

アクリル酸メチル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：0831

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TABLE A

CONCENTRATIONS OF METHYL ACRYLATE
IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF METHYL ACRYLATE IN THE INHALATION
CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.0 \pm 0.0
10 ppm	10.0 \pm 0.1
40 ppm	40.1 \pm 0.2
160 ppm	160.1 \pm 0.3

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[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	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
10ppm	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
40ppm	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
160ppm	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. : 0831

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

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	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
10ppm	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
40ppm	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
160ppm	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. : 0831

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

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group	Name	Animals At start	Administration (Weeks)													
			28	29	30	31	32	33	34	35	36	37	38	39	40	41
	Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	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
	10ppm	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
	40ppm	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	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
	160ppm	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. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group	Name	Animals At start	Administration (Weeks)													
			42	43	44	45	46	47	48	49	50	51	52	53	54	55
	Control	50	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
	10ppm	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	49/50	49/50
			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	98.0
	40ppm	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	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
	160ppm	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. : 0831

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

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	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
10ppm	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	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
40ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50
		96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0
160ppm	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	48/50	48/50
		100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	50/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50
		100.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0
10ppm	50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
40ppm	50	46/50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	43/50
		92.0	92.0	92.0	92.0	92.0	92.0	90.0	90.0	88.0	88.0	88.0	88.0	88.0	86.0
160ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
Number of survival/ Number of effective animals															
Survival rate(%)															

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 7

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50	47/50	46/50	45/50	45/50	45/50	45/50	45/50	45/50	44/50	44/50	43/50	42/50	40/50
		94.0	94.0	92.0	90.0	90.0	90.0	90.0	90.0	90.0	88.0	88.0	86.0	84.0	80.0
10ppm	50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0
40ppm	50	43/50	43/50	43/50	43/50	43/50	41/50	41/50	41/50	40/50	40/50	40/50	40/50	39/50	38/50
		86.0	86.0	86.0	86.0	86.0	82.0	82.0	82.0	80.0	80.0	80.0	80.0	78.0	76.0
160ppm	50	47/50	47/50	47/50	47/50	45/50	44/50	44/50	44/50	44/50	44/50	43/50	43/50	43/50	43/50
		94.0	94.0	94.0	94.0	90.0	88.0	88.0	88.0	88.0	88.0	86.0	86.0	86.0	86.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	40/50	40/50	40/50	40/50	39/50	38/50	38/50
		80.0	80.0	80.0	80.0	78.0	76.0	76.0
10ppm	50	46/50	44/50	44/50	43/50	43/50	42/50	42/50
		92.0	88.0	88.0	86.0	86.0	84.0	84.0
40ppm	50	38/50	38/50	38/50	37/50	37/50	35/50	35/50
		76.0	76.0	76.0	74.0	74.0	70.0	70.0
160ppm	50	43/50	42/50	42/50	41/50	41/50	39/50	39/50
		86.0	84.0	84.0	82.0	82.0	78.0	78.0
Number of survival/ Number of effective animals								
Survival rate(%)								

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0831

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

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 9

Group	Name	Animals At start	Administration (Weeks)													
			0	1	2	3	4	5	6	7	8	9	10	11	12	13
	Control	50	50/50	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
	10ppm	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
	40ppm	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
	160ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals																
Survival rate(%)																

(HAN360)

BA1S5

STUDY NO. : 0831

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

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group	Name	Animals At start	Administration (Weeks)													
			14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	10ppm	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
	40ppm	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
	160ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals																
Survival rate(%)																

(HAN360)

BA1S5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group	Name	Animals At start	Administration (Weeks)													
			28	29	30	31	32	33	34	35	36	37	38	39	40	41
	Control	50	50/50	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
	10ppm	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
	40ppm	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
	160ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/			Number of effective animals													
Survival rate(%)																

(HAN360)

BA1S5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1J[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
	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
			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
	10ppm	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
	40ppm	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
	160ppm	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
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BA1S5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group	Name	Animals At start	Administration (Weeks)													
			56	57	58	59	60	61	62	63	64	65	66	67	68	69
	Control	50	50/50	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
	10ppm	50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
			100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	40ppm	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
	160ppm	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	49/50	49/50
			98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Number of survival/ Number of effective animals																
Survival rate(%)																

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	50/50	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
		100.0	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
10ppm	50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50
		98.0	98.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0
40ppm	50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	47/50	47/50
		100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	94.0	94.0
160ppm	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	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Number of survival/ Number of effective animals															
Survival rate(%)															

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 15

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	49/50	48/50	47/50	45/50	45/50	45/50	44/50	43/50	43/50	42/50	42/50	42/50	42/50	42/50
		98.0	96.0	94.0	90.0	90.0	90.0	88.0	86.0	86.0	84.0	84.0	84.0	84.0	84.0
10ppm	50	46/50	46/50	46/50	45/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	43/50	43/50	42/50
		92.0	92.0	92.0	90.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	86.0	86.0	84.0
40ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0
160ppm	50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	46/50
		98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	92.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BA1S5

STUDY NO. : 0831

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

REPORT TYPE : A1 104

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	42/50	42/50	42/50	40/50	40/50	40/50	40/50
		84.0	84.0	84.0	80.0	80.0	80.0	80.0
10ppm	50	41/50	41/50	41/50	40/50	40/50	39/50	39/50
		82.0	82.0	82.0	80.0	80.0	78.0	78.0
40ppm	50	44/50	44/50	44/50	44/50	44/50	43/50	43/50
		88.0	88.0	88.0	88.0	88.0	86.0	86.0
160ppm	50	45/50	45/50	45/50	44/50	42/50	41/50	41/50
		90.0	90.0	90.0	88.0	84.0	82.0	82.0
Number of survival/ Number of effective animals								
Survival rate(%)								

(HAN360)

BAIS5

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 3

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	40ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	160ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40ppm	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	160ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	10ppm	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	40ppm	3	3	3	3	3	4	4	4	4	4	4	4	5	5
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	160ppm	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
	10ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	160ppm	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
	10ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	3	3	3	3	3	3	3	4	4	5	5	5	5
	10ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	40ppm	2	2	2	2	3	3	3	4	4	4	4	4	5	5
	160ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	1	1	2	2	2	2	2	2	2	2	2	3	5	5
	10ppm	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	40ppm	5	5	5	5	6	6	6	6	6	6	6	7	7	7
	160ppm	1	1	1	3	3	3	3	3	3	4	4	4	4	4
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	10ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	1	1	1	1	1	0	0	2	1	1	0	0	0	0
	10ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	2
	40ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign.	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
DEATH	Control	5	5	5	5	5	5
	10ppm	2	2	2	2	2	2
	40ppm	5	5	5	5	5	5
	160ppm	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	5	5	5	6	7	7
	10ppm	4	4	5	5	6	6
	40ppm	7	7	8	8	10	10
	160ppm	5	5	6	6	8	8
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	1	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	10ppm	2	2	1	1	1	1
	40ppm	1	1	1	1	0	0
	160ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0
	10ppm	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	1
	10ppm	1	1	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	40ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	1	1	1	2	2	2	2	3	3	3	3	3	3	3
	40ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	160ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	10ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	1	1	1	1	2	2	2	3	3	3	3	3
	10ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	40ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	160ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	3	3	3	3	3	3	3	3	2	3	3	3	4
	10ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	4	4	4	4	4	4	4	4	4
	10ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	40ppm	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	160ppm	3	4	4	5	5	5	4	4	4	4	4	4	4	4
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	4	4	4	3	3	3	3	3	4	5	5	4	4
	10ppm	1	1	1	2	2	2	1	2	2	3	5	5	6	6
	40ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	3
	160ppm	2	2	2	2	2	2	3	3	3	3	3	3	3	3
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	4	4	5	5	5	5	5	5	4	4	4	4	4	4
	10ppm	3	3	3	3	3	3	3	3	3	3	4	4	4	4
	40ppm	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	160ppm	4	4	4	3	4	4	4	4	4	4	4	4	4	4
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	1	0	0	0	0	1	1	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	4	5	6	6	6	6	6	6	5	5	5	4	4	5
	10ppm	7	7	7	7	7	7	7	8	8	8	6	6	7	8
	40ppm	3	3	3	3	2	2	2	1	1	1	1	1	1	2
	160ppm	4	4	5	3	2	1	1	1	1	1	2	2	2	3
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	2	0	0	0	0	0	0	0	0	0	0	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0
CATARACT	Control	4	4	4	4	4	4
	10ppm	3	3	2	2	2	2
	40ppm	4	4	3	3	3	3
	160ppm	4	4	4	4	4	4
CORNEAL OPACITY	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0
	10ppm	0	0	0	1	0	0
	40ppm	0	0	0	0	0	1
	160ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	5	5	5	4	5	6
	10ppm	6	6	8	8	8	9
	40ppm	3	3	3	3	3	3
	160ppm	2	2	2	2	1	2
M. NOSE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	1	1	0	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	2	2	2	2	2	2	2	2	1	1	1	1	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	2	2	2	2	2	2	2	2	2	3	3	2	2
	10ppm	0	0	0	1	1	1	0	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	2	2	2	2	2	2	2	2	1	1	1	0	0	0
	10ppm	1	1	1	1	2	2	2	3	3	3	1	1	2	4
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	2	2	2	2	2	3	3	4	4	4	4	4	4	4
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	160ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	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
	10ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrI j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. EAR	Control	2	2	2	1	1	1
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	1	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	1
	10ppm	0	0	1	1	1	2
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	1
	10ppm	3	3	3	3	2	2
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	1	1	1	1	1	1
	10ppm	4	4	4	4	3	3
	40ppm	2	2	2	2	2	2
	160ppm	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	1	1	1	1	2	2
	10ppm	0	0	1	1	2	2
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 25

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	1	1	1	1	1	1	1	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	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	1	1	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	2
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	2	1	1	1	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	1	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
	10ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	10ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	1	1	2	0	0	0	1
	160ppm	0	0	1	1	0	0	0	1	2	1	1	1	4	4
JAUNDICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	1	1	1	1	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	1	1	0	0	0	1	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	0	1	1	1	1	2	1	1	0	1	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	160ppm	0	2	2	0	1	1	1	1	1	0	0	1	1	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	2	2	0	0	1	1	1	1	1	1	1	1	1

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. GENITALIA	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. SCROTUM	Control	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0
ANEMIA	Control	1	2	2	1	1	1
	10ppm	0	1	1	1	1	1
	40ppm	1	1	3	3	1	1
	160ppm	3	3	3	3	4	6
JAUNDICE	Control	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	1	1	1
	10ppm	0	0	0	1	0	0
	40ppm	0	0	0	1	0	0
	160ppm	0	1	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	1	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	10ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40ppm	50	49	49	49	49	49	49	49	49	49	49	49	49	49
	160ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	10ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	160ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	48	48	48	48	48	48	48	48
	10ppm	50	50	50	50	50	50	49	48	48	48	48	48	49	48
	40ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	160ppm	49	48	48	48	48	48	48	48	47	47	47	47	47	47

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	10ppm	48	49	49	48	48	48	48	46	46	46	46	46	46	46
	40ppm	49	49	49	49	46	46	46	46	46	46	46	46	46	46
	160ppm	47	47	47	47	47	47	47	47	47	47	47	47	47	47

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	47	46	46	46	46	45	45	45	44	43	43	43	42
	10ppm	46	45	45	45	45	45	45	45	45	45	45	45	45	44
	40ppm	46	46	46	46	46	45	45	43	43	43	42	42	42	42
	160ppm	47	46	46	46	46	45	45	44	44	44	43	42	43	43

(HAN190)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	42	42	42	42	41	41	41	41	41	40	40	40	40	40
	10ppm	44	44	44	43	43	43	44	43	43	42	40	40	39	39
	40ppm	42	42	42	42	41	41	41	40	39	39	39	38	37	36
	160ppm	43	42	42	40	41	40	40	40	40	40	40	40	39	38

(HAN190)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	40	37	35	34	34	34	34	34	34	34	34	33	32	31
	10ppm	37	37	37	37	36	36	36	35	34	34	34	34	33	33
	40ppm	37	37	37	37	36	36	36	35	34	33	34	33	33	31
	160ppm	40	39	39	39	37	38	38	37	37	37	37	37	34	34

(HAN190)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
NOISY	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	1	0	0
NON REMARKABLE	Control	31	30	30	29	27	26
	10ppm	33	33	31	31	30	29
	40ppm	31	31	29	29	29	28
	160ppm	33	33	33	33	31	26

(HAN190)

BAIS 5

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 41

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	1	1	1	1	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1	1	1	1	0	0
	10ppm	0	0	0	0	0	1	0	1	1	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIGr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 44

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	4	1	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0

STUDY NO. : 0831
 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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	10ppm	0	1	1	1	1	1	2	2	2	2	2	2	2	2
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	40ppm	0	0	0	0	1	1	1	2	2	2	2	3	3	3
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	160ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	2	3	3	3	4	4	4	4	4	4	4	4	4
	10ppm	2	2	3	3	3	3	3	3	3	3	4	4	4	5
	40ppm	0	0	0	0	0	0	1	1	1	1	2	2	2	2
	160ppm	1	1	2	2	2	2	2	2	2	3	3	3	4	4
MORIBUND SACRIFICE	Control	0	1	2	2	2	2	3	3	4	4	4	4	4	4
	10ppm	2	2	2	3	3	3	3	3	3	3	3	3	4	4
	40ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	4
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1	1	1
	10ppm	0	0	1	0	0	0	0	0	1	1	1	1	1	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	0	0	1	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
DEATH	Control	4	4	5	5	5	5
	10ppm	5	5	5	5	5	5
	40ppm	2	2	2	2	3	3
	160ppm	4	4	4	4	4	4
MORIBUND SACRIFICE	Control	4	4	5	5	5	5
	10ppm	4	4	5	5	6	6
	40ppm	4	4	4	4	4	4
	160ppm	1	1	2	4	5	5
LOCOMOTOR MOVEMENT DEGR	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	1	1	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	1	1	1	1	1
	160ppm	0	0	0	0	0	0
WASTING	Control	1	1	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	1	0	0	0
SOILED	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 49

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	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
	10ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	1	1	1	1	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	0	0	0	0	1	1	1	2	3	3	3	3	3	3
	10ppm	1	1	2	2	2	2	2	2	2	2	2	2	3	3
	40ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	160ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	4
	10ppm	3	3	3	3	3	4	4	4	4	4	5	5	5	5
	40ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	160ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	4	4	4	4	4	4	4	4	4	5	5	5	5	5
	10ppm	5	6	6	6	6	6	6	6	6	6	6	6	6	6
	40ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	160ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	1	2	2	2	2	3	3
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	2	2	2	2	2	2	2
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	0	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	10ppm	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	40ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	160ppm	2	2	2	2	2	2	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	3	3	3	3	3	4	4	4	3	5	5	5
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	10ppm	0	0	0	0	0	0	0	1	1	1	1	2	1	1
	40ppm	2	2	2	2	2	2	2	2	3	3	3	5	5	5
	160ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	3
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	160ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	5	4	4	4	4	4	4	4	3	3	3	3	3	3
	10ppm	6	6	6	6	6	6	6	6	6	6	5	5	5	4
	40ppm	3	3	3	3	3	3	3	3	3	3	3	4	4	4
	160ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	4	2	3	3	3	2	2	1	1	2	2	2	4	4
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	2	3	3
	10ppm	1	1	0	0	0	1	1	1	1	2	4	4	4	4
	40ppm	5	5	6	6	7	8	8	8	8	8	8	9	10	10
	160ppm	4	4	4	4	4	4	4	4	4	4	6	6	6	5
INTERNAL MASS	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIGr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1
	160ppm	1	1	0	0	0	0
CATARACT	Control	3	3	3	3	3	3
	10ppm	4	4	4	4	4	4
	40ppm	4	4	4	4	4	4
	160ppm	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	4	4	4	4	5	5
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
CORNEAL EDEMA	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
MALOCCLUSION	Control	0	0	0	0	0	0
	10ppm	1	1	1	1	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	3	3	4
	10ppm	4	4	4	4	3	3
	40ppm	10	10	10	10	10	10
	160ppm	6	6	5	5	4	4
INTERNAL MASS	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0

STUDY NO. : 0831
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULGER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 58

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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	160ppm	0	0	0	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
	10ppm	0	0	0	0	0	0	0	1	1	1	1	2	1	1
	40ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	160ppm	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
	10ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
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													
		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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	10ppm	0	0	0	0	0	0	0	1	1	2	3	3	3	3
	40ppm	2	2	3	3	4	4	4	4	4	4	4	5	6	6
	160ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	160ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	160ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ANEMIA	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	1	0	0	0	0	0	1	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	1	1	0	0	0	0	0	1	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. PERI EAR	Control	0	0	0	0	0	0
	10ppm	1	1	1	1	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1
M. BREAST	Control	2	2	2	2	2	2
	10ppm	3	3	3	3	2	2
	40ppm	6	6	6	6	6	6
	160ppm	3	3	2	2	1	1
M. ABDOMEN	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	3	3	3	3	3	3
	160ppm	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	10ppm	1	1	1	1	1	1
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	2
	10ppm	0	0	0	0	0	0
	40ppm	2	2	2	2	2	2
	160ppm	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	1	0
	40ppm	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	1	1	1	1	1	1
	160ppm	0	0	0	0	0	0

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 65

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
		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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	10ppm	50	50	50	50	50	50	50	50	50	50	49	49	49	49
	40ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160ppm	50	50	50	50	50	50	50	50	50	50	50	49	49	49

(HAN190)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 66

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
		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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	49	49	49
	10ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	40ppm	50	50	50	50	50	50	50	50	49	49	49	49	50	50
	160ppm	49	49	49	49	49	49	49	49	49	49	49	48	48	48

(HAN190)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 67

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
		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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	48	48	48	46	45	45	45	45	46	46
	10ppm	49	49	48	48	48	47	48	47	47	48	48	48	47	47
	40ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49
	160ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48

(HAN190)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	46	42	45	46	46	46	46	46	46	46	46
	10ppm	47	47	47	47	47	46	46	46	46	46	45	45	45	45
	40ppm	49	49	49	49	49	49	49	49	48	48	48	48	48	48
	160ppm	48	48	48	48	48	48	48	47	47	47	47	47	47	47

(HAN190)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
NON REMARKABLE	Control	46	46	46	46	46	45	45	44	44	43	43	43	42	42
	10ppm	45	44	43	43	43	43	43	43	43	43	43	42	43	43
	40ppm	48	48	48	48	48	48	48	45	45	45	45	45	44	45
	160ppm	47	47	47	47	47	47	47	47	47	47	47	47	46	47

(HAN190)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NON REMARKABLE	Control	42	42	42	42	42	41	41	41	41	41	41	39	39	39
	10ppm	43	42	42	42	42	42	41	39	40	40	40	39	39	39
	40ppm	45	45	45	44	44	44	43	43	42	42	42	40	40	40
	160ppm	47	47	43	42	42	42	41	40	40	40	41	40	39	37

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	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
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	1	1	0	0	0	0	0	1	0	0	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	0	1	0	0	0	0	0	0	0	0	0	1	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160ppm	1	0	0	0	0	0	0	0	0	0	1	1	1	3
NON REMARKABLE	Control	39	39	38	38	38	36	35	35	35	35	33	34	34	34
	10ppm	39	39	38	38	38	37	37	36	36	36	34	34	33	33
	40ppm	40	40	39	39	38	37	36	36	36	36	35	34	33	32
	160ppm	36	39	37	37	37	38	38	40	40	38	35	34	32	31

(HAN190)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
CRUSTA	Control	2	2	2	2	2	2
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	1	1	1	0	0	0
IRREGULAR BREATHING	Control	1	1	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0
	160ppm	3	3	0	0	0	0
NON REMARKABLE	Control	34	34	33	33	33	32
	10ppm	33	33	32	32	32	32
	40ppm	32	31	31	31	30	30
	160ppm	29	29	31	30	29	29

(HAN190)

BAIS5

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		10ppm			40ppm			160ppm		
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	125 (50)	50/50	125 (50)	100	50/50	125 (50)	100	50/50	125 (50)	100	50/50
1-7	155 (50)	50/50	154 (50)	99	50/50	154 (50)	99	50/50	141 (50)	91	50/50
2-7	187 (50)	50/50	188 (50)	101	50/50	186 (50)	99	50/50	168 (50)	90	50/50
3-7	213 (50)	50/50	213 (50)	100	50/50	211 (50)	99	50/50	186 (50)	87	50/50
4-7	234 (50)	50/50	235 (50)	100	50/50	233 (50)	100	50/50	205 (50)	88	50/50
5-7	250 (50)	50/50	251 (50)	100	50/50	250 (50)	100	50/50	219 (50)	88	50/50
6-7	264 (50)	50/50	266 (50)	101	50/50	265 (50)	100	50/50	232 (50)	88	50/50
7-7	278 (50)	50/50	280 (50)	101	50/50	279 (50)	100	50/50	242 (50)	87	50/50
8-7	291 (50)	50/50	294 (50)	101	50/50	293 (50)	101	50/50	253 (50)	87	50/50
9-7	302 (50)	50/50	305 (50)	101	50/50	303 (50)	100	50/50	261 (50)	86	50/50
10-7	312 (50)	50/50	314 (50)	101	50/50	312 (50)	100	50/50	267 (50)	86	50/50
11-7	314 (50)	50/50	320 (50)	102	50/50	315 (50)	100	50/50	269 (50)	86	50/50
12-7	327 (50)	50/50	329 (50)	101	50/50	326 (50)	100	50/50	277 (50)	85	50/50
13-7	333 (50)	50/50	335 (50)	101	50/50	333 (50)	100	50/50	283 (50)	85	50/50
14-7	339 (50)	50/50	341 (50)	101	50/50	338 (50)	100	50/50	288 (50)	85	50/50
18-7	356 (50)	50/50	359 (50)	101	50/50	355 (50)	100	50/50	300 (50)	84	50/50
22-7	372 (50)	50/50	373 (50)	100	50/50	371 (50)	100	50/50	312 (50)	84	50/50
26-7	385 (50)	50/50	385 (50)	100	50/50	383 (50)	99	50/50	322 (50)	84	50/50
30-7	397 (50)	50/50	397 (50)	100	50/50	394 (50)	99	50/50	332 (50)	84	50/50
34-7	408 (50)	50/50	408 (50)	100	50/50	404 (50)	99	50/50	341 (50)	84	50/50
38-7	417 (50)	50/50	418 (50)	100	50/50	414 (49)	99	49/50	347 (50)	83	50/50
42-7	423 (50)	50/50	422 (50)	100	50/50	421 (49)	100	49/50	350 (50)	83	50/50
46-7	429 (50)	50/50	428 (50)	100	50/50	425 (49)	99	49/50	355 (50)	83	50/50
50-7	435 (50)	50/50	434 (49)	100	49/50	429 (48)	99	48/50	359 (50)	83	50/50
54-7	437 (50)	50/50	438 (49)	100	49/50	433 (48)	99	48/50	361 (50)	83	50/50
58-7	438 (50)	50/50	440 (49)	100	49/50	434 (48)	99	48/50	364 (49)	83	49/50
62-7	443 (50)	50/50	443 (49)	100	49/50	438 (47)	99	47/50	366 (49)	83	49/50
66-7	446 (50)	50/50	445 (49)	100	49/50	441 (47)	99	47/50	372 (49)	83	49/50
70-7	455 (50)	50/50	447 (49)	98	49/50	444 (46)	98	46/50	374 (48)	82	48/50
74-7	448 (49)	49/50	449 (48)	100	48/50	443 (46)	99	46/50	374 (48)	83	48/50
78-7	447 (48)	48/50	449 (48)	100	48/50	443 (44)	99	44/50	375 (47)	84	47/50
82-7	446 (48)	48/50	447 (48)	100	48/50	437 (44)	98	44/50	375 (47)	84	47/50
86-7	443 (46)	46/50	445 (48)	100	48/50	441 (43)	100	43/50	373 (47)	84	47/50
90-7	439 (45)	45/50	439 (47)	100	47/50	436 (41)	99	41/50	371 (44)	85	44/50
94-7	429 (44)	44/50	433 (46)	101	46/50	428 (40)	100	40/50	368 (43)	86	43/50
98-7	429 (40)	40/50	426 (46)	99	46/50	422 (38)	98	38/50	360 (43)	84	43/50
102-7	422 (39)	39/50	417 (43)	99	43/50	410 (37)	97	37/50	358 (41)	85	41/50
104-7	418 (38)	38/50	412 (42)	99	42/50	412 (35)	99	35/50	354 (39)	85	39/50
< >:No. of effective animals, ():No. of measured animals											
Av. Wt.: g											

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

Av. Wt. : g

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		10ppm		40ppm		160ppm				
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	98 (50)	50/50	98 (50)	100	50/50	98 (50)	100	50/50	98 (50)	100	50/50
1-7	112 (50)	50/50	112 (50)	100	50/50	112 (50)	100	50/50	105 (50)	94	50/50
2-7	125 (50)	50/50	126 (50)	101	50/50	126 (50)	101	50/50	116 (50)	93	50/50
3-7	136 (50)	50/50	135 (50)	99	50/50	135 (50)	99	50/50	123 (50)	90	50/50
4-7	144 (50)	50/50	144 (50)	100	50/50	144 (50)	100	50/50	131 (50)	91	50/50
5-7	151 (50)	50/50	150 (50)	99	50/50	150 (50)	99	50/50	137 (50)	91	50/50
6-7	156 (50)	50/50	156 (50)	100	50/50	155 (50)	99	50/50	141 (50)	90	50/50
7-7	160 (50)	50/50	161 (50)	101	50/50	160 (50)	100	50/50	146 (50)	91	50/50
8-7	164 (50)	50/50	165 (50)	101	50/50	163 (50)	99	50/50	150 (50)	91	50/50
9-7	169 (50)	50/50	170 (50)	101	50/50	168 (50)	99	50/50	153 (50)	91	50/50
10-7	173 (50)	50/50	174 (50)	101	50/50	172 (50)	99	50/50	157 (50)	91	50/50
11-7	172 (50)	50/50	175 (50)	102	50/50	172 (50)	100	50/50	158 (50)	92	50/50
12-7	179 (50)	50/50	181 (50)	101	50/50	179 (50)	100	50/50	162 (50)	91	50/50
13-7	181 (50)	50/50	184 (50)	102	50/50	181 (50)	100	50/50	167 (50)	92	50/50
14-7	183 (50)	50/50	185 (50)	101	50/50	183 (50)	100	50/50	168 (50)	92	50/50
18-7	189 (50)	50/50	192 (50)	102	50/50	189 (50)	100	50/50	173 (50)	92	50/50
22-7	193 (50)	50/50	196 (50)	102	50/50	193 (50)	100	50/50	177 (50)	92	50/50
26-7	196 (50)	50/50	199 (50)	102	50/50	197 (50)	101	50/50	182 (50)	93	50/50
30-7	202 (50)	50/50	203 (50)	100	50/50	201 (50)	100	50/50	188 (50)	93	50/50
34-7	207 (50)	50/50	206 (50)	100	50/50	206 (50)	100	50/50	194 (50)	94	50/50
38-7	211 (50)	50/50	212 (50)	100	50/50	210 (50)	100	50/50	197 (50)	93	50/50
42-7	216 (50)	50/50	216 (50)	100	50/50	213 (50)	99	50/50	199 (50)	92	50/50
46-7	220 (50)	50/50	218 (50)	99	50/50	217 (50)	99	50/50	203 (50)	92	50/50
50-7	224 (50)	50/50	224 (50)	100	50/50	222 (50)	99	50/50	207 (50)	92	50/50
54-7	227 (50)	50/50	226 (50)	100	50/50	226 (50)	100	50/50	211 (49)	93	49/50
58-7	229 (50)	50/50	227 (50)	99	50/50	229 (50)	100	50/50	213 (49)	93	49/50
62-7	235 (50)	50/50	232 (49)	99	49/50	233 (50)	99	50/50	216 (49)	92	49/50
66-7	239 (50)	50/50	238 (49)	100	49/50	238 (50)	100	50/50	223 (49)	93	49/50
70-7	247 (50)	50/50	244 (49)	99	49/50	245 (50)	99	50/50	225 (49)	91	49/50
74-7	252 (50)	50/50	252 (48)	100	48/50	250 (50)	99	50/50	229 (49)	91	49/50
78-7	257 (50)	50/50	256 (47)	100	47/50	252 (48)	98	48/50	233 (49)	91	49/50
82-7	259 (49)	49/50	256 (47)	99	47/50	257 (47)	99	47/50	236 (49)	91	49/50
86-7	261 (47)	47/50	263 (46)	101	46/50	262 (47)	100	47/50	240 (49)	92	49/50
90-7	264 (44)	44/50	265 (44)	100	44/50	264 (47)	100	47/50	243 (48)	92	48/50
94-7	266 (42)	42/50	265 (44)	100	44/50	266 (46)	100	46/50	245 (47)	92	47/50
98-7	266 (42)	42/50	266 (41)	100	41/50	270 (44)	102	44/50	244 (45)	92	45/50
102-7	271 (40)	40/50	267 (40)	99	40/50	273 (44)	101	44/50	245 (42)	90	42/50
104-7	268 (40)	40/50	265 (39)	99	39/50	272 (43)	101	43/50	245 (41)	91	41/50
< >:No. of effective animals, () :No. of measured animals											
Av. Wt. : g											

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

Av. Wt.: g

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	125±	5	155±	7	187±	8	213±	10	234±	10	250±	11	264±	12
10ppm	125±	5	154±	7	188±	9	213±	10	235±	11	251±	12	266±	13
40ppm	125±	5	154±	6	186±	7	211±	8	233±	8	250±	9	265±	9
160ppm	125±	5	141±	7**	168±	9**	186±	10**	205±	11**	219±	12**	232±	13**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day		7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	278±	13	291±	13	302±	14	312±	14	314±	16	327±	15	333±	15		
10ppm	280±	14	294±	15	305±	15	314±	15	320±	15	329±	16	335±	17		
40ppm	279±	10	293±	11	303±	11	312±	12	315±	13	326±	13	333±	14		
160ppm	242±	14**	253±	15**	261±	15**	267±	15**	269±	14**	277±	15**	283±	16**		

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIGrlJ[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	339±	16	356±	17	372±	19	385±	20	397±	21	408±	22
10ppm	341±	17	359±	18	373±	20	385±	22	397±	23	408±	23
40ppm	338±	13	355±	16	371±	18	383±	17	394±	18	404±	27
160ppm	288±	15**	300±	15**	312±	17**	322±	17**	332±	17**	341±	18**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	423±	23	429±	24	435±	24	437±	26	438±	26	443±	28
10ppm	422±	24	428±	24	434±	24	438±	24	440±	23	443±	24
40ppm	421±	21	425±	21	429±	20	433±	22	434±	22	438±	21
160ppm	350±	17**	355±	18**	359±	19**	361±	20**	364±	20**	366±	21**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	455±	50	448±	25	447±	26	446±	28	443±	32	439±	32
10ppm	447±	26	449±	24	449±	25	447±	25	445±	26	439±	26
40ppm	444±	21	443±	23	443±	19	437±	33	441±	20	436±	22
160ppm	374±	20**	374±	23**	375±	23**	375±	23**	373±	26**	371±	26**

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

Test of Dunnett

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	429±	29	422±	34	418±	33
10ppm	426±	32	417±	36	412±	37
40ppm	422±	26	410±	42	412±	28
160ppm	360±	27**	358±	25**	354±	23**

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

Test of Dunnett

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day									
	0-0		1-7		2-7		3-7		4-7		5-7	
Control	98±	4	112±	4	125±	6	136±	6	144±	7	151±	9
10ppm	98±	4	112±	4	126±	5	135±	5	144±	6	150±	7
40ppm	98±	4	112±	5	126±	6	135±	7	144±	7	150±	8
160ppm	98±	4	105±	5**	116±	6**	123±	6**	131±	7**	137±	7**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration		week-day									
	7-7		8-7		9-7		10-7		11-7		12-7	
Control	160±	9	164±	10	169±	10	173±	11	172±	11	179±	11
10ppm	161±	9	165±	9	170±	10	174±	10	175±	11	181±	11
40ppm	160±	9	163±	10	168±	10	172±	11	172±	10	179±	10
160ppm	146±	7**	150±	8**	153±	8**	157±	8**	158±	8**	162±	8**

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

Test of Dunnett

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	183±	10	189±	12	193±	13	196±	13	202±	15	207±	15
10ppm	185±	11	192±	12	196±	13	199±	13	203±	13	206±	14
40ppm	183±	10	189±	12	193±	12	197±	13	201±	14	206±	15
160ppm	168±	9**	173±	8**	177±	9**	182±	10**	188±	11**	194±	11**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	216±	16	220±	17	224±	17	227±	19	229±	20	235±	21
10ppm	216±	15	218±	15	224±	15	226±	15	227±	17	232±	20
40ppm	213±	15	217±	17	222±	17	226±	17	229±	17	233±	17
160ppm	199±	12**	203±	12**	207±	14**	211±	14**	213±	15**	216±	15**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day		70-7		74-7		78-7		82-7		86-7		90-7		94-7	
Control	247±	21	252±	22	257±	22	259±	22	261±	23	264±	23	266±	27		
10ppm	244±	22	252±	22	256±	23	256±	27	263±	23	265±	23	265±	25		
40ppm	245±	19	250±	21	252±	20	257±	20	262±	21	264±	22	266±	23		
160ppm	225±	17**	229±	17**	233±	18**	236±	18**	240±	18**	243±	19**	245±	24**		

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

Test of Dunnett

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration		week-day			
	98-7		102-7		104-7	
Control	266±	28	271±	24	268±	23
10ppm	266±	19	267±	20	265±	21
40ppm	270±	26	273±	27	272±	29
160ppm	244±	33**	245±	19**	245±	18**

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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		10ppm		40ppm		160ppm				
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	14.8 (50)	50/50	15.1 (50)	102	50/50	14.9 (50)	101	50/50	13.0 (50)	88	50/50
2-7	16.4 (50)	50/50	16.8 (50)	102	50/50	16.3 (50)	99	50/50	14.3 (50)	87	50/50
3-7	17.2 (50)	50/50	17.4 (50)	101	50/50	17.0 (50)	99	50/50	14.6 (50)	85	50/50
4-7	17.3 (50)	50/50	17.7 (50)	102	50/50	17.2 (50)	99	50/50	15.3 (50)	88	50/50
5-7	16.9 (50)	50/50	17.0 (50)	101	50/50	16.9 (50)	100	50/50	15.1 (50)	89	50/50
6-7	16.7 (50)	50/50	17.0 (50)	102	50/50	16.7 (50)	100	50/50	15.0 (50)	90	50/50
7-7	16.6 (50)	50/50	16.9 (50)	102	50/50	16.7 (50)	101	50/50	14.8 (50)	89	50/50
8-7	17.1 (50)	50/50	17.4 (50)	102	50/50	17.1 (50)	100	50/50	15.2 (50)	89	50/50
9-7	16.6 (50)	50/50	16.9 (50)	102	50/50	16.7 (50)	101	50/50	14.7 (50)	89	50/50
10-7	17.1 (50)	50/50	17.3 (50)	101	50/50	17.1 (50)	100	50/50	14.9 (50)	87	50/50
11-7	16.8 (50)	50/50	16.8 (50)	100	50/50	16.6 (50)	99	50/50	14.8 (50)	88	50/50
12-7	17.3 (50)	50/50	17.0 (50)	98	50/50	17.0 (50)	98	50/50	14.9 (50)	86	50/50
13-7	16.9 (50)	50/50	16.8 (50)	99	50/50	16.8 (50)	99	50/50	14.9 (50)	88	50/50
14-7	16.6 (50)	50/50	16.6 (50)	100	50/50	16.6 (50)	100	50/50	15.0 (50)	90	50/50
18-7	16.9 (50)	50/50	16.9 (50)	100	50/50	16.6 (50)	98	50/50	14.8 (50)	88	50/50
22-7	17.5 (50)	50/50	17.1 (50)	98	50/50	17.2 (50)	98	50/50	15.3 (50)	87	50/50
26-7	17.5 (50)	50/50	17.3 (50)	99	50/50	17.2 (50)	98	50/50	15.4 (50)	88	50/50
30-7	17.6 (50)	50/50	17.4 (50)	99	50/50	17.2 (50)	98	50/50	15.7 (50)	89	50/50
34-7	17.9 (50)	50/50	17.6 (50)	98	50/50	17.5 (50)	98	50/50	16.0 (50)	89	50/50
38-7	17.4 (50)	50/50	17.0 (50)	98	50/50	17.0 (49)	98	49/50	15.4 (50)	89	50/50
42-7	17.7 (50)	50/50	17.3 (50)	98	50/50	17.3 (49)	98	49/50	15.7 (50)	89	50/50
46-7	17.7 (50)	50/50	17.3 (50)	98	50/50	17.3 (49)	98	49/50	15.8 (50)	89	50/50
50-7	17.5 (50)	50/50	17.2 (49)	98	49/50	17.0 (48)	97	48/50	15.4 (50)	88	50/50
54-7	17.5 (50)	50/50	17.3 (49)	99	49/50	17.3 (48)	99	48/50	15.8 (50)	90	50/50
58-7	17.8 (50)	50/50	17.7 (49)	99	49/50	17.6 (48)	99	48/50	16.2 (49)	91	49/50
62-7	18.1 (50)	50/50	17.8 (49)	98	49/50	17.6 (47)	97	47/50	16.1 (49)	89	49/50
66-7	18.0 (50)	50/50	17.7 (49)	98	49/50	17.9 (47)	99	47/50	16.6 (49)	92	49/50
70-7	17.9 (50)	50/50	17.3 (49)	97	49/50	17.6 (46)	98	46/50	16.0 (48)	89	48/50
74-7	17.1 (49)	49/50	17.1 (48)	100	48/50	17.3 (46)	101	46/50	15.8 (48)	92	48/50
78-7	16.9 (48)	48/50	17.0 (48)	101	48/50	16.9 (44)	100	44/50	15.7 (47)	93	47/50
82-7	17.4 (48)	48/50	17.1 (48)	98	48/50	16.7 (44)	96	44/50	16.0 (47)	92	47/50
86-7	16.9 (45)	46/50	16.4 (48)	97	48/50	17.1 (43)	101	43/50	15.8 (47)	93	47/50
90-7	16.9 (45)	45/50	16.5 (47)	98	47/50	16.9 (41)	100	41/50	15.6 (44)	92	44/50
94-7	17.1 (44)	44/50	16.5 (46)	96	46/50	16.5 (40)	96	40/50	15.7 (43)	92	43/50
98-7	17.3 (40)	40/50	16.5 (46)	95	46/50	16.2 (38)	94	38/50	15.4 (43)	89	43/50
102-7	17.1 (39)	39/50	16.7 (43)	98	43/50	16.3 (37)	95	37/50	15.5 (41)	91	41/50
104-7	17.0 (38)	38/50	16.4 (42)	96	42/50	16.5 (35)	97	35/50	15.2 (39)	89	39/50
< >:No. of effective animals, ():No. of measured animals											
Av. FC.: g											

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

Av. FC. : g

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		10ppm		40ppm		160ppm				
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	11.2 (50)	50/50	11.1 (50)	99	50/50	11.1 (50)	99	50/50	9.8 (50)	88	50/50
2-7	11.4 (50)	50/50	11.3 (50)	99	50/50	11.4 (50)	100	50/50	10.5 (50)	92	50/50
3-7	11.5 (50)	50/50	11.5 (50)	100	50/50	11.5 (50)	100	50/50	10.4 (50)	90	50/50
4-7	11.6 (50)	50/50	11.5 (50)	99	50/50	11.6 (50)	100	50/50	10.7 (50)	92	50/50
5-7	11.5 (50)	50/50	11.3 (50)	98	50/50	11.2 (50)	97	50/50	10.3 (50)	90	50/50
6-7	11.3 (50)	50/50	11.3 (50)	100	50/50	11.1 (50)	98	50/50	10.4 (50)	92	50/50
7-7	10.8 (50)	50/50	10.9 (50)	101	50/50	10.7 (50)	99	50/50	10.1 (50)	94	50/50
8-7	11.0 (50)	50/50	11.1 (50)	101	50/50	10.8 (50)	98	50/50	10.7 (50)	97	50/50
9-7	10.7 (50)	50/50	10.9 (50)	102	50/50	10.7 (50)	100	50/50	9.8 (50)	92	50/50
10-7	11.0 (50)	50/50	11.2 (50)	102	50/50	11.2 (50)	102	50/50	10.4 (50)	95	50/50
11-7	10.9 (50)	50/50	11.1 (50)	102	50/50	10.9 (50)	100	50/50	10.4 (50)	95	50/50
12-7	11.2 (50)	50/50	11.4 (50)	102	50/50	11.2 (50)	100	50/50	10.4 (50)	93	50/50
13-7	11.0 (50)	50/50	11.4 (50)	104	50/50	11.0 (50)	100	50/50	10.6 (50)	96	50/50
14-7	10.9 (50)	50/50	11.0 (50)	101	50/50	10.9 (50)	100	50/50	10.5 (50)	96	50/50
18-7	11.0 (50)	50/50	11.0 (50)	100	50/50	10.8 (50)	98	50/50	10.6 (50)	96	50/50
22-7	10.9 (50)	50/50	11.1 (50)	102	50/50	10.7 (50)	98	50/50	10.9 (50)	100	50/50
26-7	10.9 (50)	50/50	11.0 (50)	101	50/50	11.0 (50)	101	50/50	10.8 (50)	99	50/50
30-7	11.2 (50)	50/50	11.0 (50)	98	50/50	11.0 (50)	98	50/50	11.3 (50)	101	50/50
34-7	11.5 (50)	50/50	11.2 (50)	97	50/50	11.1 (50)	97	50/50	11.5 (50)	100	50/50
38-7	11.0 (50)	50/50	11.1 (50)	101	50/50	10.9 (50)	99	50/50	11.1 (50)	101	50/50
42-7	11.5 (50)	50/50	11.3 (50)	98	50/50	11.1 (50)	97	50/50	11.4 (50)	99	50/50
46-7	11.5 (50)	50/50	11.3 (49)	98	50/50	11.3 (50)	98	50/50	11.7 (50)	102	50/50
50-7	11.5 (50)	50/50	11.4 (50)	99	50/50	10.9 (50)	95	50/50	11.2 (50)	97	50/50
54-7	11.4 (50)	50/50	11.4 (50)	100	50/50	11.3 (50)	99	50/50	11.9 (49)	104	49/50
58-7	11.6 (50)	50/50	11.6 (50)	100	50/50	11.6 (50)	100	50/50	12.2 (49)	105	49/50
62-7	12.0 (50)	50/50	12.0 (49)	100	49/50	11.8 (50)	98	50/50	12.2 (49)	102	49/50
66-7	11.9 (50)	50/50	12.1 (49)	102	49/50	11.8 (50)	99	50/50	12.6 (49)	106	49/50
70-7	12.0 (50)	50/50	12.0 (49)	100	49/50	11.8 (50)	98	50/50	11.9 (49)	99	49/50
74-7	11.8 (50)	50/50	12.1 (48)	103	48/50	11.9 (50)	101	50/50	12.2 (49)	103	49/50
78-7	11.9 (50)	50/50	12.1 (47)	102	47/50	11.8 (48)	99	48/50	12.3 (49)	103	49/50
82-7	12.3 (49)	49/50	11.8 (47)	96	47/50	12.2 (47)	99	47/50	12.6 (49)	102	49/50
86-7	12.1 (47)	47/50	12.2 (46)	101	46/50	12.1 (47)	100	47/50	12.4 (49)	102	49/50
90-7	12.0 (44)	44/50	12.0 (44)	100	44/50	12.2 (47)	102	47/50	12.6 (48)	105	48/50
94-7	12.6 (42)	42/50	12.4 (44)	98	44/50	12.3 (46)	98	46/50	12.6 (47)	100	47/50
98-7	12.2 (42)	42/50	12.0 (41)	98	41/50	12.3 (44)	101	44/50	12.5 (45)	102	45/50
102-7	12.5 (40)	40/50	12.3 (40)	98	40/50	12.5 (44)	100	44/50	12.7 (42)	102	42/50
104-7	12.0 (40)	40/50	12.0 (39)	100	39/50	12.4 (43)	103	43/50	12.7 (41)	106	41/50
< >:No. of effective animals, ():No. of measured animals											
Av. FC.: g											

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

Av. FC. : g

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

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	14.8± 0.7	16.4± 1.0	17.2± 0.9	17.3± 0.9	16.9± 0.9	16.7± 1.0	16.6± 1.0
10ppm	15.1± 0.9	16.8± 1.0	17.4± 1.1	17.7± 1.2	17.0± 1.2	17.0± 1.1	16.9± 1.0
40ppm	14.9± 0.8	16.3± 1.1	17.0± 1.1	17.2± 0.9	16.9± 0.8	16.7± 0.9	16.7± 1.0
160ppm	13.0± 0.8**	14.3± 1.2**	14.6± 1.1**	15.3± 1.1**	15.1± 1.1**	15.0± 1.1**	14.8± 1.0**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 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	17.1± 1.1	16.6± 1.0	17.1± 0.9	16.8± 0.9	17.3± 1.0	16.9± 1.0	16.6± 1.0
10ppm	17.4± 1.1	16.9± 1.0	17.3± 1.0	16.8± 0.9	17.0± 1.0	16.8± 1.1	16.6± 1.0
40ppm	17.1± 1.1	16.7± 1.0	17.1± 0.8	16.6± 0.9	17.0± 1.1	16.8± 1.0	16.6± 0.8
160ppm	15.2± 1.1**	14.7± 1.0**	14.9± 0.9**	14.8± 0.9**	14.9± 1.0**	14.9± 1.0**	15.0± 0.9**

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

Test of Dunnett

(HAN260)

BAIS5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration 18-7 (7)	week-day(effective) 22-7 (7)	26-7 (7)	30-7 (7)	34-7 (7)	38-7 (7)	42-7 (7)
Control	16.9± 0.9	17.5± 1.2	17.5± 1.2	17.6± 1.1	17.9± 1.0	17.4± 0.9	17.7± 1.0
10ppm	16.9± 0.9	17.1± 1.1	17.3± 1.1	17.4± 1.1	17.6± 1.0	17.0± 0.9	17.3± 0.9
40ppm	16.6± 1.0	17.2± 1.0	17.2± 0.9	17.2± 1.0	17.5± 1.5	17.0± 0.8*	17.3± 0.9
160ppm	14.8± 0.9**	15.3± 0.9**	15.4± 1.0**	15.7± 0.9**	16.0± 1.0**	15.4± 0.8**	15.7± 0.8**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 46-7(7)	week-day(effective) 50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	17.7± 0.9	17.5± 0.9	17.5± 1.1	17.8± 1.0	18.1± 1.3	18.0± 1.6	17.9± 1.9
10ppm	17.3± 0.8	17.2± 0.9	17.3± 0.9	17.7± 0.9	17.8± 1.0	17.7± 1.0	17.3± 1.3
40ppm	17.3± 0.9	17.0± 1.0*	17.3± 1.0	17.6± 1.1	17.6± 0.9	17.9± 1.0	17.6± 1.1
160ppm	15.8± 0.9**	15.4± 0.8**	15.8± 0.8**	16.2± 0.9**	16.1± 0.9**	16.6± 1.0**	16.0± 1.0**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

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	17.1± 1.2	16.9± 1.0	17.4± 1.1	16.9± 1.2	16.9± 1.5	17.1± 1.4	17.3± 1.5
10ppm	17.1± 1.0	17.0± 1.0	17.1± 1.0	16.4± 1.7	16.5± 1.4	16.5± 1.6	16.5± 1.9**
40ppm	17.3± 1.1	16.9± 0.7	16.7± 2.0*	17.1± 0.9	16.9± 1.6	16.5± 2.1	16.2± 1.8**
160ppm	15.8± 1.1**	15.7± 1.0**	16.0± 0.9**	15.8± 1.3**	15.6± 1.3**	15.7± 1.1**	15.4± 1.3**

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

Test of Dunnett

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

UNIT : g

REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7 (7)	104-7 (7)
Control	17.1± 2.4	17.0± 2.0
10ppm	16.7± 1.8	16.4± 1.4
40ppm	16.3± 2.2	16.5± 1.4
160ppm	15.5± 2.0**	15.2± 2.1**

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	11.2± 0.5	11.4± 0.7	11.5± 0.8	11.6± 0.9	11.5± 1.0	11.3± 0.8	10.8± 0.6
10ppm	11.1± 0.6	11.3± 0.8	11.5± 0.8	11.5± 0.9	11.3± 1.0	11.3± 1.0	10.9± 0.9
40ppm	11.1± 0.6	11.4± 0.8	11.5± 0.8	11.6± 0.8	11.2± 0.9	11.1± 0.9	10.7± 0.9
160ppm	9.8± 0.6**	10.5± 0.9**	10.4± 0.9**	10.7± 0.7**	10.3± 0.6**	10.4± 0.8**	10.1± 0.6**

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	11.0± 1.0	10.7± 0.9	11.0± 0.9	10.9± 0.8	11.2± 0.7	11.0± 0.7	10.9± 0.8
10ppm	11.1± 0.8	10.9± 1.0	11.2± 1.0	11.1± 0.9	11.4± 0.9	11.4± 0.9*	11.0± 0.8
40ppm	10.8± 0.9	10.7± 0.9	11.2± 1.0	10.9± 0.9	11.2± 0.8	11.0± 0.8	10.9± 1.0
160ppm	10.7± 0.8	9.8± 0.6**	10.4± 0.7**	10.4± 0.7*	10.4± 0.6**	10.6± 0.7*	10.5± 0.6*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)						
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	11.0± 0.9	10.9± 1.0	10.9± 0.8	11.2± 1.0	11.5± 1.0	11.0± 0.9	11.5± 0.9
10ppm	11.0± 0.9	11.1± 1.0	11.0± 0.9	11.0± 0.8	11.2± 0.9	11.1± 0.9	11.3± 1.1
40ppm	10.8± 0.8	10.7± 0.8	11.0± 0.9	11.0± 1.0	11.1± 0.9	10.9± 0.9	11.1± 0.9
160ppm	10.6± 0.7	10.9± 0.8	10.8± 0.8	11.3± 1.0	11.5± 0.8	11.1± 0.8	11.4± 0.8

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	11.5± 1.0	11.5± 0.8	11.4± 0.9	11.6± 1.1	12.0± 1.1	11.9± 0.8	12.0± 0.8
10ppm	11.3± 0.9	11.4± 1.0	11.4± 1.0	11.6± 1.0	12.0± 1.6	12.1± 1.3	12.0± 1.2
40ppm	11.3± 1.0	10.9± 0.9**	11.3± 0.9	11.6± 0.8	11.8± 1.0	11.8± 1.0	11.8± 0.9
160ppm	11.7± 0.7	11.2± 0.8	11.9± 0.9*	12.2± 0.9**	12.2± 0.8	12.6± 1.0**	11.9± 1.0

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

Test of Dunnett

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrICr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day(effective)											
	74-7(7)		78-7(7)		82-7(7)		86-7(7)		90-7(7)		94-7(7)		98-7(7)	
Control	11.8±	0.9	11.9±	0.9	12.3±	1.1	12.1±	1.1	12.0±	0.8	12.6±	0.9	12.2±	1.2
10ppm	12.1±	1.1	12.1±	1.2	11.8±	1.8	12.2±	1.5	12.0±	1.3	12.4±	1.2	12.0±	1.1
40ppm	11.9±	1.4	11.8±	1.0	12.2±	1.0	12.1±	1.0	12.2±	1.1	12.3±	1.2	12.3±	1.5
160ppm	12.2±	1.0	12.3±	1.0	12.6±	1.0	12.4±	1.0	12.6±	1.2	12.6±	1.7	12.5±	1.6

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

Test of Dunnett

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	12.5± 0.9	12.0± 1.0
10ppm	12.3± 1.3	12.0± 1.6
40ppm	12.5± 1.5	12.4± 1.8
160ppm	12.7± 1.6	12.7± 1.4

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

Test of Dunnett

TABLE F1

URINALYSIS : MALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	38	0	0	3	3	13	8	11		0	0	2	5	31	0		38	0	0	0	0	0		33	5	0	0	0	0		37	0	0	1	
10ppm	42	0	0	2	3	14	11	12		0	0	0	10	31	1		42	0	0	0	0	0		29	11	2	0	0	0		42	0	0	0	
40ppm	35	0	0	1	6	5	14	9		0	0	1	4	30	0		35	0	0	0	0	0		26	9	0	0	0	0		35	0	0	0	
160ppm	39	0	0	2	2	8	17	10		0	0	6	4	29	0		39	0	0	0	0	0		26	12	1	0	0	0		37	0	0	2	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0831

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	38	37	0	1	0	0		38	0	0	0	0	
10ppm	42	41	0	0	0	1		42	0	0	0	0	
40ppm	35	35	0	0	0	0		35	0	0	0	0	
160ppm	39	36	0	0	1	2		39	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS5

TABLE F2

URINALYSIS : FEMALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	40	0	0	1	0	4	11	24		1	5	14	10	9	1		40	0	0	0	0	0		16	22	2	0	0	0		40	0	0	0	
10ppm	39	0	1	1	1	0	10	26		0	7	12	7	13	0		39	0	0	0	0	0		16	21	1	1	0	0		38	0	1	0	
40ppm	43	0	0	2	0	2	7	32		0	6	15	10	11	1		43	0	0	0	0	0		13	26	2	2	0	0		43	0	0	0	
160ppm	41	0	0	2	4	2	7	26		2	7	19	7	6	0		41	0	0	0	0	0		20	19	2	0	0	0		41	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	40	39	0	0	1	0		40	0	0	0	0	
10ppm	39	37	1	1	0	0		39	0	0	0	0	
40ppm	43	40	1	0	0	2		43	0	0	0	0	
160ppm	41	40	0	1	0	0		41	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS5

TABLE G1

HEMATOLOGY : MALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	38	8.14±	1.15	13.2±	2.1	40.6±	5.4	50.0±	2.7	16.3±	1.4	32.5±	1.6	788±	160
10ppm	41	7.57±	1.75	12.0±	3.2	37.8±	8.2	50.2±	2.6	15.8±	1.3	31.4±	2.2	935±	325
40ppm	35	8.29±	1.13	13.2±	2.6	40.8±	6.2	49.2±	3.2	15.8±	1.7	32.0±	1.9	873±	236
160ppm	39	7.58±	2.28	11.6±	3.9	36.9±	10.3	50.8±	12.6	15.6±	3.4**	30.7±	2.3**	906±	390

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	38	3.7±	2.2
10ppm	41	6.2±	6.0
40ppm	35	4.1±	2.7
160ppm	39	7.5±	7.7

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	WBC		Differential		WBC (%)									
		10 ³ /μl		NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	38	7.20±	17.23	48±	13	41±	13	4±	1	1±	1	0±	1	6±	15
10ppm	41	4.19±	1.16	50±	7	42±	7	4±	1	1±	1	0±	0	3±	2
40ppm	35	4.10±	1.29	50±	7	43±	8	4±	1	1±	1	0±	0	3±	1
160ppm	39	10.31±	30.96	49±	12	41±	11	3±	1	1±	1	0±	1	5±	15

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

Test of Dunnett

(HCL070)

BAIS 5

TABLE G2

HEMATOLOGY : FEMALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	40	7.87±	1.12	13.7±	1.7	41.2±	4.4	52.8±	4.2	17.6±	1.2	33.3±	1.1	604±	131
10ppm	39	7.73±	1.52	13.9±	2.4	41.1±	6.3	54.2±	6.1	18.2±	1.6	33.6±	1.3	561±	122
40ppm	43	8.16±	0.69	14.5±	1.2*	42.9±	2.9	52.7±	2.3	17.8±	0.7	33.8±	0.9	600±	85
160ppm	41	8.31±	0.49	14.7±	1.0**	43.5±	2.5*	52.4±	1.5	17.7±	0.7	33.7±	0.8	585±	74

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	40	3.3±	3.5
10ppm	39	3.4±	3.1
40ppm	43	2.6±	1.8
160ppm	41	2.3±	0.9

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	40	9.44±	39.28	44±	15	46±	15	3±	1	2±	1	0±	0	5±	15
10ppm	39	4.47±	13.98	42±	11	48±	13	3±	1	2±	1	0±	0	5±	13
40ppm	43	2.24±	1.19	44±	10	49±	11	3±	1	2±	1	0±	0	2±	1
160ppm	41	2.72±	2.32	49±	10*	43±	11	4±	1	2±	1	0±	0	2±	1

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE H1

BIOCHEMISTRY : MALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	38	6.5±	0.4	2.8±	0.3	0.8±	0.1	0.28±	1.03	157±	27	187±	90	138±	133
10ppm	41	6.4±	0.3	2.8±	0.2	0.8±	0.1	0.06±	0.04	165±	22	143±	39*	85±	59*
40ppm	35	6.5±	0.3	2.8±	0.2	0.8±	0.1	0.07±	0.03	165±	26	167±	60	110±	102
160ppm	39	6.3±	0.3*	2.8±	0.2	0.8±	0.1**	0.34±	1.40	159±	27	112±	40**	58±	75**

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

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	38	279±	130	145±	203	43±	35	147±	80	339±	302	8.7±	17.3	113±	64
10ppm	41	217±	47*	87±	26	33±	12	120±	47	339±	82	6.4±	4.2	99±	30
40ppm	35	249±	88	78±	18	31±	6	106±	40	305±	71	6.9±	3.6	89±	26
160ppm	39	190±	91**	169±	328	61±	106	255±	779	412±	246**	7.6±	9.4	177±	466

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

Test of Dunnett

(HCL074)

BAIS5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	38	18.6±	2.2	0.38±	0.06	142±	1	3.9±	0.3	105±	2	10.4±	0.4	3.8±	0.5
10ppm	41	18.1±	2.3	0.36±	0.06	143±	1**	3.8±	0.2	106±	1*	10.3±	0.3	3.9±	0.5
40ppm	35	18.1±	3.3	0.37±	0.07	142±	1	3.9±	0.3	105±	1	10.3±	0.4	3.8±	0.5
160ppm	39	17.0±	2.2**	0.32±	0.04**	143±	1*	4.0±	0.3	106±	1**	10.0±	0.3**	4.2±	0.6*

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

Test of Dunnett

(HCL074)

BAIS 5

TABLE H2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0831

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	40	6.7±	0.4	3.4±	0.3	1.0±	0.2	0.06±	0.06	146±	13	119±	29	68±	76
10ppm	39	6.6±	0.6	3.3±	0.4	1.1±	0.2	0.12±	0.30	146±	19	126±	32	60±	42
40ppm	43	6.7±	0.5	3.5±	0.3	1.1±	0.1	0.05±	0.03	150±	21	133±	34	67±	52
160ppm	41	6.6±	0.4	3.4±	0.4	1.1±	0.2	0.05±	0.03	150±	18	117±	39	37±	23**

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

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0831

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	40	222±	56	147±	108	51±	27	148±	91	255±	154	2.5±	1.5	90±	32
10ppm	39	229±	54	186±	189	59±	34	163±	136	290±	282	3.0±	2.9	94±	61
40ppm	43	241±	60	113±	39	47±	17	142±	49	202±	74	2.3±	1.3	89±	21
160ppm	41	213±	61	166±	117	71±	45**	136±	56	240±	97	3.4±	1.7**	97±	33

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

Test of Dunnett

(HCL074)

BAIS5

STUDY NO. : 0831

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	40	16.7±	2.5	0.29±	0.04	142±	1	3.7±	0.3	104±	2	10.3±	0.3	3.9±	0.6
10ppm	39	17.4±	2.6	0.30±	0.05	142±	2	3.6±	0.3	104±	2	10.2±	0.3	3.7±	0.7
40ppm	43	17.3±	2.9	0.28±	0.04	142±	2	3.5±	0.4**	103±	3	10.3±	0.4	3.7±	0.8
160ppm	41	17.0±	2.2	0.27±	0.03	141±	1	3.7±	0.3	104±	2	10.2±	0.4	3.8±	0.5

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

Test of Dunnett

(HCL074)

BAIS 5

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		2	(4)	8	(16)	1	(2)	3	(6)
subcutis	jaundice		1	(2)	0	(0)	1	(2)	1	(2)
	mass		12	(24)	6	(12)	4	(8)	5	(10)
nasal cavit	black zone		0	(0)	1	(2)	0	(0)	0	(0)
lung	red		0	(0)	1	(2)	2	(4)	1	(2)
	white zone		3	(6)	3	(6)	4	(8)	3	(6)
	red zone		0	(0)	2	(4)	0	(0)	3	(6)
	nodule		1	(2)	5	(10)	2	(4)	0	(0)
	voluminous		1	(2)	0	(0)	0	(0)	0	(0)
lymph node	enlarged		1	(2)	3	(6)	0	(0)	0	(0)
spleen	enlarged		6	(12)	7	(14)	3	(6)	4	(8)
	deformed		0	(0)	0	(0)	1	(2)	0	(0)
heart	white zone		0	(0)	0	(0)	1	(2)	2	(4)
	hypertrophy		0	(0)	1	(2)	0	(0)	0	(0)
tongue	white zone		0	(0)	0	(0)	2	(4)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	0	(0)
salivary gl	hemorrhage		0	(0)	0	(0)	1	(2)	0	(0)
stomach	forestomach:ulcer		0	(0)	1	(2)	1	(2)	0	(0)
	forestomach:erosion		1	(2)	0	(0)	0	(0)	0	(0)
	forestomach:nodule		2	(4)	0	(0)	0	(0)	0	(0)
	glandular stomach:ulcer		0	(0)	1	(2)	0	(0)	1	(2)
	glandular stomach:nodule		0	(0)	1	(2)	3	(6)	1	(2)

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
small intes	nodule		0	(0)	0	(0)	1	(2)	1	(2)
large intes	nodule		1	(2)	0	(0)	0	(0)	0	(0)
liver	enlarged		1	(2)	0	(0)	1	(2)	1	(2)
	white zone		1	(2)	1	(2)	1	(2)	0	(0)
	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		2	(4)	0	(0)	1	(2)	1	(2)
	rough		1	(2)	0	(0)	1	(2)	0	(0)
	herniation		4	(8)	9	(18)	5	(10)	6	(12)
pancreas	nodule		1	(2)	1	(2)	1	(2)	0	(0)
kidney	enlarged		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	deformed		1	(2)	0	(0)	0	(0)	0	(0)
	granular		8	(16)	5	(10)	2	(4)	2	(4)
urin bladd	urine:marked retention		3	(6)	1	(2)	2	(4)	1	(2)
	urine:red		0	(0)	0	(0)	1	(2)	0	(0)
pituitary	enlarged		6	(12)	3	(6)	5	(10)	1	(2)
	red zone		7	(14)	8	(16)	6	(12)	2	(4)
	nodule		4	(8)	0	(0)	0	(0)	3	(6)
thyroid	enlarged		2	(4)	1	(2)	1	(2)	3	(6)
	nodule		5	(10)	1	(2)	1	(2)	2	(4)
adrenal	enlarged		3	(6)	3	(6)	2	(4)	1	(2)
testis	nodule		37	(74)	44	(88)	42	(84)	42	(84)

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
epididymis	atrophic		0	(0)	0	(0)	1	(2)	0	(0)
prostate	red		0	(0)	0	(0)	1	(2)	0	(0)
brain	red zone		0	(0)	2	(4)	0	(0)	1	(2)
	black zone		1	(2)	0	(0)	0	(0)	0	(0)
spinal cord	brown zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	0	(0)
eye	turbid		0	(0)	0	(0)	0	(0)	5	(10)
	white		5	(10)	4	(8)	3	(6)	5	(10)
	red		0	(0)	0	(0)	1	(2)	0	(0)
muscle	nodule		1	(2)	0	(0)	1	(2)	0	(0)
bone	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	deformed		0	(0)	1	(2)	0	(0)	0	(0)
	thick		1	(2)	0	(0)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(2)	0	(0)	0	(0)
mediastinum	mass		0	(0)	0	(0)	0	(0)	1	(2)
peritoneum	nodule		0	(0)	1	(2)	0	(0)	0	(0)
	mass		0	(0)	1	(2)	0	(0)	0	(0)
abdominal c	ascites		0	(0)	1	(2)	0	(0)	0	(0)
thoracic ca	hemorrhage		0	(0)	0	(0)	0	(0)	1	(2)
	pleural fluid		1	(2)	3	(6)	3	(6)	0	(0)
other	lip:nodule		0	(0)	1	(2)	0	(0)	0	(0)
	eye lid:nodule		0	(0)	0	(0)	1	(2)	0	(0)

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
other	ear:nodule		2	(4)	0	(0)	0	(0)	0	(0)
	hindlimb:nodule		0	(0)	2	(4)	0	(0)	0	(0)
	upper jaw:nodule		0	(0)	2	(4)	0	(0)	0	(0)
	nose:elevated		0	(0)	0	(0)	0	(0)	2	(4)
	nose:nodule		0	(0)	0	(0)	0	(0)	1	(2)
whole body	anemic		1	(2)	0	(0)	1	(2)	1	(2)

(HPT080)

BAIS 5

TABLE I 2

GROSS FINDINGS : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		0	(0)	1	(2)	0	(0)	1	(2)
	scab		2	(4)	0	(0)	0	(0)	0	(0)
subcutis	jaundice		2	(4)	0	(0)	0	(0)	0	(0)
	mass		6	(12)	5	(10)	11	(22)	8	(16)
lung	white zone		1	(2)	2	(4)	1	(2)	0	(0)
	red zone		0	(0)	0	(0)	0	(0)	2	(4)
	edema		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		1	(2)	2	(4)	0	(0)	1	(2)
	voluminous		1	(2)	1	(2)	0	(0)	0	(0)
lymph node	enlarged		1	(2)	2	(4)	0	(0)	0	(0)
thymus	enlarged		0	(0)	1	(2)	0	(0)	1	(2)
spleen	enlarged		5	(10)	5	(10)	1	(2)	5	(10)
	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		1	(2)	1	(2)	0	(0)	1	(2)
heart	white zone		0	(0)	1	(2)	0	(0)	1	(2)
oral cavity	food		2	(4)	1	(2)	1	(2)	0	(0)
tongue	white zone		0	(0)	0	(0)	1	(2)	0	(0)
	brown zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		0	(0)	2	(4)	0	(0)	0	(0)
stomach	gas		0	(0)	0	(0)	1	(2)	0	(0)
	forestomach:erosion		0	(0)	1	(2)	1	(2)	0	(0)
	glandular stomach:ulcer		1	(2)	1	(2)	1	(2)	0	(0)

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
stomach	glandular stomach:erosion		0	(0)	1	(2)	1	(2)	0	(0)
	glandular stomach:nodule		0	(0)	0	(0)	0	(0)	1	(2)
duodenum	nodule		0	(0)	0	(0)	1	(2)	0	(0)
small intes	nodule		1	(2)	0	(0)	0	(0)	0	(0)
liver	white zone		1	(2)	1	(2)	0	(0)	1	(2)
	red zone		0	(0)	2	(4)	0	(0)	1	(2)
	nodule		2	(4)	0	(0)	0	(0)	0	(0)
	deformed		0	(0)	1	(2)	0	(0)	1	(2)
	rough		6	(12)	4	(8)	2	(4)	3	(6)
	granular		0	(0)	1	(2)	0	(0)	0	(0)
	herniation		11	(22)	10	(20)	13	(26)	11	(22)
pancreas	nodule		1	(2)	1	(2)	0	(0)	0	(0)
kidney	white zone		0	(0)	0	(0)	0	(0)	1	(2)
	black zone		0	(0)	1	(2)	0	(0)	0	(0)
	granular		0	(0)	0	(0)	0	(0)	1	(2)
urin bladd	urine:marked retention		0	(0)	0	(0)	0	(0)	1	(2)
pituitary	enlarged		9	(18)	10	(20)	8	(16)	5	(10)
	red zone		10	(20)	11	(22)	7	(14)	15	(30)
	brown zone		2	(4)	0	(0)	0	(0)	0	(0)
	nodule		3	(6)	0	(0)	2	(4)	0	(0)
thyroid	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
	nodule		2	(4)	1	(2)	1	(2)	1	(2)

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name NO. of Animals	Control		10ppm		40ppm		160ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
adrenal	enlarged		1	(2)	1	(2)	1	(2)	2	(4)
ovary	cyst		1	(2)	2	(4)	2	(4)	1	(2)
uterus	black zone		0	(0)	1	(2)	0	(0)	1	(2)
	nodule		5	(10)	6	(12)	2	(4)	6	(12)
	dilated lumen		1	(2)	1	(2)	4	(8)	1	(2)
	fluid:red		1	(2)	0	(0)	0	(0)	0	(0)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
brain	red zone		0	(0)	0	(0)	0	(0)	1	(2)
spinal cord	red zone		0	(0)	0	(0)	0	(0)	1	(2)
periph nerv	nodule		0	(0)	0	(0)	1	(2)	0	(0)
eye	turbid		0	(0)	0	(0)	0	(0)	5	(10)
	white		5	(10)	6	(12)	4	(8)	4	(8)
	red		0	(0)	1	(2)	0	(0)	0	(0)
Zymbal gl	nodule		1	(2)	1	(2)	0	(0)	1	(2)
muscle	nodule		0	(0)	1	(2)	0	(0)	0	(0)
pleura	nodule		0	(0)	0	(0)	0	(0)	1	(2)
peritoneum	nodule		2	(4)	1	(2)	0	(0)	0	(0)
retroperit	mass		0	(0)	1	(2)	0	(0)	0	(0)
abdominal c	hemorrhage		0	(0)	0	(0)	0	(0)	1	(2)
	ascites		2	(4)	1	(2)	0	(0)	2	(4)
thoracic ca	pleural fluid		2	(4)	1	(2)	0	(0)	4	(8)
other	upper jaw:nodule		0	(0)	0	(0)	1	(2)	0	(0)
	nose:elevated		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name		Control		10ppm		40ppm		160ppm	
		NO. of Animals		50	(%)	50	(%)	50	(%)	50	(%)
whole body	anemic			0	(0)	1	(2)	0	(0)	0	(0)

(HPT080)

BA1S5

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight		ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	38	392±	34	0.084±	0.021	3.798±	1.545	1.187±	0.083	1.489±	0.215	2.896±	0.327
10ppm	41	386±	32	0.087±	0.047	3.613±	1.423	1.206±	0.101	1.416±	0.103	2.723±	0.181**
40ppm	35	387±	27	0.079±	0.015	4.062±	1.750	1.189±	0.074	1.420±	0.137	2.820±	0.233
160ppm	39	332±	23**	0.070±	0.009**	4.205±	2.183	1.137±	0.086*	1.346±	0.251**	2.493±	0.154**

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

Test of Dunnett

(HCL040)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	38	1.249±	0.908	11.382±	1.580	2.088±	0.048
10ppm	41	1.115±	0.420	10.580±	1.223*	2.093±	0.046
40ppm	35	0.973±	0.225*	11.017±	1.892	2.089±	0.038
160ppm	39	1.059±	1.338**	8.879±	1.894**	2.022±	0.039**

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

Test of Dunnett

(HCL040)

BAIS5

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight		ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	40	251±	24	0.073±	0.015	0.141±	0.062	0.846±	0.061	1.024±	0.194	1.796±	0.122
10ppm	39	246±	23	0.069±	0.010	0.135±	0.055	0.830±	0.074	0.999±	0.216	1.778±	0.151
40ppm	43	255±	27	0.072±	0.008	0.160±	0.174	0.841±	0.087	0.946±	0.069	1.790±	0.125
160ppm	41	229±	17**	0.164±	0.590	0.156±	0.126	0.852±	0.078	0.962±	0.062	1.759±	0.113

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

Test of Dunnett

(HCL040)

BAIS5

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	40	0.856±	1.441	6.595±	1.175	1.904±	0.043
10ppm	39	0.719±	0.654	6.612±	1.349	1.906±	0.050
40ppm	43	0.636±	0.679	6.524±	1.335	1.900±	0.045
160ppm	41	0.586±	0.394	6.260±	1.004	1.860±	0.047**

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

Test of Dunnett

(HCL040)

BAIS5

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0831

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

REPORT TYPE : A1

SEX : MALE

UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)

SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	38	392± 34	0.021± 0.005	0.971± 0.396	0.304± 0.022	0.386± 0.092	0.744± 0.102
10ppm	41	386± 32	0.023± 0.012	0.932± 0.347	0.314± 0.032	0.369± 0.037	0.709± 0.060
40ppm	35	387± 27	0.020± 0.004	1.052± 0.445	0.308± 0.020	0.367± 0.032	0.731± 0.071
160ppm	39	332± 23**	0.021± 0.003	1.267± 0.659	0.344± 0.039**	0.408± 0.086**	0.754± 0.063

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

Test of Dunnett

(HCL042)

BAIS5

STUDY NO. : 0831
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	38	0.323± 0.248	2.919± 0.426	0.537± 0.049
10ppm	41	0.288± 0.104	2.740± 0.225	0.546± 0.047
40ppm	35	0.251± 0.053*	2.846± 0.467	0.542± 0.042
160ppm	39	0.326± 0.428**	2.683± 0.594**	0.612± 0.041**

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

Test of Dunnett

(HCL042)

BAIS5

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	40	251± 24	0.029± 0.007	0.057± 0.026	0.339± 0.035	0.413± 0.105	0.719± 0.066
10ppm	39	246± 23	0.028± 0.005	0.055± 0.022	0.339± 0.041	0.411± 0.114	0.730± 0.106
40ppm	43	255± 27	0.028± 0.003	0.062± 0.061	0.331± 0.031	0.373± 0.035	0.706± 0.063
160ppm	41	229± 17**	0.071± 0.254**	0.068± 0.054**	0.374± 0.035**	0.422± 0.031**	0.772± 0.051**

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

Test of Dunnett

(HCL042)

BAIS5

STUDY NO. : 0831
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	40	0.341± 0.572	2.627± 0.425	0.764± 0.069
10ppm	39	0.300± 0.294	2.702± 0.586	0.781± 0.077
40ppm	43	0.244± 0.219	2.547± 0.375	0.752± 0.076
160ppm	41	0.253± 0.147	2.737± 0.361	0.818± 0.055**

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

Test of Dunnett

(HCL042)

BAIS5

TABLE L1

HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	trichoepithelioma		0 (0%)	2 (4%)	0 (0%)	1 (2%)
	keratoacanthoma		2 (4%)	4 (8%)	0 (0%)	2 (4%)
	sebaceous adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		6 (12%)	2 (4%)	2 (4%)	3 (6%)
	schwannoma		2 (4%)	0 (0%)	2 (4%)	0 (0%)
	fibrosarcoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
{Respiratory system}						
nasal cavit			<50>	<50>	<50>	<50>
	chondroma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	6 (12%)
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		2 (4%)	6 (12%)	1 (2%)	5 (10%)
	bronchiolar-alveolar carcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Hematopoietic system}						
spleen	mononuclear cell leukemia		<50> 5 (10%)	<50> 3 (6%)	<50> 3 (6%)	<50> 3 (6%)
{Digestive system}						
oral cavity	squamous cell papilloma		<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
small intes	leiomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
large intes	leiomyosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
	hepatocellular carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
pancreas	islet cell adenoma		<50> 2 (4%)	<50> 4 (8%)	<50> 4 (8%)	<50> 2 (4%)
	mixed acinar-islet cell adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
	islet cell adenocarcinoma		<50> 1 (2%)	<50> 3 (6%)	<50> 0 (0%)	<50> 0 (0%)
{Urinary system}						
kidney	renal cell carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Endocrine system}						
pituitary	adenoma		<50> 13 (26%)	<50> 9 (18%)	<49> 8 (16%)	<50> 5 (10%)
	adenocarcinoma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
thyroid	C-cell adenoma		<50> 10 (20%)	<50> 5 (10%)	<50> 9 (18%)	<50> 8 (16%)
	follicular adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	C-cell carcinoma		5 (10%)	2 (4%)	1 (2%)	2 (4%)
	follicular adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
adrenal	pheochromocytoma		<50> 6 (12%)	<50> 6 (12%)	<50> 3 (6%)	<50> 1 (2%)
	pheochromocytoma:malignant		1 (2%)	1 (2%)	1 (2%)	1 (2%)
{Reproductive system}						
testis	interstitial cell tumor		<50> 42 (84%)	<50> 47 (94%)	<50> 45 (90%)	<50> 45 (90%)
mammary gl	adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	fibroadenoma		2 (4%)	1 (2%)	1 (2%)	0 (0%)
prep/cli gl	adenoma		<50> 2 (4%)	<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. : 0831
 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	10ppm 50	40ppm 50	160ppm 50
{Nervous system}						
brain	malignant reticulosis		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	meningioma:malignant		1 (2%)	0 (0%)	0 (0%)	0 (0%)
spinal cord	chordoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	schwannoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
{Special sense organs/appendage}						
nasolacr d	squamous cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	Zymbal gland tumor:benign		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Musculoskeletal system}						
muscle	rhabdomyosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
	osteoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
bone	osteosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)
{Body cavities}						
peritoneum	fibrosarcoma		<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. : 0831
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	10ppm 50	40ppm 50	160ppm 50
{Body cavities}						
peritoneum	histiocytic sarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
adipose	lipoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)

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

(HPT085)

BAIS5

TABLE L2

HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Integumentary system/appandage}						
skin/app	keratoacanthoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
subcutis	fibroma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)
{Respiratory system}						
nasal cavit	squamous cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
lung	bronchiolar-alveolar adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 2 (4%)
{Hematopoietic system}						
bone marrow	histiocytic sarcoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
spleen	mononuclear cell leukemia		<50> 5 (10%)	<50> 5 (10%)	<50> 2 (4%)	<50> 4 (8%)
{Digestive system}						
tongue	squamous cell carcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
stomach	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
small intes	adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	leiomyosarcoma		<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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Digestive system}						
liver			<50>	<50>	<50>	<50>
	hepatocellular adenoma		1 (2%)	1 (2%)	0 (0%)	0 (0%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	islet cell adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	adenoma		16 (32%)	14 (28%)	10 (20%)	16 (32%)
	adenocarcinoma		2 (4%)	3 (6%)	1 (2%)	0 (0%)
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		4 (8%)	4 (8%)	8 (16%)	4 (8%)
	follicular adenoma		0 (0%)	0 (0%)	1 (2%)	1 (2%)
	C-cell carcinoma		2 (4%)	1 (2%)	1 (2%)	1 (2%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		1 (2%)	0 (0%)	1 (2%)	2 (4%)
	pheochromocytoma:malignant		0 (0%)	1 (2%)	0 (0%)	2 (4%)
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	granulosa-theca cell tumor		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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	granulosa cell tumor:benign		0 (0%)	0 (0%)	1 (2%)	0 (0%)
uterus			<50>	<50>	<50>	<50>
	endometrial stromal polyp		6 (12%)	8 (16%)	5 (10%)	8 (16%)
	adenocarcinoma		2 (4%)	0 (0%)	0 (0%)	0 (0%)
	leiomyosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	endometrial stromal sarcoma		1 (2%)	2 (4%)	0 (0%)	0 (0%)
mammary gl			<50>	<50>	<50>	<50>
	adenoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	fibroadenoma		4 (8%)	5 (10%)	6 (12%)	5 (10%)
	adenocarcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		2 (4%)	0 (0%)	2 (4%)	1 (2%)
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	malignant reticulosis		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Special sense organs/appendage}						
Zymbal gl			<50>	<50>	<50>	<50>
	Zmbal gland tumor:benign		1 (2%)	1 (2%)	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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
{Musculoskeletal system}						
muscle	leiomyoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Body cavities}						
pleura	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
peritoneum	leiomyosarcoma		<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

(HPT085)

BAIS5

TABLE M1

NEOPLASTIC LESIONS-INCIDENCE
AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	10ppm	40ppm	160ppm
SITE : skin/appendage TUMOR : keratoacanthoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	0/50(0.0)	2/50(4.0)
Adjusted rates(b)	5.00	9.52	0.0	5.13
Terminal rates(c)	1/38(2.6)	4/42(9.5)	0/35(0.0)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6093			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7343			
Fisher Exact test(e)		P = 0.3389	P = 0.2475	P = 0.6913
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	6/50(12.0)	2/50(4.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	12.00	4.76	2.86	5.13
Terminal rates(c)	4/38(10.5)	2/42(4.8)	1/35(2.9)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1728			
Prevalence method(d)	P = 0.8095			
Combined analysis(d)	P = 0.6369			
Cochran-Armitage test(e)	P = 0.6449			
Fisher Exact test(e)		P = 0.1343	P = 0.1343	P = 0.2435
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	3/50(6.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	12.24	4.76	2.86	5.13
Terminal rates(c)	4/38(10.5)	2/42(4.8)	1/35(2.9)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4576			
Prevalence method(d)	P = 0.8158			
Combined analysis(d)	P = 0.7741			
Cochran-Armitage test(e)	P = 0.4058			
Fisher Exact test(e)		P = 0.1589	P = 0.0798	P = 0.1589

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	10ppm	40ppm	160ppm
SITE : nasal cavity TUMOR : squamous cell carcinoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	0/50(0.0)	1/50(2.0)	6/50(12.0)
Adjusted rates(b)	0.0	0.0	2.86	4.76
Terminal rates(c)	0/38(0.0)	0/42(0.0)	1/35(2.9)	0/39(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0006**?			
Prevalence method(d)	P = 0.0538			
Combined analysis(d)	P = 0.0002**			
Cochran-Armitage test(e)	P = 0.0001**			
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = 0.0133*
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	6/50(12.0)	1/50(2.0)	5/50(10.0)
Adjusted rates(b)	5.26	14.29	2.86	12.82
Terminal rates(c)	2/38(5.3)	6/42(14.3)	1/35(2.9)	5/39(12.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2312			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4734			
Fisher Exact test(e)		P = 0.1343	P = 0.5000	P = 0.2180
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	7/50(14.0)	2/50(4.0)	5/50(10.0)
Adjusted rates(b)	5.26	16.67	5.71	12.82
Terminal rates(c)	2/38(5.3)	7/42(16.7)	2/35(5.7)	5/39(12.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3148			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6531			
Fisher Exact test(e)		P = 0.0798	P = 0.6913	P = 0.2180

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	10ppm	40ppm	160ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	3/50(6.0)	3/50(6.0)
Adjusted rates(b)	5.26	2.38	0.0	5.13
Terminal rates(c)	2/38(5.3)	1/42(2.4)	0/35(0.0)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8066			
Prevalence method(d)	P = 0.3020			
Combined analysis(d)	P = 0.6513			
Cochran-Armitage test(e)	P = 0.6482			
Fisher Exact test(e)		P = 0.3575	P = 0.3575	P = 0.3575
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	7.50	0.0	2.86	2.04
Terminal rates(c)	2/38(5.3)	0/42(0.0)	1/35(2.9)	0/39(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = ———			
Prevalence method(d)	P = 0.6345			
Combined analysis(d)	P = ———			
Cochran-Armitage test(e)	P = 0.6572			
Fisher Exact test(e)		P = 0.1212	P = 0.3087	P = 0.3087
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	4/50(8.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	5.26	9.52	9.09	5.13
Terminal rates(c)	2/38(5.3)	4/42(9.5)	3/35(8.6)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = ———			
Prevalence method(d)	P = 0.6744			
Combined analysis(d)	P = ———			
Cochran-Armitage test(e)	P = 0.6076			
Fisher Exact test(e)		P = 0.3389	P = 0.3389	P = 0.6913

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	10ppm	40ppm	160ppm
SITE : pancreas TUMOR : islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	0/50(0.0)	0/50(0.0)
Adjusted rates(b)	0.0	4.76	0.0	0.0
Terminal rates(c)	0/38(0.0)	2/42(4.8)	0/35(0.0)	0/39(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8513			
Prevalence method(d)	P = 0.7989			
Combined analysis(d)	P = 0.9397			
Cochran-Armitage test(e)	P = 0.1541			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	7/50(14.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	5.26	14.29	9.09	5.13
Terminal rates(c)	2/38(5.3)	6/42(14.3)	3/35(8.6)	2/39(5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8513			
Prevalence method(d)	P = 0.7917			
Combined analysis(d)	P = 0.8775			
Cochran-Armitage test(e)	P = 0.2360			
Fisher Exact test(e)		P = 0.1589	P = 0.5000	P = 0.5000
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	13/50(26.0)	9/50(18.0)	8/49(16.3)	5/50(10.0)
Adjusted rates(b)	28.95	20.93	17.95	12.82
Terminal rates(c)	11/38(28.9)	8/42(19.0)	6/35(17.1)	5/39(12.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8496			
Prevalence method(d)	P = 0.9448			
Combined analysis(d)	P = 0.9696			
Cochran-Armitage test(e)	P = 0.0667			
Fisher Exact test(e)		P = 0.2348	P = 0.1760	P = 0.0332*

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	10ppm	40ppm	160ppm
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	14/50(28.0)	9/50(18.0)	9/49(18.4)	5/50(10.0)
Adjusted rates(b)	31.58	20.93	17.95	12.82
Terminal rates(c)	12/38(31.6)	8/42(19.0)	6/35(17.1)	5/39(12.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8352			
Prevalence method(d)	P = 0.9597			
Combined analysis(d)	P = 0.9783			
Cochran-Armitage test(e)	P = 0.0477*			
Fisher Exact test(e)		P = 0.1710	P = 0.1851	P = 0.0198*
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	5/50(10.0)	9/50(18.0)	8/50(16.0)
Adjusted rates(b)	26.32	11.90	25.71	17.50
Terminal rates(c)	10/38(26.3)	5/42(11.9)	9/35(25.7)	6/39(15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4862			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9759			
Fisher Exact test(e)		P = 0.1312	P = 0.5000	P = 0.3976
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	2/50(4.0)	1/50(2.0)	2/50(4.0)
Adjusted rates(b)	12.82	4.76	2.86	4.55
Terminal rates(c)	4/38(10.5)	2/42(4.8)	1/35(2.9)	1/39(2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7523			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4608			
Fisher Exact test(e)		P = 0.2180	P = 0.1022	P = 0.2180

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	10ppm	40ppm	160ppm
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	14/50(28.0)	7/50(14.0)	10/50(20.0)	10/50(20.0)
Adjusted rates(b)	35.90	16.67	28.57	21.28
Terminal rates(c)	13/38(34.2)	7/42(16.7)	10/35(28.6)	7/39(17.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5948			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8208			
Fisher Exact test(e)		P = 0.0698	P = 0.2415	P = 0.2415
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	6/50(12.0)	3/50(6.0)	1/50(2.0)
Adjusted rates(b)	15.79	14.29	8.57	2.56
Terminal rates(c)	6/38(15.8)	6/42(14.3)	3/35(8.6)	1/39(2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9860			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0410*			
Fisher Exact test(e)		P = 0.6202	P = 0.2435	P = 0.0559
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	7/50(14.0)	7/50(14.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	18.42	16.67	8.57	2.56
Terminal rates(c)	7/38(18.4)	7/42(16.7)	3/35(8.6)	1/39(2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1747			
Prevalence method(d)	P = 0.9940			
Combined analysis(d)	P = 0.9723			
Cochran-Armitage test(e)	P = 0.0647			
Fisher Exact test(e)		P = 0.6129	P = 0.2623	P = 0.0798

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Crij[F344/DuCrJ]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	10ppm	40ppm	160ppm
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates(a)	42/50 (84.0)	47/50 (94.0)	45/50 (90.0)	45/50 (90.0)
Adjusted rates(b)	97.37	97.62	100.00	95.74
Terminal rates(c)	37/38 (97.4)	41/42 (97.6)	35/35 (100.0)	37/39 (94.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3496			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7932			
Fisher Exact test(e)		P = 0.0999	P = 0.2768	P = 0.2768
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates(a)	3/50 (6.0)	2/50 (4.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates(b)	5.00	4.76	2.86	0.0
Terminal rates(c)	1/38 (2.6)	2/42 (4.8)	1/35 (2.9)	0/39 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.9395			
Combined analysis(d)	P = 0.9670			
Cochran-Armitage test(e)	P = 0.0975			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.1212

(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 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 M2

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

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	10ppm	40ppm	160ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	2/50(4.0)	4/50(8.0)
Adjusted rates(b)	5.00	5.13	4.65	2.44
Terminal rates(c)	2/40(5.0)	2/39(5.1)	2/43(4.7)	1/41(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4350			
Prevalence method(d)	P = 0.7329			
Combined analysis(d)	P = 0.6238			
Cochran-Armitage test(e)	P = 0.7749			
Fisher Exact test(e)		P = 0.6297	P = 0.2180	P = 0.5000
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	16/50(32.0)	14/50(28.0)	10/50(20.0)	16/50(32.0)
Adjusted rates(b)	32.50	29.17	13.95	37.21
Terminal rates(c)	13/40(32.5)	11/39(28.2)	6/43(14.0)	15/41(36.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9052			
Prevalence method(d)	P = 0.2139			
Combined analysis(d)	P = 0.4111			
Cochran-Armitage test(e)	P = 0.6928			
Fisher Exact test(e)		P = 0.4138	P = 0.1271	P = 0.5848
SITE : pituitary gland TUMOR : adenocarcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	3/50(6.0)	1/50(2.0)	0/50(0.0)
Adjusted rates(b)	0.0	5.13	2.33	0.0
Terminal rates(c)	0/40(0.0)	2/39(5.1)	1/43(2.3)	0/41(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9431			
Prevalence method(d)	P = 0.7971			
Combined analysis(d)	P = 0.9647			
Cochran-Armitage test(e)	P = 0.1114			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.2475

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	10ppm	40ppm	160ppm
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	18/50(36.0)	17/50(34.0)	11/50(22.0)	16/50(32.0)
Adjusted rates(b)	32.50	34.04	16.28	37.21
Terminal rates(c)	13/40(32.5)	13/39(33.3)	7/43(16.3)	15/41(36.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9775			
Prevalence method(d)	P = 0.3171			
Combined analysis(d)	P = 0.6569			
Cochran-Armitage test(e)	P = 0.8386			
Fisher Exact test(e)		P = 0.5000	P = 0.0928	P = 0.4165
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	4/50(8.0)	8/50(16.0)	4/50(8.0)
Adjusted rates(b)	10.00	9.52	17.02	9.30
Terminal rates(c)	4/40(10.0)	3/39(7.7)	7/43(16.3)	3/41(7.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6301			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8534			
Fisher Exact test(e)		P = 0.6425	P = 0.1783	P = 0.6425
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	5/50(10.0)	9/50(18.0)	5/50(10.0)
Adjusted rates(b)	15.00	11.90	19.15	11.63
Terminal rates(c)	6/40(15.0)	4/39(10.3)	8/43(18.6)	4/41(9.8)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6981			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7312			
Fisher Exact test(e)		P = 0.5000	P = 0.2883	P = 0.5000

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	10ppm	40ppm	160ppm
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	1/50(2.0)	1/50(2.0)	1/50(2.0)	4/50(8.0)
Adjusted rates(b)	2.50	0.0	2.17	7.32
Terminal rates(c)	1/40(2.5)	0/39(0.0)	0/43(0.0)	3/41(7.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2469			
Prevalence method(d)	P = 0.0526			
Combined analysis(d)	P = 0.0420*			
Cochran-Armitage test(e)	P = 0.0517			
Fisher Exact test(e)		P = 0.7525	P = 0.7525	P = 0.1811
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	6/50(12.0)	8/50(16.0)	5/50(10.0)	8/50(16.0)
Adjusted rates(b)	15.00	15.56	9.30	18.18
Terminal rates(c)	6/40(15.0)	5/39(12.8)	4/43(9.3)	6/41(14.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6723			
Prevalence method(d)	P = 0.3023			
Combined analysis(d)	P = 0.3772			
Cochran-Armitage test(e)	P = 0.6439			
Fisher Exact test(e)		P = 0.3871	P = 0.5000	P = 0.3871
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	5/50(10.0)	6/50(12.0)	5/50(10.0)
Adjusted rates(b)	10.00	10.00	13.95	11.90
Terminal rates(c)	4/40(10.0)	3/39(7.7)	6/43(14.0)	4/41(9.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4954			
Prevalence method(d)	P = 0.3940			
Combined analysis(d)	P = 0.4590			
Cochran-Armitage test(e)	P = 0.8825			
Fisher Exact test(e)		P = 0.5000	P = 0.3703	P = 0.5000

STUDY No. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	10ppm	40ppm	160ppm
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	6/50(12.0)	6/50(12.0)
Adjusted rates(b)	12.50	10.00	13.95	14.29
Terminal rates(c)	5/40(12.5)	3/39(7.7)	6/43(14.0)	5/41(12.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4954			
Prevalence method(d)	P = 0.3282			
Combined analysis(d)	P = 0.3888			
Cochran-Armitage test(e)	P = 0.7364			
Fisher Exact test(e)		P = 0.6297	P = 0.5000	P = 0.5000
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	7/50(14.0)	6/50(12.0)
Adjusted rates(b)	12.50	10.00	16.28	14.29
Terminal rates(c)	5/40(12.5)	3/39(7.7)	7/43(16.3)	5/41(12.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4954			
Prevalence method(d)	P = 0.3485			
Combined analysis(d)	P = 0.4086			
Cochran-Armitage test(e)	P = 0.7744			
Fisher Exact test(e)		P = 0.6297	P = 0.3798	P = 0.5000

(HPT360A)

BAISS

- (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 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	649	0	0.0	0 - 0

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

Study No. : 0535, 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794, 0800, 0816

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 Squamous cell carcinoma	650	0	0.0	0 - 0
Adrenal Pheochromocytoma	650	11	1.7	0 - 8
Pheochromocytoma: malignant		7	1.1	0 - 4
Pheochromocytoma + Pheochromocytoma: malignant		18	2.8	0 - 8

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

Study No. : 0535, 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794, 0800, 0816

TABLE O1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																					
skin/app		<50>				<50>				<50>				<50>				<50>			
	ulcer	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	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)	(0)	(0)	(0)
	epidermal cyst	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<50>				<50>			
	thrombus	4	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization	42	0	0	0	41	0	0	0	37	1	0	0	4	32	0	0	0	0	0	**
		(84)	(0)	(0)	(0)	(82)	(0)	(0)	(0)	(74)	(2)	(0)	(0)	(8)	(64)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(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. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name		Control				10ppm				40ppm				160ppm					
		No. of Animals on Study				50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<50>							
	goblet cell hyperplasia	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	0 ** (0)	11 (22)	0 (0)	0 (0)	0 (0)	0 ** (0)		
	eosinophilic change:olfactory epithelium	36 (72)	10 (20)	0 (0)	0 (0)	39 (78)	3 (6)	0 (0)	0 (0)	35 (70)	10 (20)	0 (0)	0 (0)		30 (60)	16 (32)	0 (0)	0 (0)			
	eosinophilic change:respiratory epithelium	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)			
	inflammation:foreign body	16 (32)	3 (6)	0 (0)	0 (0)	12 (24)	3 (6)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)		5 (10)	1 (2)	0 (0)	0 (0)	* (0)		
	inflammation:respiratory epithelium	18 (36)	0 (0)	0 (0)	0 (0)	19 (38)	1 (2)	0 (0)	0 (0)	25 (50)	1 (2)	0 (0)	0 (0)		34 (68)	9 (18)	0 (0)	0 (0)	** (0)		
	inflammation:olfactory epithelium	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)		42 (84)	3 (6)	0 (0)	0 (0)	** (0)		
	respiratory metaplasia:olfactory epithelium	2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	0 ** (0)	45 (90)	0 (0)	0 (0)	0 (0)	** (0)		
	respiratory metaplasia:gland	37 (74)	4 (8)	0 (0)	0 (0)	42 (84)	3 (6)	0 (0)	0 (0)	36 (72)	4 (8)	0 (0)	0 (0)		12 (24)	37 (74)	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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}																			
nasal cavit			<50>				<50>				<50>				<50>				
	basal cell hyperplasia:olfactory epithelium		0	0	0	0	0	0	0	0	40	0	0	0	0 **	8	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	3	1	0	0		30	12	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(2)	(0)	(0)		(60)	(24)	(0)	(0)
	squamous cell metaplasia:olfactory 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	0	0	0	0	0	0	0	0		16	1	1	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		(32)	(2)	(2)	(0)
	regeneration:olfactory epithelium		0	0	0	0	0	0	0	0	15	0	0	0	0 **	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)		(4)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	45	4	0	0 **	0	15	34	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(90)	(8)	(0)		(0)	(30)	(68)	(0)
	degeneration:gland		0	0	0	0	0	0	0	0	0	0	0	0		5	43	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		(10)	(86)	(0)	(0)
	adhesion:turbinate		0	0	0	0	0	0	0	0	0	0	0	0		39	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		(78)	(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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																		
nasopharynx			<50>				<50>				<50>				<50>			
	goblet cell hyperplasia		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)	(6)	(0)	(0)	(0)	
larynx			<50>				<50>				<50>				<50>			
	inflammatory infiltration		3	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0
			(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	
	inflammation:foreign body		2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
trachea			<50>				<50>				<50>				<50>			
	inflammation		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)	(6)	(0)	(0)	(0)
	atrophy:epithelium		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)	(20)	(0)	(0)	(0)	

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCrjCrj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
lung		<50>				<50>				<50>				<50>				<50>			
	hemorrhage	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)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	inflammatory infiltration	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)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchopneumonia	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation:macrophage	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)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}																					
bone marrow		<50>				<50>				<50>				<50>				<50>			
	congestion	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																					
bone marrow	increased hematopoiesis	<50>				11	4	0	0	15	3	0	0	11	3	0	0	16	7	0	0
		(22)	(8)	(0)	(0)	(30)	(6)	(0)	(0)	(22)	(6)	(0)	(0)	(32)	(14)	(0)	(0)				
lymph node	lymphadenitis	<50>				0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen	congestion	<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)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	<50>				1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fibrosis:focal	<50>				0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	extramedullary hematopoiesis	<50>				17	5	1	0	23	8	2	0	21	1	2	0	16	8	1	0
		(34)	(10)	(2)	(0)	(46)	(16)	(4)	(0)	(42)	(2)	(4)	(0)	(32)	(16)	(2)	(0)				
{Circulatory system}																					
heart	thrombus	<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)	(0)	(0)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

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ALL ANIMALS (0-105W)

PAGE : 7

		Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																		
heart			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		28 (56)	0 (0)	0 (0)	0 (0)	27 (54)	1 (2)	0 (0)	0 (0)	0 (0)	33 (66)	1 (2)	0 (0)	0 (0)	24 (48)	1 (2)	0 (0)
	endocarditis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:artery		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Digestive system]																		
tongue			<50>				<50>				<50>				<50>			
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach			<50>				<50>				<50>				<50>			
	epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
stomach		<50>				<50>				<50>				<50>				<50>			
	erosion:forestomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach	1	1	3	0	1	0	1	0	1	1	3	0	4	1	0	0	4	1	0	0
		(2)	(2)	(6)	(0)	(2)	(0)	(2)	(0)	(2)	(2)	(6)	(0)	(8)	(2)	(0)	(0)	(8)	(2)	(0)	(0)
	hyperplasia:forestomach	2	2	1	0	3	0	0	0	3	2	1	0	1	2	0	0	2	4	0	0
		(4)	(4)	(2)	(0)	(6)	(0)	(0)	(0)	(6)	(4)	(2)	(0)	(2)	(4)	(0)	(0)	(2)	(4)	(0)	(0)
	erosion:glandular stomach	1	1	0	0	3	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0
		(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	ulcer:glandular stomach	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach	1	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:glandular stomach	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)	(0)	(0)	(0)
small intes		<50>				<50>				<50>				<50>				<50>			
	ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)

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

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ALL ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<50>				<50>				<50>				<50>				<50>			
	herniation	4 (8)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	peliosis-like lesion	4 (8)	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)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:central	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	degeneration:central	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	5 (10)	1 (2)	0 (0)	0 (0)	2 (4)	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)
	inflammatory cell nest	6 (12)	1 (2)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 10

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver																		
	extramedullary hematopoiesis		<50>				<50>				<50>				<50>			
			1	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	clear cell focus		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	acidophilic cell focus		16	4	0	0	24	3	0	0	15	7	0	0	15	2	0	0
			(32)	(8)	(0)	(0)	(48)	(6)	(0)	(0)	(30)	(14)	(0)	(0)	(30)	(4)	(0)	(0)
	basophilic cell focus		7	0	0	0	8	0	0	0	7	1	0	0	11	0	0	0
			(14)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(14)	(2)	(0)	(0)	(22)	(0)	(0)	(0)
	mixed cell focus		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spongiosis hepatitis		2	1	0	0	6	0	0	0	4	0	0	0	1	0	0	0
			(4)	(2)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	bile duct hyperplasia		30	4	0	0	26	5	0	0	28	5	0	0	22	10	0	0
			(60)	(8)	(0)	(0)	(52)	(10)	(0)	(0)	(56)	(10)	(0)	(0)	(44)	(20)	(0)	(0)
	amphophilic cell focus		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
liver		<50>				<50>				<50>				<50>				<50>			
	single cell necrosis:central	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	vacuolic change:central	0 (0)	0 (0)	0 (0)	0 (0)	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)
	vacuolic change:peripheral	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
pancreas		<50>				<50>				<50>				<50>				<50>			
	atrophy	5 (10)	0 (0)	1 (2)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:acinar cell	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	cyst	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyaline droplet	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	chronic nephropathy	18 (36)	15 (30)	10 (20)	0 (0)	29 (58)	11 (22)	6 (12)	0 (0)	17 (34)	18 (36)	7 (14)	0 (0)	28 (56)	5 (10)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 ** (0)
	tubular necrosis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:pelvis	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:tubule	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	dilated pelvis		0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	0
			(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(6)	(0)	(0)	(0)
	deposit of brown pigment:proximal tubule		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
urin bladd			<50>				<50>				<50>				<50>			
	dilatation		0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0
			(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)
	hemorrhage		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
	papillary and/or nodular hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
{Endocrine system}																		
pituitary			<50>				<50>				<49>				<50>			
	angiectasis		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
pituitary		<50>				<50>				<49>				<50>							
	peliosis-like lesion	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia	4 (8)	7 (14)	1 (2)	0 (0)	11 (22)	2 (4)	0 (0)	0 (0)	9 (18)	6 (12)	0 (0)	0 (0)	3 (6)	6 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Rathke pouch	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	aberrant craniopharyngeal tissue	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid		<50>				<50>				<50>				<50>							
	ultimobranchial body remanet	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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	12 (24)	3 (6)	0 (0)	0 (0)	7 (14)	4 (8)	1 (2)	0 (0)	9 (18)	1 (2)	2 (4)	0 (0)	5 (10)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal follicular cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																					
thyroid	cystic thyroid follicle	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
parathyroid	cyst	<50>				<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)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal	angiectasis	<50>				<50>				<50>				<50>				<50>			
		1	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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:cortical cell	0	0	0	0	1	1	0	0	2	0	0	0	2	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	hyperplasia:medulla	5	2	0	0	2	1	0	0	1	1	0	0	1	1	0	0	1	0	0	0
		(10)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(2)	(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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
adrenal		<50>				<50>				<50>				<50>				<50>			
	focal fatty change:cortex	4	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		(8)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Reproductive system}																					
testis		<50>				<50>				<50>				<50>				<50>			
	interstitial cell hyperplasia	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
semin ves		<50>				<50>				<50>				<50>				<50>			
	hemorrhage	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate		<50>				<50>				<50>				<50>				<50>			
	hemorrhage	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation	3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia	10	1	2	0	6	2	2	0	5	5	0	0	6	2	0	0	6	2	0	0
		(20)	(2)	(4)	(0)	(12)	(4)	(4)	(0)	(10)	(10)	(0)	(0)	(12)	(4)	(0)	(0)	(12)	(4)	(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. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study				Control				10ppm				40ppm				160ppm			
		Grade				50				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																					
mammary gl		<50>				<50>				<50>				<50>				<50>			
	galactoceles	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
{Special sense organs/appendage}																					
eye		<50>				<50>				<50>				<50>				<50>			
	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	cataract	4 (8)	1 (2)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)	1 (2)	4 (8)	0 (0)	0 (0)
	retinal atrophy	1 (2)	3 (6)	1 (2)	0 (0)	1 (2)	1 (2)	2 (4)	0 (0)	1 (2)	1 (2)	3 (6)	0 (0)	1 (2)	1 (2)	3 (6)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)
	keratitis	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	12 (24)	4 (8)	4 (8)	0 ** (0)
	degeneration:cornea	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 * (0)
Harder gl		<50>				<50>				<50>				<50>				<50>			
	lymphocytic infiltration	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 18

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
nasolacr d	inflammation		<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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle	atrophy		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
bone	fracture		<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)
	osteosclerosis		1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(2)	(2)	(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 : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BA1S5

TABLE O2

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																		
skin/app			<50>				<50>				<50>				<50>			
	scab		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)
[Respiratory system]																		
nasal cavit			<50>				<50>				<50>				<50>			
	thrombus		2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization		24	0	0	0	23	0	0	0	24	1	0	0	1	17	0	0 **
			(48)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(48)	(2)	(0)	(0)	(2)	(34)	(0)	(0)
	squamous cell hyperplasia		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)
	inflammatory polyp		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)
	goblet cell hyperplasia		21	0	0	0	25	0	0	0	26	0	0	0	28	7	0	0 **
			(42)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(52)	(0)	(0)	(0)	(56)	(14)	(0)	(0)
	eosinophilic change:olfactory epithelium		9	28	13	0	11	35	3	0 *	6	42	1	0 **	44	5	0	0 **
			(18)	(56)	(26)	(0)	(22)	(70)	(6)	(0)	(12)	(84)	(2)	(0)	(88)	(10)	(0)	(0)

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}																			
nasal cavit	eosinophilic change:respiratory epithelium		34 (68)	0 (0)	0 (0)	0 (0)	28 (56)	0 (0)	0 (0)	0 (0)	39 (78)	0 (0)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)	0 **
	inflammation:foreign body		2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	inflammation:respiratory epithelium		20 (40)	4 (8)	0 (0)	0 (0)	20 (40)	1 (2)	0 (0)	0 (0)	22 (44)	1 (2)	0 (0)	0 (0)	47 (94)	2 (4)	0 (0)	0 (0)	0 **
	inflammation:olfactory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	48 (96)	1 (2)	0 (0)	0 (0)	0 **
	respiratory metaplasia:olfactory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	48 (96)	1 (2)	0 (0)	0 (0)	0 **
	respiratory metaplasia:gland		50 (100)	0 (0)	0 (0)	0 (0)	47 (94)	3 (6)	0 (0)	0 (0)	43 (86)	7 (14)	0 (0)	0 * (0)	3 (6)	46 (92)	0 (0)	0 (0)	0 **
	basal cell hyperplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	24 (48)	0 (0)	0 (0)	0 ** (0)	32 (64)	0 (0)	0 (0)	0 (0)	0 **
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	39 (78)	5 (10)	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. : 0831
 ANIMAL : RAT F344/DuCr1Crlj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	squamous cell metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:transitional epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	regeneration:olfactory epithelium		0	0	0	0	0	0	0	0	13	0	0	0 **	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	atrophy:olfactory epithelium		1	0	0	0	0	2	0	0	14	18	0	0 **	0	3	46	0 **
			(2)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(28)	(36)	(0)	(0)	(0)	(6)	(92)	(0)
	degeneration:gland		0	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(98)	(0)	(0)
	adhesion:turbinate		0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(74)	(0)	(0)	(0)	(0)
nasopharynx			<50>				<50>				<50>				<50>			
	goblet cell hyperplasia		22	0	0	0	24	0	0	0	18	0	0	0	6	0	0	0 **
			(44)	(0)	(0)	(0)	(48)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	inflammation:foreign body		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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																		
larynx			<50>				<50>				<50>				<50>			
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 ** (0)
	inflammation:foreign body		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
trachea			<50>				<50>				<50>				<50>			
	atrophy:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	16 (32)	0 (0)	0 (0)	0 ** (0)
lung			<50>				<50>				<50>				<50>			
	congestion		3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	edema		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																		
lung			<50>				<50>				<50>				<50>			
	accumulation of foamy cells		3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	bronchopneumonia		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)	1 (2)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}																		
bone marrow			<50>				<50>				<50>				<50>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		10 (20)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0) *	6 (12)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	increased hematopoiesis		7 (14)	1 (2)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
spleen			<50>				<50>				<50>				<50>			
	deposit of hemosiderin		5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<50>				<50>				<50>				<50>			
	extramedullary hematopoiesis		25	10	1	0	24	8	5	0	29	7	2	0	26	7	3	0
			(50)	(20)	(2)	(0)	(48)	(16)	(10)	(0)	(58)	(14)	(4)	(0)	(52)	(14)	(6)	(0)
{Circulatory system}																		
heart			<50>				<50>				<50>				<50>			
	thrombus		0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myocardial fibrosis		17	0	0	0	8	1	0	0	9	1	0	0	10	0	0	0
			(34)	(0)	(0)	(0)	(16)	(2)	(0)	(0)	(18)	(2)	(0)	(0)	(20)	(0)	(0)	(0)
{Digestive system}																		
oral cavity			<50>				<50>				<50>				<50>			
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
tongue	ulcer		<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)	
	squamous cell hyperplasia		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)	
stomach	ulcer:forestomach		<50>				<50>				<50>				<50>			
		1	1	1	0	2	1	2	0	6	0	1	0	1	2	0	0	
		(2)	(2)	(2)	(0)	(4)	(2)	(4)	(0)	(12)	(0)	(2)	(0)	(2)	(4)	(0)	(0)	
	hyperplasia:forestomach		2	1	0	0	4	1	0	0	1	2	1	0	4	0	0	0
		(4)	(2)	(0)	(0)	(8)	(2)	(0)	(0)	(2)	(4)	(2)	(0)	(8)	(0)	(0)	(0)	
			erosion:glandular stomach		2	0	0	0	4	0	1	0	1	0	0	0	1	0
(4)	(0)			(0)	(0)	(8)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
	ulcer:glandular stomach				0	2	0	0	1	0	0	0	0	0	0	0	1	1
		(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	
			hyperplasia:glandular stomach		1	0	0	0	0	0	0	0	0	0	0	0	2	0
(2)	(0)			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
liver	herniation		<50>				<50>				<50>				<50>			
		12	0	0	0	10	0	0	0	12	0	0	0	11	0	0	0	
		(24)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(22)	(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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver			<50>				<50>				<50>				<50>			
	congestion		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)
	peliosis-like lesion		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:central		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)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	degeneration		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)
	degeneration:central		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)
	granulation		1 (2)	2 (4)	1 (2)	0 (0)	6 (12)	2 (4)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
inflammatory cell nest		13 (26)	5 (10)	0 (0)	0 (0)	9 (18)	4 (8)	0 (0)	0 (0)	17 (34)	4 (8)	0 (0)	0 (0)	18 (36)	7 (14)	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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 27

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																		
liver			<50>				<50>				<50>				<50>			
	extramedullary hematopoiesis		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		4 (8)	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)
	basophilic cell focus		36 (72)	1 (2)	0 (0)	0 (0)	39 (78)	0 (0)	0 (0)	0 (0)	38 (76)	1 (2)	0 (0)	0 (0)	35 (70)	0 (0)	0 (0)	0 (0)
	mixed cell focus		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	spongiosis hepatitis		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)
	bile duct hyperplasia		2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	bile ductular proliferation		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	

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. : 0831
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 28

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	single cell necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	vacuolic change:peripheral		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
pancreas			<50>				<50>				<50>				<50>			
	atrophy		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		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)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 29

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney																		
	inflammatory infiltration		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty metamorphosis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy		13	1	0	0	11	1	0	0	13	1	1	0	6	1	1	0
			(26)	(2)	(0)	(0)	(22)	(2)	(0)	(0)	(26)	(2)	(2)	(0)	(12)	(2)	(2)	(0)
	tubular necrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:papilla		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)
	mineralization:pelvis		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization:tubule		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)
	urothelial hyperplasia:pelvis		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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 30

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	atypical tubule hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	dilated pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	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)
	deposit of brown pigment:proximal tubule		2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Endocrine system}																		
pituitary			<50>				<50>				<50>				<50>			
	angiectasis		1 (2)	1 (2)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)	2 (4)	3 (6)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	peliosis-like lesion		4 (8)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
	cyst		16 (32)	2 (4)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	17 (34)	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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 31

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Endocrine system}																		
pituitary	hyperplasia		5 (10)	2 (4)	1 (2)	0 (0)	6 (12)	3 (6)	0 (0)	0 (0)	4 (8)	2 (4)	0 (0)	0 (0)	6 (12)	3 (6)	1 (2)	0 (0)
	Rathke pouch		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
thyroid	ultimobranchial body remanet		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	C-cell hyperplasia		9 (18)	2 (4)	0 (0)	0 (0)	7 (14)	2 (4)	1 (2)	0 (0)	9 (18)	2 (4)	1 (2)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)
	cystic thyroid follicle		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)
adrenal	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 32

Organ	Findings	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																		
adrenal			<50>				<50>				<50>				<50>			
	angiectasis		2	0	0	0	4	0	0	0	4	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	peliosis-like lesion		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		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)
	hyperplasia:cortical cell		1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:medulla		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	focal fatty change:cortex		7	1	0	0	5	3	0	0	7	0	0	0	7	1	0	0
			(14)	(2)	(0)	(0)	(10)	(6)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(2)	(0)	(0)

{Reproductive system}

ovary				<50>				<50>				<50>				<50>			
	inflammatory infiltration			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 33

Organ_____	Findings_____	Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}																		
ovary	ovarian cyst		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cystic extention:ovarian bursa		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
uterus	dilatation		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cystic endometrial hyperplasia		4 (8)	0 (0)	0 (0)	0 (0)	6 (12)	2 (4)	0 (0)	0 (0)	8 (16)	1 (2)	0 (0)	0 (0)	7 (14)	1 (2)	0 (0)	0 (0)
mammary gl	hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	galactoceles		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)
{Nervous system}																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 34

		Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain	gliosis		<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spinal cord	gliosis		<50>				<50>				<50>				<50>			
		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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	hemorrhage		<50>				<50>				<50>				<50>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cataract		2	2	0	0	4	2	1	0	1	3	0	0	2	2	0	0
		(4)	(4)	(0)	(0)	(8)	(4)	(2)	(0)	(2)	(6)	(0)	(0)	(4)	(4)	(0)	(0)	(0)
	retinal atrophy		0	0	5	0	1	0	6	0	0	0	4	0	0	1	3	0
		(0)	(0)	(10)	(0)	(2)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(2)	(6)	(0)	(0)
	keratitis		0	1	0	0	2	1	0	0	1	1	0	0	12	11	9	0 **
		(0)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(24)	(22)	(18)	(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. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 35

		Group Name	Control				10ppm				40ppm				160ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																		
eye	iritis		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	degeneration:cornea		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
Harder gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		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)	2 (4)	0 (0)	0 (0)	0 (0)
		granulation		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasolacr d	inflammation		<50>				<50>				<50>				<50>			
		6 (12)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 * (0)
[Musculoskeletal system]																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		4 (8)	1 (2)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	0 (0)

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

TABLE P1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Group Name		Control	10ppm	40ppm	160ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Integumentary system/appendage}					
skin/app		<50>	<50>	<50>	<50>
	metastasis:subcutis tumor	1	0	0	0
{Respiratory system}					
nasal cavit		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	1	0
lung		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	2	3	3
	metastasis:thyroid tumor	1	0	0	0
	metastasis:peritoneum tumor	1	0	0	0
	metastasis:subcutis tumor	1	0	0	0
	metastasis:bone tumor	0	1	0	1
	metastasis:nasal tumor	0	0	0	1
	metastasis:muscle tumor	0	1	0	0
	metastasis:skin/appendage tumor	0	0	1	0
{Hematopoietic system}					
bone marrow		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	1	2	1
lymph node		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	0	0	0
	metastasis:peritoneum tumor	1	0	0	0

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Group Name No. of Animals on Study		Control 50	10ppm 50	40ppm 50	160ppm 50
Organ	Findings				
{Hematopoietic system}					
lymph node	metastasis:muscle tumor	<50> 0	<50> 1	<50> 0	<50> 0
{Circulatory system}					
heart	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor	1	0	0	0
{Digestive system}					
large intes	metastasis:peritoneum tumor	<50> 1	<50> 0	<50> 0	<50> 0
liver	leukemic cell infiltration	<50> 5	<50> 2	<50> 3	<50> 3
	metastasis:muscle tumor	0	1	0	0
pancreas	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:muscle tumor	0	1	0	0
{Urinary system}					
kidney	leukemic cell infiltration	<50> 1	<50> 1	<50> 1	<50> 1
urin bladd	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Group Name		Control	10ppm	40ppm	160ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Urinary system}					
urin bladd	metastasis:peritoneum tumor	<50> 0	<50> 1	<50> 0	<50> 0
{Endocrine system}					
pituitary	leukemic cell infiltration	<50> 0	<50> 1	<49> 0	<50> 0
adrenal	leukemic cell infiltration	<50> 2	<50> 1	<50> 2	<50> 0
	metastasis:subcutis tumor	1	0	0	0
	metastasis:bone tumor	0	0	0	1
{Reproductive system}					
prostate	metastasis:peritoneum tumor	<50> 0	<50> 1	<50> 0	<50> 0
{Nervous system}					
brain	leukemic cell infiltration	<50> 2	<50> 2	<50> 1	<50> 1
	metastasis:pituitary tumor	1	0	0	0
spinal cord	leukemic cell infiltration	<50> 1	<50> 2	<50> 1	<50> 0
{Special sense organs/appendage}					
Harder gl	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

		Group Name	Control	10ppm	40ppm	160ppm
Organ	Findings	No. of Animals on Study	50	50	50	50
{Musculoskeletal system}						
muscle	metastasis:peritoneum tumor		<50> 0	<50> 1	<50> 0	<50> 0
< a > a : Number of animals examined at the site						
b b : Number of animals with lesion						

(JPT150)

BAIS5

TABLE P2

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

FEMALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCrI(CrIj)[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Group Name		Control	10ppm	40ppm	160ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Respiratory system}					
lung	leukemic cell infiltration	<50> 3	<50> 5	<50> 0	<50> 3
	metastasis:uterus tumor	1	1	0	0
	metastasis:adrenal tumor	0	0	0	1
	metastasis:pleura tumor	0	0	0	1
{Hematopoietic system}					
bone marrow	leukemic cell infiltration	<50> 2	<50> 3	<50> 0	<50> 3
lymph node	leukemic cell infiltration	<50> 1	<50> 3	<50> 0	<50> 1
	metastasis:uterus tumor	1	0	0	0
	metastasis:pleura tumor	0	0	0	1
thymus	leukemic cell infiltration	<50> 0	<50> 1	<50> 0	<50> 0
	metastasis:pleura tumor	0	0	0	1
spleen	metastasis:adrenal tumor	<50> 0	<50> 0	<50> 0	<50> 1
{Circulatory system}					
heart	leukemic cell infiltration	<50> 1	<50> 1	<50> 0	<50> 1

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

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

		Group Name No. of Animals on Study	Control 50	10ppm 50	40ppm 50	160ppm 50
Organ	Findings					
{Digestive system}						
liver	leukemic cell infiltration		<50> 5	<50> 5	<50> 1	<50> 4
	metastasis:uterus tumor		0	1	0	0
	metastasis:bone marrow tumor		0	1	0	0
pancreas	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 2	<50> 1	<50> 0	<50> 2
	metastasis:uterus tumor		1	1	0	0
urin bladd	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 1
{Endocrine system}						
pituitary	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
	metastasis:adrenal tumor		<50> 0	<50> 0	<50> 0	<50> 1
adrenal	leukemic cell infiltration		<50> 2	<50> 2	<50> 0	<50> 3
{Reproductive system}						
ovary	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 1

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

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 7

Group Name		Control	10ppm	40ppm	160ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
{Reproductive system}					
ovary	metastasis:adrenal tumor	<50> 0	<50> 0	<50> 0	<50> 1
uterus	leukemic cell infiltration	<50> 1	<50> 1	<50> 0	<50> 1
{Nervous system}					
brain	leukemic cell infiltration	<50> 1	<50> 1	<50> 0	<50> 2
	metastasis:pituitary tumor	2	2	0	0
spinal cord	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
{Body cavities}					
peritoneum	metastasis:uterus tumor	<50> 1	<50> 1	<50> 0	<50> 0

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

(JPT150)

BAIS5

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0831
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

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

PAGE : 1

Group Name	Control	10ppm	40ppm	160ppm
Number of Dead and Moribund Animal	12	8	15	11
no microscop confirm	0	0	1	0
urinary retention	0	0	1	0
tumor d:leukemia	3	2	3	1
tumor d:skin/app	0	0	1	1
tumor d:subcutis	1	1	1	1
tumor d:nasal cavit	0	0	0	4
tumor d:tongue	0	0	1	0
tumor d:small intes	0	0	1	0
tumor d:pancreas	1	1	0	0
tumor d:pituitary	2	0	2	0
tumor d:thyroid	0	1	0	0
tumor d:adrenal	0	0	1	1
tumor d:mammary gl	1	0	0	0
tumor d:prep/cli gl	1	0	0	0
tumor d:brain	2	0	0	0
tumor d:spinal cord	0	0	1	0
tumor d:periph nerv	0	0	1	1
tumor d:muscle	0	1	1	0
tumor d:bone	0	1	0	2
tumor d:peritoneum	1	1	0	0

(B10120)

BA1S5

TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0831
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : FEMALE

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

PAGE : 2

Group Name	Control	10ppm	40ppm	160ppm
Number of Dead and Moribund Animal	10	11	7	9
pneumonia	0	1	0	0
deglutition disorder	1	1	1	0
tumor d:leukemia	3	3	0	3
tumor d:subcutis	0	0	0	1
tumor d:nasal cavit	0	0	0	1
tumor d:tongue	0	1	0	0
tumor d:small intes	0	0	1	0
tumor d:pituitary	5	1	4	0
tumor d:adrenal	0	1	0	1
tumor d:uterus	0	1	1	1
tumor d:mammary gl	0	1	0	0
tumor d:Zymbal gl	1	1	0	1
tumor d:pleura	0	0	0	1

(B10120)

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