

アクリロレイン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：0816

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TABLE A

CONCENTRATIONS OF ACROLEIN
IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF ACROLEIN IN THE INHALATION
CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.00 \pm 0.00
0.1 ppm	0.10 \pm 0.00
0.5 ppm	0.50 \pm 0.00
2 ppm	2.01 \pm 0.02

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0816

ANIMAL : RAT F344/DuCr1Cr1j[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
0.1ppm	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
0.5ppm	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
2ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

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BA1S5

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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	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
0.1ppm	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
0.5ppm	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
2ppm	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(%)															

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BAIS5

STUDY NO. : 0816

ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

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
0.1ppm	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
0.5ppm	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
2ppm	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(%)													

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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	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	98.0	98.0	98.0	98.0
0.1ppm	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
0.5ppm	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
2ppm	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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

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
0.1ppm	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
0.5ppm	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	49/50 98.0	49/50 98.0	49/50 98.0
2ppm	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(%)													

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0
0.1ppm	50	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	47/50 94.0	47/50 94.0	47/50 94.0	47/50 94.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0
0.5ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
2ppm	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	49/50 98.0	48/50 96.0	48/50 96.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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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	45/50	45/50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50
		92.0	92.0	92.0	90.0	90.0	90.0	90.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
0.1ppm	50	46/50	45/50	45/50	44/50	43/50	43/50	43/50	43/50	43/50	43/50	43/50	43/50	42/50	42/50
		92.0	90.0	90.0	88.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	84.0	84.0
0.5ppm	50	48/50	48/50	47/50	46/50	46/50	45/50	43/50	43/50	43/50	42/50	42/50	42/50	42/50	41/50
		96.0	96.0	94.0	92.0	92.0	90.0	86.0	86.0	86.0	84.0	84.0	84.0	84.0	82.0
2ppm	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

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	44/50	43/50	42/50	42/50	42/50	42/50	41/50
		88.0	86.0	84.0	84.0	84.0	84.0	82.0
0.1ppm	50	42/50	41/50	41/50	41/50	41/50	41/50	40/50
		84.0	82.0	82.0	82.0	82.0	82.0	80.0
0.5ppm	50	39/50	39/50	39/50	39/50	38/50	38/50	37/50
		78.0	78.0	78.0	78.0	76.0	76.0	74.0
2ppm	50	48/50	48/50	47/50	44/50	42/50	42/50	42/50
		96.0	96.0	94.0	88.0	84.0	84.0	84.0
Number of survival/ Number of effective animals								
Survival rate(%)								

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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
0.1ppm	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
0.5ppm	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
2ppm	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(%)													

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.1ppm	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
0.5ppm	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
2ppm	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(%)															

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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
0.1ppm	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
0.5ppm	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
2ppm	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(%)

STUDY NO. : 0816

ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 12

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
0.1ppm	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
0.5ppm	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
2ppm	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	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(%)													

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0.1ppm	50	50/50	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
		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
0.5ppm	50	50/50	50/50	50/50	50/50	50/50	49/50	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	98.0	96.0	96.0	96.0
2ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0

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

STUDY NO. : 0816

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0.1ppm	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
0.5ppm	50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50
		96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0
2ppm	50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50
		96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0
Number of survival/ Number of effective animals															
Survival rate(%)															

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50
		96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0
0.1ppm	50	48/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50
		96.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
0.5ppm	50	46/50	46/50	46/50	46/50	46/50	44/50	43/50	43/50	41/50	41/50	41/50	41/50	41/50	41/50
		92.0	92.0	92.0	92.0	92.0	88.0	86.0	86.0	82.0	82.0	82.0	82.0	82.0	82.0
2ppm	50	46/50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	44/50	43/50	43/50	43/50	41/50	41/50
		92.0	90.0	90.0	88.0	88.0	88.0	88.0	88.0	88.0	86.0	86.0	86.0	82.0	82.0

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

STUDY NO. : 0816

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	45/50	45/50	44/50	44/50	44/50	44/50	43/50
		90.0	90.0	88.0	88.0	88.0	88.0	86.0
0.1ppm	50	46/50	46/50	45/50	45/50	44/50	43/50	42/50
		92.0	92.0	90.0	90.0	88.0	86.0	84.0
0.5ppm	50	41/50	41/50	41/50	41/50	41/50	41/50	41/50
		82.0	82.0	82.0	82.0	82.0	82.0	82.0
2ppm	50	41/50	40/50	38/50	37/50	35/50	34/50	34/50
		82.0	80.0	76.0	74.0	70.0	68.0	68.0

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

(HAN360)

BA1S5

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day														
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7	
DEATH	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	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	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	3	3	4	4	4	4	4	4	4	4	4	4	4	4
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	2	2	2	2	2	2	2	2	2	3	3	3	3	3
	0.1ppm	0	1	1	1	1	1	1	2	2	2	2	2	2	2
	0.5ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	2ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	0.1ppm	2	2	3	4	4	4	4	4	4	4	4	4	4	4
	0.5ppm	1	2	3	3	4	6	6	6	7	7	7	7	7	7
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	0.1ppm	3	3	3	3	3	3	3	3	3	3	3	4	4	4
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	4
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXCITEMENT	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	2ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1	1	1	0	0	0	1	0	0
	2ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	0.1ppm	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0.5ppm	2	2	2	2	3	3	3	4	3	3	3	3	3	3
	2ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	5	5	5	5	5	6
	0.1ppm	5	5	5	5	5	6
	0.5ppm	7	7	7	8	8	8
	2ppm	1	2	4	5	5	5
MORIBUND SACRIFICE	Control	2	3	3	3	3	3
	0.1ppm	4	4	4	4	4	4
	0.5ppm	4	4	4	4	4	5
	2ppm	1	1	2	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	0.1ppm	0	0	1	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	1	2	2	2	2	2
EXCITEMENT	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	1	1	0	0	0	0
SOILED PERI-GENITALIA	Control	1	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	1	1	1	1
CATARACT	Control	2	2	2	2	2	2
	0.1ppm	4	4	4	4	4	4
	0.5ppm	3	4	4	3	3	2
	2ppm	3	3	3	3	3	3

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
EXTERNAL MASS	Control	0	0	0	0	1	1	1	1	1	2	2	2	2	2
	0.1ppm	0	0	0	1	1	1	2	2	2	2	2	3	4	4
	0.5ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
EXTERNAL MASS	Control	2	3	3	3	3	3	3	4	4	4	4	4	5	5
	0.1ppm	4	4	4	3	5	5	5	5	5	5	4	4	4	4
	0.5ppm	0	0	0	0	1	1	2	3	3	1	1	1	1	1
	2ppm	1	2	2	2	2	2	2	2	2	2	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	0.1ppm	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	0.5ppm	0	0	0	0	1	1	1	2	2	1	1	1	1	1
	2ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	1	1	1	1	1	1	1	1	1	1	1	2	2
	0.1ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
EXTERNAL MASS	Control	5	5	4	4	4	4	6	6	6	6	6	6	6	6
	0.1ppm	4	4	4	3	3	3	3	3	3	3	3	3	4	4
	0.5ppm	2	5	5	6	5	4	4	4	3	2	4	4	5	5
	2ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	3	3	3	3	3	3	3	3
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	2	2	2	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	2	2	2	3	3	2	2	2	2	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
EXTERNAL MASS	Control	6	6	8	9	9	10
	0.1ppm	5	5	5	7	7	5
	0.5ppm	6	6	6	6	6	8
	2ppm	2	2	1	1	3	4
INTERNAL MASS	Control	0	0	0	1	1	0
	0.1ppm	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	1	1	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	1	1
M. PERI EAR	Control	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	1
	2ppm	1	1	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0
M. BREAST	Control	3	3	3	4	4	4
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	1
	2ppm	0	0	0	0	0	1
M. ABDOMEN	Control	1	1	1	1	1	2
	0.1ppm	1	1	1	2	2	0
	0.5ppm	2	2	2	2	2	2
	2ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	2	2	2	2	2	3
	0.1ppm	1	1	1	1	1	1
	0.5ppm	1	1	1	1	1	1
	2ppm	1	1	1	1	1	1

STUDY NO. : 0816
 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
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1	0	0	0	0	1	1	2	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1	1	1	1	1	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	1	0	0	0	0	0	0	1	1	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	0.5ppm	1	1	1	0	0	0	0	0	0	0	0	1	1	1
	2ppm	0	0	0	0	0	0	0	0	1	2	1	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2ppm	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
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	1	2	1	1	1	1	1	1
	0.1ppm	1	1	1	0	0	0	0	1	1	1	0	0	0	0
	0.5ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	1	0	0	1	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. POSTERIOR DORSUM	Control	0	0	1	1	1	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1
	2ppm	0	0	0	0	1	1
M. HINDLIMB	Control	0	0	0	0	1	1
	0.1ppm	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	1	1	1	1
	0.1ppm	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
ANEMIA	Control	2	2	4	2	2	1
	0.1ppm	0	0	2	0	0	1
	0.5ppm	0	0	0	0	0	0
	2ppm	1	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1
CRUSTA	Control	0	0	1	1	1	2
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	1	1	1	1	1	1	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	0	0	0	1	0	0	0	0	0	0	0	0
	0.1ppm	0	1	1	0	0	0	0	0	0	1	1	1	1	1
	0.5ppm	1	0	0	0	0	1	1	1	0	1	1	1	1	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	1	2	2	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	1	0	0	0
	2ppm	0	0	1	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	1	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0816
 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													
		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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	0.5ppm	0	0	0	0	1	1	1	1	1	1	2	2	2	2
	2ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	2ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	3	3	4
	0.1ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	3	3	3	3	4	5	5	5	5	5	5	5	5	5
	2ppm	4	4	5	5	5	5	5	5	5	5	5	6	6	6
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	1	1	1	1	2	2	2	4	4	4	4	4	4	4
	2ppm	1	1	1	1	1	1	1	1	2	2	2	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	1	0	0	1	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	1	1	1	1	1	1	1	1	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	4	5	5	5	5	6
	0.1ppm	2	2	2	3	4	5
	0.5ppm	5	5	5	5	5	5
	2ppm	6	7	8	10	10	10
MORIBUND SACRIFICE	Control	1	1	1	1	1	1
	0.1ppm	2	3	3	3	3	3
	0.5ppm	4	4	4	4	4	4
	2ppm	4	5	5	5	6	6
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	1	1	1	1
	2ppm	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	0.1ppm	1	2	2	2	2	2	2	2	2	3	3	3	3	3
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	0	0	0	0	0	0	0	0	0	1	0	0
	0.5ppm	0	0	3	2	2	2	2	2	2	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.1ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.1ppm	3	3	3	4	4	4	4	4	5	5	5	5	5	5
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	2	2	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.1ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	2	2	2	2	2	2	2	2	2	2	2	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	0.1ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	1	1	1	1	1	1	0	0	0	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day														
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7	
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	2	2	1	1	1	1	1	1	1	1
	2ppm	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
CATARACT	Control	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
	0.1ppm	6	7	7	6	6	6	6	6	6	6	6	6	6	6	6
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	2	3	3	4	5	5	5	5	5	5	6	6	6	6
	0.1ppm	2	2	2	2	3	3	3	4	4	5	6	6	6	6	7
	0.5ppm	0	0	0	0	0	1	1	2	2	3	3	4	4	4	4
	2ppm	0	0	0	0	0	0	0	1	2	2	2	2	2	2	3
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. PERI-MOUTH	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1
	2ppm	0	0	1	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	0.1ppm	2	2	2	2	2	2
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
CATARACT	Control	5	5	5	5	5	5
	0.1ppm	6	5	5	5	5	5
	0.5ppm	1	1	1	1	1	1
	2ppm	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	6	6	7	7	7	7
	0.1ppm	7	6	6	7	8	9
	0.5ppm	4	5	5	5	7	8
	2ppm	3	5	4	4	5	5
INTERNAL MASS	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	1	1	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	1	1	1
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	1	0	0	0	0	0	0	0	0	1	1
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

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. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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	1
	0.1ppm	0	0	0	0	0	1	1	1	1	0	1	0	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2ppm	0	0	0	1	0	0	0	0	0	0	1	0	0	1
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	1	1	1	2	3	3	3	3	3	3	4	4	4
	0.1ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	1	1	2	2	2	2	2	2	2
	2ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	0.1ppm	0	0	0	0	0	0	0	1	1	2	3	3	3	3
	0.5ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	2
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	0.1ppm	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	1	1	1	2	2	2	2	1	1	1
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. ORAL CAVITY	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1
	2ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	1	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. BREAST	Control	4	4	4	4	4	4
	0.1ppm	1	1	1	1	1	1
	0.5ppm	2	2	2	2	2	2
	2ppm	1	1	1	1	1	1
M. ABDOMEN	Control	1	1	1	1	1	1
	0.1ppm	3	3	3	4	4	5
	0.5ppm	1	1	1	1	2	2
	2ppm	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	1	1	1	1	1	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	1	1	1	1
	0.1ppm	2	1	1	1	1	2
	0.5ppm	1	2	2	2	3	3
	2ppm	0	2	2	2	3	3
ANEMIA	Control	0	0	0	0	0	0
	0.1ppm	1	1	1	1	1	1
	0.5ppm	0	0	0	0	0	0
	2ppm	1	1	1	1	1	1
ULCER	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2ppm	0	0	0	0	1	1	1	1	1	1	1	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	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
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	1	0	1	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	1

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0.1ppm	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	1	1	1	1	1	1	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	2ppm	0	0	0	0	0	0	0	0	1	2	2	1	1	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CRUSTA	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	1
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	1	1	0
	0.5ppm	1	1	1	2	2	2
	2ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	1
	2ppm	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0
	0.5ppm	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control		0.1ppm		0.5ppm			2ppm			
	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	119 (50)	50/50	119 (50)	100	50/50	119 (50)	100	50/50	119 (50)	100	50/50
1	151 (50)	50/50	149 (50)	99	50/50	151 (50)	100	50/50	129 (50)	85	50/50
2	185 (50)	50/50	183 (50)	99	50/50	186 (50)	101	50/50	159 (50)	86	50/50
3	212 (50)	50/50	209 (50)	99	50/50	213 (50)	100	50/50	180 (50)	85	50/50
4	235 (50)	50/50	231 (50)	98	50/50	235 (50)	100	50/50	198 (50)	84	50/50
5	252 (50)	50/50	247 (50)	98	50/50	253 (50)	100	50/50	215 (50)	85	50/50
6	267 (50)	50/50	262 (50)	98	50/50	268 (50)	100	50/50	228 (50)	85	50/50
7	281 (50)	50/50	275 (50)	98	50/50	280 (50)	100	50/50	239 (50)	85	50/50
8	295 (50)	50/50	289 (50)	98	50/50	295 (50)	100	50/50	248 (50)	84	50/50
9	306 (50)	50/50	299 (50)	98	50/50	305 (50)	100	50/50	256 (50)	84	50/50
10	315 (50)	50/50	307 (50)	97	50/50	313 (50)	99	50/50	263 (50)	83	50/50
11	321 (50)	50/50	313 (50)	98	50/50	321 (50)	100	50/50	268 (50)	83	50/50
12	328 (50)	50/50	320 (50)	98	50/50	328 (50)	100	50/50	273 (50)	83	50/50
13	334 (50)	50/50	325 (50)	97	50/50	334 (50)	100	50/50	277 (50)	83	50/50
14	339 (50)	50/50	331 (50)	98	50/50	338 (50)	100	50/50	281 (50)	83	50/50
18	355 (50)	50/50	345 (50)	97	50/50	355 (50)	100	50/50	297 (50)	84	50/50
22	367 (50)	50/50	358 (50)	98	50/50	368 (50)	100	50/50	310 (50)	84	50/50
26	379 (50)	50/50	371 (50)	98	50/50	380 (50)	100	50/50	323 (50)	85	50/50
30	392 (50)	50/50	383 (50)	98	50/50	393 (50)	100	50/50	331 (50)	84	50/50
34	401 (50)	50/50	393 (50)	98	50/50	405 (50)	101	50/50	334 (50)	83	50/50
38	409 (50)	50/50	401 (50)	98	50/50	411 (50)	100	50/50	345 (50)	84	50/50
42	418 (50)	50/50	409 (50)	98	50/50	419 (50)	100	50/50	351 (50)	84	50/50
46	422 (50)	50/50	414 (50)	98	50/50	424 (50)	100	50/50	360 (50)	85	50/50
50	431 (50)	50/50	420 (50)	97	50/50	430 (50)	100	50/50	365 (50)	85	50/50
54	429 (49)	49/50	422 (50)	98	50/50	431 (50)	100	50/50	369 (50)	86	50/50
58	434 (49)	49/50	427 (50)	98	50/50	437 (50)	101	50/50	375 (50)	86	50/50
62	436 (49)	49/50	431 (49)	99	49/50	437 (50)	100	50/50	378 (50)	87	50/50
66	439 (49)	49/50	434 (49)	99	49/50	437 (50)	100	50/50	381 (50)	87	50/50
70	439 (49)	49/50	434 (49)	99	49/50	443 (49)	101	49/50	383 (50)	87	50/50
74	439 (47)	47/50	433 (47)	99	47/50	443 (48)	101	48/50	385 (50)	88	50/50
78	438 (47)	47/50	434 (46)	99	46/50	444 (48)	101	48/50	387 (50)	88	50/50
82	440 (46)	46/50	431 (46)	98	46/50	442 (48)	100	48/50	387 (48)	88	48/50
86	438 (46)	46/50	428 (45)	98	45/50	438 (47)	100	47/50	386 (48)	88	48/50
90	435 (45)	45/50	426 (43)	98	43/50	433 (43)	100	43/50	385 (48)	89	48/50
94	434 (44)	44/50	418 (43)	96	43/50	428 (42)	99	42/50	379 (48)	87	48/50
98	428 (44)	44/50	414 (42)	97	42/50	425 (39)	99	39/50	378 (48)	88	48/50
102	419 (42)	42/50	410 (41)	98	41/50	418 (38)	100	38/50	376 (42)	90	42/50
104	420 (41)	41/50	402 (40)	96	40/50	415 (37)	99	37/50	370 (42)	88	42/50

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

Av. Wt. : g

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control		0.1ppm		0.5ppm		2ppm				
	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	110 (50)	50/50	108 (50)	98	50/50	110 (50)	100	50/50	100 (50)	91	50/50
2	125 (50)	50/50	123 (50)	98	50/50	125 (50)	100	50/50	114 (50)	91	50/50
3	136 (50)	50/50	133 (50)	98	50/50	134 (50)	99	50/50	123 (50)	90	50/50
4	144 (50)	50/50	141 (50)	98	50/50	143 (50)	99	50/50	131 (50)	91	50/50
5	150 (50)	50/50	148 (50)	99	50/50	150 (50)	100	50/50	138 (50)	92	50/50
6	157 (50)	50/50	154 (50)	98	50/50	155 (50)	99	50/50	143 (50)	91	50/50
7	160 (50)	50/50	159 (50)	99	50/50	159 (50)	99	50/50	147 (50)	92	50/50
8	165 (50)	50/50	163 (50)	99	50/50	163 (50)	99	50/50	152 (50)	92	50/50
9	168 (50)	50/50	167 (50)	99	50/50	167 (50)	99	50/50	155 (50)	92	50/50
10	173 (50)	50/50	171 (50)	99	50/50	171 (50)	99	50/50	160 (50)	92	50/50
11	176 (50)	50/50	175 (50)	99	50/50	174 (50)	99	50/50	164 (50)	93	50/50
12	179 (50)	50/50	180 (50)	101	50/50	178 (50)	99	50/50	168 (50)	94	50/50
13	182 (50)	50/50	183 (50)	101	50/50	179 (50)	98	50/50	169 (50)	93	50/50
14	185 (50)	50/50	184 (50)	99	50/50	181 (50)	98	50/50	171 (50)	92	50/50
18	191 (50)	50/50	192 (50)	101	50/50	187 (50)	98	50/50	177 (50)	93	50/50
22	195 (50)	50/50	196 (50)	101	50/50	190 (50)	97	50/50	182 (50)	93	50/50
26	200 (50)	50/50	201 (50)	101	50/50	196 (50)	98	50/50	190 (50)	95	50/50
30	207 (50)	50/50	206 (50)	100	50/50	200 (50)	97	50/50	194 (50)	94	50/50
34	210 (50)	50/50	210 (50)	100	50/50	205 (50)	98	50/50	196 (50)	93	50/50
38	212 (50)	50/50	212 (50)	100	50/50	208 (50)	98	50/50	201 (50)	95	50/50
42	217 (50)	50/50	219 (50)	101	50/50	212 (50)	98	50/50	206 (50)	95	50/50
46	219 (50)	50/50	223 (50)	102	50/50	215 (50)	98	50/50	212 (50)	97	50/50
50	224 (50)	50/50	227 (50)	101	50/50	219 (50)	98	50/50	217 (50)	97	50/50
54	228 (50)	50/50	229 (50)	100	50/50	224 (50)	98	50/50	220 (49)	96	49/50
58	234 (49)	49/50	235 (50)	100	50/50	230 (50)	98	50/50	226 (49)	97	49/50
62	238 (49)	49/50	240 (50)	101	50/50	234 (49)	98	49/50	229 (49)	96	49/50
66	243 (49)	49/50	248 (50)	102	50/50	238 (49)	98	49/50	234 (49)	96	49/50
70	246 (49)	49/50	253 (48)	103	48/50	242 (48)	98	48/50	238 (48)	97	48/50
74	249 (49)	49/50	257 (48)	103	48/50	248 (47)	100	47/50	241 (47)	97	47/50
78	255 (48)	48/50	264 (48)	104	48/50	254 (47)	100	47/50	246 (47)	96	47/50
82	260 (48)	48/50	268 (48)	103	48/50	260 (46)	100	46/50	250 (46)	96	46/50
86	265 (47)	47/50	273 (47)	103	47/50	264 (46)	100	46/50	249 (45)	94	45/50
90	268 (47)	47/50	278 (46)	104	46/50	270 (43)	101	43/50	250 (44)	93	44/50
94	267 (47)	47/50	278 (46)	104	46/50	269 (41)	101	41/50	250 (43)	94	43/50
98	272 (45)	45/50	281 (46)	103	46/50	272 (41)	100	41/50	254 (41)	93	41/50
102	275 (44)	44/50	276 (44)	100	44/50	271 (41)	99	41/50	259 (35)	94	35/50
104	272 (43)	43/50	276 (42)	101	42/50	266 (41)	98	41/50	259 (34)	95	34/50

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week		1		2		3		4		5		6	
	0													
Control	119±	5	151±	7	185±	8	212±	8	235±	9	252±	10	267±	10
0.1ppm	119±	5	149±	8	183±	9	209±	9	231±	10	247±	11	262±	12
0.5ppm	119±	5	151±	8	186±	10	213±	10	235±	11	253±	12	268±	12
2ppm	119±	5	129±	6**	159±	7**	180±	9**	198±	10**	215±	10**	228±	10**

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week		7		8		9		10		11		12		13	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Control	281±	11	295±	12	306±	12	315±	12	321±	13	328±	14	334±	15		
0.1ppm	275±	12	289±	12	299±	13*	307±	14*	313±	15*	320±	15*	325±	15*		
0.5ppm	280±	13	295±	14	305±	15	313±	14	321±	15	328±	15	334±	16		
2ppm	239±	12**	248±	12**	256±	13**	263±	13**	268±	14**	273±	14**	277±	14**		

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	14	18	22	26	30	34	38	
Control	339± 15	355± 15	367± 15	379± 16	392± 17	401± 18	409± 18	
0.1ppm	331± 16*	345± 17**	358± 18*	371± 19	383± 20*	393± 21	401± 22	
0.5ppm	338± 15	355± 16	368± 15	380± 16	393± 16	405± 17	411± 18	
2ppm	281± 14**	297± 15**	310± 16**	323± 18**	331± 18**	334± 19**	345± 19**	

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	42	46	50	54	58	62	66	
Control	418± 20	422± 23	431± 34	429± 24	434± 25	436± 27	439± 29	
0.1ppm	409± 22	414± 22	420± 23	422± 24	427± 27	431± 24	434± 23	
0.5ppm	419± 17	424± 18	430± 19	431± 20	437± 23	437± 31	437± 36	
2ppm	351± 20**	360± 19**	365± 21**	369± 22**	375± 24**	378± 27**	381± 27**	

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	70	74	78	82	86	90	94	
Control	439± 30	439± 30	438± 39	440± 27	438± 30	435± 35	434± 27	
0.1ppm	434± 23	433± 25	434± 26	431± 26	428± 29	426± 28	418± 32*	
0.5ppm	443± 23	443± 20	444± 21	442± 21	438± 23	433± 31	428± 24	
2ppm	383± 27**	385± 28**	387± 28**	387± 29**	386± 30**	385± 30**	379± 29**	

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week					
	98		102		104	
Control	428±	31	419±	39	420±	36
0.1ppm	414±	39	410±	29	402±	32*
0.5ppm	425±	24	418±	31	415±	33
2ppm	378±	33**	376±	25**	370±	23**

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

Test of Dunnett

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	95 ± 3	110 ± 4	125 ± 5	136 ± 6	144 ± 6	150 ± 6	157 ± 7
0.1ppm	95 ± 3	108 ± 4*	123 ± 5	133 ± 5	141 ± 6	148 ± 7	154 ± 8
0.5ppm	95 ± 3	110 ± 5	125 ± 6	134 ± 6	143 ± 7	150 ± 8	155 ± 9
2ppm	95 ± 3	100 ± 4**	114 ± 5**	123 ± 6**	131 ± 6**	138 ± 6**	143 ± 6**

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week		7		8		9		10		11		12		13	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Control	160±	8	165±	9	168±	9	173±	9	176±	9	179±	8	182±	9		
0.1ppm	159±	9	163±	9	167±	10	171±	10	175±	10	180±	11	183±	11		
0.5ppm	159±	10	163±	11	167±	11	171±	11	174±	10	178±	11	179±	11		
2ppm	147±	7**	152±	7**	155±	8**	160±	8**	164±	8**	168±	8**	169±	7**		

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	14	18	22	26	30	34	38	
Control	185± 9	191± 9	195± 10	200± 10	207± 11	210± 13	212± 12	
0.1ppm	184± 11	192± 11	196± 12	201± 11	206± 11	210± 13	212± 12	
0.5ppm	181± 11*	187± 12	190± 12	196± 13	200± 14**	205± 13	208± 13	
2ppm	171± 7**	177± 8**	182± 9**	190± 9**	194± 11**	196± 10**	201± 10**	

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	42	46	50	54	58	62	66	
Control	217± 13	219± 14	224± 15	228± 16	234± 17	238± 17	243± 20	
0.1ppm	219± 15	223± 13	227± 14	229± 15	235± 14	240± 17	248± 20	
0.5ppm	212± 14	215± 16	219± 16	224± 18	230± 20	234± 21	238± 23	
2ppm	206± 12**	212± 13	217± 13*	220± 13*	226± 16*	229± 16*	234± 17	

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week							
	70	74	78	82	86	90	94	
Control	246± 20	249± 22	255± 22	260± 22	265± 21	268± 20	267± 24	
0.1ppm	253± 19	257± 20	264± 21	268± 22	273± 23	278± 24	278± 28	
0.5ppm	242± 24	248± 22	254± 25	260± 24	264± 24	270± 25	269± 25	
2ppm	238± 18	241± 19	246± 19	250± 18	249± 19**	250± 22**	250± 25**	

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week		
	98	102	104
Control	272 ± 20	275 ± 20	272 ± 22
0.1ppm	281 ± 33	276 ± 30	276 ± 31
0.5ppm	272 ± 28	271 ± 36	266 ± 37
2ppm	254 ± 28**	259 ± 23**	259 ± 22*

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

Test of Dunnett

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

Week-Day on Study	Control		0.1ppm		0.5ppm		2ppm				
	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	15.9 (50)	50/50	15.7 (50)	99	50/50	15.7 (50)	99	50/50	10.8 (50)	68	50/50
2-7	17.9 (50)	50/50	17.4 (50)	97	50/50	17.7 (50)	99	50/50	13.9 (50)	78	50/50
3-7	18.1 (50)	50/50	18.0 (50)	99	50/50	18.3 (50)	101	50/50	14.6 (50)	81	50/50
4-7	18.4 (50)	50/50	17.9 (50)	97	50/50	18.5 (50)	101	50/50	15.2 (50)	83	50/50
5-7	18.0 (50)	50/50	17.7 (50)	98	50/50	18.2 (50)	101	50/50	16.0 (50)	89	50/50
6-7	17.7 (50)	50/50	17.2 (50)	97	50/50	18.0 (50)	102	50/50	15.6 (50)	88	50/50
7-7	17.5 (50)	50/50	17.1 (50)	98	50/50	17.5 (50)	100	50/50	15.8 (50)	90	50/50
8-7	17.9 (50)	50/50	17.5 (50)	98	50/50	17.9 (50)	100	50/50	15.5 (50)	87	50/50
9-7	17.7 (50)	50/50	17.1 (50)	97	50/50	17.6 (50)	99	50/50	15.1 (50)	85	50/50
10-7	17.6 (50)	50/50	17.0 (50)	97	50/50	17.5 (50)	99	50/50	15.1 (50)	86	50/50
11-7	16.9 (50)	50/50	16.6 (50)	98	50/50	17.0 (50)	101	50/50	15.0 (50)	89	50/50
12-7	17.0 (50)	50/50	16.6 (50)	98	50/50	16.9 (50)	99	50/50	14.7 (50)	86	50/50
13-7	16.7 (50)	50/50	16.5 (50)	99	50/50	16.5 (50)	99	50/50	14.6 (50)	87	50/50
14-7	16.5 (50)	50/50	16.2 (50)	98	50/50	16.6 (50)	101	50/50	14.6 (50)	88	50/50
18-7	16.1 (50)	50/50	15.7 (50)	98	50/50	16.2 (50)	101	50/50	14.6 (50)	91	50/50
22-7	16.2 (50)	50/50	15.9 (50)	98	50/50	16.4 (50)	101	50/50	14.8 (50)	91	50/50
26-7	16.5 (50)	50/50	16.7 (50)	101	50/50	16.9 (50)	102	50/50	15.7 (50)	95	50/50
30-7	17.1 (50)	50/50	17.1 (50)	100	50/50	17.2 (50)	101	50/50	15.8 (50)	92	50/50
34-7	16.9 (50)	50/50	16.8 (50)	99	50/50	17.2 (50)	102	50/50	15.3 (50)	91	50/50
38-7	16.9 (50)	50/50	16.9 (50)	100	50/50	16.9 (50)	100	50/50	15.7 (50)	93	50/50
42-7	17.2 (50)	50/50	17.1 (50)	99	50/50	17.5 (50)	102	50/50	16.0 (50)	93	50/50
46-7	16.9 (50)	50/50	17.0 (50)	101	50/50	17.4 (50)	103	50/50	16.3 (50)	96	50/50
50-7	17.5 (50)	50/50	17.2 (50)	98	50/50	17.7 (50)	101	50/50	16.5 (50)	94	50/50
54-7	17.1 (49)	49/50	17.0 (50)	99	50/50	17.3 (50)	101	50/50	16.3 (50)	95	50/50
58-7	17.3 (49)	49/50	17.1 (50)	99	50/50	17.3 (50)	100	50/50	16.4 (50)	95	50/50
62-7	17.2 (49)	49/50	17.1 (49)	99	49/50	17.3 (50)	101	50/50	16.1 (50)	94	50/50
66-7	17.0 (49)	49/50	16.9 (49)	99	49/50	16.9 (50)	99	50/50	16.1 (50)	95	50/50
70-7	17.1 (49)	49/50	16.8 (49)	98	49/50	17.0 (49)	99	49/50	16.2 (50)	95	50/50
74-7	17.0 (47)	47/50	17.0 (47)	100	47/50	17.2 (48)	101	48/50	16.2 (50)	95	50/50
78-7	17.0 (47)	47/50	17.1 (46)	101	46/50	17.5 (48)	103	48/50	16.3 (50)	96	50/50
82-7	17.0 (46)	46/50	17.0 (46)	100	46/50	17.4 (48)	102	48/50	16.0 (48)	94	48/50
86-7	17.1 (46)	46/50	17.0 (45)	99	45/50	17.1 (47)	100	47/50	16.3 (48)	95	48/50
90-7	16.6 (45)	45/50	16.8 (43)	101	43/50	16.5 (43)	99	43/50	16.1 (48)	97	48/50
94-7	16.9 (44)	44/50	16.6 (43)	98	43/50	16.7 (42)	99	42/50	16.3 (48)	96	48/50
98-7	17.0 (44)	44/50	16.7 (42)	98	42/50	17.2 (39)	101	39/50	16.5 (48)	97	48/50
102-7	16.2 (42)	42/50	16.4 (41)	101	41/50	16.6 (38)	102	38/50	16.0 (42)	99	42/50
104-7	17.3 (41)	41/50	16.2 (40)	94	40/50	16.8 (37)	97	37/50	15.8 (42)	91	42/50

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

Week-Day on Study	Control		0.1ppm		0.5ppm		2ppm				
	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	12.5 (50)	50/50	12.0 (50)	96	50/50	12.1 (50)	97	50/50	9.1 (50)	73	50/50
2-7	12.6 (50)	50/50	12.0 (50)	95	50/50	12.3 (50)	98	50/50	11.1 (50)	88	50/50
3-7	12.2 (50)	50/50	12.0 (50)	98	50/50	12.0 (50)	98	50/50	10.9 (50)	89	50/50
4-7	12.5 (50)	50/50	12.2 (50)	98	50/50	12.2 (50)	98	50/50	11.1 (50)	89	50/50
5-7	11.9 (50)	50/50	12.0 (50)	101	50/50	11.9 (50)	100	50/50	10.9 (50)	92	50/50
6-7	12.1 (50)	50/50	11.9 (50)	98	50/50	11.7 (50)	97	50/50	10.6 (50)	88	50/50
7-7	11.3 (50)	50/50	11.3 (50)	100	50/50	11.1 (50)	98	50/50	10.8 (50)	96	50/50
8-7	11.3 (50)	50/50	11.4 (50)	101	50/50	11.0 (50)	97	50/50	10.6 (50)	94	50/50
9-7	11.2 (50)	50/50	11.1 (50)	99	50/50	10.9 (50)	97	50/50	10.4 (50)	93	50/50
10-7	11.2 (50)	50/50	11.2 (50)	100	50/50	11.1 (50)	99	50/50	10.8 (50)	96	50/50
11-7	10.9 (50)	50/50	11.2 (50)	103	50/50	10.9 (50)	100	50/50	10.6 (50)	97	50/50
12-7	11.4 (50)	50/50	11.5 (50)	101	50/50	11.2 (50)	98	50/50	10.7 (50)	94	50/50
13-7	11.3 (50)	50/50	11.6 (50)	103	50/50	11.0 (50)	97	50/50	10.7 (50)	95	50/50
14-7	11.4 (50)	50/50	11.2 (50)	98	50/50	10.7 (50)	94	50/50	10.7 (50)	94	50/50
18-7	10.8 (50)	50/50	11.5 (50)	106	50/50	10.8 (50)	100	50/50	10.4 (50)	96	50/50
22-7	10.7 (50)	50/50	10.9 (50)	102	50/50	10.4 (50)	97	50/50	10.4 (50)	97	50/50
26-7	11.0 (50)	50/50	11.5 (50)	105	50/50	11.2 (50)	102	50/50	11.2 (50)	102	50/50
30-7	11.2 (50)	50/50	11.2 (50)	100	50/50	11.0 (50)	98	50/50	11.5 (50)	103	50/50
34-7	11.2 (50)	50/50	11.6 (50)	104	50/50	11.2 (50)	100	50/50	11.4 (50)	102	50/50
38-7	11.3 (50)	50/50	11.5 (50)	102	50/50	10.9 (50)	96	50/50	11.4 (50)	101	50/50
42-7	11.2 (50)	50/50	11.8 (50)	105	50/50	11.1 (50)	99	50/50	11.7 (50)	104	50/50
46-7	11.1 (50)	50/50	11.8 (50)	106	50/50	11.3 (50)	102	50/50	12.1 (50)	109	50/50
50-7	11.7 (50)	50/50	11.9 (50)	102	50/50	11.4 (50)	97	50/50	12.0 (50)	103	50/50
54-7	11.9 (50)	50/50	12.0 (50)	101	50/50	11.7 (50)	98	50/50	12.5 (49)	105	49/50
58-7	11.9 (49)	49/50	12.1 (50)	102	50/50	11.9 (50)	100	50/50	12.4 (49)	104	49/50
62-7	11.5 (49)	49/50	11.9 (50)	103	50/50	11.7 (49)	102	49/50	11.8 (49)	103	49/50
66-7	11.6 (49)	49/50	12.1 (50)	104	50/50	11.5 (49)	99	49/50	12.0 (49)	103	49/50
70-7	11.7 (49)	49/50	12.2 (48)	104	48/50	11.4 (48)	97	48/50	12.1 (48)	103	48/50
74-7	12.0 (49)	49/50	12.3 (48)	103	48/50	12.0 (47)	100	47/50	12.2 (47)	102	47/50
78-7	12.4 (48)	48/50	12.9 (48)	104	48/50	12.4 (47)	100	47/50	12.5 (47)	101	47/50
82-7	12.0 (48)	48/50	12.4 (48)	103	48/50	12.2 (46)	102	46/50	12.4 (46)	103	46/50
86-7	12.3 (47)	47/50	12.8 (47)	104	47/50	12.4 (46)	101	46/50	12.5 (45)	102	45/50
90-7	12.2 (47)	47/50	12.8 (46)	105	46/50	12.2 (43)	100	43/50	12.1 (44)	99	44/50
94-7	12.3 (47)	47/50	12.6 (46)	102	46/50	12.4 (41)	101	41/50	11.9 (43)	97	43/50
98-7	12.8 (45)	45/50	13.1 (46)	102	46/50	12.9 (41)	101	41/50	12.9 (41)	101	41/50
102-7	12.8 (44)	44/50	12.3 (44)	96	44/50	12.4 (41)	97	41/50	12.3 (35)	96	35/50
104-7	12.2 (43)	43/50	12.3 (42)	101	42/50	11.8 (41)	97	41/50	12.5 (34)	102	34/50

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day (effective)						
	1-7 (7)	2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	15.9± 1.1	17.9± 1.5	18.1± 1.4	18.4± 1.3	18.0± 1.3	17.7± 1.2	17.5± 1.2
0.1ppm	15.7± 1.2	17.4± 1.4	18.0± 1.5	17.9± 1.3	17.7± 1.2	17.2± 1.1	17.1± 1.3
0.5ppm	15.7± 1.1	17.7± 1.4	18.3± 1.5	18.5± 1.5	18.2± 1.4	18.0± 1.5	17.5± 1.3
2ppm	10.8± 0.8**	13.9± 0.8**	14.6± 1.1**	15.2± 1.4**	16.0± 0.9**	15.6± 1.1**	15.8± 1.0**

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIjCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day(effective)				
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	17.9± 1.1	17.7± 1.2	17.6± 1.1	16.9± 1.0	17.0± 1.0	16.7± 1.2	16.5± 1.1
0.1ppm	17.5± 1.3	17.1± 1.2*	17.0± 1.4*	16.6± 1.2	16.6± 1.2	16.5± 1.2	16.2± 1.0
0.5ppm	17.9± 1.3	17.6± 1.3	17.5± 1.2	17.0± 1.1	16.9± 1.1	16.5± 1.1	16.6± 0.9
2ppm	15.5± 0.8**	15.1± 1.0**	15.1± 0.9**	15.0± 1.0**	14.7± 0.8**	14.6± 0.9**	14.6± 0.9**

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

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	16.1± 1.0	16.2± 0.9	16.5± 1.0	17.1± 1.0	16.9± 0.9	16.9± 1.0	17.2± 1.0
0.1ppm	15.7± 1.1	15.9± 1.0	16.7± 1.1	17.1± 1.0	16.8± 0.9	16.9± 1.0	17.1± 1.1
0.5ppm	16.2± 1.0	16.4± 0.9	16.9± 0.9	17.2± 0.8	17.2± 0.9	16.9± 0.8	17.5± 0.8
2ppm	14.6± 0.9**	14.8± 1.0**	15.7± 1.0**	15.8± 0.9**	15.3± 0.9**	15.7± 0.9**	16.0± 0.9**

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	16.9± 1.0	17.5± 1.0	17.1± 1.0	17.3± 1.2	17.2± 1.1	17.0± 1.0	17.1± 1.1
0.1ppm	17.0± 0.9	17.2± 1.1	17.0± 1.2	17.1± 1.3	17.1± 1.0	16.9± 1.0	16.8± 1.1
0.5ppm	17.4± 1.0*	17.7± 1.0	17.3± 0.9	17.3± 1.4	17.3± 1.5	16.9± 1.2	17.0± 1.1
2ppm	16.3± 0.8**	16.5± 0.9**	16.3± 0.8**	16.4± 0.9**	16.1± 0.9**	16.1± 0.9**	16.2± 0.9**

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

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	17.0± 1.2	17.0± 2.3	17.0± 1.2	17.1± 2.3	16.6± 1.1	16.9± 1.2	17.0± 2.1
0.1ppm	17.0± 1.0	17.1± 1.2	17.0± 1.1	17.0± 1.3	16.8± 1.4	16.6± 1.3	16.7± 2.1
0.5ppm	17.2± 0.9	17.5± 1.1	17.4± 1.1	17.1± 1.6	16.5± 2.2	16.7± 1.3	17.2± 1.9
2ppm	16.2± 0.9**	16.3± 0.9**	16.0± 0.9**	16.3± 1.0**	16.1± 1.8*	16.3± 2.1**	16.5± 3.0**

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	16.2± 3.1	17.3± 1.6
0.1ppm	16.4± 2.0	16.2± 1.7**
0.5ppm	16.6± 2.1	16.8± 1.3
2ppm	16.0± 1.4*	15.8± 1.4**

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

Test of Dunnett

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day (effective)					
	1-7 (7)	2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)	
Control	12.5± 0.8	12.6± 0.9	12.2± 0.9	12.5± 1.0	11.9± 1.0	12.1± 1.2	11.3± 1.0	
0.1ppm	12.0± 0.7**	12.0± 0.9**	12.0± 0.9	12.2± 1.0	12.0± 1.1	11.9± 0.9	11.3± 0.9	
0.5ppm	12.1± 1.1**	12.3± 1.0	12.0± 1.1	12.2± 1.1	11.9± 1.1	11.7± 1.2	11.1± 1.3	
2ppm	9.1± 0.5**	11.1± 0.9**	10.9± 0.8**	11.1± 1.1**	10.9± 0.8**	10.6± 0.7**	10.8± 0.9*	

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day (effective)				
	8-7 (7)	9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	11.3± 0.9	11.2± 0.9	11.2± 0.8	10.9± 0.7	11.4± 0.8	11.3± 0.8	11.4± 0.9
0.1ppm	11.4± 1.2	11.1± 0.9	11.2± 0.9	11.2± 0.9	11.5± 0.8	11.6± 1.1	11.2± 0.9
0.5ppm	11.0± 1.2*	10.9± 1.1	11.1± 0.9	10.9± 0.9	11.2± 0.8	11.0± 1.0**	10.7± 1.1**
2ppm	10.6± 0.8**	10.4± 0.8**	10.8± 0.7*	10.6± 0.8	10.7± 0.7**	10.7± 0.7**	10.7± 0.8**

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

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	10.8± 0.9	10.7± 0.9	11.0± 0.7	11.2± 0.9	11.2± 1.0	11.3± 0.9	11.2± 1.0
0.1ppm	11.5± 1.1**	10.9± 0.9	11.5± 0.9*	11.2± 0.8	11.6± 0.9	11.5± 0.8	11.8± 1.2*
0.5ppm	10.8± 1.2	10.4± 0.8	11.2± 1.0	11.0± 1.0	11.2± 1.0	10.9± 0.7	11.1± 1.0
2ppm	10.4± 0.7	10.4± 0.8	11.2± 0.8	11.5± 1.2	11.4± 0.9	11.4± 0.8	11.7± 1.1*

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day(effective)				
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	11.1± 0.7	11.7± 0.8	11.9± 0.9	11.9± 0.9	11.5± 0.8	11.6± 1.0	11.7± 0.9
0.1ppm	11.8± 0.9**	11.9± 0.8	12.0± 0.8	12.1± 1.2	11.9± 1.1	12.1± 1.1	12.2± 0.7**
0.5ppm	11.3± 1.1	11.4± 0.9	11.7± 1.0	11.9± 1.4	11.7± 1.1	11.5± 1.2	11.4± 1.3
2ppm	12.1± 1.4**	12.0± 1.1	12.5± 0.9**	12.4± 1.1	11.8± 0.8	12.0± 1.0	12.1± 1.3

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)		82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
	74-7(7)	78-7(7)					
Control	12.0± 1.0	12.4± 0.8	12.0± 0.8	12.3± 1.0	12.2± 0.9	12.3± 0.9	12.8± 0.9
0.1ppm	12.3± 0.9	12.9± 1.0	12.4± 1.1	12.8± 1.0	12.8± 1.2	12.6± 1.4	13.1± 2.3
0.5ppm	12.0± 1.0	12.4± 1.2	12.2± 1.3	12.4± 1.1	12.2± 1.6	12.4± 1.2	12.9± 1.5
2ppm	12.2± 1.6	12.5± 1.4	12.4± 1.5	12.5± 1.1	12.1± 1.5	11.9± 2.6	12.9± 1.1

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	12.8± 1.4	12.2± 1.6
0.1ppm	12.3± 1.8	12.3± 1.8
0.5ppm	12.4± 1.7	11.8± 1.6
2ppm	12.3± 1.8	12.5± 1.2

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

Test of Dunnett

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[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 ³ /μl	
Control	41	7.73±	1.41	12.5±	2.5	38.2±	6.2	50.1±	6.5	16.3±	2.1	32.5±	1.9	936±	336
0.1ppm	40	8.00±	1.32	12.8±	2.4	39.1±	6.1	49.0±	2.2	16.0±	1.2	32.6±	1.7	858±	268
0.5ppm	37	7.49±	1.75	11.8±	2.9	36.4±	7.9	48.9±	3.2	15.7±	1.4	32.1±	1.9	926±	309
2ppm	42	8.23±	1.42	12.6±	2.7	38.8±	6.8	47.3±	3.0**	15.2±	1.6**	32.2±	1.9	948±	371

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
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	41	4.6±	2.7
0.1ppm	40	4.1±	3.0
0.5ppm	37	5.7±	4.4
2ppm	42	4.2±	3.1

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO	EOSINO	BASO	OTHER				
		10 ⁹ /μl		NEUTRO		LYMPHO									
Control	41	4.60±	3.44	50±	8	42±	8	4±	1	1±	1	0±	0	2±	1
0.1ppm	40	4.62±	4.32	53±	10	40±	10	4±	1	1±	1	0±	0	2±	1
0.5ppm	37	4.15±	2.34	52±	12	41±	12	4±	1	1±	1	0±	0	2±	1
2ppm	42	5.09±	7.17	53±	11	39±	10	4±	1	1±	1	0±	0	4±	14

Significant difference : * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	43	8.03±	0.81	14.3±	1.5	41.4±	3.8	51.7±	3.0	17.9±	1.1	34.6±	1.0	599±	87
0.1ppm	42	7.87±	1.29	14.1±	2.1	40.8±	5.4	52.8±	6.2	18.0±	1.2	34.3±	1.6	568±	108
0.5ppm	41	7.93±	1.00	14.3±	1.5	41.4±	4.1	52.6±	4.4	18.1±	1.1	34.5±	0.8	632±	124
2ppm	34	7.98±	0.90	14.1±	1.9	41.2±	4.6	51.6±	1.4	17.6±	1.1	34.0±	1.7	629±	84*

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	43	2.5±	2.2
0.1ppm	42	3.4±	5.3
0.5ppm	41	2.6±	2.8
2ppm	34	2.8±	3.9

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

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO	EOSINO	BASO	OTHER				
		1 O ³ /μl	3.30	NEUTRO	LYMPHO										
Control	43	2.77±	3.30	43±	13	50±	14	4±	1	2±	1	0±	0	1±	1
0.1ppm	42	7.46±	35.54	45±	11	47±	12	4±	1	2±	1	0±	0	3±	14
0.5ppm	41	2.55±	1.72	46±	12	47±	12	4±	1	2±	1	0±	1	1±	1
2ppm	34	2.43±	1.59	49±	12	45±	12	3±	1	2±	1	0±	0	1±	1

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Dunnett

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	41	6.5±	0.2	2.7±	0.2	0.7±	0.1	0.08±	0.09	155±	25	170±	48	110±	86
0.1ppm	40	6.5±	0.3	2.7±	0.2	0.7±	0.1	0.06±	0.03	161±	23	150±	40	82±	53
0.5ppm	37	6.4±	0.3	2.7±	0.2	0.8±	0.1	0.07±	0.03	162±	22	148±	22	81±	40
2ppm	42	6.4±	0.4	2.8±	0.3	0.8±	0.1**	0.07±	0.03	162±	21	125±	45**	47±	21**

Significant difference : * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[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	41	253±	62	92±	57	36±	11	196±	293	328±	76	6.4±	2.8	120±	47
0.1ppm	40	229±	59	90±	47	35±	13	136±	57	357±	220	6.0±	2.4	108±	33
0.5ppm	37	229±	33	96±	27	36±	7	153±	50	344±	77	6.3±	2.7	118±	40
2ppm	42	197±	66**	110±	42**	44±	16*	138±	59	386±	141**	5.9±	2.7	110±	43

Significant difference : * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE, TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	41	17.8±	2.9	0.37±	0.06	144±	2	3.9±	0.3	106±	2	10.5±	0.3	4.0±	0.6
0.1ppm	40	17.6±	2.1	0.36±	0.05	144±	1	4.0±	0.3	107±	2	10.6±	1.3	3.8±	0.6
0.5ppm	37	18.3±	3.3	0.36±	0.06	144±	1	3.9±	0.3	107±	2	10.4±	0.3	4.0±	0.7
2ppm	42	18.4±	5.2	0.33±	0.04**	144±	2	4.0±	0.3	107±	2**	10.2±	0.4**	4.1±	0.5

Significant difference : * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	43	6.7±	0.4	3.5±	0.3	1.1±	0.1	0.11±	0.34	148±	14	127±	24	60±	35
0.1ppm	42	6.8±	0.5	3.5±	0.4	1.1±	0.1	0.09±	0.15	140±	24	142±	45	80±	93
0.5ppm	41	6.8±	0.6	3.4±	0.4	1.0±	0.2	0.06±	0.03	136±	29*	135±	35	70±	59
2ppm	34	6.8±	0.5	3.5±	0.3	1.1±	0.2	0.05±	0.02	148±	14	137±	68	74±	120

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	43	236±	43	116±	73	50±	23	124±	54	233±	184	2.4±	1.1	90±	32
0.1ppm	42	265±	78	190±	251	66±	41	323±	1055*	218±	105	2.7±	1.5	117±	119
0.5ppm	41	251±	60	146±	141	54±	29	154±	81	219±	101	2.4±	1.2	122±	136
2ppm	34	252±	101	122±	57	50±	16	147±	58	214±	69	2.4±	1.0	98±	28

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	43	16.2±	2.1	0.29±	0.04	142±	1	3.7±	0.3	104±	2	10.4±	0.3	3.7±	0.7
0.1ppm	42	18.3±	7.2	0.29±	0.03	143±	2	3.7±	0.4	104±	2	10.6±	0.5	3.8±	0.8
0.5ppm	41	18.9±	8.5*	0.31±	0.06	143±	2	3.7±	0.4	104±	2	10.6±	0.5	3.7±	0.9
2ppm	34	17.5±	3.0	0.30±	0.04	143±	1	3.6±	0.3	105±	2	10.4±	0.5	3.5±	0.7

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE REPORT TYPE : A1

URINALYSIS

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+	-	
Control	42	0	0	7	9	14	9	3	0	0	2	19	18	3	42	0	0	0	0	0	38	3	1	0	0	0	41	0	0	1		
0.1ppm	40	0	0	5	5	12	15	3	0	0	2	16	22	0	40	0	0	0	0	0	36	4	0	0	0	0	40	0	0	0		
0.5ppm	38	0	1	1	8	12	7	9	0	0	3	12	23	0	38	0	0	0	0	0	33	4	1	0	0	0	38	0	0	0		
2ppm	42	0	0	2	6	10	14	10	0	3	9	14	16	0	42	0	0	0	0	0	41	1	0	0	0	0	42	0	0	0		

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of CHI SQUARE

STUDY NO. : 0816

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Occult blood					Urobilinogen						
		-	±	+	2+	3+	CHI	±	+	2+	3+	4+	CHI
Control	42	37	1	3	0	1		42	0	0	0	0	
0.1ppm	40	38	0	1	1	0		40	0	0	0	0	
0.5ppm	38	34	1	0	0	3		38	0	0	0	0	
2ppm	42	34	3	1	2	2		42	0	0	0	0	

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

Test of CHI SQUARE

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0816

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

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+
Control	44	0	1	4	3	5	12	19		4	8	11	16	5	0		44	0	0	0	0	0		27	17	0	0	0	0		44	0	0	0
0.1ppm	43	0	0	1	5	2	11	24		1	3	11	11	16	1	*	43	0	0	0	0	0		23	18	1	1	0	0		42	0	1	0
0.5ppm	41	0	0	1	4	1	16	19		2	5	8	11	14	1		41	0	0	0	0	0		19	20	2	0	0	0		41	0	0	0
2ppm	34	0	0	0	2	7	10	15		6	4	9	8	6	1		34	0	0	0	0	0		24	9	1	0	0	0		34	0	0	0

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of CHI SQUARE

STUDY NO. : 0816

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					Urobilinogen						
		-	±	+	2+	3+	CHI	±	+	2+	3+	4+	CHI
Control	44	42	0	1	0	1		44	0	0	0	0	
0.1ppm	43	43	0	0	0	0		43	0	0	0	0	
0.5ppm	41	38	1	0	1	1		41	0	0	0	0	
2ppm	34	33	0	1	0	0		34	0	0	0	0	

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

Test of CHI SQUARE

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		3	(6)	3	(6)	2	(4)	1	(2)
	erosion		0	(0)	0	(0)	0	(0)	1	(2)
	thick		0	(0)	0	(0)	0	(0)	1	(2)
	crust		2	(4)	0	(0)	1	(2)	0	(0)
subcutis	jaundice		0	(0)	1	(2)	1	(2)	0	(0)
	mass		13	(26)	2	(4)	7	(14)	3	(6)
nasal cavit	white zone		0	(0)	0	(0)	0	(0)	1	(2)
lung	red		1	(2)	0	(0)	3	(6)	0	(0)
	white zone		2	(4)	5	(10)	3	(6)	3	(6)
	red zone		0	(0)	1	(2)	0	(0)	1	(2)
	black zone		0	(0)	0	(0)	0	(0)	1	(2)
	edema		1	(2)	0	(0)	1	(2)	1	(2)
	nodule		2	(4)	1	(2)	2	(4)	3	(6)
	voluminous		1	(2)	0	(0)	0	(0)	1	(2)
lymph node	enlarged		3	(6)	0	(0)	4	(8)	1	(2)
thymus	enlarged		0	(0)	1	(2)	0	(0)	0	(0)
spleen	enlarged		5	(10)	5	(10)	11	(22)	2	(4)
	white zone		2	(4)	1	(2)	0	(0)	0	(0)
	deformed		1	(2)	0	(0)	0	(0)	0	(0)
heart	white zone		0	(0)	1	(2)	0	(0)	0	(0)
stomach	forestomach:ulcer		1	(2)	0	(0)	2	(4)	0	(0)
	forestomach:erosion		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrI j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
stomach	glandular stomach:ulcer		1	(2)	1	(2)	0	(0)	0	(0)
	glandular stomach:erosion		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:nodule		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:black zone		1	(2)	0	(0)	1	(2)	1	(2)
	glandular stomach:thick		3	(6)	2	(4)	5	(10)	7	(14)
	glandular stomach:white zone		2	(4)	0	(0)	1	(2)	2	(4)
duodenum	nodule		0	(0)	1	(2)	0	(0)	0	(0)
small intes	nodule		0	(0)	1	(2)	1	(2)	3	(6)
	dilated		0	(0)	0	(0)	1	(2)	0	(0)
	fluid:brown		0	(0)	1	(2)	0	(0)	0	(0)
liver	enlarged		2	(4)	2	(4)	5	(10)	2	(4)
	white zone		2	(4)	2	(4)	1	(2)	1	(2)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		0	(0)	2	(4)	2	(4)	1	(2)
	rough		1	(2)	1	(2)	1	(2)	0	(0)
	herniation		5	(10)	5	(10)	5	(10)	8	(16)
pancreas	nodule		0	(0)	2	(4)	2	(4)	2	(4)
kidney	white zone		0	(0)	1	(2)	1	(2)	0	(0)
	nodule		0	(0)	0	(0)	3	(6)	0	(0)
	granular		5	(10)	3	(6)	4	(8)	0	(0)
	hydronephrosis		1	(2)	0	(0)	0	(0)	0	(0)
ureter	dilated		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIcrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
urin bladd	urine:marked retention		1	(2)	1	(2)	1	(2)	2	(4)
pituitary	enlarged		7	(14)	5	(10)	5	(10)	2	(4)
	red zone		3	(6)	4	(8)	1	(2)	1	(2)
	nodule		2	(4)	0	(0)	0	(0)	0	(0)
thyroid	enlarged		2	(4)	0	(0)	1	(2)	1	(2)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	black zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		5	(10)	1	(2)	3	(6)	2	(4)
adrenal	enlarged		2	(4)	2	(4)	4	(8)	1	(2)
	black zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
testis	nodule		38	(76)	42	(84)	40	(80)	44	(88)
epididymis	nodule		0	(0)	0	(0)	0	(0)	1	(2)
brain	red zone		0	(0)	0	(0)	2	(4)	0	(0)
spinal cord	red zone		0	(0)	0	(0)	1	(2)	0	(0)
periph nerv	nodule		0	(0)	0	(0)	1	(2)	0	(0)
eye	white		2	(4)	4	(8)	5	(10)	3	(6)
	red		0	(0)	0	(0)	0	(0)	1	(2)
Harder gl	white zone		0	(0)	0	(0)	1	(2)	0	(0)
Zymbal gl	nodule		0	(0)	3	(6)	2	(4)	1	(2)
muscle	nodule		0	(0)	1	(2)	0	(0)	0	(0)
articulus	swollen		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control					
			50	(%)	50	(%)		
			0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)
pleura	nodule		0	(0)	1	(2)	0	(0)
	adhesion		0	(0)	0	(0)	0	(0)
	thick		1	(2)	1	(2)	0	(0)
mediastinum	mass		1	(2)	0	(0)	1	(2)
peritoneum	nodule		2	(4)	0	(0)	2	(4)
	adhesion		0	(0)	0	(0)	0	(0)
	thick		1	(2)	0	(0)	0	(0)
retroperit	mass		0	(0)	0	(0)	0	(0)
abdominal c	hemorrhage		0	(0)	0	(0)	1	(2)
	ascites		1	(2)	0	(0)	2	(4)
thoracic ca	hemorrhage		0	(0)	1	(2)	0	(0)
	pleural fluid		2	(4)	2	(4)	3	(6)
other	tail:nodule		0	(0)	0	(0)	1	(2)
	ear:nodule		0	(0)	1	(2)	0	(0)
	hindlimb:nodule		0	(0)	1	(2)	0	(0)
	nose:nodule		0	(0)	1	(2)	0	(0)
whole body	anemic		0	(0)	2	(4)	2	(4)

TABLE I 2

GROSS FINDINGS : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		2	(4)	1	(2)	0	(0)	0	(0)
	crust		0	(0)	0	(0)	1	(2)	0	(0)
subcutis	jaundice		0	(0)	1	(2)	0	(0)	1	(2)
	mass		5	(10)	11	(22)	8	(16)	7	(14)
lung	red		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		1	(2)	0	(0)	6	(12)	5	(10)
	red zone		1	(2)	0	(0)	0	(0)	2	(4)
	nodule		1	(2)	1	(2)	1	(2)	1	(2)
	voluminous		1	(2)	0	(0)	0	(0)	0	(0)
lymph node	enlarged		0	(0)	3	(6)	1	(2)	2	(4)
spleen	enlarged		3	(6)	7	(14)	4	(8)	5	(10)
heart	hypertrophy		0	(0)	0	(0)	1	(2)	0	(0)
oral cavity	food		1	(2)	1	(2)	0	(0)	0	(0)
tongue	nodule		1	(2)	0	(0)	0	(0)	1	(2)
salivary gl	nodule		0	(0)	0	(0)	0	(0)	1	(2)
stomach	forestomach:ulcer		0	(0)	0	(0)	0	(0)	1	(2)
	glandular stomach:ulcer		0	(0)	1	(2)	1	(2)	1	(2)
	glandular stomach:nodule		0	(0)	0	(0)	2	(4)	0	(0)
	glandular stomach:black zone		1	(2)	0	(0)	0	(0)	0	(0)
	glandular stomach:red zone		0	(0)	0	(0)	1	(2)	0	(0)
	glandular stomach:thick		5	(10)	6	(12)	4	(8)	2	(4)
	glandular stomach:white zone		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	enlarged		0	(0)	2	(4)	1	(2)	0	(0)
	white zone		0	(0)	1	(2)	3	(6)	2	(4)
	red zone		1	(2)	1	(2)	0	(0)	2	(4)
	nodule		1	(2)	1	(2)	2	(4)	0	(0)
	rough		1	(2)	3	(6)	2	(4)	1	(2)
	herniation		9	(18)	10	(20)	9	(18)	9	(18)
pancreas	nodule		0	(0)	1	(2)	0	(0)	0	(0)
kidney	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
	cyst		0	(0)	0	(0)	0	(0)	1	(2)
	granular		0	(0)	1	(2)	1	(2)	2	(4)
urin bladd	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	thick		0	(0)	0	(0)	1	(2)	0	(0)
	urine:marked retention		0	(0)	1	(2)	0	(0)	0	(0)
pituitary	enlarged		9	(18)	13	(26)	12	(24)	14	(28)
	white zone		0	(0)	1	(2)	1	(2)	0	(0)
	red zone		9	(18)	7	(14)	9	(18)	3	(6)
	hemorrhage		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	0	(0)	1	(2)	1	(2)
thyroid	enlarged		1	(2)	0	(0)	0	(0)	1	(2)
	red zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		3	(6)	1	(2)	6	(12)	2	(4)
adrenal	enlarged		1	(2)	0	(0)	2	(4)	2	(4)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
adrenal	nodule		1	(2)	0	(0)	0	(0)	0	(0)
ovary	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	cyst		2	(4)	2	(4)	0	(0)	0	(0)
uterus	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	black zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		8	(16)	2	(4)	4	(8)	3	(6)
	cyst		0	(0)	0	(0)	1	(2)	1	(2)
	dilated lumen		0	(0)	0	(0)	1	(2)	0	(0)
vagina	nodule		0	(0)	2	(4)	0	(0)	0	(0)
brain	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	red zone		0	(0)	0	(0)	0	(0)	3	(6)
	black zone		0	(0)	0	(0)	0	(0)	1	(2)
spinal cord	red zone		1	(2)	0	(0)	1	(2)	0	(0)
periph nerv	thick		0	(0)	0	(0)	0	(0)	1	(2)
eye	turbid		1	(2)	0	(0)	0	(0)	0	(0)
	white		5	(10)	7	(14)	2	(4)	1	(2)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
Zymbal gl	nodule		0	(0)	0	(0)	1	(2)	0	(0)
peritoneum	nodule		1	(2)	0	(0)	2	(4)	0	(0)
	thick		1	(2)	0	(0)	0	(0)	1	(2)
abdominal c	hemorrhage		1	(2)	0	(0)	1	(2)	0	(0)

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		0.1ppm		0.5ppm		2ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
abdominal c	ascites		0	(0)	1	(2)	1	(2)	0	(0)
thoracic ca	pleural fluid		0	(0)	0	(0)	3	(6)	1	(2)
other	lip:nodule		0	(0)	1	(2)	0	(0)	0	(0)
	nose:elevated		0	(0)	0	(0)	0	(0)	1	(2)
whole body	anemic		1	(2)	1	(2)	0	(0)	2	(4)

(HPT080)

BAIS 5

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	41	394± 36	0.075±	0.014	3.507±	1.559	1.237±	0.102	1.401±	0.254	2.793±	0.196
0.1ppm	40	376± 31	0.091±	0.090	3.641±	1.112	1.202±	0.085	1.323±	0.085	2.683±	0.190*
0.5ppm	37	389± 34	0.332±	1.434	4.221±	1.354	1.259±	0.168	1.393±	0.140	2.692±	0.169*
2ppm	42	346± 23**	0.073±	0.037*	3.729±	1.369	1.200±	0.091	1.334±	0.151	2.491±	0.178**

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	41	1.129±	0.810	11.082±	1.447	2.079±	0.048
0.1ppm	40	0.999±	0.363	10.418±	1.230	2.077±	0.044
0.5ppm	37	1.091±	0.661	10.746±	1.169	2.074±	0.046
2ppm	42	0.776±	0.164**	9.114±	0.889**	2.055±	0.052

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

Group Name	NO. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	43	255± 20	0.075±	0.022	0.201±	0.385	0.851±	0.053	0.926±	0.099	1.758±	0.143
0.1ppm	42	258± 29	0.070±	0.010	0.193±	0.460	0.868±	0.071	0.964±	0.209	1.755±	0.131
0.5ppm	41	249± 36	0.077±	0.058	0.114±	0.022	0.836±	0.074	0.931±	0.173	1.782±	0.363
2ppm	34	240± 22**	0.069±	0.008	0.178±	0.308	0.844±	0.048	0.923±	0.073	1.718±	0.159

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	43	0.623±	0.610	6.348±	0.875	1.885±	0.049
0.1ppm	42	0.952±	1.808	6.652±	1.047	1.896±	0.045
0.5ppm	41	0.597±	0.485	6.201±	1.009	1.871±	0.044
2ppm	34	0.547±	0.236	6.465±	1.080	1.866±	0.041

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

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	41	394± 36	0.019± 0.004	0.893± 0.396	0.316± 0.036	0.357± 0.062	0.715± 0.085
0.1ppm	40	376± 31	0.024± 0.023	0.969± 0.292	0.321± 0.032	0.354± 0.035	0.717± 0.072
0.5ppm	37	389± 34	0.106± 0.493	1.092± 0.352*	0.327± 0.061	0.361± 0.063	0.697± 0.076
2ppm	42	346± 23**	0.021± 0.011	1.074± 0.392	0.348± 0.034**	0.388± 0.056**	0.724± 0.079

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	41	0.287± 0.197	2.820± 0.331	0.532± 0.047
0.1ppm	40	0.264± 0.086	2.767± 0.218	0.556± 0.050*
0.5ppm	37	0.277± 0.150	2.766± 0.241	0.536± 0.044
2ppm	42	0.224± 0.042**	2.647± 0.333**	0.597± 0.036**

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

Test of Dunnett

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	43	255± 20	0.030± 0.009	0.078± 0.145	0.335± 0.026	0.364± 0.046	0.692± 0.069
0.1ppm	42	258± 29	0.028± 0.006	0.071± 0.150	0.342± 0.064	0.385± 0.146	0.687± 0.089
0.5ppm	41	249± 36	0.032± 0.026	0.046± 0.007	0.342± 0.050	0.385± 0.107	0.750± 0.333
2ppm	34	240± 22**	0.029± 0.003	0.075± 0.128	0.354± 0.036	0.387± 0.041*	0.720± 0.084

Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	43	0.246 ± 0.251	2.490 ± 0.316	0.743 ± 0.065
0.1ppm	42	0.424 ± 0.944	2.606 ± 0.523	0.744 ± 0.094
0.5ppm	41	0.243 ± 0.182	2.514 ± 0.353	0.774 ± 0.159
2ppm	34	0.232 ± 0.120	2.706 ± 0.474	0.783 ± 0.069

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

Test of Dunnett

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Gr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Integumentary system/appandage]						
skin/app	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)
	schwannoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	keratoacanthoma		2 (4%)	2 (4%)	2 (4%)	0 (0%)
subcutis	fibroma		<50> 8 (16%)	<50> 1 (2%)	<50> 4 (8%)	<50> 3 (6%)
	lipoma		2 (4%)	1 (2%)	0 (0%)	0 (0%)
	schwannoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
[Respiratory system]						
nasal cavit	chondroma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
lung	bronchiolar-alveolar adenoma		<50> 4 (8%)	<50> 4 (8%)	<50> 4 (8%)	<50> 3 (6%)
	bronchiolar-alveolar carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
[Hematopoietic system]						
thymus	thymoma:malignant		<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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Hematopoietic system]						
spleen	mononuclear cell leukemia		<50> 2 (4%)	<50> 5 (10%)	<50> 7 (14%)	<50> 1 (2%)
[Digestive system]						
stomach	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
small intes	fibroma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	2 (4%)
	leiomyosarcoma		0 (0%)	0 (0%)	1 (2%)	1 (2%)
liver	hepatocellular adenoma		<50> 2 (4%)	<50> 2 (4%)	<50> 2 (4%)	<50> 0 (0%)
pancreas	islet cell adenoma		<50> 4 (8%)	<50> 5 (10%)	<50> 0 (0%)	<50> 6 (12%)
	acinar cell adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	islet cell adenocarcinoma		2 (4%)	1 (2%)	3 (6%)	2 (4%)
[Urinary system]						
kidney	mesenchymoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	nephroblastoma		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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Endocrine system]						
pituitary	adenoma		<50> 10 (20%)	<50> 8 (16%)	<49> 11 (22%)	<50> 3 (6%)
	adenocarcinoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
thyroid	C-cell adenoma		<50> 8 (16%)	<50> 10 (20%)	<50> 8 (16%)	<50> 10 (20%)
	follicular adenoma		1 (2%)	1 (2%)	0 (0%)	1 (2%)
	C-cell carcinoma		4 (8%)	0 (0%)	2 (4%)	0 (0%)
adrenal	pheochromocytoma		<50> 6 (12%)	<50> 0 (0%)	<50> 3 (6%)	<50> 1 (2%)
	cortical adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	pheochromocytoma:malignant		1 (2%)	2 (4%)	2 (4%)	1 (2%)
[Reproductive system]						
testis	interstitial cell tumor		<50> 40 (80%)	<50> 43 (86%)	<50> 41 (82%)	<50> 46 (92%)
prostate	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
mammary gl	fibroadenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
prep/cli gl	adenoma		<50> 2 (4%)	<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[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	0.1ppm 50	0.5ppm 50	2ppm 50
{Nervous system}						
brain	glioma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Special sense organs/appendage}						
Harder gl	adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
Zymbal gl	Zmbal gland tumor:benign		<50> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)	<50> 1 (2%)
	Zymbal gland tumor:malignant		<50> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)	<50> 0 (0%)
{Musculoskeletal system}						
muscle	lipoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
bone	osteosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
vertebra	chordoma:malignant		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Body cavities}						
pleura	lipoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
mediastinum	lipoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
peritoneum	lipoma		<50> 1 (2%)	<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. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Body cavities}						
peritoneum	mesothelioma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 3 (6%)

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

(HPT085)

BAIS5

TABLE L2

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Integumentary system/appandage}						
skin/app	trichoepithelioma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	keratoacanthoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
subcutis	fibroma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	lipoma		0 (0%)	0 (0%)	2 (4%)	0 (0%)
{Respiratory system}						
nasal cavit	rhabdomyoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 4 (8%)
	squamous cell carcinoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
lung	bronchiolar-alveolar adenoma		<50> 0 (0%)	<50> 2 (4%)	<50> 2 (4%)	<50> 2 (4%)
	squamous cell carcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Hematopoietic system}						
spleen	mononuclear cell leukemia		<50> 5 (10%)	<50> 6 (12%)	<50> 4 (8%)	<50> 3 (6%)
{Digestive system}						
tongue	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Digestive system}						
liver	hepatocellular adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 3 (6%)	<50> 0 (0%)
	pancreas					
	islet cell adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	islet cell adenocarcinoma		1 (2%)	0 (0%)	2 (4%)	0 (0%)
{Urinary system}						
kidney	renal cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	urin bladd					
	transitional cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	transitional cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Endocrine system}						
pituitary	adenoma		<50> 14 (28%)	<50> 15 (30%)	<50> 20 (40%)	<50> 17 (34%)
	adenocarcinoma		0 (0%)	2 (4%)	1 (2%)	0 (0%)
thyroid	C-cell adenoma		<50> 12 (24%)	<50> 10 (20%)	<50> 6 (12%)	<50> 8 (16%)
	C-cell carcinoma		1 (2%)	0 (0%)	4 (8%)	2 (4%)
	follicular adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Endocrine system]						
adrenal	pheochromocytoma		<50> 1 (2%)	<50> 1 (2%)	<50> 2 (4%)	<50> 0 (0%)
	pheochromocytoma:malignant		0 (0%)	0 (0%)	1 (2%)	1 (2%)
[Reproductive system]						
ovary	cystadenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	sertoli cell tumor		0 (0%)	0 (0%)	0 (0%)	1 (2%)
uterus	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	endometrial stromal polyp		7 (14%)	7 (14%)	4 (8%)	10 (20%)
	adenocarcinoma		3 (6%)	1 (2%)	0 (0%)	1 (2%)
	fibrosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	endometrial stromal sarcoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
mammary gl	adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
	fibroadenoma		4 (8%)	6 (12%)	2 (4%)	3 (6%)
	adenocarcinoma		0 (0%)	2 (4%)	1 (2%)	1 (2%)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Reproductive system}						
prep/cli gl	adenoma		<50> 1 (2%)	<50> 2 (4%)	<50> 3 (6%)	<50> 2 (4%)
{Nervous system}						
brain	glioma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
{Special sense organs/appendage}						
Zymbal gl	Zymbal gland tumor:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Musculoskeletal system}						
muscle	sarcoma:NOS		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Body cavities}						
peritoneum	rhabdomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

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

TABLE M1

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

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	8/50(16.0)	1/50(2.0)	4/50(8.0)	3/50(6.0)
Adjusted rates(b)	15.22	2.50	9.30	7.14
Terminal rates(c)	6/41(14.6)	1/40(2.5)	3/37(8.1)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.7317			
Combined analysis(d)	P = 0.7924			
Cochran-Armitage test(e)	P = 0.4545			
Fisher Exact test(e)		P = 0.0154*	P = 0.1783	P = 0.0999
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	4/50(8.0)	4/50(8.0)	3/50(6.0)
Adjusted rates(b)	9.76	10.00	10.81	7.14
Terminal rates(c)	4/41(9.8)	4/40(10.0)	4/37(10.8)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6879			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6512			
Fisher Exact test(e)		P = 0.6425	P = 0.6425	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	4/50(8.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	9.76	10.00	13.51	7.14
Terminal rates(c)	4/41(9.8)	4/40(10.0)	5/37(13.5)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7024			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6257			
Fisher Exact test(e)		P = 0.6425	P = 0.5000	P = 0.5000

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	2/50(4.0)	5/50(10.0)	7/50(14.0)	1/50(2.0)
Adjusted rates(b)	2.44	7.50	5.41	0.0
Terminal rates(c)	1/41(2.4)	3/40(7.5)	2/37(5.4)	0/42(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6891			
Prevalence method(d)	P = 0.9245			
Combined analysis(d)	P = 0.9048			
Cochran-Armitage test(e)	P = 0.2091			
Fisher Exact test(e)		P = 0.2180	P = 0.0798	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	5/50(10.0)	0/50(0.0)	6/50(12.0)
Adjusted rates(b)	9.76	10.87	0.0	14.29
Terminal rates(c)	4/41(9.8)	4/40(10.0)	0/37(0.0)	6/42(14.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2004			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3570			
Fisher Exact test(e)		P = 0.5000	P = 0.0587	P = 0.3703
SITE : pancreas TUMOR : islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	1/50(2.0)	3/50(6.0)	2/50(4.0)
Adjusted rates(b)	4.88	2.50	5.41	2.38
Terminal rates(c)	2/41(4.9)	1/40(2.5)	2/37(5.4)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1913			
Prevalence method(d)	P = 0.6474			
Combined analysis(d)	P = 0.4380			
Cochran-Armitage test(e)	P = 0.8571			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.6913

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	6/50(12.0)	3/50(6.0)	8/50(16.0)
Adjusted rates(b)	14.63	13.04	5.41	16.67
Terminal rates(c)	6/41(14.6)	5/40(12.5)	2/37(5.4)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1913			
Prevalence method(d)	P = 0.3089			
Combined analysis(d)	P = 0.2210			
Cochran-Armitage test(e)	P = 0.3837			
Fisher Exact test(e)		P = 0.6202	P = 0.2435	P = 0.3871
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	8/50(16.0)	11/49(22.4)	3/50(6.0)
Adjusted rates(b)	12.20	10.00	18.18	4.65
Terminal rates(c)	5/41(12.2)	4/40(10.0)	6/37(16.2)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9601			
Prevalence method(d)	P = 0.9156			
Combined analysis(d)	P = 0.9866			
Cochran-Armitage test(e)	P = 0.0406*			
Fisher Exact test(e)		P = 0.3976	P = 0.4791	P = 0.0357*
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	9/50(18.0)	11/49(22.4)	3/50(6.0)
Adjusted rates(b)	14.63	12.50	18.18	4.65
Terminal rates(c)	6/41(14.6)	5/40(12.5)	6/37(16.2)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9601			
Prevalence method(d)	P = 0.9563			
Combined analysis(d)	P = 0.9932			
Cochran-Armitage test(e)	P = 0.0226*			
Fisher Exact test(e)		P = 0.4016	P = 0.5742	P = 0.0204*

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	10/50(20.0)	8/50(16.0)	10/50(20.0)
Adjusted rates(b)	19.51	25.00	21.62	21.28
Terminal rates(c)	8/41(19.5)	10/40(25.0)	8/37(21.6)	8/42(19.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4984			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7133			
Fisher Exact test(e)		P = 0.3976	P = 0.6071	P = 0.3976
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	0/50(0.0)	2/50(4.0)	0/50(0.0)
Adjusted rates(b)	8.89	0.0	2.70	0.0
Terminal rates(c)	3/41(7.3)	0/40(0.0)	1/37(2.7)	0/42(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3476			
Prevalence method(d)	P = 0.9635			
Combined analysis(d)	P = 0.9532			
Cochran-Armitage test(e)	P = 0.1337			
Fisher Exact test(e)		P = 0.0587	P = 0.3389	P = 0.0587
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	12/50(24.0)	10/50(20.0)	10/50(20.0)	10/50(20.0)
Adjusted rates(b)	26.83	25.00	24.32	21.28
Terminal rates(c)	11/41(26.8)	10/40(25.0)	9/37(24.3)	8/42(19.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3476			
Prevalence method(d)	P = 0.7230			
Combined analysis(d)	P = 0.7317			
Cochran-Armitage test(e)	P = 0.7783			
Fisher Exact test(e)		P = 0.4048	P = 0.4048	P = 0.4048

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	0/50(0.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	14.63	0.0	6.67	2.38
Terminal rates(c)	6/41(14.6)	0/40(0.0)	2/37(5.4)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9076			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2246			
Fisher Exact test(e)		P = 0.0133*	P = 0.2435	P = 0.0559
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	7/50(14.0)	2/50(4.0)	5/50(10.0)	2/50(4.0)
Adjusted rates(b)	14.63	5.00	11.11	4.76
Terminal rates(c)	6/41(14.6)	2/40(5.0)	4/37(10.8)	2/42(4.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.8715			
Combined analysis(d)	P = 0.9087			
Cochran-Armitage test(e)	P = 0.2289			
Fisher Exact test(e)		P = 0.0798	P = 0.3798	P = 0.0798
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates(a)	40/50(80.0)	43/50(86.0)	41/50(82.0)	46/50(92.0)
Adjusted rates(b)	92.86	100.00	100.00	97.62
Terminal rates(c)	38/41(92.7)	40/40(100.0)	37/37(100.0)	41/42(97.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3974			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1196			
Fisher Exact test(e)		P = 0.2977	P = 0.5000	P = 0.0739

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : Zymbal gland				
TUMOR : Zmbal gland tumor:benign ,Zymbal gland tumor:malignant				
Tumor rate				
Overall rates(a)	0/50(0.0)	4/50(8.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	0.0	7.50	2.70	0.0
Terminal rates(c)	0/41(0.0)	3/40(7.5)	1/37(2.7)	0/42(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3206			
Prevalence method(d)	P = 0.8775			
Combined analysis(d)	P = 0.7033			
Cochran-Armitage test(e)	P = 0.5809			
Fisher Exact test(e)		P = 0.0587	P = 0.2475	P = 0.5000
SITE : peritoneum				
TUMOR : mesothelioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	0/50(0.0)	1/50(2.0)	3/50(6.0)
Adjusted rates(b)	2.44	0.0	2.70	4.76
Terminal rates(c)	1/41(2.4)	0/40(0.0)	1/37(2.7)	2/42(4.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1802			
Prevalence method(d)	P = 0.1422			
Combined analysis(d)	P = 0.0547			
Cochran-Armitage test(e)	P = 0.0663			
Fisher Exact test(e)		P = 0.5000	P = 0.7525	P = 0.3087

(HPT360A)

BAIS5

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

TABLE M2

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

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	100ppb	500ppb	2000ppb
SITE : nasal cavity TUMOR : rhabdomyoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	0/50(0.0)	0/50(0.0)	4/50(8.0)
Adjusted rates(b)	0.0	0.0	0.0	11.76
Terminal rates(c)	0/43(0.0)	0/42(0.0)	0/41(0.0)	4/34(11.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0007**			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.0587
SITE : nasal cavity TUMOR : rhabdomyoma, squamous cell carcinoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	0/50(0.0)	0/50(0.0)	6/50(12.0)
Adjusted rates(b)	0.0	0.0	0.0	14.71
Terminal rates(c)	0/43(0.0)	0/42(0.0)	0/41(0.0)	5/34(14.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1398			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P < 0.0001**?			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.0133*
SITE : lung TUMOR : bronchiolar-alveolar adenoma, squamous cell carcinoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	2/50(4.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	2.33	4.76	4.88	6.82
Terminal rates(c)	1/43(2.3)	2/42(4.8)	2/41(4.9)	2/34(5.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1745			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3679			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3087

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	5/50(10.0)	6/50(12.0)	4/50(8.0)	3/50(6.0)
Adjusted rates(b)	6.98	4.76	4.88	0.0
Terminal rates(c)	3/43(7.0)	2/42(4.8)	2/41(4.9)	0/34(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3998			
Prevalence method(d)	P = 0.9416			
Combined analysis(d)	P = 0.7503			
Cochran-Armitage test(e)	P = 0.3393			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3575
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	1/50(2.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	0.0	2.38	7.32	0.0
Terminal rates(c)	0/43(0.0)	1/42(2.4)	3/41(7.3)	0/34(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6346			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5286			
Fisher Exact test(e)		P = 0.5000	P = 0.1212	P = N. C.
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	14/50(28.0)	15/50(30.0)	20/50(40.0)	17/50(34.0)
Adjusted rates(b)	25.58	31.25	44.19	29.41
Terminal rates(c)	11/43(25.6)	12/42(28.6)	18/41(43.9)	10/34(29.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0115*			
Prevalence method(d)	P = 0.5619			
Combined analysis(d)	P = 0.1619			
Cochran-Armitage test(e)	P = 0.6257			
Fisher Exact test(e)		P = 0.5000	P = 0.1456	P = 0.3329

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	14/50 (28.0)	17/50 (34.0)	21/50 (42.0)	17/50 (34.0)
Adjusted rates(b)	25.58	34.04	46.51	29.41
Terminal rates(c)	11/43 (25.6)	13/42 (31.0)	19/41 (46.3)	10/34 (29.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0215*			
Prevalence method(d)	P = 0.6199			
Combined analysis(d)	P = 0.2243			
Cochran-Armitage test(e)	P = 0.8022			
Fisher Exact test(e)		P = 0.3329	P = 0.1041	P = 0.3329
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	12/50 (24.0)	10/50 (20.0)	6/50 (12.0)	8/50 (16.0)
Adjusted rates(b)	27.91	23.81	12.24	23.53
Terminal rates(c)	12/43 (27.9)	10/42 (23.8)	5/41 (12.2)	8/34 (23.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6088			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4350			
Fisher Exact test(e)		P = 0.4048	P = 0.0961	P = 0.2270
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	1/50 (2.0)	0/50 (0.0)	4/50 (8.0)	2/50 (4.0)
Adjusted rates(b)	2.08	0.0	9.76	5.26
Terminal rates(c)	0/43 (0.0)	0/42 (0.0)	4/41 (9.8)	1/34 (2.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2221			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4864			
Fisher Exact test(e)		P = 0.5000	P = 0.1811	P = 0.5000

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	13/50(26.0)	10/50(20.0)	10/50(20.0)	10/50(20.0)
Adjusted rates(b)	27.91	23.81	21.95	26.47
Terminal rates(c)	12/43(27.9)	10/42(23.8)	9/41(22.0)	9/34(26.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4971			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6754			
Fisher Exact test(e)		P = 0.3176	P = 0.3176	P = 0.3176
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	1/50(2.0)	1/50(2.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	2.33	2.38	4.17	0.0
Terminal rates(c)	1/43(2.3)	1/42(2.4)	1/41(2.4)	0/34(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1587			
Prevalence method(d)	P = 0.8072			
Combined analysis(d)	P = 0.5072			
Cochran-Armitage test(e)	P = 0.8767			
Fisher Exact test(e)		P = 0.7525	P = 0.3087	P = 0.7525
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	7/50(14.0)	7/50(14.0)	4/50(8.0)	10/50(20.0)
Adjusted rates(b)	14.58	16.67	9.52	22.50
Terminal rates(c)	6/43(14.0)	7/42(16.7)	3/41(7.3)	7/34(20.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1148			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2526			
Fisher Exact test(e)		P = 0.6129	P = 0.2623	P = 0.2977

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	100ppb	500ppb	2000ppb
SITE : uterus TUMOR : adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/50(0.0)	1/50(2.0)
Adjusted rates(b)	6.98	2.38	0.0	2.94
Terminal rates(c)	3/43(7.0)	1/42(2.4)	0/41(0.0)	1/34(2.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6425			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5158			
Fisher Exact test(e)		P = 0.3087	P = 0.1212	P = 0.3087
SITE : uterus TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	6.98	2.38	2.44	2.94
Terminal rates(c)	3/43(7.0)	1/42(2.4)	1/41(2.4)	1/34(2.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6495			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5014			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.3087
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	6/50(12.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	9.30	11.11	4.88	8.82
Terminal rates(c)	4/43(9.3)	4/42(9.5)	2/41(4.9)	3/34(8.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4846			
Prevalence method(d)	P = 0.6254			
Combined analysis(d)	P = 0.6826			
Cochran-Armitage test(e)	P = 0.4715			
Fisher Exact test(e)		P = 0.3703	P = 0.3389	P = 0.5000

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : mammary gland				
TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	7/50(14.0)	3/50(6.0)	3/50(6.0)
Adjusted rates(b)	9.30	12.77	7.32	8.82
Terminal rates(c)	4/43(9.3)	4/42(9.5)	3/41(7.3)	3/34(8.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4846			
Prevalence method(d)	P = 0.7313			
Combined analysis(d)	P = 0.7754			
Cochran-Armitage test(e)	P = 0.3673			
Fisher Exact test(e)		P = 0.2623	P = 0.5000	P = 0.5000
SITE : mammary gland				
TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	9/50(18.0)	4/50(8.0)	4/50(8.0)
Adjusted rates(b)	9.30	17.02	9.76	8.82
Terminal rates(c)	4/43(9.3)	6/42(14.3)	4/41(9.8)	3/34(8.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2184			
Prevalence method(d)	P = 0.8200			
Combined analysis(d)	P = 0.7240			
Cochran-Armitage test(e)	P = 0.4287			
Fisher Exact test(e)		P = 0.1168	P = 0.6425	P = 0.6425

STUDY No. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	100ppb	500ppb	2000ppb
SITE : preputial/clitoral gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	2/50(4.0)	3/50(6.0)	2/50(4.0)
Adjusted rates(b)	2.33	4.76	7.32	4.08
Terminal rates(c)	1/43(2.3)	2/42(4.8)	3/41(7.3)	1/34(2.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3623			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8219			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.5000

(HPT360A)

BA1S5

- (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 cannot 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 N1

HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC

LESIONS IN JAPAN BIOASSAY RESEARCH CENTER :

F344/DuCr1Cr1j MALE RATS

TABLE N1 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN
 JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Nasal cavity Squamous cell carcinoma	599	0	0.0	0 - 0

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

Study No. : 0457, 0535, 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794

TABLE N2

HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC

LESIONS IN JAPAN BIOASSAY RESEARCH CENTER :

F344/DuCr1Cr1j FEMALE RATS

TABLE N2 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j FEMALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Nasal cavity	600			
Rhabdomyoma		0	0.0	0 - 0
Squamous cell carcinoma		0	0.0	0 - 0
Pituitary	599			
Adenoma		165	27.5	22 - 42

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

Study No. : 0457, 0535, 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794

TABLE 01

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		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	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	scab	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
[Respiratory system]																	
nasal cavit	exudate	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	thrombus	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	16	0	0	0	22	0	0	0	22	0	0	0	16	0	0	0
		(32)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(32)	(0)	(0)	(0)
	goblet cell hyperplasia	2	0	0	0	1	0	0	0	1	0	0	0	35	1	0	0 **
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(70)	(2)	(0)	(0)
	eosinophilic change:olfactory epithelium	16	15	4	0	22	11	3	0	27	12	3	0	16	26	6	0 **
		(32)	(30)	(8)	(0)	(44)	(22)	(6)	(0)	(54)	(24)	(6)	(0)	(32)	(52)	(12)	(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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		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>			
		0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
inflammation:foreign body		13	1	0	0	11	0	0	0	11	3	0	0	26	17	0	0 **
		(26)	(2)	(0)	(0)	(22)	(0)	(0)	(0)	(22)	(6)	(0)	(0)	(52)	(34)	(0)	(0)
inflammation:respiratory epithelium		13	1	0	0	16	0	0	0	10	0	0	0	31	3	0	0 **
		(26)	(2)	(0)	(0)	(32)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(62)	(6)	(0)	(0)
inflammation:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	29	20	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(58)	(40)	(0)	(0)
respiratory metaplasia:gland		15	0	0	0	12	0	0	0	17	0	0	0	27	10	1	0 **
		(30)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(54)	(20)	(2)	(0)
squamous cell metaplasia:respiratory epithelium		0	0	0	0	1	0	0	0	0	1	0	0	35	3	0	0 **
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(70)	(6)	(0)	(0)
ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit																	
	hyperplasia:transitional epithelium	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	41	1	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(82)	(2)	(0)	(0)
	atrophy:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	28	2	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(56)	(4)	(0)	(0)
	edema:lamina propria	0	0	0	0	0	0	0	0	0	0	0	0	17	9	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(34)	(18)	(0)	(0)
	adhesion:turbinate	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	proliferation:striated muscle	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0 *
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(6)	(0)	(0)
larynx																	
	inflammation	<50>				<50>				<50>				<50>			
		4	0	0	0	2	0	0	0	5	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung																	
	hemorrhage	<50>				<50>				<50>				<50>			
		0	3	0	0	0	2	0	0	2	0	0	0	1	0	0	0
		(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study				Control				0.1ppm				0.5ppm				2ppm			
		Grade				Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																					
lung																					
		<50>				<50>				<50>				<50>							
	edema	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	osseous metaplasia	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells	3	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	3	1	1	0	4	2	1	0	8	1	0	0	5	0	0	0	0	0	0	0
		(6)	(2)	(2)	(0)	(8)	(4)	(2)	(0)	(16)	(2)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Hematopoietic system]																					
bone marrow																					
		<50>				<50>				<50>				<50>							
	granulation	3	0	0	0	4	0	0	0	6	0	2	0	2	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(4)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased	1	0	0	0	4	0	0	0	4	0	0	0	6	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(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. : 0816
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
bone marrow	granulopoiesis:increased	<50>				<50>				<50>				<50>			
		1	0	0	0	1	0	0	0	4	0	0	0	4	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
lymph node	granulation	<50>				<50>				<50>				<50>			
		0	1	0	0	2	0	0	0	3	0	0	0	1	1	0	0
		(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
lymphadenitis		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)
spleen	deposit of hemosiderin	<50>				<50>				<50>				<50>			
		3	1	0	0	5	2	0	0	3	1	0	0	1	0	0	0
	(6)	(2)	(0)	(0)	(10)	(4)	(0)	(0)	(6)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	
	fibrosis:focal		0	2	0	0	0	1	0	0	1	0	0	0	2	1	0
(0)			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
extramedullary hematopoiesis		15	3	0	0	12	4	1	0	17	2	3	0	13	2	1	0
		(30)	(6)	(0)	(0)	(24)	(8)	(2)	(0)	(34)	(4)	(6)	(0)	(26)	(4)	(2)	(0)
{Circulatory system}																	
heart	mineralization	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0816
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																	
heart	myocardial fibrosis	25 (50)	1 (2)	0 (0)	0 (0)	26 (52)	0 (0)	0 (0)	0 (0)	33 (66)	1 (2)	0 (0)	0 (0)	23 (46)	0 (0)	0 (0)	0 (0)
{Digestive system}																	
tongue	mineralization	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)
stomach	mineralization	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)
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	erosion:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:forestomach	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
stomach		<50>				<50>				<50>				<50>			
	hyperplasia:forestomach	4	0	0	0	1	0	0	0	2	0	0	0	1	1	0	0
		(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	erosion:glandular stomach	4	0	0	0	4	0	0	0	2	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:glandular stomach	2	1	0	0	0	0	0	0	3	0	0	0	2	0	0	0
		(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:glandular stomach	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
small intes		<50>				<50>				<50>				<50>			
	inflammation	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver		<50>				<50>				<50>				<50>			
	herniation	5	0	0	0	5	0	0	0	5	0	0	0	8	0	0	0
		(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	necrosis:central	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver																	
necrosis:peripheral		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
necrosis:focal		1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymphocytic infiltration		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
granulation		6	0	0	0	6	1	0	0	5	0	0	0	1	0	0	0
		(12)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(10)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
inflammatory cell nest		4	0	0	0	3	3	0	0	2	1	1	0	7	0	0	0
		(8)	(0)	(0)	(0)	(6)	(6)	(0)	(0)	(4)	(2)	(2)	(0)	(14)	(0)	(0)	(0)
extramedullary hematopoiesis		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver																	
	clear cell focus	<50>				<50>				<50>				<50>			
		3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus	30	4	3	0	18	4	1	0 *	20	3	2	0	16	0	0	0 **
		(60)	(8)	(6)	(0)	(36)	(8)	(2)	(0)	(40)	(6)	(4)	(0)	(32)	(0)	(0)	(0)
	basophilic cell focus	6	1	0	0	4	0	0	0	5	0	0	0	6	0	0	0
		(12)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	spongiosis hepatitis	2	0	0	0	1	0	0	0	2	1	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	bile duct hyperplasia	39	2	0	0	41	0	1	0	42	1	0	0	42	0	0	0
		(78)	(4)	(0)	(0)	(82)	(0)	(2)	(0)	(84)	(2)	(0)	(0)	(84)	(0)	(0)	(0)
	focal fatty change	2	0	0	0	2	0	0	0	2	0	0	0	6	0	0	0
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	vacuolic change:peripheral	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
bile duct																	
	dilatation	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0816
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
pancreas																	
	atrophy	<50>				<50>				<50>				<50>			
		4	1	0	0	5	1	1	0	3	0	0	0	3	0	0	0
		(8)	(2)	(0)	(0)	(10)	(2)	(2)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	islet cell hyperplasia	1	2	0	0	2	0	0	0	1	1	0	0	3	0	0	0
		(2)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)
	hyperplasia:acinar cell	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)
{Urinary system}																	
kidney																	
	hyperplasia:tubular epithelial cell	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	basophilic change	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)
	deposit of hemosiderin	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	chronic nephropathy	15 (30)	19 (38)	11 (22)	2 (4)	13 (26)	21 (42)	16 (32)	0 (0)	12 (24)	18 (36)	16 (32)	2 (4)	27 (54)	14 (28)	3 (6)	0 * (0)
	papillary necrosis	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)
urin bladd	dilatation	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)
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	papillary and/or nodular hyperplasia	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)	1 (2)	0 (0)	0 (0)
[Endocrine system]																	
pituitary	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)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control				0.1ppm				0.5ppm				2ppm			
			50				50				50				50			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
pituitary																		
	angiectasis		<50>				<50>				<49>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		3	0	0	0	6	0	0	0	3	0	0	0	2	1	0	0
			(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	hyperplasia		7	3	1	0	7	2	2	0	9	4	0	0	8	2	1	0
			(14)	(6)	(2)	(0)	(14)	(4)	(4)	(0)	(18)	(8)	(0)	(0)	(16)	(4)	(2)	(0)
	Rathke pouch		5	0	0	0	2	0	0	0	5	0	0	0	3	0	0	0
			(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
thyroid																		
	cyst		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	C-cell hyperplasia		9	1	1	0	7	5	4	0	8	1	1	0	7	2	0	0
			(18)	(2)	(2)	(0)	(14)	(10)	(8)	(0)	(16)	(2)	(2)	(0)	(14)	(4)	(0)	(0)
adrenal																		
	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control				0.1ppm				0.5ppm				2ppm			
			50				50				50				50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Endocrine system]																		
adrenal			<50>				<50>				<50>				<50>			
	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)
	hyperplasia:medulla		2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	1 (2)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	focal fatty change:cortex		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	cortical vacuolation:diffuse		0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:corticomedullary junction		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)
[Reproductive system]																		
testis			<50>				<50>				<50>				<50>			
	atrophy		38 (76)	1 (2)	0 (0)	0 (0)	45 (90)	0 (0)	0 (0)	0 (0)	39 (78)	0 (0)	0 (0)	0 (0)	46 (92)	0 (0)	0 (0)	0 (0)
	interstitial cell hyperplasia		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																	
epididymis	inflammation	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
prostate	inflammation	<50>				<50>				<50>				<50>			
		11	1	0	0	15	1	0	0	12	0	0	0	14	1	0	0
		(22)	(2)	(0)	(0)	(30)	(2)	(0)	(0)	(24)	(0)	(0)	(0)	(28)	(2)	(0)	(0)
	hyperplasia	15	2	1	0	12	2	3	0	6	3	0	0	11	3	0	0
		(30)	(4)	(2)	(0)	(24)	(4)	(6)	(0)	(12)	(6)	(0)	(0)	(22)	(6)	(0)	(0)
mammary gl	cyst	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	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)
	galactocoele	4	0	0	0	3	0	0	0	5	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																	
brain	hemorrhage	<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)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																	
brain	gliosis	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																	
eye	cataract	<50>				<50>				<50>				<50>			
		2	0	0	0	0	4	0	0 *	4	1	0	0	3	1	0	0
		(4)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(8)	(2)	(0)	(0)	(6)	(2)	(0)	(0)
	retinal atrophy	0	1	1	0	1	0	4	0	1	1	3	0	1	1	2	0
		(0)	(2)	(2)	(0)	(2)	(0)	(8)	(0)	(2)	(2)	(6)	(0)	(2)	(2)	(4)	(0)
	keratitis	0	0	0	0	1	1	0	0	2	1	0	0	0	1	1	0
		(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(2)	(2)	(0)
Harder gl	degeneration	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																	
Harder gl	granulation	<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
nasolacr d	inflammation	<50>				<50>				<50>				<50>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																	
muscle	mineralization	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																	
pleura	inflammatory infiltration	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
peritoneum	inflammatory infiltration	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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 02

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																	
skin/app	scab	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)
{Respiratory system}																	
nasal cavit	exudate	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	thrombus	2	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0
		(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	mineralization	7	0	0	0	9	0	0	0	8	0	0	0	5	0	0	0
		(14)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	goblet cell hyperplasia	5	0	0	0	11	0	0	0	1	0	0	0	18	0	0	0 **
		(10)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(36)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium	4	20	24	0	3	18	29	0	4	21	24	0	3	15	29	0
		(8)	(40)	(48)	(0)	(6)	(36)	(58)	(0)	(8)	(42)	(48)	(0)	(6)	(30)	(58)	(0)
	eosinophilic change:respiratory epithelium	10	0	0	0	2	0	0	0 *	1	0	0	0 *	0	0	0	0 **
		(20)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit																	
	inflammation:foreign body	2	0	0	0	1	0	0	0	2	0	0	0	14	6	0	0 **
		(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(28)	(12)	(0)	(0)
	inflammation:respiratory epithelium	5	0	0	0	8	0	0	0	8	0	0	0	13	3	0	0 *
		(10)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(26)	(6)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	1	0	0	0	0	0	0	0	0	0	0	0	31	7	0	0 **
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(62)	(14)	(0)	(0)
	respiratory metaplasia:gland	38	0	0	0	31	2	0	0	32	1	0	0	23	12	1	0 **
		(76)	(0)	(0)	(0)	(62)	(4)	(0)	(0)	(64)	(2)	(0)	(0)	(46)	(24)	(2)	(0)
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	0	0	0	0	1	0	0	0	39	7	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(78)	(14)	(0)	(0)
	ulcer:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:transitional epithelium	0	0	0	0	1	0	0	0	0	0	0	0	28	0	0	0 **
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(56)	(0)	(0)	(0)
	atrophy:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	26	5	1	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(52)	(10)	(2)	(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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Respiratory system]																		
nasal cavit	edema:lamina propria	<50>				<50>				<50>				<50>				
		0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(0)
	adhesion:turbinate	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)
	proliferation:striated muscle	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(2)	(2)	(0)	(0)
nasopharynx	goblet cell hyperplasia	<50>				<50>				<50>				<50>				
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx	inflammation	<50>				<50>				<50>				<50>				
		1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung	congestion	<50>				<50>				<50>				<50>				
		0	1	0	0	1	0	0	0	3	0	0	0	0	1	0	0	0
		(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hemorrhage	0	2	0	0	0	2	0	0	0	0	0	0	0	7	0	0	0
		(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name No. of Animals on Study		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung	edema	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	2 (4)	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)
	osseous metaplasia	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells	4 (8)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia	2 (4)	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)
[Hematopoietic system]																	
bone marrow	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	granulation	10 (20)	2 (4)	0 (0)	0 (0)	10 (20)	3 (6)	0 (0)	0 (0)	8 (16)	1 (2)	1 (2)	0 (0)	9 (18)	1 (2)	1 (2)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
bone marrow	erythropoiesis:increased	<50>				<50>				<50>				<50>			
		0	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	0	0	0	0	2	0	0	0	1	1	0	0	3	1	0	0	
	granulopoiesis:increased	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(6)	(2)	(0)	(0)
lymph node	hemorrhage	<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)	
	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	
	granulation	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
spleen	deposit of hemosiderin	<50>				<50>				<50>				<50>			
		28	10	0	0	29	7	0	0	23	13	0	0	29	11	0	0
	(56)	(20)	(0)	(0)	(58)	(14)	(0)	(0)	(46)	(26)	(0)	(0)	(58)	(22)	(0)	(0)	
	33	4	0	0	32	9	0	0	32	6	3	0	25	4	3	0	
	extramedullary hematopoiesis	(66)	(8)	(0)	(0)	(64)	(18)	(0)	(0)	(64)	(12)	(6)	(0)	(50)	(8)	(6)	(0)
{Circulatory system}																	
heart	dilatation	<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)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																	
heart	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	myocardial fibrosis	15 (30)	1 (2)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)
{Digestive system}																	
tongue	inflammatory infiltration	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)
stomach	basal cell hyperplasia	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:forestomach	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	hyperplasia:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
stomach																	
erosion:glandular stomach		1	0	0	0	1	1	0	0	3	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
ulcer:glandular stomach		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
hyperplasia:glandular stomach		1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
neuroendocrine cell hyperplasia:focal		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
liver																	
herniation		9	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0
		(18)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
necrosis:central		1	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
necrosis:focal		0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(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)

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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
		50				50				50				50				
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Digestive system}																		
liver																		
		<50>				<50>				<50>				<50>				
	cyst	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	inflammatory infiltration	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)	
	lymphocytic infiltration	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)	
	granulation	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)
	inflammatory cell nest	15 (30)	3 (6)	0 (0)	0 (0)	13 (26)	5 (10)	2 (4)	0 (0)	12 (24)	2 (4)	0 (0)	0 (0)	0 (0)	7 (14)	5 (10)	1 (2)	0 (0)
	clear 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)	
	acidophilic cell focus	1 (2)	1 (2)	1 (2)	0 (0)	2 (4)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)
	basophilic cell focus	23 (46)	2 (4)	0 (0)	0 (0)	19 (38)	1 (2)	0 (0)	0 (0)	21 (42)	3 (6)	0 (0)	0 (0)	0 (0)	18 (36)	2 (4)	0 (0)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
[Digestive system]																	
liver																	
	bile duct hyperplasia	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	bile ductular proliferation	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)
	cholangiofibrosis	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change	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																	
	atrophy	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
[Urinary system]																	
kidney																	
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		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	31 (62)	3 (6)	0 (0)	0 (0)	29 (58)	4 (8)	2 (4)	0 (0)	20 (40)	8 (16)	2 (4)	1 (2)	15 (30)	6 (12)	2 (4)	1* (2)
	papillary necrosis	0 (0)	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)
	mineralization:cortico-medullary junction	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	mineralization:pelvis	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)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic droplet:proximal tubule	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
urin bladd																	
		<50>				<50>				<50>				<50>			
	dilatation	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)
	hemorrhage	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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
		50				50				50				50				
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Urinary system}																		
urin bladd	hyperplasia:transitional epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
{Endocrine system}																		
pituitary	cyst	17 (34)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)
	hyperplasia	11 (22)	4 (8)	0 (0)	0 (0)	5 (10)	3 (6)	2 (4)	0 (0)	8 (16)	3 (6)	1 (2)	0 (0)	0 (0)	5 (10)	2 (4)	2 (4)	0 (0)
	Rathke pouch	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
thyroid	ultimobranchial body remanet	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)	
	C-cell hyperplasia	7 (14)	2 (4)	0 (0)	0 (0)	9 (18)	1 (2)	1 (2)	0 (0)	11 (22)	1 (2)	0 (0)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																	
adrenal	necrosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>				<50>				<50>				<50>			
	degeneration:cortex	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:medulla	0	0	0	0	1	2	1	0	0	0	0	0	1	1	0	0
		(0)	(0)	(0)	(0)	(2)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	focal fatty change:cortex	10	0	0	0	6	1	0	0	6	1	0	0	10	2	0	0
		(20)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(12)	(2)	(0)	(0)	(20)	(4)	(0)	(0)
{Reproductive system}																	
ovary	cyst	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>				<50>				<50>				<50>			
uterus	dilatation	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)
		<50>				<50>				<50>				<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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																	
uterus	hemorrhage	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
uterus	cystic endometrial hyperplasia	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
mammary gl	galactocele	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Nervous system}																	
brain	hemorrhage	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
brain	necrosis:focal	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																	
eye	cataract	<50>				<50>				<50>				<50>			
		5	3	0	0	3	5	0	0	1	1	0	0	0	1	0	0 *
		(10)	(6)	(0)	(0)	(6)	(10)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Control				0.1ppm				0.5ppm				2ppm			
		50				50				50				50			
Group Name		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
No. of Animals on Study		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																	
eye		<50>				<50>				<50>				<50>			
	retinal atrophy	1 (2)	2 (4)	3 (6)	0 (0)	1 (2)	0 (0)	7 (14)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
	keratitis	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)
Harder gl		<50>				<50>				<50>				<50>			
	degeneration	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)
	inflammatory infiltration	2 (4)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	granulation	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
nasolacr d		<50>				<50>				<50>				<50>			
	inflammation	0 (0)	1 (2)	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)
{Musculoskeletal system}																	
bone		<50>				<50>				<50>				<50>			
	osteosclerosis	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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 P1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Integumentary system/appandage}						
skin/app	metastasis:subcutis tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
lung	leukemic cell infiltration		<50> 2	<50> 3	<50> 6	<50> 1
	metastasis:adrenal tumor		0	0	1	1
	metastasis:subcutis tumor		0	0	0	1
	metastasis:Zymbal gland tumor		0	2	1	0
	metastasis:vertebra tumor		0	1	0	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 1	<50> 1	<50> 5	<50> 1
lymph node	leukemic cell infiltration		<50> 1	<50> 2	<50> 5	<50> 1
	metastasis:lung tumor		0	0	1	0
	metastasis:small intestine tumor		0	0	1	0
{Circulatory system}						
heart	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<50> 0

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Digestive system}						
liver	leukemic cell infiltration		<50> 1	<50> 1	<50> 5	<50> 1
	metastasis:subcutis tumor		0	0	0	1
	metastasis:small intestine tumor		0	0	1	0
pancreas	leukemic cell infiltration		<50> 1	<50> 1	<50> 2	<50> 0
	metastasis:small intestine tumor		0	0	1	0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 0	<50> 0	<50> 3	<50> 0
{Endocrine system}						
pituitary	leukemic cell infiltration		<50> 0	<50> 0	<49> 1	<50> 0
adrenal	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
{Nervous system}						
brain	leukemic cell infiltration		<50> 0	<50> 1	<50> 3	<50> 0
	metastasis:pituitary tumor		0	1	0	0
	metastasis:nasal tumor		0	0	0	1

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Nervous system}						
spinal cord	leukemic cell infiltration		<50> 0	<50> 0	<50> 2	<50> 0
periph nerv	metastasis:Zymbal gland tumor		<50> 0	<50> 0	<50> 1	<50> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
{Body cavities}						
pleura	metastasis:bone tumor		<50> 0	<50> 1	<50> 0	<50> 0
mediastinum	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
peritoneum	metastasis:small intestine tumor		<50> 0	<50> 0	<50> 1	<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. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Respiratory system]						
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		3	6	3	3
	metastasis:uterus tumor		2	0	0	0
	metastasis:thyroid tumor		0	0	2	0
	metastasis:peritoneum tumor		0	0	1	1
	metastasis:muscle tumor		0	0	0	1
[Hematopoietic system]						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	6	3	2
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	3	1	1
	metastasis:uterus tumor		1	0	0	0
	metastasis:peritoneum tumor		0	0	0	1
	metastasis:muscle tumor		0	0	0	1
spleen			<50>	<50>	<50>	<50>
	metastasis:peritoneum tumor		0	0	0	1
[Digestive system]						
salivary gl			<50>	<50>	<50>	<50>
	metastasis:muscle tumor		0	0	0	1
small intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
[Digestive system]						
large intes	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
	leukemic cell infiltration		<50> 5	<50> 6	<50> 3	<50> 2
liver	metastasis:uterus tumor		0	0	0	1
	metastasis:peritoneum tumor		0	0	0	1
pancreas	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
	metastasis:uterus tumor		1	0	0	0
	metastasis:peritoneum tumor		0	0	0	1
[Urinary system]						
kidney	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 1
	metastasis:uterus tumor		1	0	0	0
[Endocrine system]						
pituitary	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 1
[Reproductive system]						
ovary	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0

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

STUDY NO. : 0816
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	0.1ppm 50	0.5ppm 50	2ppm 50
{Reproductive system}						
ovary	metastasis:uterus tumor		<50> 1	<50> 0	<50> 0	<50> 0
uterus	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
{Nervous system}						
brain	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<50> 2
	metastasis:pituitary tumor		0	2	1	0
spinal cord	leukemic cell infiltration		<50> 1	<50> 1	<50> 2	<50> 0
{Special sense organs/appendage}						
Harder gl	metastasis:muscle tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Body cavities}						
pleura	metastasis:peritoneum tumor		<50> 0	<50> 0	<50> 1	<50> 0
peritoneum	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:uterus tumor		1	0	0	0

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

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : MALE

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

PAGE : 1

Group Name	Control	0.1ppm	0.5ppm	2ppm
Number of Dead and Moribund Animal	9	10	13	8
hepatic lesion	0	1	0	0
tumor d:leukemia	1	2	5	1
tumor d:subcutis	1	0	0	1
tumor d:nasal cavit	0	0	0	1
tumor d:small intes	0	0	1	0
tumor d:pancreas	0	0	1	1
tumor d:kidney	0	0	1	0
tumor d:pituitary	5	4	3	1
tumor d:thyroid	0	0	1	0
tumor d:adrenal	1	0	0	0
tumor d:prostate	1	0	0	0
tumor d:prep/oli gl	0	1	0	0
tumor d:Zymbal gl	0	1	1	1
tumor d:bone	0	1	0	1
tumor d:peritoneum	0	0	0	1

(B10120)

BA1S5

TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0816
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : FEMALE

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

Group Name	Control	0.1ppm	0.5ppm	2ppm
Number of Dead and Moribund Animal	7	8	9	16
no microscop confirm	1	0	1	0
respiratory sy les	0	0	1	0
deglutition disorder	0	1	0	0
tumor d:leukemia	2	4	2	3
tumor d:nasal cavit	0	0	0	1
tumor d:urin bladd	0	0	1	0
tumor d:pituitary	3	1	1	6
tumor d:adrenal	0	0	1	1
tumor d:uterus	1	1	1	0
tumor d:mammary gl	0	1	0	1
tumor d:brain	0	0	0	2
tumor d:muscle	0	0	0	1
tumor d:peritoneum	0	0	1	1

(B10120)