50	50ppm 50	200ppm 50
(Reproductive system)						
uterus	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
	endometrial stromal polyp		4 (8%)	7 (14%)	3 (6%)	7 (14%)
	adenocarcinoma		2 (4%)	1 (2%)	0 (0%)	0 (0%)
	endometrial stromal sarcoma		3 (6%)	0 (0%)	2 (4%)	2 (4%)
mammary gl	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	fibroadenoma		10 (20%)	6 (12%)	6 (12%)	2 (4%)
	adenocarcinoma		1 (2%)	0 (0%)	1 (2%)	1 (2%)
prep/cli gl	adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Special sense organs/appendage)						
Zymbal gl	Zymbal gland tumor:malignant		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
(Musculoskeletal system)						
vertebra	chordoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

TABLE O1

NEOPLASTIC LESIONS-INCIDENCE
AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	12ppm	50ppm	200ppm
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	4/50 (8.0)	4/50 (8.0)	3/50 (6.0)
Adjusted rates (b)	8.16	9.52	6.98	6.38
Terminal rates (c)	3/45 (6.7)	3/40 (7.5)	3/43 (7.0)	3/47 (6.4)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3570			
Prevalence method (d)	P = 0.6682			
Combined analysis (d)	P = 0.6846			
Cochran-Armitage test (e)	P = 0.6510			
Fisher Exact test (e)		P = 0.6425	P = 0.6425	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates (a)	6/50 (12.0)	2/50 (4.0)	4/50 (8.0)	1/50 (2.0)
Adjusted rates (b)	13.33	5.00	9.30	2.13
Terminal rates (c)	6/45 (13.3)	2/40 (5.0)	4/43 (9.3)	1/47 (2.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9587			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.1245			
Fisher Exact test (e)		P = 0.1343	P = 0.3703	P = 0.0559
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	3/50 (6.0)	4/50 (8.0)	2/50 (4.0)	4/50 (8.0)
Adjusted rates (b)	4.44	5.00	4.65	8.51
Terminal rates (c)	2/45 (4.4)	2/40 (5.0)	2/43 (4.7)	4/47 (8.5)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9177			
Prevalence method (d)	P = 0.1760			
Combined analysis (d)	P = 0.4073			
Cochran-Armitage test (e)	P = 0.7288			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.5000

STUDY No. : 0774
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	12ppm	50ppm	200ppm
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates (a)	6/50 (12.0)	7/50 (14.0)	3/50 (6.0)	3/50 (6.0)
Adjusted rates (b)	12.50	14.89	6.82	6.38
Terminal rates (c)	5/45 (11.1)	5/40 (12.5)	2/43 (4.7)	3/47 (6.4)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.8979			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.2149			
Fisher Exact test (e)		P = 0.5000	P = 0.2435	P = 0.2435
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	8/50 (16.0)	9/50 (18.0)	12/50 (24.0)	6/50 (12.0)
Adjusted rates (b)	16.67	13.95	23.26	12.24
Terminal rates (c)	7/45 (15.6)	5/40 (12.5)	10/43 (23.3)	5/47 (10.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8649			
Prevalence method (d)	P = 0.7109			
Combined analysis (d)	P = 0.8335			
Cochran-Armitage test (e)	P = 0.3700			
Fisher Exact test (e)		P = 0.5000	P = 0.2270	P = 0.3871
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	9/50 (18.0)	15/50 (30.0)	8/50 (16.0)	9/50 (18.0)
Adjusted rates (b)	18.75	34.09	17.02	19.15
Terminal rates (c)	8/45 (17.8)	12/40 (30.0)	6/43 (14.0)	9/47 (19.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.7714			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.5026			
Fisher Exact test (e)		P = 0.1207	P = 0.5000	P = 0.6024

STUDY No. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	12ppm	50ppm	200ppm
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	10/50 (20. 0)	15/50 (30. 0)	8/50 (16. 0)	10/50 (20. 0)
Adjusted rates (b)	20. 83	34. 09	17. 02	19. 15
Terminal rates (c)	9/45 (20. 0)	12/40 (30. 0)	6/43 (14. 0)	9/47 (19. 1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 1739			
Prevalence method (d)	P = 0. 7946			
Combined analysis (d)	P = 0. 6993			
Cochran-Armitage test (e)	P = 0. 6101			
Fisher Exact test (e)		P = 0. 1779	P = 0. 3976	P = 0. 5984
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates (a)	4/50 (8. 0)	3/50 (6. 0)	8/50 (16. 0)	6/50 (12. 0)
Adjusted rates (b)	8. 89	7. 50	18. 60	12. 77
Terminal rates (c)	4/45 (8. 9)	3/40 (7. 5)	8/43 (18. 6)	6/47 (12. 8)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 2877			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 4516			
Fisher Exact test (e)		P = 0. 5000	P = 0. 1783	P = 0. 3703
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	6/50 (12. 0)	4/50 (8. 0)	9/50 (18. 0)	6/50 (12. 0)
Adjusted rates (b)	13. 33	7. 50	18. 60	12. 77
Terminal rates (c)	6/45 (13. 3)	3/40 (7. 5)	8/43 (18. 6)	6/47 (12. 8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 6606			
Prevalence method (d)	P = 0. 4313			
Combined analysis (d)	P = 0. 5070			
Cochran-Armitage test (e)	P = 0. 8713			
Fisher Exact test (e)		P = 0. 3703	P = 0. 2883	P = 0. 6202

STUDY No. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	12ppm	50ppm	200ppm
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates (a)	43/50 (86. 0)	46/50 (92. 0)	40/50 (80. 0)	44/50 (88. 0)
Adjusted rates (b)	91. 49	95. 65	84. 44	91. 67
Terminal rates (c)	41/45 (91. 1)	38/40 (95. 0)	36/43 (83. 7)	43/47 (91. 5)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 5442			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 9576			
Fisher Exact test (e)		P = 0. 2623	P = 0. 2977	P = 0. 5000
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	2/50 (4. 0)	3/50 (6. 0)	1/50 (2. 0)	1/50 (2. 0)
Adjusted rates (b)	4. 44	4. 76	2. 33	2. 13
Terminal rates (c)	2/45 (4. 4)	1/40 (2. 5)	1/43 (2. 3)	1/47 (2. 1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 4924			
Prevalence method (d)	P = 0. 7395			
Combined analysis (d)	P = 0. 8072			
Cochran-Armitage test (e)	P = 0. 4057			
Fisher Exact test (e)		P = 0. 5000	P = 0. 5000	P = 0. 5000

(HPT360A)

BA1S5

STUDY No. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	12ppm	50ppm	200ppm
SITE : peritoneum TUMOR : mesothelioma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	0/50 (0.0)	3/50 (6.0)	0/50 (0.0)
Adjusted rates (b)	2.22	0.0	4.65	0.0
Terminal rates (c)	1/45 (2.2)	0/40 (0.0)	2/43 (4.7)	0/47 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3455			
Prevalence method (d)	P = 0.7401			
Combined analysis (d)	P = 0.7490			
Cochran-Armitage test (e)	P = 0.4785			
Fisher Exact test (e)		P = 0.5000	P = 0.3087	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 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 O2

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

STUDY No. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	12ppm	50ppm	200ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	9/50 (18. 0)	7/50 (14. 0)	5/50 (10. 0)	2/50 (4. 0)
Adjusted rates (b)	14. 29	7. 50	5. 00	4. 76
Terminal rates (c)	6/42 (14. 3)	3/40 (7. 5)	2/40 (5. 0)	2/42 (4. 8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 9783			
Prevalence method (d)	P = 0. 8800			
Combined analysis (d)	P = 0. 9873			
Cochran-Armitage test (e)	P = 0. 0319*			
Fisher Exact test (e)		P = 0. 3929	P = 0. 1940	P = 0. 0256*
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	12/50 (24. 0)	12/50 (24. 0)	12/50 (24. 0)	9/50 (18. 0)
Adjusted rates (b)	23. 81	19. 51	17. 50	11. 90
Terminal rates (c)	10/42 (23. 8)	7/40 (17. 5)	7/40 (17. 5)	5/42 (11. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 3522			
Prevalence method (d)	P = 0. 9214			
Combined analysis (d)	P = 0. 8132			
Cochran-Armitage test (e)	P = 0. 3920			
Fisher Exact test (e)		P = 0. 5924	P = 0. 5924	P = 0. 3121
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	2/50 (4. 0)	7/50 (14. 0)	2/50 (4. 0)	6/50 (12. 0)
Adjusted rates (b)	4. 76	15. 56	5. 00	14. 29
Terminal rates (c)	2/42 (4. 8)	6/40 (15. 0)	2/40 (5. 0)	6/42 (14. 3)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 2044			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 3902			
Fisher Exact test (e)		P = 0. 0798	P = 0. 6913	P = 0. 1343

STUDY No. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	12ppm	50ppm	200ppm
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	1/50 (2.0)	4/50 (8.0)	1/50 (2.0)
Adjusted rates (b)	2.38	2.50	10.00	2.38
Terminal rates (c)	1/42 (2.4)	1/40 (2.5)	4/40 (10.0)	1/42 (2.4)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.5716			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.8226			
Fisher Exact test (e)		P = 0.7525	P = 0.1811	P = 0.7525
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	8/50 (16.0)	6/50 (12.0)	7/50 (14.0)
Adjusted rates (b)	7.14	17.78	15.00	16.67
Terminal rates (c)	3/42 (7.1)	7/40 (17.5)	6/40 (15.0)	7/42 (16.7)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.2814			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.5414			
Fisher Exact test (e)		P = 0.0999	P = 0.2435	P = 0.1589
SITE : adrenal gland TUMOR : pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	0/50 (0.0)	3/50 (6.0)	0/50 (0.0)	1/50 (2.0)
Adjusted rates (b)	0.0	5.00	0.0	0.0
Terminal rates (c)	0/42 (0.0)	2/40 (5.0)	0/40 (0.0)	0/42 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2407			
Prevalence method (d)	P = 0.8089			
Combined analysis (d)	P = 0.5254			
Cochran-Armitage test (e)	P = 0.8693			
Fisher Exact test (e)		P = 0.1212	P = N. C.	P = 0.5000

STUDY No. : 0774
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	12ppm	50ppm	200ppm
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	0/50 (0.0)	4/50 (8.0)	2/50 (4.0)	3/50 (6.0)
Adjusted rates (b)	0.0	7.50	4.44	4.76
Terminal rates (c)	0/42 (0.0)	3/40 (7.5)	1/40 (2.5)	2/42 (4.8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2407			
Prevalence method (d)	P = 0.3589			
Combined analysis (d)	P = 0.2620			
Cochran-Armitage test (e)	P = 0.4982			
Fisher Exact test (e)		P = 0.0587	P = 0.2475	P = 0.1212
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates (a)	4/50 (8.0)	7/50 (14.0)	3/50 (6.0)	7/50 (14.0)
Adjusted rates (b)	8.89	15.56	7.50	15.56
Terminal rates (c)	3/42 (7.1)	6/40 (15.0)	3/40 (7.5)	5/42 (11.9)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.2328			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.4550			
Fisher Exact test (e)		P = 0.2623	P = 0.5000	P = 0.2623
SITE : uterus TUMOR : endometrial stromal sarcoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	0/50 (0.0)	2/50 (4.0)	2/50 (4.0)
Adjusted rates (b)	2.38	0.0	0.0	2.38
Terminal rates (c)	1/42 (2.4)	0/40 (0.0)	0/40 (0.0)	1/42 (2.4)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.5243			
Prevalence method (d)	P = 0.2699			
Combined analysis (d)	P = 0.4031			
Cochran-Armitage test (e)	P = 0.8414			
Fisher Exact test (e)		P = 0.1212	P = 0.5000	P = 0.5000

STUDY No. : 0774
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	12ppm	50ppm	200ppm
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates (a)	10/50 (20. 0)	6/50 (12. 0)	6/50 (12. 0)	2/50 (4. 0)
Adjusted rates (b)	23. 81	15. 00	13. 64	4. 76
Terminal rates (c)	10/42 (23. 8)	6/40 (15. 0)	4/40 (10. 0)	2/42 (4. 8)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9931			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0292*			
Fisher Exact test (e)		P = 0. 2070	P = 0. 2070	P = 0. 0139*
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates (a)	10/50 (20. 0)	6/50 (12. 0)	7/50 (14. 0)	2/50 (4. 0)
Adjusted rates (b)	23. 81	15. 00	15. 91	4. 76
Terminal rates (c)	10/42 (23. 8)	6/40 (15. 0)	5/40 (12. 5)	2/42 (4. 8)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9932			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0289*			
Fisher Exact test (e)		P = 0. 2070	P = 0. 2977	P = 0. 0139*

(HPT360A)

BAISS

STUDY No. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	12ppm	50ppm	200ppm
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	11/50 (22.0)	6/50 (12.0)	8/50 (16.0)	3/50 (6.0)
Adjusted rates (b)	26.19	15.00	18.18	7.14
Terminal rates (c)	11/42 (26.2)	6/40 (15.0)	6/40 (15.0)	3/42 (7.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9857			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0517			
Fisher Exact test (e)		P = 0.1434	P = 0.3055	P = 0.0204*

(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 P1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0774
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 50	50 12ppm	50 50ppm	50 200ppm
Organ	Findings				
(Respiratory system)					
lung	leukemic cell infiltration	<50> 2	<50> 2	<50> 0	<50> 4
	metastasis:subcutis tumor	1	0	0	0
	metastasis:mammary gland tumor	0	1	0	0
	metastasis:Zymbal gland tumor	1	0	0	0
	metastasis:vertebra tumor	0	0	1	0
(Hematopoietic system)					
bone marrow	leukemic cell infiltration	<50> 2	<50> 1	<50> 0	<50> 1
lymph node	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 2
	metastasis:subcutis tumor	0	1	0	0
spleen	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
(Digestive system)					
small intes	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
liver	leukemic cell infiltration	<50> 2	<50> 3	<50> 1	<50> 4
	metastasis:subcutis tumor	1	1	0	0
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

STUDY NO. : 0774
 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 No. of Animals on Study		Control 50	12ppm 50	50ppm 50	200ppm 50
Organ	Findings				
(Digestive system)					
pancreas	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 3
	metastasis:peritoneum tumor	0	0	1	0
(Urinary system)					
kidney	metastasis:subcutis tumor	<50> 1	<50> 0	<50> 0	<50> 0
(Endocrine system)					
adrenal	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
(Nervous system)					
brain	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
periph nerv	metastasis:oral cavity tumor	<50> 0	<50> 0	<50> 1	<50> 0
(Special sense organs/appendage)					
Harder gl	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 2
	metastasis:oral cavity tumor	0	0	1	0
(Musculoskeletal system)					
muscle	metastasis:subcutis tumor	<50> 1	<50> 1	<50> 0	<50> 0

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

TABLE P2

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Group Name No. of Animals on Study		Control 50	12ppm 50	50ppm 50	200ppm 50
Organ	Findings				
(Respiratory system)					
lung	leukemic cell infiltration	<50> 5	<50> 7	<50> 5	<50> 2
	metastasis:adrenal tumor	0	2	0	0
	metastasis:thyroid tumor	0	0	1	0
(Hematopoietic system)					
bone marrow	leukemic cell infiltration	<50> 3	<50> 5	<50> 2	<50> 2
	lymph node	<50> 1	<50> 2	<50> 0	<50> 1
(Circulatory system)					
heart	leukemic cell infiltration	<50> 0	<50> 2	<50> 1	<50> 1
(Digestive system)					
stomach	leukemic cell infiltration	<50> 0	<50> 1	<50> 1	<50> 0
liver	leukemic cell infiltration	<50> 7	<50> 7	<50> 5	<50> 2
	metastasis:uterus tumor	0	1	0	0
pancreas	leukemic cell infiltration	<50> 1	<50> 1	<50> 0	<50> 0

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

STUDY NO. : 0774
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 No. of Animals on Study		Control 50	12ppm 50	50ppm 50	200ppm 50
Organ	Findings				
(Urinary system)					
kidney		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	3	0	0
(Endocrine system)					
pituitary		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
adrenal		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	1	0	0
(Reproductive system)					
ovary		<50>	<50>	<50>	<50>
	metastasis:uterus tumor	0	1	0	0
uterus		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	2	1	0
vagina		<50>	<50>	<50>	<50>
	metastasis:uterus tumor	0	0	1	1
(Nervous system)					
brain		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
(Body cavities)					
mediastinum		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	1	0

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

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	12ppm 50	50ppm 50	200ppm 50
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(Body cavities)

peritoneum	metastasis:uterus tumor	<50> 0	<50> 1	<50> 0	<50> 0
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< a > a : Number of animals examined at the site
b b : Number of animals with lesion

(JPT150)

BAIS5

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

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

PAGE : 1

Group Name	Control	12ppm	50ppm	200ppm
Number of Dead and Moribund Animal	5	10	7	3
no microscop confirm	0	1	1	0
chronic nephropathy	1	0	0	0
tumor d:leukemia	1	2	0	1
tumor d:subcutis	1	1	1	0
tumor d:oral cavity	0	0	1	0
tumor d:urin bladd	0	0	0	1
tumor d:pituitary	0	3	2	0
tumor d:thyroid	0	0	0	1
tumor d:adrenal	0	1	1	0
tumor d:mammary gl	0	1	0	0
tumor d:brain	1	0	0	0
tumor d:Zymbal gl	1	1	0	0
tumor d:peritoneum	0	0	1	0

(B10120)

BA155

TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0774
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : FEMALE

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

PAGE : 2

Group Name	Control	12ppm	50ppm	200ppm
Number of Dead and Moribund Animal	8	10	10	8
no microscop confirm	1	0	0	0
deglutition disorder	0	1	0	0
tumor d:leukemia	3	4	3	1
tumor d:thymus	0	0	0	1
tumor d:pituitary	2	4	5	3
tumor d:adrenal	0	1	0	1
tumor d:uterus	2	0	2	1
tumor d:Zymbal gl	0	0	0	1

(B10120)

BAIS5