

アクリル酸のラットを用いた
吸入によるがん原性試験報告書

試験番号：0704

TABLES

TABLES

TABLE A	CONCENTRATIONS OF ACRYLIC ACID IN THE INHALATION CHAMBER OF THE 2-YEAR INHALATION STUDY
TABLE B 1	SURVIVAL ANIMAL NUMBERS: MALE
TABLE B 2	SURVIVAL ANIMAL NUMBERS: FEMALE
TABLE C 1	CLINICAL OBSERVATION: MALE
TABLE C 2	CLINICAL OBSERVATION: FEMALE
TABLE D 1	BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE
TABLE D 2	BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE
TABLE D 3	BODY WEIGHT CHANGES: MALE
TABLE D 4	BODY WEIGHT CHANGES: FEMALE
TABLE E 1	FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: MALE
TABLE E 2	FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: FEMALE
TABLE E 3	FOOD CONSUMPTION CHANGES: MALE
TABLE E 4	FOOD CONSUMPTION CHANGES: FEMALE
TABLE F 1	HEMATOLOGY: MALE
TABLE F 2	HEMATOLOGY: FEMALE
TABLE G 1	BIOCHEMISTRY: MALE
TABLE G 2	BIOCHEMISTRY: FEMALE

TABLES (CONTINUED)

TABLE H 1 URINALYSIS: MALE

TABLE H 2 URINALYSIS: FEMALE

TABLE I 1 GROSS FINDINGS: MALE: ALL ANIMALS

TABLE I 2 GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS

TABLE I 3 GROSS FINDINGS: MALE: SACRIFICED ANIMALS

TABLE I 4 GROSS FINDINGS: FEMALE: ALL ANIMALS

TABLE I 5 GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS

TABLE I 6 GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS

TABLE J 1 ORGAN WEIGHT, ABSOLUTE: MALE

TABLE J 2 ORGAN WEIGHT, ABSOLUTE: FEMALE

TABLE K 1 ORGAN WEIGHT, RELATIVE: MALE

TABLE K 2 ORGAN WEIGHT, RELATIVE: FEMALE

TABLE L 1 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: MALE: ALL ANIMALS

TABLE L 2 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: MALE: DEAD AND MORIBUND ANIMALS

TABLE L 3 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: MALE: SACRIFICED ANIMALS

TABLE L 4 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: FEMALE: ALL ANIMALS

TABLE L 5 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: FEMALE: DEAD AND MORIBUND ANIMALS

TABLE L 6 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: FEMALE: SACRIFICED ANIMALS

TABLES (CONTINUED)

TABLE	M 1	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: MALE
TABLE	M 2	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: FEMALE
TABLE	N 1	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: MALE
TABLE	N 2	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: FEMALE
TABLE	O 1	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: MALE
TABLE	O 2	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: FEMALE
TABLE	P 1	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: MALE
TABLE	P 2	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: FEMALE
TABLE	Q 1	CAUSE OF DEATH: MALE
TABLE	Q 2	CAUSE OF DEATH: FEMALE

TABLE A

CONCENTRATIONS OF ACRYLIC ACID
IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF ACRYLIC ACID 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	10.2 \pm 0.1
40 ppm	40.3 \pm 0.2
160 ppm	160.1 \pm 0.7

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0704

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

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

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STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[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	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	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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	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
10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

PAGE : 4

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

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
10 ppm	50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50
		100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0
40 ppm	50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50
		100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	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	100.0	98.0
Number of survival/ Number of effective animals Survival rate(%)															

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	48/50	48/50	48/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
10 ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	46/50	45/50	44/50	44/50	44/50	44/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	92.0	90.0	88.0	88.0	88.0	88.0
40 ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	92.0	92.0	92.0	92.0	92.0
160 ppm	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(%)															

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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	46/50	46/50	46/50	46/50	45/50	45/50	44/50	44/50	44/50	42/50	42/50	42/50	42/50	41/50
			92.0	92.0	92.0	92.0	90.0	90.0	88.0	88.0	88.0	84.0	84.0	84.0	84.0	82.0
	10 ppm	50	44/50	44/50	43/50	43/50	43/50	43/50	42/50	41/50	41/50	40/50	39/50	39/50	39/50	39/50
			88.0	88.0	86.0	86.0	86.0	86.0	84.0	82.0	82.0	80.0	78.0	78.0	78.0	78.0
	40 ppm	50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50	45/50	45/50	45/50	44/50	44/50	44/50
			92.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0	90.0	90.0	90.0	88.0	88.0	88.0
	160 ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	47/50	46/50
			98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	94.0
Number of survival/ Number of effective animals			Survival rate(%)													

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	41/50	41/50	41/50	41/50	40/50	40/50	38/50
		82.0	82.0	82.0	82.0	80.0	80.0	76.0
10 ppm	50	39/50	38/50	36/50	36/50	36/50	36/50	36/50
		78.0	76.0	72.0	72.0	72.0	72.0	72.0
40 ppm	50	43/50	43/50	43/50	42/50	42/50	41/50	41/50
		86.0	86.0	86.0	84.0	84.0	82.0	82.0
160 ppm	50	45/50	44/50	43/50	43/50	42/50	42/50	42/50
		90.0	88.0	86.0	86.0	84.0	84.0	84.0
Number of survival/ Number of effective animals Survival rate(%)								

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TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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
10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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
10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals Survival rate(%)															

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BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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
10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
160 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

PAGE : 12

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

(HAN360)

BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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	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
	10 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0
	40 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	160 ppm	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	48/50
			100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0
Number of survival/ Number of effective animals			Survival rate(%)													

(HAN360)

BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

PAGE : 14

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

(HAN360)

BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

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	45/50	45/50	44/50	43/50	43/50	43/50	43/50	43/50	41/50	41/50	41/50	41/50	41/50	41/50
			90.0	90.0	88.0	86.0	86.0	86.0	86.0	86.0	82.0	82.0	82.0	82.0	82.0	82.0
	10 ppm	50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50	45/50	44/50	44/50	43/50
			94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	90.0	88.0	88.0
	40 ppm	50	48/50	47/50	46/50	46/50	45/50	45/50	44/50	44/50	43/50	43/50	43/50	43/50	43/50	42/50
			96.0	94.0	92.0	92.0	90.0	90.0	88.0	88.0	86.0	86.0	86.0	86.0	86.0	86.0
	160 ppm	50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50
			96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0
Number of survival/ Number of effective animals																
Survival rate(%)																

(HAN360)

BAIS4

STUDY NO. : 0704

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	41/50	39/50	39/50	38/50	38/50	38/50	37/50
		82.0	78.0	78.0	76.0	76.0	76.0	74.0
10 ppm	50	43/50	42/50	42/50	40/50	40/50	40/50	40/50
		86.0	84.0	84.0	80.0	80.0	80.0	80.0
40 ppm	50	41/50	41/50	41/50	40/50	40/50	40/50	38/50
		82.0	82.0	82.0	80.0	80.0	80.0	76.0
160 ppm	50	45/50	44/50	43/50	43/50	43/50	43/50	43/50
		90.0	88.0	86.0	86.0	86.0	86.0	86.0
Number of survival/ Number of effective animals Survival rate(%)								

(HAN360)

BAIS4

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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
		29-7	30-7	31-7														
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 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
DEATH	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr.j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 5

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 6

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	3	3	3	4	4	5	5	5	7	7	7	7	8	8
	10 ppm	5	6	6	6	6	7	8	8	9	9	9	9	9	9
	40 ppm	2	2	2	2	2	2	2	2	2	2	3	3	3	4
	160 ppm	0	0	0	0	0	0	0	1	1	1	1	1	2	3
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	40 ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	10 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	10 ppm	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	8	8	8	9	9	10
	10 ppm	10	12	12	12	12	12
	40 ppm	4	4	4	4	5	5
	160 ppm	3	3	3	4	4	4
MORIBUND SACRIFICE	Control	1	1	1	1	1	2
	10 ppm	2	2	2	2	2	2
	40 ppm	3	3	4	4	4	4
	160 ppm	3	4	4	4	4	4
PARALYTIC GAIT	Control	0	0	0	0	0	0
	10 ppm	0	0	0	1	1	1
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
ABNORMAL GAIT	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
WASTING	Control	1	1	1	1	1	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	1	0	0	0	0	1
SOILED	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	10 ppm	0	1	1	1	1	1
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	1
	40 ppm	1	1	0	0	0	0
	160 ppm	1	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 10

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 11

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	1	1	1	0	0	0	0	0	1
	10 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 13

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
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	160 ppm	1	1	2	2	2	2	2	2	2	2	2	2	2	2
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	2	2	2	2	1
	10 ppm	2	2	2	2	1	1	1	2	2	2	3	3	2	2
	40 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	1
	160 ppm	0	0	1	1	1	1	1	2	2	2	3	2	3	3
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	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
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 14

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 15

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
EXOPHTHALMOS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0
CATARACT	Control	1	1	3	3	3	3
	10 ppm	3	4	4	4	4	4
	40 ppm	6	6	6	6	6	7
	160 ppm	2	2	2	2	2	2
EXTERNAL MASS	Control	6	6	6	6	6	6
	10 ppm	5	4	5	6	5	5
	40 ppm	7	7	7	7	7	6
	160 ppm	10	9	10	9	9	9
INTERNAL MASS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1
M. MANDIBULAR	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. EAR	Control	0	0	0	1	1	1
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	10 ppm	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 17

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 18

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. NECK	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 20

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	10 ppm	1	1	1	1	1	1	1	2	2	2	3	3	2	2
	40 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	1	1	1	2	1	2	2
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 22

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	1	1	2	1	1	1	1
M. BREAST	Control	2	2	2	2	2	1	1	1	1	2	2	2	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	2	1	1	1	2	2	2	2	2	2	2	2	1	2
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	1	1	1	1	1	0	0	0	0	1	1	2	3	3
	10 ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	40 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	160 ppm	1	1	1	1	2	2	2	3	3	3	3	3	3	3
M. ANTERIOR. DORSUM	Control	0	0	1	1	1	1	1	1	2	2	3	3	3	3
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	160 ppm	1	1	1	1	1	1	1	2	2	2	2	2	1	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	1	0	0	1	1	1	1	0	0	0	0	0	0
	10 ppm	0	0	0	0	1	1	0	2	1	1	1	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 24

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

STUDY NO. : 0704
 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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 26

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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 27

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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 28

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
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
ULCER	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	10 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	1	1	1	1	1	1	0	0	0	0	0	0	1	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CICATRIX	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 32

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ULCER	Control	1	1	1	1	1	1
	10 ppm	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	1
	160 ppm	0	0	0	1	1	0
CICATRIX	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
HEMORRHIAGE	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	1	0	0	0
	160 ppm	0	0	1	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	1	1
	160 ppm	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	1	0	0	0	0
	160 ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	10 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 34

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

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	10 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	160 ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 36

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

(HAN190)

BAIS 4

STUDY NO. : 0704
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
NON REMARKABLE	Control	47	47	47	47	47	46	46	46	46	45	45	45	45	46
	10 ppm	48	48	48	48	48	48	48	47	47	47	46	46	45	46
	40 ppm	46	46	46	47	47	47	47	46	46	46	46	46	46	45
	160 ppm	49	49	47	47	47	47	47	46	46	46	45	45	44	44

(HAN190)

BAIS 4

STUDY NO. : 0704
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
NON REMARKABLE	Control	45	45	44	42	42	42	43	43	43	43	43	42	43	43
	10 ppm	46	46	46	46	46	46	43	42	41	40	40	40	40	40
	40 ppm	45	45	44	43	43	43	43	42	41	41	41	40	40	40
	160 ppm	44	44	44	43	42	42	42	42	42	42	42	42	42	42

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
NON REMARKABLE	Control	43	42	42	41	40	39	39	38	37	36	35	34	33	33
	10 ppm	40	40	40	40	38	36	36	33	33	31	31	32	32	32
	40 ppm	37	37	35	33	34	32	32	32	32	32	32	32	32	30
	160 ppm	41	41	41	41	40	40	39	36	36	35	35	35	35	35

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
NON REMARKABLE	Control	32	32	30	29	29	28
	10 ppm	30	27	26	24	25	25
	40 ppm	29	29	29	29	28	27
	160 ppm	32	32	31	30	30	30

(HAN190)

BAIS 4

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0704
 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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAxic GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILÓERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 43

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAxic GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 i04

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 45

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 46

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 47

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 48

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	4	4	5	5	5	5
	10 ppm	4	4	6	6	6	6
	40 ppm	6	6	7	7	7	9
	160 ppm	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	7	7	7	7	7	8
	10 ppm	4	4	4	4	4	4
	40 ppm	3	3	3	3	3	3
	160 ppm	3	4	4	4	4	4
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
ATAxic GAIT	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	1	1	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 50

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	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
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 51

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	1	1	2	2	3	3	3	3	3	3	3	3	3
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	10 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	40 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	160 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 55

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 56

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED PERI-GENITALIA	Control	1	0	0	1	1	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
CATARACT	Control	1	1	1	1	1	1
	10 ppm	3	3	4	4	4	4
	40 ppm	1	1	1	1	1	1
	160 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	5	5	4	5	5	5
	10 ppm	7	7	7	7	8	8
	40 ppm	3	3	3	3	3	2
	160 ppm	7	7	7	7	7	7
INTERNAL MASS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. BREAST	Control	2	2	2	2	2	2
	10 ppm	3	3	4	4	5	5
	40 ppm	2	2	2	2	2	1
	160 ppm	3	3	3	3	4	4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 57

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 58

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 60

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 61

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	10 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	10 ppm	0	1	1	1	1	1	2	3	3	4	4	4	4	4
	40 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	160 ppm	1	1	2	1	1	2	2	2	2	2	3	3	3	3
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	1	1	1	1	1	1	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ANEMIA	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAUNDICE	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	10 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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
M. ABDOMEN	Control	1	1	1	2	2	2
	10 ppm	4	4	4	4	4	4
	40 ppm	1	1	1	1	1	1
	160 ppm	3	3	3	3	3	3
M. HINDLIMB	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. GENITALIA	Control	1	1	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	1	1	1	1	1	1
ANEMIA	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	1
	160 ppm	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
CRUSTA	Control	1	1	1	1	1	1
	10 ppm	1	1	1	1	1	1
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0

STUDY NO. : 0704
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
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	10 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	49	49	49	49	49	49	49	49	49	49
	10 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	40 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	50	50	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[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
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	48	48
	10 ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49
	40 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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
HEMORRIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NON REMARKABLE	Control	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	10 ppm	49	49	49	48	48	47	47	47	47	47	47	47	47	47
	40 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	160 ppm	49	49	49	49	49	49	49	48	48	48	48	48	48	48

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	48	48	48	48	48	48	48	48	47	47	47	47	47
	10 ppm	46	46	46	46	46	46	46	46	46	46	45	45	45	45
	40 ppm	50	50	50	50	49	49	49	49	49	49	49	49	49	49
	160 ppm	48	48	48	48	48	48	48	46	47	47	46	47	47	47

(HAN190)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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
HEMORRHIAGE	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	10 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	10 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	47	47	46	46	46	46	45	45	45	45	44	43	43	40
	10 ppm	45	45	44	44	44	44	42	42	42	42	42	42	42	42
	40 ppm	49	49	49	49	49	49	48	47	46	46	46	45	44	44
	160 ppm	47	46	46	46	46	46	46	47	47	47	47	46	46	46

(HAN190)

BAIS 4

STUDY NO. : 0704
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
HEMORRHIAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	0	0	1	0	0	1	0	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	40 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
NON REMARKABLE	Control	40	39	38	38	38	39	38	38	38	38	38	38	36	36
	10 ppm	42	41	41	40	40	40	39	39	39	36	35	34	33	32
	40 ppm	43	42	41	40	39	39	39	39	39	39	39	38	37	37
	160 ppm	46	45	44	45	44	43	41	41	41	40	40	40	40	39

(HAN190)

BAIS 4

STUDY NO. : 0704
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
HEMORRHIAGE	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
VAGINAL PROLAPSE	Control	0	0	0	0	0	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	0
	10 ppm	0	0	0	0	0	0
	40 ppm	0	0	0	0	0	0
	160 ppm	0	0	0	0	0	0
NON REMARKABLE	Control	33	34	34	32	32	32
	10 ppm	32	32	30	30	29	29
	40 ppm	37	37	36	36	36	35
	160 ppm	37	36	36	36	36	36

(HAN190)

BAIS 4

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		10 ppm			40 ppm			160 ppm		
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
1-7	157 (50)	50/50	155 (50)	99	50/50	157 (50)	100	50/50	149 (50)	95	50/50
2-7	189 (50)	50/50	188 (50)	99	50/50	190 (50)	101	50/50	180 (50)	95	50/50
3-7	214 (50)	50/50	214 (50)	100	50/50	214 (50)	100	50/50	205 (50)	96	50/50
4-7	234 (50)	50/50	233 (50)	100	50/50	235 (50)	100	50/50	225 (50)	96	50/50
5-7	252 (50)	50/50	251 (50)	100	50/50	253 (50)	100	50/50	241 (50)	96	50/50
6-7	268 (50)	50/50	267 (50)	100	50/50	267 (50)	100	50/50	253 (50)	94	50/50
7-7	283 (50)	50/50	279 (50)	99	50/50	281 (50)	99	50/50	265 (50)	94	50/50
8-7	296 (50)	50/50	292 (50)	99	50/50	292 (50)	99	50/50	275 (50)	93	50/50
9-7	306 (50)	50/50	301 (50)	98	50/50	302 (50)	99	50/50	284 (50)	93	50/50
10-7	315 (50)	50/50	310 (50)	98	50/50	310 (50)	98	50/50	291 (50)	92	50/50
11-7	323 (50)	50/50	317 (50)	98	50/50	317 (50)	98	50/50	295 (50)	91	50/50
12-7	330 (50)	50/50	325 (50)	98	50/50	323 (50)	98	50/50	299 (50)	91	50/50
13-7	336 (50)	50/50	331 (50)	99	50/50	329 (50)	98	50/50	303 (50)	90	50/50
14-7	342 (50)	50/50	336 (50)	98	50/50	335 (50)	98	50/50	308 (50)	90	50/50
18-7	359 (50)	50/50	354 (50)	99	50/50	353 (50)	98	50/50	323 (50)	90	50/50
22-7	374 (49)	49/50	369 (50)	99	50/50	368 (50)	98	50/50	334 (50)	89	50/50
26-7	387 (49)	49/50	381 (50)	98	50/50	381 (50)	98	50/50	342 (50)	88	50/50
30-7	398 (49)	49/50	391 (50)	98	50/50	390 (50)	98	50/50	350 (50)	88	50/50
34-7	409 (49)	49/50	403 (50)	99	50/50	399 (50)	98	50/50	361 (50)	88	50/50
38-7	417 (49)	49/50	412 (50)	99	50/50	409 (50)	98	50/50	370 (50)	89	50/50
42-7	425 (49)	49/50	419 (50)	99	50/50	416 (50)	98	50/50	376 (50)	88	50/50
46-7	432 (49)	49/50	427 (50)	99	50/50	423 (50)	98	50/50	379 (50)	88	50/50
50-7	437 (49)	49/50	432 (50)	99	50/50	429 (50)	98	50/50	387 (50)	89	50/50
54-7	444 (48)	48/50	439 (50)	99	50/50	434 (50)	98	50/50	389 (50)	88	50/50
58-7	447 (48)	48/50	445 (50)	100	50/50	438 (49)	98	49/50	395 (50)	88	50/50
62-7	450 (48)	48/50	447 (49)	99	49/50	442 (49)	98	49/50	399 (50)	89	50/50
66-7	454 (48)	48/50	449 (49)	99	49/50	443 (49)	98	48/50	398 (50)	88	50/50
70-7	455 (48)	48/50	453 (48)	100	48/50	446 (48)	98	48/50	403 (49)	89	49/50
74-7	456 (46)	46/50	452 (48)	99	48/50	446 (48)	98	48/50	405 (49)	89	49/50
78-7	457 (46)	46/50	455 (46)	100	46/50	447 (47)	98	47/50	403 (49)	88	49/50
82-7	456 (46)	46/50	456 (44)	100	44/50	446 (46)	98	46/50	403 (49)	88	49/50
86-7	455 (46)	46/50	455 (43)	100	43/50	444 (46)	98	46/50	402 (49)	88	49/50
90-7	449 (45)	44/50	450 (42)	100	42/50	445 (45)	99	45/50	400 (49)	89	49/50
94-7	450 (42)	42/50	441 (40)	98	39/50	442 (45)	98	45/50	401 (48)	89	48/50
98-7	442 (41)	41/50	437 (39)	99	39/50	432 (43)	98	43/50	384 (45)	87	45/50
102-7	434 (40)	40/50	429 (36)	99	36/50	424 (42)	98	42/50	381 (42)	88	42/50
104-7	431 (38)	38/50	424 (36)	98	36/50	422 (41)	98	41/50	375 (42)	87	42/50
< >:No. of effective animals. ():No. of measured animals											
Av. Wt.: g											

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0704
 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		10 ppm			40 ppm			160 ppm		
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
1-7	111 (50)	50/50	111 (50)	100	50/50	112 (50)	101	50/50	108 (50)	97	50/50
2-7	126 (50)	50/50	127 (50)	101	50/50	127 (50)	101	50/50	123 (50)	98	50/50
3-7	136 (50)	50/50	138 (50)	101	50/50	137 (50)	101	50/50	133 (50)	98	50/50
4-7	145 (50)	50/50	145 (50)	100	50/50	144 (50)	99	50/50	140 (50)	97	50/50
5-7	152 (50)	50/50	152 (50)	100	50/50	152 (50)	100	50/50	147 (50)	97	50/50
6-7	160 (50)	50/50	159 (50)	99	50/50	158 (50)	99	50/50	153 (50)	96	50/50
7-7	165 (50)	50/50	164 (50)	99	50/50	162 (50)	98	50/50	157 (50)	95	50/50
8-7	169 (50)	50/50	168 (50)	99	50/50	167 (50)	99	50/50	161 (50)	95	50/50
9-7	173 (50)	50/50	172 (50)	99	50/50	171 (50)	99	50/50	165 (50)	95	50/50
10-7	177 (50)	50/50	176 (50)	99	50/50	175 (50)	99	50/50	169 (50)	95	50/50
11-7	181 (50)	50/50	179 (50)	99	50/50	178 (50)	98	50/50	170 (50)	94	50/50
12-7	183 (50)	50/50	183 (50)	100	50/50	180 (50)	98	50/50	173 (50)	95	50/50
13-7	184 (50)	50/50	185 (50)	101	50/50	184 (50)	100	50/50	174 (50)	95	50/50
14-7	187 (50)	50/50	187 (50)	100	50/50	186 (50)	99	50/50	177 (50)	95	50/50
18-7	195 (50)	50/50	196 (50)	101	50/50	193 (50)	99	50/50	183 (50)	94	50/50
22-7	200 (50)	50/50	202 (50)	101	50/50	198 (50)	99	50/50	189 (50)	95	50/50
26-7	204 (50)	50/50	208 (50)	102	50/50	204 (50)	100	50/50	194 (50)	95	50/50
30-7	210 (50)	50/50	212 (50)	101	50/50	208 (50)	99	50/50	199 (50)	95	50/50
34-7	215 (50)	50/50	220 (50)	102	50/50	213 (50)	99	50/50	204 (50)	95	50/50
38-7	219 (50)	50/50	225 (50)	103	50/50	218 (50)	100	50/50	210 (50)	96	50/50
42-7	224 (50)	50/50	228 (50)	102	50/50	224 (50)	100	50/50	214 (50)	96	50/50
46-7	230 (50)	50/50	235 (50)	102	50/50	228 (50)	99	50/50	216 (50)	94	50/50
50-7	237 (50)	50/50	242 (50)	102	50/50	234 (50)	99	50/50	223 (50)	94	50/50
54-7	242 (49)	49/50	245 (50)	101	50/50	239 (50)	99	50/50	225 (50)	93	50/50
58-7	246 (49)	49/50	250 (50)	102	50/50	244 (50)	99	50/50	229 (49)	93	49/50
62-7	251 (49)	49/50	257 (50)	102	50/50	250 (50)	100	50/50	234 (49)	93	49/50
66-7	258 (49)	49/50	265 (50)	103	50/50	255 (50)	99	50/50	236 (49)	91	49/50
70-7	263 (49)	49/50	270 (49)	103	49/50	260 (50)	99	50/50	241 (48)	92	48/50
74-7	268 (49)	49/50	274 (49)	102	49/50	265 (50)	99	50/50	246 (48)	92	48/50
78-7	273 (48)	48/50	278 (49)	102	48/50	267 (49)	98	48/50	247 (48)	90	48/50
82-7	276 (46)	46/50	285 (47)	103	47/50	274 (48)	99	48/50	250 (48)	91	48/50
86-7	280 (44)	44/50	289 (47)	103	47/50	275 (47)	98	46/50	252 (48)	90	47/50
90-7	285 (43)	43/50	293 (46)	103	46/50	284 (44)	100	44/50	255 (47)	89	47/50
94-7	292 (41)	41/50	294 (45)	101	45/50	285 (43)	98	43/50	258 (47)	88	47/50
98-7	290 (41)	41/50	296 (43)	102	43/50	283 (42)	98	41/50	259 (45)	89	45/50
102-7	287 (38)	38/50	301 (40)	105	40/50	289 (40)	101	40/50	262 (43)	91	43/50
104-7	290 (37)	37/50	301 (40)	104	40/50	289 (39)	100	38/50	260 (43)	90	43/50
< >: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. : 0704
 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											
	1-7		2-7		3-7		4-7		5-7		6-7	
Control	157±	8	189±	9	214±	11	234±	11	252±	11	268±	13
10 ppm	155±	8	188±	9	214±	10	233±	11	251±	11	267±	13
40 ppm	157±	7	190±	9	214±	10	235±	10	253±	11	267±	11
160 ppm	149±	7**	180±	8**	205±	9**	225±	9**	241±	10**	253±	11**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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											
	8-7		9-7		10-7		11-7		12-7		13-7	
Control	296±	14	306±	15	315±	16	323±	17	330±	17	336±	18
10 ppm	292±	14	301±	15	310±	15	317±	16	325±	17	331±	18
40 ppm	292±	13	302±	13	310±	14	317±	14	323±	14*	329±	15
160 ppm	275±	12**	284±	13**	291±	13**	295±	14**	299±	15**	303±	15**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day											
	18-7		22-7		26-7		30-7		34-7		38-7	
Control	359±	18	374±	20	387±	22	398±	23	409±	24	417±	24
10 ppm	354±	19	369±	20	381±	22	391±	25	403±	26	412±	25
40 ppm	353±	16	368±	17	381±	19	390±	20	399±	22	409±	22
160 ppm	323±	16**	334±	17**	342±	17**	350±	18**	361±	19**	370±	20**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	46-7		50-7		54-7		58-7		62-7		66-7	
Control	432±	26	437±	28	444±	29	447±	28	450±	27	454±	29
10 ppm	427±	28	432±	29	439±	30	445±	37	447±	28	449±	29
40 ppm	423±	23	429±	25	434±	27	438±	26	442±	25	443±	35
160 ppm	379±	20**	387±	21**	389±	21**	395±	20**	399±	21**	398±	21**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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									
	74-7		78-7		82-7		86-7		90-7		94-7	
Control	456±	30	457±	31	456±	32	455±	35	449±	39	450±	35
10 ppm	452±	29	455±	27	456±	26	455±	29	450±	34	441±	47
40 ppm	446±	26	447±	26	446±	27	444±	30	445±	25	442±	24
160 ppm	405±	22**	403±	23**	403±	23**	402±	25**	400±	31**	401±	42**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration		week-day	
	102-7		104-7	
Control	434±	50	431±	43
10 ppm	429±	48	424±	65
40 ppm	424±	30	422±	28
160 ppm	381±	29**	375±	34**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0704
 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											
	1-7		2-7		3-7		4-7		5-7		6-7	
Control	111±	4	126±	5	136±	6	145±	7	152±	8	160±	9
10 ppm	111±	4	127±	5	138±	6	145±	6	152±	7	159±	8
40 ppm	112±	4	127±	5	137±	5	144±	6	152±	7	158±	7
160 ppm	108±	4**	123±	5**	133±	5**	140±	6**	147±	6**	153±	8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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									
	8-7		9-7		10-7		11-7		12-7		13-7	
Control	169±	10	173±	11	177±	12	181±	12	183±	12	184±	12
10 ppm	168±	9	172±	10	176±	9	179±	10	183±	9	185±	9
40 ppm	167±	8	171±	9	175±	10	178±	10	180±	10	184±	10
160 ppm	161±	10**	165±	10**	169±	10**	170±	10**	173±	10**	174±	10**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day									
	18-7		22-7		26-7		30-7		34-7		38-7	
Control	195±	13	200±	14	204±	14	210±	15	215±	15	219±	16
10 ppm	196±	11	202±	11	208±	12	212±	13	220±	15	225±	15
40 ppm	193±	10	198±	11	204±	11	208±	12	213±	13	218±	13
160 ppm	183±	11**	189±	11**	194±	12**	199±	12**	204±	13**	210±	13**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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									
	46-7		50-7		54-7		58-7		62-7		66-7	
Control	230±	19	237±	20	242±	20	246±	21	251±	22	258±	24
10 ppm	235±	17	242±	17	245±	19	250±	20	257±	21	265±	22
40 ppm	228±	14	234±	16	239±	18	244±	19	250±	21	255±	21
160 ppm	216±	14**	223±	15**	225±	15**	229±	16**	234±	16**	236±	17**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	74-7		78-7		82-7		86-7		90-7		94-7	
Control	268±	25	273±	26	276±	27	280±	27	285±	29	292±	23
10 ppm	274±	23	278±	25	285±	23	289±	23	293±	25	294±	30
40 ppm	265±	23	267±	30	274±	22	275±	26	284±	22	285±	25
160 ppm	246±	18**	247±	17**	250±	17**	252±	17**	255±	17**	258±	22**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
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			
	102-7		104-7	
Control	287±	33	290±	26
10 ppm	301±	29	301±	30
40 ppm	289±	33	289±	37
160 ppm	262±	16**	260±	16**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0704
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		10 ppm		40 ppm		160 ppm	
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	% of cont. <50>	No. of Surviv.	% of cont. <50>
1-7	14.4 (50)	50/50	14.0 (50)	97	50/50	14.0 (50)	97	50/50
2-7	16.5 (50)	50/50	16.5 (50)	100	50/50	16.2 (50)	98	50/50
3-7	17.6 (50)	50/50	17.4 (50)	99	50/50	16.9 (50)	96	50/50
4-7	17.6 (50)	50/50	17.2 (50)	98	50/50	16.8 (50)	95	50/50
5-7	17.2 (50)	50/50	17.0 (50)	99	50/50	16.5 (50)	96	50/50
6-7	17.4 (50)	50/50	17.1 (50)	98	50/50	16.4 (50)	94	50/50
7-7	17.2 (50)	50/50	16.7 (50)	97	50/50	16.3 (50)	95	50/50
8-7	17.4 (50)	50/50	16.9 (50)	97	50/50	16.4 (50)	94	50/50
9-7	17.4 (50)	50/50	16.8 (50)	97	50/50	16.4 (50)	94	50/50
10-7	17.2 (50)	50/50	16.5 (50)	96	50/50	16.0 (50)	93	50/50
11-7	17.0 (50)	50/50	16.4 (50)	96	50/50	15.8 (50)	93	50/50
12-7	16.9 (50)	50/50	16.4 (50)	97	50/50	15.8 (50)	93	50/50
13-7	16.7 (50)	50/50	16.3 (50)	98	50/50	15.6 (50)	93	50/50
14-7	16.6 (50)	50/50	16.3 (50)	98	50/50	15.5 (50)	93	50/50
18-7	16.5 (50)	50/50	16.2 (50)	98	50/50	15.7 (50)	95	50/50
22-7	16.5 (49)	49/50	16.2 (50)	98	50/50	15.9 (50)	96	50/50
26-7	16.8 (49)	49/50	16.4 (50)	98	50/50	16.0 (50)	95	50/50
30-7	16.8 (49)	49/50	16.2 (50)	96	50/50	15.9 (50)	95	50/50
34-7	16.9 (49)	49/50	16.5 (50)	98	50/50	16.0 (50)	95	50/50
38-7	16.7 (49)	49/50	16.5 (50)	99	50/50	16.1 (50)	96	50/50
42-7	17.0 (49)	49/50	16.8 (50)	99	50/50	16.4 (50)	96	50/50
46-7	16.9 (49)	49/50	16.6 (50)	98	50/50	16.3 (50)	96	50/50
50-7	16.7 (49)	49/50	16.7 (50)	100	50/50	16.4 (50)	98	50/50
54-7	16.8 (48)	48/50	16.8 (50)	100	50/50	16.5 (50)	98	50/50
58-7	16.8 (48)	48/50	16.5 (50)	98	50/50	16.1 (49)	96	49/50
62-7	16.7 (48)	48/50	16.6 (49)	99	49/50	16.6 (49)	99	49/50
66-7	17.4 (48)	48/50	17.0 (49)	98	49/50	16.5 (49)	95	48/50
70-7	17.0 (48)	48/50	17.1 (48)	101	48/50	16.7 (48)	98	48/50
74-7	17.0 (47)	46/50	16.9 (48)	99	48/50	16.3 (48)	96	48/50
78-7	16.9 (46)	46/50	16.3 (47)	96	46/50	15.9 (48)	94	47/50
82-7	17.0 (46)	46/50	17.0 (44)	100	44/50	16.7 (46)	98	46/50
86-7	16.9 (46)	46/50	16.3 (44)	96	43/50	16.6 (46)	98	46/50
90-7	16.2 (45)	44/50	15.8 (43)	98	42/50	16.3 (45)	101	45/50
94-7	16.7 (42)	42/50	15.3 (40)	92	39/50	16.2 (45)	97	45/50
98-7	16.5 (41)	41/50	15.6 (39)	95	39/50	15.4 (44)	93	43/50
102-7	16.6 (38)	40/50	15.6 (36)	94	36/50	16.0 (42)	96	42/50
104-7	15.4 (40)	38/50	15.3 (36)	99	36/50	15.8 (41)	103	41/50

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0704
 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		10 ppm			40 ppm			160 ppm		
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	10.7 (50)	50/50	10.4 (50)	97	50/50	10.6 (50)	99	50/50	9.6 (50)	90	50/50
2-7	11.5 (50)	50/50	11.7 (50)	102	50/50	11.3 (50)	98	50/50	10.7 (50)	93	50/50
3-7	11.5 (50)	50/50	11.6 (50)	101	50/50	11.3 (50)	98	50/50	10.8 (50)	94	50/50
4-7	11.8 (50)	50/50	11.5 (50)	97	50/50	11.1 (50)	94	50/50	11.1 (50)	94	50/50
5-7	11.4 (50)	50/50	11.3 (50)	99	50/50	10.8 (50)	95	50/50	10.3 (50)	90	50/50
6-7	11.5 (50)	50/50	11.4 (50)	99	50/50	11.0 (50)	96	50/50	10.7 (50)	93	50/50
7-7	11.4 (50)	50/50	10.9 (50)	96	50/50	10.6 (50)	93	50/50	10.3 (50)	90	50/50
8-7	11.4 (50)	50/50	11.0 (50)	96	50/50	10.5 (50)	92	50/50	10.3 (50)	90	50/50
9-7	11.4 (50)	50/50	11.1 (50)	97	50/50	10.5 (50)	92	50/50	10.6 (50)	93	50/50
10-7	11.4 (50)	50/50	11.2 (50)	98	50/50	10.7 (50)	94	50/50	10.4 (50)	91	50/50
11-7	11.2 (50)	50/50	11.0 (50)	98	50/50	10.5 (50)	94	50/50	10.1 (50)	90	50/50
12-7	11.0 (50)	50/50	10.8 (50)	98	50/50	10.5 (50)	95	50/50	10.3 (50)	94	50/50
13-7	10.5 (50)	50/50	10.8 (50)	103	50/50	10.3 (50)	98	50/50	9.7 (50)	92	50/50
14-7	10.9 (50)	50/50	11.1 (50)	102	50/50	10.4 (50)	95	50/50	10.1 (50)	93	50/50
18-7	11.2 (50)	50/50	11.2 (50)	100	50/50	10.4 (50)	93	50/50	10.3 (50)	92	50/50
22-7	11.0 (50)	50/50	10.8 (50)	98	50/50	10.3 (50)	94	50/50	10.3 (50)	94	50/50
26-7	10.9 (50)	50/50	11.0 (50)	101	50/50	10.5 (50)	96	50/50	10.4 (50)	95	50/50
30-7	11.2 (50)	50/50	10.6 (50)	95	50/50	10.4 (50)	93	50/50	10.8 (50)	96	50/50
34-7	11.0 (50)	50/50	11.3 (50)	103	50/50	10.4 (50)	95	50/50	10.7 (50)	97	50/50
38-7	11.2 (50)	50/50	11.2 (50)	100	50/50	10.6 (50)	95	50/50	10.9 (50)	97	50/50
42-7	11.1 (50)	50/50	10.9 (50)	98	50/50	11.0 (50)	99	50/50	10.8 (50)	97	50/50
46-7	10.9 (50)	50/50	10.9 (50)	100	50/50	10.7 (50)	98	50/50	10.5 (50)	96	50/50
50-7	11.5 (50)	50/50	11.6 (50)	101	50/50	11.1 (50)	97	50/50	11.3 (50)	98	50/50
54-7	11.3 (50)	49/50	11.2 (50)	99	50/50	11.2 (50)	99	50/50	11.2 (50)	99	50/50
58-7	11.4 (49)	49/50	11.1 (50)	97	50/50	11.0 (50)	96	50/50	10.7 (49)	94	49/50
62-7	11.6 (49)	49/50	11.8 (50)	102	50/50	11.5 (50)	99	50/50	11.6 (49)	100	49/50
66-7	11.9 (49)	49/50	12.1 (50)	102	50/50	11.5 (50)	97	50/50	11.5 (49)	97	49/50
70-7	12.0 (49)	49/50	12.1 (49)	101	49/50	11.8 (50)	98	50/50	11.4 (48)	95	48/50
74-7	11.6 (49)	49/50	11.9 (49)	103	49/50	11.7 (50)	101	50/50	11.7 (48)	101	48/50
78-7	11.6 (48)	48/50	11.8 (49)	102	48/50	11.5 (49)	99	48/50	11.2 (48)	97	48/50
82-7	11.9 (47)	46/50	12.6 (47)	106	47/50	12.0 (48)	101	48/50	11.7 (48)	98	48/50
86-7	11.6 (45)	44/50	12.5 (47)	108	47/50	11.8 (47)	102	46/50	11.6 (48)	100	47/50
90-7	12.3 (43)	43/50	12.7 (46)	103	46/50	12.2 (45)	99	44/50	11.6 (47)	94	47/50
94-7	12.5 (41)	41/50	11.6 (46)	93	45/50	12.0 (43)	96	43/50	12.3 (47)	98	47/50
98-7	11.6 (41)	41/50	12.2 (43)	105	43/50	11.6 (42)	100	41/50	11.5 (46)	99	45/50
102-7	12.0 (38)	38/50	13.1 (40)	109	40/50	12.4 (40)	103	40/50	11.9 (43)	99	43/50
104-7	11.8 (38)	37/50	12.5 (40)	106	40/50	11.4 (40)	97	38/50	11.3 (43)	96	43/50

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

Av. FC. : g

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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	14.4± 1.0	16.5± 1.1	17.6± 1.3	17.6± 1.2	17.2± 0.9	17.4± 1.1	17.2± 1.2
10 ppm	14.0± 1.1	16.5± 1.2	17.4± 1.3	17.2± 1.4	17.0± 1.4	17.1± 1.4	16.7± 1.3
40 ppm	14.0± 0.7	16.2± 1.0	16.9± 1.0**	16.8± 1.0**	16.5± 0.9**	16.4± 0.9**	16.3± 0.9**
160 ppm	13.2± 0.8**	15.1± 0.8**	16.2± 0.9**	16.5± 0.9**	15.6± 0.8**	15.5± 0.8**	15.5± 0.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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	17.4± 1.2	17.4± 1.2	17.2± 1.3	17.0± 1.3	16.9± 1.2	16.7± 1.3	16.6± 1.1
10 ppm	16.9± 1.1*	16.8± 1.3*	16.5± 1.2*	16.4± 1.1*	16.4± 1.3*	16.3± 1.2	16.3± 1.2
40 ppm	16.4± 0.7**	16.4± 0.8**	16.0± 0.9**	15.8± 0.9**	15.8± 0.8**	15.6± 0.8**	15.5± 0.8**
160 ppm	15.5± 0.8**	15.9± 0.9**	15.2± 0.8**	15.1± 0.9**	14.9± 0.9**	14.7± 0.8**	14.6± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	16.5± 1.7	16.5± 1.0	16.8± 1.1	16.8± 1.0	16.9± 1.1	16.7± 1.1	17.0± 1.0
10 ppm	16.2± 1.1	16.2± 1.2	16.4± 1.1	16.2± 1.1**	16.5± 1.1	16.5± 0.9	16.8± 1.2
40 ppm	15.7± 0.7**	15.9± 0.9*	16.0± 1.0**	15.9± 0.9**	16.0± 1.1**	16.1± 0.9**	16.4± 0.9**
160 ppm	14.9± 0.8**	14.7± 0.8**	14.8± 0.9**	15.5± 0.9**	15.7± 0.9**	15.7± 0.9**	15.9± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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 week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	16.9± 1.2	16.7± 1.8	16.8± 1.1	16.8± 0.9	16.7± 1.0	17.4± 1.0	17.0± 1.0
10 ppm	16.6± 1.2	16.7± 1.4	16.8± 1.1	16.5± 1.4	16.6± 1.1	17.0± 1.2	17.1± 1.4
40 ppm	16.3± 1.0**	16.4± 1.1	16.5± 1.0	16.1± 0.9**	16.6± 1.1	16.5± 2.7**	16.7± 0.9
160 ppm	15.4± 0.7**	15.9± 0.8**	15.9± 0.8**	15.5± 0.7**	16.3± 0.8	16.1± 0.8**	16.2± 0.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week-day(effective)						
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	17.0± 1.2	16.9± 1.1	17.0± 1.2	16.9± 1.3	16.2± 3.1	16.7± 1.5	16.5± 1.5
10 ppm	16.9± 1.4	16.3± 2.8	17.0± 1.2	16.3± 3.1	15.8± 3.0	15.3± 4.0	15.6± 2.6
40 ppm	16.3± 1.3*	15.9± 3.0	16.7± 1.0	16.6± 1.1	16.3± 1.4	16.2± 1.7	15.4± 3.2
160 ppm	16.2± 0.8**	15.7± 0.8**	16.1± 1.7**	16.1± 2.2**	15.8± 1.1**	16.4± 2.1	14.8± 2.5**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	16.6± 2.0	15.4± 5.3
10 ppm	15.6± 2.5	15.3± 2.8
40 ppm	16.0± 1.6	15.8± 1.7
160 ppm	15.2± 2.7**	14.7± 1.3**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0704
 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 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	10.7± 0.7	11.5± 0.8	11.5± 0.8	11.8± 1.1	11.4± 1.2	11.5± 1.0	11.4± 1.2
10 ppm	10.4± 0.7*	11.7± 0.7	11.6± 1.0	11.5± 0.9	11.3± 1.0	11.4± 0.9	10.9± 0.9
40 ppm	10.6± 0.6	11.3± 0.7	11.3± 0.7	11.1± 0.8**	10.8± 0.7*	11.0± 0.8**	10.6± 0.9**
160 ppm	9.6± 0.6**	10.7± 0.8**	10.8± 0.6**	11.1± 0.8**	10.3± 0.8**	10.7± 1.1**	10.3± 1.4**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 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 week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	11.4± 1.3	11.4± 1.5	11.4± 1.4	11.2± 1.1	11.0± 1.3	10.5± 1.1	10.9± 0.9
10 ppm	11.0± 1.3	11.1± 1.3	11.2± 1.2	11.0± 1.3	10.8± 0.8	10.8± 0.9	11.1± 1.3
40 ppm	10.5± 0.9**	10.5± 0.8**	10.7± 0.9**	10.5± 0.9**	10.5± 0.9	10.3± 0.8	10.4± 0.9*
160 ppm	10.3± 1.1**	10.6± 1.1**	10.4± 1.2**	10.1± 0.9**	10.3± 0.8**	9.7± 0.8**	10.1± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)						
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	11.2± 1.1	11.0± 1.2	10.9± 1.1	11.2± 1.1	11.0± 0.9	11.2± 1.1	11.1± 0.9
10 ppm	11.2± 1.3	10.8± 1.0	11.0± 1.2	10.6± 0.8*	11.3± 1.1	11.2± 1.1	10.9± 0.9
40 ppm	10.4± 0.8**	10.3± 0.8*	10.5± 0.8	10.4± 0.7**	10.4± 0.8**	10.6± 0.7**	11.0± 0.9
160 ppm	10.3± 1.0**	10.3± 1.0*	10.4± 1.1	10.8± 1.0	10.7± 1.0	10.9± 1.0	10.8± 1.0

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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	10.9± 0.9	11.5± 1.1	11.3± 1.6	11.4± 1.1	11.6± 0.9	11.9± 1.1	12.0± 0.9
10 ppm	10.9± 0.9	11.6± 0.9	11.2± 0.9	11.1± 0.9	11.8± 1.0	12.1± 1.1	12.1± 1.1
40 ppm	10.7± 0.6	11.1± 0.9*	11.2± 0.9	11.0± 0.9	11.5± 1.0	11.5± 0.9	11.8± 1.1
160 ppm	10.5± 0.8*	11.3± 1.2	11.2± 1.0	10.7± 0.8**	11.6± 1.1	11.5± 0.8	11.4± 0.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[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	11.6± 1.3	11.6± 1.6	11.9± 2.7	11.6± 2.2	12.3± 1.9	12.5± 1.1	11.6± 1.7
10 ppm	11.9± 1.4	11.8± 1.9	12.6± 1.0	12.5± 1.1	12.7± 1.2	11.6± 2.2	12.2± 1.6
40 ppm	11.7± 1.0	11.5± 1.2	12.0± 1.0	11.8± 2.1	12.2± 1.2	12.0± 1.0	11.6± 2.5
160 ppm	11.7± 0.9	11.2± 0.9*	11.7± 0.7**	11.6± 1.2	11.6± 1.0**	12.3± 1.2	11.5± 1.4

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	12.0± 2.4	11.8± 2.6
10 ppm	13.1± 1.2*	12.5± 1.3
40 ppm	12.4± 1.4	11.4± 2.5
160 ppm	11.9± 1.0*	11.3± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	38	8.19±	1.76	13.7±	3.0	40.7±	7.7	51.3±	9.7	17.0±	2.5	33.3±	1.8	899±	299
10 ppm	35	7.79±	2.17	12.5±	3.9	38.2±	9.6	50.8±	10.6	16.3±	3.1	32.1±	3.3	1009±	461
40 ppm	41	8.69±	1.12	14.4±	1.7	42.7±	4.6	49.3±	2.3	16.6±	1.1	33.6±	1.2	905±	199
160 ppm	42	8.63±	1.46	13.5±	2.8	40.8±	7.0	47.4±	2.5**	15.6±	1.3**	32.9±	1.5	924±	294

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0704

ANIMAL : RAT F344/DuCr1Cr1j[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	3.9±	2.7
10 ppm	35	7.4±	10.0
40 ppm	41	3.5±	2.1
160 ppm	42	4.1±	2.5

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	38	16.99±	51.73	46±	13	41±	13	5±	2	1±	1	0±	0	7±	21
10 ppm	35	10.71±	21.91	48±	14	41±	13	5±	2	1±	1	0±	0	5±	16
40 ppm	41	6.75±	3.93	45±	10	47±	10	5±	1	1±	1	0±	0	2±	1
160 ppm	42	6.80±	4.83	49±	10	44±	10	5±	1	1±	1	0±	0	2±	1

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0704

ANIMAL : RAT F344/DuCr1Cr1j[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 ³ /μl	
Control	37	8.17±	0.89	14.6±	1.7	42.1±	3.8	51.7±	2.2	17.9±	0.7	34.7±	1.3	700±	137
10 ppm	40	8.19±	0.91	14.7±	1.6	42.1±	4.2	51.5±	1.3	18.0±	0.3	35.0±	0.6	685±	103
40 ppm	38	8.12±	1.29	14.6±	2.1	41.8±	5.1	52.2±	5.3	18.1±	1.0	34.7±	1.4	631±	95
160 ppm	43	8.39±	0.52	15.1±	0.9	43.0±	2.4	51.2±	0.6	17.9±	0.2	35.0±	0.3	676±	81

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	37	3.2±	3.0
10 ppm	40	2.7±	2.1
40 ppm	38	3.2±	4.1
160 ppm	43	2.4±	0.6

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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 NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	37	15.84±	55.94	41±	14	50±	15	4±	1	2±	1	0±	0	4±	16
10 ppm	40	3.24±	1.80	40±	9	53±	9	4±	1	2±	1	0±	0	1±	1
40 ppm	38	3.99±	4.65	40±	6	54±	7	4±	1	2±	1	0±	0	1±	0
160 ppm	43	5.88±	17.39	39±	11	51±	12	4±	1	2±	1**	0±	0	3±	14

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	38	6.9±	0.4	2.8±	0.3	0.7±	0.1	0.25±	0.60	156±	18	202±	54	156±	89
10 ppm	35	6.5±	0.7*	2.8±	0.3	0.8±	0.1	0.33±	0.99	147±	32	181±	65	149±	105
40 ppm	41	6.9±	0.3	3.0±	0.2	0.8±	0.1	0.15±	0.06	155±	20	194±	55	141±	90
160 ppm	42	6.8±	0.3	2.9±	0.2	0.8±	0.1*	0.14±	0.04	146±	28	137±	37**	60±	28**

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0704

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 IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	38	289±	81	144±	245	49±	51	196±	354	352±	159	8±	5	111±	54
10 ppm	35	268±	86	121±	150	43±	28	159±	120	386±	228	7±	3	171±	367
40 ppm	41	274±	72	87±	44	39±	15	130±	56	344±	102	8±	5	106±	36
160 ppm	42	204±	41**	91±	26	38±	13	133±	93	349±	87	7±	3	118±	96

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0704

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	19.1±	4.1	0.6±	0.1	142±	2	3.6±	0.3	106±	2	10.6±	0.4	4.0±	0.5
10 ppm	35	19.1±	4.7	0.6±	0.1	142±	2	3.7±	0.3	106±	2	10.8±	1.4	4.1±	0.8
40 ppm	41	18.2±	2.3	0.6±	0.1	142±	1	3.6±	0.3	106±	2	10.6±	0.4	3.8±	0.6
160 ppm	42	19.2±	9.0	0.5±	0.0**	143±	1	3.7±	0.5	107±	2	10.4±	0.4	4.3±	1.6

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0704

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	37	7.2±	0.5	3.6±	0.3	1.0±	0.2	0.11±	0.02	144±	15	135±	44	88±	64
10 ppm	40	7.1±	0.4	3.7±	0.2	1.1±	0.1	0.11±	0.01	146±	13	145±	34	120±	73*
40 ppm	38	7.1±	0.6	3.6±	0.4	1.1±	0.1	0.54±	2.54	143±	18	141±	24	81±	53
160 ppm	43	7.1±	0.4	3.7±	0.2	1.1±	0.1*	0.12±	0.04	146±	12	133±	20	65±	34

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0704

ANIMAL : RAT F344/DuCr1Cr1j[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 IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	37	244±	71	118±	49	53±	23	150±	64	377±	1158	3±	4	94±	43
10 ppm	40	268±	63*	113±	56	54±	28	147±	60	161±	39	2±	1	83±	17
40 ppm	38	252±	43	151±	194	55±	34	236±	483	197±	97	3±	1	100±	81
160 ppm	43	242±	42	123±	91	51±	19	154±	105	192±	45	2±	1	92±	30

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0704

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	37	16.6±	2.1	0.5±	0.1	141±	1	3.3±	0.4	104±	2	10.5±	0.4	3.6±	0.7
10 ppm	40	16.1±	2.3	0.5±	0.1	141±	1	3.2±	0.3	104±	2	10.6±	0.4	3.6±	0.8
40 ppm	38	19.2±	16.3	0.5±	0.1	141±	2	3.4±	0.6	105±	3	10.6±	0.6	3.8±	1.7
160 ppm	43	18.0±	1.4**	0.5±	0.1	141±	1	3.3±	0.3	105±	2	10.5±	0.4	3.6±	0.7

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0704

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	pH								CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5	-		±	+	2+	3+	4+	-		±	+	2+	3+	4+	-		±	+	2+	3+	4+	-		+	2+	3+		
Control	38	0	1	7	5	18	7	0		0	0	0	0	21	17		38	0	0	0	0	0		34	4	0	0	0	0		37	0	0	1		
10 ppm	36	0	2	3	8	15	7	1		0	1	0	3	18	14		36	0	0	0	0	0		28	8	0	0	0	0		35	0	0	1		
40 ppm	41	0	0	4	7	20	9	1		0	0	0	0	24	17		41	0	0	0	0	0		30	11	0	0	0	0		41	0	0	0		
160 ppm	42	0	1	9	6	13	13	0		0	0	1	8	30	3	**	42	0	0	0	0	0		32	10	0	0	0	0		42	0	0	0		

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0704

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	38	0	0	0	0		38	0	0	0	0	
10 ppm	36	34	0	0	1	1		35	0	0	1	0	
40 ppm	41	40	0	0	0	1		41	0	0	0	0	
160 ppm	42	38	0	2	2	0		42	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0704

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	37	0	2	2	3	17	12	1		0	1	7	13	14	2		37	0	0	0	0	0		32	5	0	0	0	0		37	0	0	0	
10 ppm	40	0	2	6	10	13	9	0		0	0	7	10	16	7		40	0	0	0	0	0		27	12	0	1	0	0		39	1	0	0	
40 ppm	39	0	2	1	5	16	14	1		0	0	6	14	18	1		39	0	0	0	0	0		26	13	0	0	0	0	*	36	3	0	0	
160 ppm	43	0	1	2	4	15	21	0		0	0	5	17	20	1		43	0	0	0	0	0		28	15	0	0	0	0	*	43	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0704

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	37	37	0	0	0	0	0	37	0	0	0	0	0
10 ppm	40	40	0	0	0	0	0	40	0	0	0	0	0
40 ppm	39	35	0	0	1	3		39	0	0	0	0	
160 ppm	43	43	0	0	0	0	0	43	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 4

TABLE I 1

GROSS FINDINGS : MALE

ALL ANIMALS

STUDY NO. : 0704
 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	10 ppm		40 ppm		160 ppm	
			50 (%)	50 (%)	50 (%)	50 (%)	50 (%)	50 (%)	
skin/app	nodule		1 (2)	1 (2)	6 (12)	4 (8)			
subcutis	edema		1 (2)	0 (0)	0 (0)	0 (0)			
	jaundice		0 (0)	3 (6)	2 (4)	0 (0)			
	mass		13 (26)	8 (16)	5 (10)	13 (26)			
lung	red		1 (2)	0 (0)	0 (0)	0 (0)			
	white zone		2 (4)	1 (2)	0 (0)	2 (4)			
	red zone		0 (0)	0 (0)	0 (0)	2 (4)			
	nodule		0 (0)	0 (0)	0 (0)	1 (2)			
lymph node	enlarged		0 (0)	1 (2)	2 (4)	2 (4)			
thymus	enlarged		0 (0)	0 (0)	1 (2)	0 (0)			
spleen	enlarged		4 (8)	9 (18)	6 (12)	2 (4)			
	white zone		0 (0)	1 (2)	1 (2)	0 (0)			
	nodule		1 (2)	2 (4)	0 (0)	0 (0)			
oral cavity	nodule		1 (2)	0 (0)	0 (0)	0 (0)			
tongue	nodule		0 (0)	0 (0)	1 (2)	0 (0)			
stomach	nodule		1 (2)	0 (0)	0 (0)	0 (0)			
	forestomach:ulcer		0 (0)	5 (10)	1 (2)	2 (4)			
	forestomach:thick		0 (0)	0 (0)	1 (2)	0 (0)			
small intes	nodule		0 (0)	1 (2)	0 (0)	0 (0)			
large intes	dilated		0 (0)	1 (2)	0 (0)	0 (0)			
liver	enlarged		1 (2)	0 (0)	0 (0)	0 (0)			
	pale		0 (0)	0 (0)	1 (2)	0 (0)			

STUDY NO. : 0704
 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		10 ppm		40 ppm		160 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		3	(6)	0	(0)	0	(0)	1	(2)
	rough		2	(4)	1	(2)	1	(2)	0	(0)
	herniation		4	(8)	10	(20)	4	(8)	6	(12)
pancreas	nodule		0	(0)	0	(0)	0	(0)	1	(2)
kidney	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	cyst		0	(0)	0	(0)	1	(2)	0	(0)
	granular		3	(6)	3	(6)	1	(2)	0	(0)
pituitary	enlarged		7	(14)	4	(8)	3	(6)	1	(2)
	red zone		6	(12)	4	(8)	2	(4)	5	(10)
	nodule		1	(2)	1	(2)	1	(2)	2	(4)
thyroid	enlarged		7	(14)	5	(10)	5	(10)	4	(8)
	nodule		1	(2)	0	(0)	2	(4)	0	(0)
adrenal	enlarged		2	(4)	0	(0)	3	(6)	1	(2)
testis	nodule		36	(72)	39	(78)	45	(90)	42	(84)
brain	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	yellow zone		0	(0)	0	(0)	0	(0)	1	(2)
eye	white		3	(6)	4	(8)	7	(14)	2	(4)
Zymbal gl	nodule		0	(0)	0	(0)	2	(4)	0	(0)
muscle	nodule		0	(0)	1	(2)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(2)	0	(0)	1	(2)
mediastinum	mass		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
peritoneum	nodule		2	(4)	4	(8)	5	(10)	2	(4)
	thick		0	(0)	0	(0)	1	(2)	0	(0)
retroperit	mass		1	(2)	0	(0)	0	(0)	0	(0)
abdominal c	ascites		1	(2)	3	(6)	4	(8)	1	(2)
thoracic ca	pleural fluid		2	(4)	1	(2)	0	(0)	1	(2)
other	tail:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	lip:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	ear:nodule		1	(2)	0	(0)	0	(0)	0	(0)
	hindlimb:nodule		0	(0)	1	(2)	0	(0)	0	(0)
whole body	anemic		0	(0)	0	(0)	1	(2)	2	(4)

(HPT080)

BAIS 4

TABLE I 2

GROSS FINDINGS : MALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr.j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	10 ppm	40 ppm	160 ppm
			12 (%)	14 (%)	9 (%)	8 (%)
skin/app	nodule		1 (8)	0 (0)	0 (0)	0 (0)
subcutis	edema		1 (8)	0 (0)	0 (0)	0 (0)
	jaundice		0 (0)	2 (14)	2 (22)	0 (0)
	mass		4 (33)	2 (14)	1 (11)	5 (63)
lung	red		1 (8)	0 (0)	0 (0)	0 (0)
	white zone		0 (0)	1 (7)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (13)
lymph node	enlarged		0 (0)	0 (0)	2 (22)	1 (13)
thymus	enlarged		0 (0)	0 (0)	1 (11)	0 (0)
spleen	enlarged		2 (17)	3 (21)	3 (33)	0 (0)
	nodule		1 (8)	1 (7)	0 (0)	0 (0)
oral cavity	nodule		1 (8)	0 (0)	0 (0)	0 (0)
stomach	nodule		1 (8)	0 (0)	0 (0)	0 (0)
	forestomach:ulcer		0 (0)	4 (29)	1 (11)	2 (25)
	forestomach:thick		0 (0)	0 (0)	1 (11)	0 (0)
large intes	dilated		0 (0)	1 (7)	0 (0)	0 (0)
liver	enlarged		1 (8)	0 (0)	0 (0)	0 (0)
	pale		0 (0)	0 (0)	1 (11)	0 (0)
	white zone		0 (0)	1 (7)	0 (0)	0 (0)
	herniation		1 (8)	2 (14)	1 (11)	2 (25)
kidney	white zone		0 (0)	1 (7)	0 (0)	0 (0)
	granular		1 (8)	1 (7)	0 (0)	0 (0)

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			12	(%)	14	(%)	9	(%)	8	(%)
pituitary	enlarged		4	(33)	3	(21)	1	(11)	1	(13)
	red zone		1	(8)	1	(7)	0	(0)	2	(25)
thyroid	enlarged		2	(17)	0	(0)	0	(0)	0	(0)
testis	nodule		2	(17)	3	(21)	6	(67)	3	(38)
brain	red zone		0	(0)	0	(0)	1	(11)	0	(0)
	yellow zone		0	(0)	0	(0)	0	(0)	1	(13)
Zymbal gl	nodule		0	(0)	0	(0)	2	(22)	0	(0)
muscle	nodule		0	(0)	1	(7)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(7)	0	(0)	1	(13)
peritoneum	nodule		1	(8)	0	(0)	1	(11)	1	(13)
	thick		0	(0)	0	(0)	1	(11)	0	(0)
retroperit	mass		1	(8)	0	(0)	0	(0)	0	(0)
abdominal c	ascites		1	(8)	0	(0)	1	(11)	1	(13)
thoracic ca	pleural fluid		2	(17)	1	(7)	0	(0)	1	(13)
other	hindlimb:nodule		0	(0)	1	(7)	0	(0)	0	(0)
whole body	anemic		0	(0)	0	(0)	1	(11)	2	(25)

(HPT080)

BAIS 4

TABLE I 3

GROSS FINDINGS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			38	(%)	36	(%)	41	(%)	42	(%)
skin/app	nodule		0	(0)	1	(3)	6	(15)	4	(10)
subcutis	jaundice		0	(0)	1	(3)	0	(0)	0	(0)
	mass		9	(24)	6	(17)	4	(10)	8	(19)
lung	white zone		2	(5)	0	(0)	0	(0)	2	(5)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
lymph node	enlarged		0	(0)	1	(3)	0	(0)	1	(2)
spleen	enlarged		2	(5)	6	(17)	3	(7)	2	(5)
	white zone		0	(0)	1	(3)	1	(2)	0	(0)
	nodule		0	(0)	1	(3)	0	(0)	0	(0)
tongue	nodule		0	(0)	0	(0)	1	(2)	0	(0)
stomach	forestomach:ulcer		0	(0)	1	(3)	0	(0)	0	(0)
small intes	nodule		0	(0)	1	(3)	0	(0)	0	(0)
liver	nodule		3	(8)	0	(0)	0	(0)	1	(2)
	rough		2	(5)	1	(3)	1	(2)	0	(0)
	herniation		3	(8)	8	(22)	3	(7)	4	(10)
pancreas	nodule		0	(0)	0	(0)	0	(0)	1	(2)
kidney	cyst		0	(0)	0	(0)	1	(2)	0	(0)
	granular		2	(5)	2	(6)	1	(2)	0	(0)
pituitary	enlarged		3	(8)	1	(3)	2	(5)	0	(0)
	red zone		5	(13)	3	(8)	2	(5)	3	(7)
	nodule		1	(3)	1	(3)	1	(2)	2	(5)

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			38	(%)	36	(%)	41	(%)	42	(%)
thyroid	enlarged		5	(13)	5	(14)	5	(12)	4	(10)
	nodule		1	(3)	0	(0)	2	(5)	0	(0)
adrenal	enlarged		2	(5)	0	(0)	3	(7)	1	(2)
testis	nodule		34	(89)	36	(100)	39	(95)	39	(93)
eye	white		3	(8)	4	(11)	7	(17)	2	(5)
mediastinum	mass		0	(0)	0	(0)	0	(0)	1	(2)
peritoneum	nodule		1	(3)	4	(11)	4	(10)	1	(2)
abdominal c	ascites		0	(0)	3	(8)	3	(7)	0	(0)
other	tail:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	lip:nodule		0	(0)	0	(0)	0	(0)	1	(2)
	ear:nodule		1	(3)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 4

TABLE I 4

GROSS FINDINGS : FEMALE
ALL ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		1	(2)	0	(0)	0	(0)	0	(0)
	scab		1	(2)	1	(2)	0	(0)	1	(2)
subcutis	edema		0	(0)	0	(0)	1	(2)	0	(0)
	jaundice		1	(2)	0	(0)	1	(2)	1	(2)
	mass		9	(18)	10	(20)	6	(12)	9	(18)
lung	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	1	(2)	0	(0)	0	(0)
lymph node	enlarged		1	(2)	0	(0)	1	(2)	1	(2)
spleen	enlarged		7	(14)	2	(4)	3	(6)	3	(6)
	white zone		0	(0)	0	(0)	1	(2)	0	(0)
heart	white zone		0	(0)	0	(0)	0	(0)	1	(2)
tongue	nodule		0	(0)	0	(0)	1	(2)	1	(2)
salivary gl	nodule		1	(2)	0	(0)	1	(2)	0	(0)
stomach	forestomach:ulcer		0	(0)	0	(0)	1	(2)	0	(0)
	forestomach:thick		1	(2)	0	(0)	0	(0)	0	(0)
	glandular stomach:ulcer		1	(2)	0	(0)	0	(0)	0	(0)
	glandular stomach:nodule		0	(0)	0	(0)	0	(0)	1	(2)
liver	white zone		0	(0)	0	(0)	1	(2)	1	(2)
	red zone		0	(0)	0	(0)	1	(2)	0	(0)
	deformed		0	(0)	0	(0)	0	(0)	1	(2)
	rough		1	(2)	0	(0)	1	(2)	1	(2)
	adhesion		1	(2)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	herniation		12	(24)	5	(10)	5	(10)	6	(12)
kidney	white zone		0	(0)	1	(2)	0	(0)	0	(0)
	yellow zone		1	(2)	0	(0)	0	(0)	0	(0)
	cyst		0	(0)	1	(2)	0	(0)	0	(0)
	granular		1	(2)	0	(0)	0	(0)	0	(0)
	hydronephrosis		0	(0)	0	(0)	0	(0)	1	(2)
urin bladd	urine:marked retention		0	(0)	0	(0)	1	(2)	0	(0)
pituitary	enlarged		7	(14)	8	(16)	8	(16)	7	(14)
	red zone		8	(16)	12	(24)	7	(14)	14	(28)
	nodule		4	(8)	3	(6)	3	(6)	5	(10)
thyroid	enlarged		2	(4)	2	(4)	1	(2)	0	(0)
	nodule		1	(2)	0	(0)	1	(2)	1	(2)
adrenal	enlarged		0	(0)	1	(2)	1	(2)	0	(0)
ovary	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
	cyst		2	(4)	1	(2)	3	(6)	0	(0)
uterus	nodule		7	(14)	5	(10)	1	(2)	7	(14)
	dilated lumen		0	(0)	0	(0)	0	(0)	1	(2)
vagina	nodule		1	(2)	0	(0)	0	(0)	0	(0)
brain	red zone		1	(2)	1	(2)	1	(2)	0	(0)
spinal cord	red zone		0	(0)	1	(2)	1	(2)	0	(0)
eye	white		1	(2)	5	(10)	1	(2)	1	(2)
	red		1	(2)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
Zymbal gl	nodule		0	(0)	1	(2)	0	(0)	1	(2)
peritoneum	nodule		0	(0)	2	(4)	0	(0)	1	(2)
retroperit	mass		0	(0)	0	(0)	1	(2)	1	(2)
abdominal c	ascites		0	(0)	2	(4)	1	(2)	1	(2)
thoracic ca	pleural fluid		0	(0)	0	(0)	3	(6)	1	(2)
other	upper jaw:nodule		1	(2)	0	(0)	0	(0)	0	(0)
	lower jaw:nodule		1	(2)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 4

TABLE I 5

GROSS FINDINGS : FEMALE
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name	Control	10 ppm		40 ppm		160 ppm	
		NO. of Animals	13 (%)	10 (%)	12 (%)	12 (%)	7 (%)		
skin/app	nodule		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		
subcutis	jaundice		1 (8)	0 (0)	0 (0)	0 (0)	1 (14)		
	mass		3 (23)	2 (20)	3 (25)	3 (25)	1 (14)		
lung	nodule		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)		
lymph node	enlarged		1 (8)	0 (0)	1 (8)	1 (8)	1 (14)		
spleen	enlarged		5 (38)	2 (20)	2 (17)	2 (17)	2 (29)		
	white zone		0 (0)	0 (0)	1 (8)	1 (8)	0 (0)		
stomach	forestomach:ulcer		0 (0)	0 (0)	1 (8)	1 (8)	0 (0)		
	glandular stomach:ulcer		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		
liver	white zone		0 (0)	0 (0)	1 (8)	1 (8)	0 (0)		
	deformed		0 (0)	0 (0)	0 (0)	0 (0)	1 (14)		
	rough		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		
	adhesion		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		
	herniation		2 (15)	1 (10)	0 (0)	0 (0)	0 (0)		
kidney	yellow zone		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		
	hydronephrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (14)		
urin bladd	urine:marked retention		0 (0)	0 (0)	1 (8)	1 (8)	0 (0)		
pituitary	enlarged		4 (31)	4 (40)	5 (42)	5 (42)	4 (57)		
	red zone		2 (15)	1 (10)	3 (25)	3 (25)	1 (14)		
thyroid	enlarged		0 (0)	0 (0)	1 (8)	1 (8)	0 (0)		
adrenal	enlarged		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)		
ovary	cyst		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)		

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ_____	Findings_____	Group Name	Control	10 ppm		40 ppm		160 ppm	
		NO. of Animals	13 (%)	10 (%)	12 (%)	7 (%)			
uterus	nodule		2 (15)	2 (20)	0 (0)	1 (14)			
vagina	nodule		1 (8)	0 (0)	0 (0)	0 (0)			
brain	red zone		1 (8)	1 (10)	1 (8)	0 (0)			
spinal cord	red zone		0 (0)	1 (10)	1 (8)	0 (0)			
eye	white		0 (0)	1 (10)	0 (0)	1 (14)			
	red		1 (8)	0 (0)	0 (0)	0 (0)			
Zymbal gl	nodule		0 (0)	1 (10)	0 (0)	0 (0)			
peritoneum	nodule		0 (0)	2 (20)	0 (0)	1 (14)			
retroperit	mass		0 (0)	0 (0)	1 (8)	1 (14)			
abdominal c	ascites		0 (0)	2 (20)	1 (8)	1 (14)			
thoracic ca	pleural fluid		0 (0)	0 (0)	2 (17)	1 (14)			
other	upper jaw:nodule		1 (8)	0 (0)	0 (0)	0 (0)			
	lower jaw:nodule		1 (8)	0 (0)	0 (0)	0 (0)			

(HPT080)

BAIS 4

TABLE I 6

GROSS FINDINGS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	10 ppm	40 ppm	160 ppm
			37 (%)	40 (%)	38 (%)	43 (%)
skin/app	scab		1 (3)	1 (3)	0 (0)	1 (2)
subcutis	edema		0 (0)	0 (0)	1 (3)	0 (0)
	jaundice		0 (0)	0 (0)	1 (3)	0 (0)
	mass		6 (16)	8 (20)	3 (8)	8 (19)
lung	white zone		1 (3)	0 (0)	0 (0)	0 (0)
spleen	enlarged		2 (5)	0 (0)	1 (3)	1 (2)
heart	white zone		0 (0)	0 (0)	0 (0)	1 (2)
tongue	nodule		0 (0)	0 (0)	1 (3)	1 (2)
salivary gl	nodule		1 (3)	0 (0)	1 (3)	0 (0)
stomach	forestomach:thick		1 (3)	0 (0)	0 (0)	0 (0)
	glandular stomach:nodule		0 (0)	0 (0)	0 (0)	1 (2)
liver	white zone		0 (0)	0 (0)	0 (0)	1 (2)
	red zone		0 (0)	0 (0)	1 (3)	0 (0)
	rough		0 (0)	0 (0)	1 (3)	1 (2)
	herniation		10 (27)	4 (10)	5 (13)	6 (14)
kidney	white zone		0 (0)	1 (3)	0 (0)	0 (0)
	cyst		0 (0)	1 (3)	0 (0)	0 (0)
	granular		1 (3)	0 (0)	0 (0)	0 (0)
pituitary	enlarged		3 (8)	4 (10)	3 (8)	3 (7)
	red zone		6 (16)	11 (28)	4 (11)	13 (30)
	nodule		4 (11)	3 (8)	3 (8)	5 (12)
thyroid	enlarged		2 (5)	2 (5)	0 (0)	0 (0)

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		10 ppm		40 ppm		160 ppm	
			37	(%)	40	(%)	38	(%)	43	(%)
thyroid	nodule		1	(3)	0	(0)	1	(3)	1	(2)
adrenal	enlarged		0	(0)	0	(0)	1	(3)	0	(0)
ovary	enlarged		0	(0)	0	(0)	1	(3)	0	(0)
	cyst		1	(3)	1	(3)	3	(8)	0	(0)
uterus	nodule		5	(14)	3	(8)	1	(3)	6	(14)
	dilated lumen		0	(0)	0	(0)	0	(0)	1	(2)
eye	white		1	(3)	4	(10)	1	(3)	0	(0)
Zymbal gl	nodule		0	(0)	0	(0)	0	(0)	1	(2)
thoracic ca	pleural fluid		0	(0)	0	(0)	1	(3)	0	(0)

(HPT080)

BAIS 4

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0704
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	406±	44	0.172±	0.545	3.491±	1.391	1.264±	0.102	1.415±	0.290	2.763±	0.192
10 ppm	35	391±	41	0.078±	0.011	3.555±	1.649	1.246±	0.103	1.393±	0.330	2.686±	0.264
40 ppm	41	398±	28	0.082±	0.027	3.558±	1.089	1.228±	0.093	1.337±	0.105	2.730±	0.234
160 ppm	42	353±	35**	0.078±	0.022	3.664±	1.096	1.169±	0.101**	1.315±	0.129**	2.544±	0.177**

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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	1.397±	1.292	11.793±	1.477	2.100±	0.074
10 ppm	35	1.547±	1.887	11.263±	1.851	2.096±	0.042
40 ppm	41	1.081±	0.567	11.085±	1.146	2.106±	0.051
160 ppm	42	0.897±	0.360**	9.597±	0.966**	2.106±	0.046

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

Test of Dunnett

(IICL040)

BAIS 4

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	37	272± 26	0.076± 0.010	0.221± 0.631	0.881± 0.070	0.957± 0.120	1.771± 0.219
10 ppm	40	283± 27	0.076± 0.008	0.116± 0.020	0.884± 0.069	0.915± 0.064	1.800± 0.154
40 ppm	38	271± 37	0.077± 0.028	0.302± 0.879	0.883± 0.095	0.941± 0.129	1.755± 0.122
160 ppm	43	244± 15**	0.073± 0.008	0.113± 0.018	0.854± 0.059	0.934± 0.187	1.682± 0.114

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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	37	0.733±	0.837	6.473±	0.861	1.912±	0.045
10 ppm	40	0.508±	0.076	6.713±	1.067	1.899±	0.040
40 ppm	38	0.568±	0.380	6.431±	1.110	1.910±	0.037
160 ppm	43	0.583±	0.626	6.090±	0.831	1.892±	0.077

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

Test of Dunnett

(IICL040)

BAIS 4

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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	406± 44	0.044± 0.142	0.860± 0.325	0.315± 0.041	0.352± 0.084	0.689± 0.092
10 ppm	35	391± 41	0.020± 0.004	0.903± 0.393	0.323± 0.055	0.363± 0.112	0.694± 0.093
40 ppm	41	398± 28	0.021± 0.006	0.895± 0.267	0.310± 0.028	0.338± 0.038	0.690± 0.076
160 ppm	42	353± 35**	0.022± 0.007	1.034± 0.301	0.333± 0.025**	0.380± 0.101**	0.733± 0.146

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

Test of Dunnett

(IICL042)

BAIS 4

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0704
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	37	272± 26	0.028± 0.004	0.078± 0.212	0.326± 0.032	0.356± 0.064	0.654± 0.082
10 ppm	40	283± 27	0.027± 0.003	0.041± 0.007	0.314± 0.030	0.325± 0.027**	0.639± 0.054
40 ppm	38	271± 37	0.029± 0.011	0.110± 0.312	0.330± 0.061	0.354± 0.090	0.656± 0.096
160 ppm	43	244± 15**	0.030± 0.004**	0.046± 0.007	0.351± 0.033**	0.384± 0.083**	0.690± 0.040**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
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	0.351± 0.341	2.924± 0.399	0.523± 0.058
10 ppm	35	0.410± 0.540	2.892± 0.464	0.542± 0.064
40 ppm	41	0.274± 0.158	2.791± 0.246	0.532± 0.041
160 ppm	42	0.253± 0.093	2.734± 0.266	0.604± 0.083**

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

Test of Dunnett

(ICL042)

BAIS 4

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	37	0.282± 0.366	2.387± 0.300	0.709± 0.074
10 ppm	40	0.180± 0.030	2.364± 0.212	0.677± 0.069
40 ppm	38	0.222± 0.225	2.419± 0.739	0.716± 0.098
160 ppm	43	0.242± 0.271	2.494± 0.322**	0.777± 0.047**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE L1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
ALL ANIMALS

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	epidermal cyst		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)	(0)	(0)	(0)
	duct ectasia:sebaceous gland		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	thrombus		0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia		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)
	eosinophilic change:olfactory epithelium		31	5	1	0	28	6	0	0	31	11	0	0	20	25	5	0 **
			(62)	(10)	(2)	(0)	(56)	(12)	(0)	(0)	(62)	(22)	(0)	(0)	(40)	(50)	(10)	(0)
	eosinophilic change:respiratory epithelium		1	0	0	0	2	0	0	0	4	0	0	0	3	0	0	0
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	inflammation:foreign body		12	2	0	0	17	2	0	0	15	0	0	0	10	1	0	0
			(24)	(4)	(0)	(0)	(34)	(4)	(0)	(0)	(30)	(0)	(0)	(0)	(20)	(2)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

(Respiratory system)

nasal cavit

disarrangement:olfactory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

7000 *

(14) (0) (0) (0)

26000 **

(52) (0) (0) (0)

respiratory metaplasia:olfactory epithelium

1000

(2) (0) (0) (0)

0000

(0) (0) (0) (0)

6000

(12) (0) (0) (0)

46000 **

(92) (0) (0) (0)

respiratory metaplasia:gland

2000

(4) (0) (0) (0)

3000

(6) (0) (0) (0)

5000

(10) (0) (0) (0)

12000 **

(24) (0) (0) (0)

squamous cell metaplasia:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

2000

(4) (0) (0) (0)

29100 **

(58) (2) (0) (0)

squamous cell metaplasia:olfactory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

5000

(10) (0) (0) (0)

32000 **

(64) (0) (0) (0)

ulcer:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

1000

(2) (0) (0) (0)

1000

(2) (0) (0) (0)

ulcer:olfactory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

1000

(2) (0) (0) (0)

hyperplasia:transitional epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

1000

(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control				10 ppm				40 ppm				160 ppm				
		No. of Animals on Study	50				50				50				50				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
(Respiratory system)																			
nasal cavit	atrophy:olfactory epithelium		<50>				<50>				<50>				<50>				
		0	0	0	0	2	0	0	0	15	0	0	0 **	40	0	0	0 **		
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	
lung	congestion		<50>				<50>				<50>				<50>				
		0	4	0	0	0	4	0	0	0	1	0	0	0	1	0	0		
				(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	hemorrhage		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)	(0)
	edema		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)
	inflammatory infiltration		3	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
					(6)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	granulomatous inflammation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
					(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	accumulation of foamy cells		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
					(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		2	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	0
					(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study				Control				10 ppm				40 ppm				160 ppm			
		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		<50>				<50>				<50>				<50>				<50>			
	congestion	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	granulation	1	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	increased hematopoiesis	2	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
spleen		<50>				<50>				<50>				<50>				<50>			
	atrophy	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	congestion	7	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0	6	0	0	0
		(14)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	deposit of hemosiderin	18	0	0	0	15	3	0	0	20	0	0	0	20	0	0	0	14	1	0	0
		(36)	(0)	(0)	(0)	(30)	(6)	(0)	(0)	(40)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(28)	(2)	(0)	(0)
	fibrosis:focal	0	0	0	0	0	2	0	0	2	1	0	0	2	1	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis	3	1	1	0	1	3	3	0	3	2	0	0	3	2	0	0	4	2	0	0
		(6)	(2)	(2)	(0)	(2)	(6)	(6)	(0)	(6)	(4)	(0)	(0)	(6)	(4)	(0)	(0)	(8)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	myocardial fibrosis		20	1	0	0	21	0	0	0	14	0	0	0	14	1	0	0
			(40)	(2)	(0)	(0)	(42)	(0)	(0)	(0)	(28)	(0)	(0)	(28)	(28)	(2)	(0)	(0)
	endomyocardial fibrosis		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)
artery/aort			<50>				<50>				<50>				<50>			
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tongue			<50>				<50>				<50>				<50>			
	arteritis		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)
esophagus			<50>				<50>				<50>				<50>			
	inflammation		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<50>				<50>				<50>				<50>			
	erosion:forestomach		1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach		0	0	0	0	2	4	0	0 *	2	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(4)	(8)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:forestomach		3	0	0	0	6	1	0	0	4	1	0	0	2	0	0	0
			(6)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(8)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	erosion:glandular stomach		2	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	ulcer:glandular stomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes			<50>				<50>				<50>				<50>			
	dilatation		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<50>				<50>				<50>				<50>			
	herniation		4	0	0	0	10	0	0	0	4	0	0	0	6	0	0	0
			(8)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	necrosis:central		0	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0
			(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	necrosis:focal		0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change		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)	(0)	(0)	(0)
	granulation		5	1	0	0	2	0	0	0	3	0	0	0	4	0	0	0
		(10)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	
	clear cell focus		1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	acidophilic cell focus		6	0	0	0	10	3	0	0	8	1	0	0	2	1	0	0
			(12)	(0)	(0)	(0)	(20)	(6)	(0)	(0)	(16)	(2)	(0)	(0)	(4)	(2)	(0)	(0)
	basophilic cell focus		2	1	0	0	3	1	0	0	4	0	0	0	3	0	0	0
			(4)	(2)	(0)	(0)	(6)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	mixed cell focus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	bile duct hyperplasia		<50>				<50>				<50>				<50>			
		13	33	0	0	16	32	0	0	13	36	0	0	16	32	0	0	
		(26)	(66)	(0)	(0)	(32)	(64)	(0)	(0)	(26)	(72)	(0)	(0)	(32)	(64)	(0)	(0)	
pancreas	atrophy		<50>				<50>				<50>				<50>			
		19	1	0	0	13	1	0	0	21	4	2	0	19	1	1	0	
		(38)	(2)	(0)	(0)	(26)	(2)	(0)	(0)	(42)	(8)	(4)	(0)	(38)	(2)	(2)	(0)	
	arteritis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	
	islet cell hyperplasia		1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
{Urinary system}																		
kidney	cyst		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	deposit of hemosiderin		0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 9

Organ_____	Findings_____	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Urinary system}

kidney

chronic nephropathy	<div><50></div> <div>1322121</div> <div>(26) (44) (24) (2)</div>	<div><50></div> <div>2115101</div> <div>(42) (30) (20) (2)</div>	<div><50></div> <div>1522120</div> <div>(30) (44) (24) (0)</div>	<div><50></div> <div>36820**</div> <div>(72) (16) (4) (0)</div>
tubular necrosis	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0200</div> <div>(0) (4) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>
mineralization:pelvis	<div>3000</div> <div>(6) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>
mineralization:cortex	<div>1000</div> <div>(2) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>
deposit of brown pigment:proximal tubule	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0100</div> <div>(0) (2) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>

{Endocrine system}

pituitary

angiectasis	<div><50></div> <div>0000</div> <div>(0) (0) (0) (0)</div>	<div><50></div> <div>0000</div> <div>(0) (0) (0) (0)</div>	<div><50></div> <div>0000</div> <div>(0) (0) (0) (0)</div>	<div><50></div> <div>1100</div> <div>(2) (2) (0) (0)</div>
cyst	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>0000</div> <div>(0) (0) (0) (0)</div>	<div>1000</div> <div>(2) (0) (0) (0)</div>	<div>1000</div> <div>(2) (0) (0) (0)</div>

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. : 0704
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 No. of Animals on Study				Control 50				10 ppm 50				40 ppm 50				160 ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
pituitary	hyperplasia	13 (26)	2 (4)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	9 (18)	4 (8)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Rathke pouch	2 (4)	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)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid	C-cell hyperplasia	10 (20)	2 (4)	0 (0)	0 (0)	7 (14)	1 (2)	0 (0)	0 (0)	11 (22)	1 (2)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal follicular cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cystic thyroid follicle	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal	peliosis-like lesion	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0704
 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				10 ppm				40 ppm				160 ppm			
		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>			
	hyperplasia:cortical cell	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:medulla	6	0	0	0	6	0	0	0	3	0	0	0	6	0	0	0	6	0	0	0
		(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	focal fatty change:cortex	2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	(2)	(0)	(0)	(0)
		(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
(Reproductive system)																					
testis		<50>				<50>				<50>				<50>				<50>			
	mineralization	4	0	0	0	4	0	0	0	4	0	0	0	7	0	0	0	(14)	(0)	(0)	(0)
		(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	arteritis	7	0	0	0	5	0	0	0	3	0	0	0	4	0	0	0	(8)	(0)	(0)	(0)
		(14)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	interstitial cell hyperplasia	18	0	0	0	15	0	0	0	17	0	0	0	10	0	0	0	(20)	(0)	(0)	(0)
		(36)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
prostate		<50>				<50>				<50>				<50>				<50>			
	inflammation	3	4	0	0	7	0	0	0	4	0	0	0	4	1	0	0	(8)	(2)	(0)	(0)
		(6)	(8)	(0)	(0)	(14)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(2)	(0)	(0)	(8)	(2)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
prostate	hyperplasia		<50>				<50>				<50>				<50>			
			6	0	0	0	5	0	0	0	7	0	0	0	10	1	0	0
			(12)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(20)	(2)	(0)	(0)
mammary gl	galactoceles		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
(Special sense organs/appendage)																		
eye	cataract		<50>				<50>				<50>				<50>			
			5	0	0	0	4	0	0	0	8	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	retinal atrophy		1	3	2	0	0	0	3	1	3	2	6	0	0	0	2	0
			(2)	(6)	(4)	(0)	(0)	(0)	(6)	(2)	(6)	(4)	(12)	(0)	(0)	(0)	(4)	(0)
	keratitis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cornea		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ	Findings	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study				50				50				50			
		Grade				1				1				1			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

Harder gl		<50>				<50>				<50>				<50>			
	lymphocytic infiltration	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation:foreign body	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

TABLE L2

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<12>				<14>				< 9>				< 8>			
	duct ectasia:sebaceous gland		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis			<12>				<14>				< 9>				< 8>			
	metastasis:thyroid tumor		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)	(13)	(0)	(0)
{Respiratory system}																		
nasal cavit			<12>				<14>				< 9>				< 8>			
	thrombus		0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(7)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		5	0	0	0	5	1	0	0	3	1	0	0	5	2	1	0 *
			(42)	(0)	(0)	(0)	(36)	(7)	(0)	(0)	(33)	(11)	(0)	(0)	(63)	(25)	(13)	(0)
	eosinophilic change:respiratory epithelium		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
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 (c) c : b / a * 100
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STUDY NO. : 0704
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REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<12>				<14>				< 9>				< 8>			
	inflammation:foreign body		1	0	0	0	4	0	0	0	2	0	0	0	2	1	0	0
			(8)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(25)	(13)	(0)	(0)
	disarrangement:olfactory epithelium		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)	(63)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(63)	(0)	(0)	(0)
	respiratory metaplasia:gland		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(38)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	5	1	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(63)	(13)	(0)	(0)
	squamous cell metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(63)	(0)	(0)	(0)
	ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	3	0	0	0	6	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(75)	(0)	(0)	(0)

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

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

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(c) c : b / a * 100

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

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

PAGE : 3

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
larynx			<12>				<14>				< 9>				< 8>			
	metastasis:thyroid tumor		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)	(13)	(0)	(0)	(0)	(0)
trachea			<12>				<14>				< 9>				< 8>			
	metastasis:thyroid tumor		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<12>				<14>				< 9>				< 8>			
	congestion		0	4	0	0	0	3	0	0	0	1	0	0	0	1	0	0
			(0)	(33)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(13)	(0)	(0)
			<12>				<14>				< 9>				< 8>			
	hemorrhage		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<12>				<14>				< 9>				< 8>			
	edema		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<12>				<14>				< 9>				< 8>			
	inflammatory infiltration		3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(25)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	1	0	0	2	1	0	0	3	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(14)	(7)	(0)	(0)	(33)	(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)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				10 ppm				40 ppm				160 ppm			
			12				14				9				8			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
<hr/>																		
{Respiratory system}																		
lung			<12>				<14>				< 9>				< 8>			
	metastasis:thyroid tumor		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
	metastasis:subcutis tumor		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	metastasis:Zymbal gland tumor		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}																		
bone marrow			<12>				<14>				< 9>				< 8>			
	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	leukemic cell infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis		2 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (44)	0 (0)	0 (0)	0 (0)	2 (25)	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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name	Control				10 ppm				40 ppm				160 ppm				
		No. of Animals on Study	12				14				9				8				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Hematopoietic system)																			
lymph node			<12>				<14>				< 9>				< 8>				
	leukemic cell infiltration		1 (8)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	metastasis:thyroid tumor		0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	
thymus			<12>				<14>				< 9>				< 8>				
	leukemic cell infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen			<12>				<14>				< 9>				< 8>				
	atrophy		0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		3 (25)	0 (0)	0 (0)	0 (0)	5 (36)	3 (21)	0 (0)	0 (0)	3 (33)	0 (0)	0 (0)	0 (0)	3 (38)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		2 (17)	1 (8)	1 (8)	0 (0)	0 (0)	2 (14)	0 (0)	0 (0)	1 (11)	2 (22)	0 (0)	0 (0)	2 (25)	2 (25)	0 (0)	0 (0)	0 (0)
(Circulatory system)																			
heart			<12>				<14>				< 9>				< 8>				
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myocardial fibrosis		1	1	0	0	6	0	0	0	2	0	0	0	4	1	0	0
			(8)	(8)	(0)	(0)	(43)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(50)	(13)	(0)	(0)
{Digestive system}																		
esophagus			<12>				<14>				< 9>				< 8>			
	inflammation		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 12				10 ppm 14				40 ppm 9				160 ppm 8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			<12>				<14>				< 9>				< 8>			
	erosion:forestomach		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach		0	0	0	0	0	4	0	0	2	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(29)	(0)	(0)	(22)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
	hyperplasia:forestomach		1	0	0	0	3	1	0	0	2	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(21)	(7)	(0)	(0)	(22)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
	erosion:glandular stomach		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	ulcer:glandular stomach		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
small intes			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes			<12>				<14>				< 9>				< 8>			
	dilatation		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
large intes			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<12>				<14>				< 9>				< 8>			
	herniation		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
	necrosis:central		0	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0
			(0)	(17)	(0)	(0)	(0)	(7)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(13)	(0)
	necrosis:focal		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		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)	(13)	(0)	(0)	(0)	
	leukemic cell infiltration		0	1	0	0	3	0	0	0	2	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(21)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<12>				<14>				< 9>				< 8>			
	basophilic cell focus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bile duct hyperplasia		5	3	0	0	6	6	0	0	5	3	0	0	3	4	0	0
			(42)	(25)	(0)	(0)	(43)	(43)	(0)	(0)	(56)	(33)	(0)	(0)	(38)	(50)	(0)	(0)
pancreas			<12>				<14>				< 9>				< 8>			
	atrophy		1	0	0	0	2	1	0	0	0	1	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(14)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(25)	(0)	(0)	(0)
	leukemic cell infiltration		0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<12>				<14>				< 9>				< 8>			
	deposit of hemosiderin		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 12				10 ppm 14				40 ppm 9				160 ppm 8			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy		3	5	1	1	8	3	0	1	7	1	0	0	4	0	0	0
			(25)	(42)	(8)	(8)	(57)	(21)	(0)	(7)	(78)	(11)	(0)	(0)	(50)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:pelvis		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortex		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd			<12>				<14>				< 9>				< 8>			
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																		
pituitary			<12>				<14>				< 9>				< 8>			
	angiectasis		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)	(13)	(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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<12>				<14>				< 9>				< 8>			
	hyperplasia		1 (8)	0 (0)	0 (0)	0 (0)	2 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
	Rathke pouch		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid			<12>				<14>				< 9>				< 8>			
	C-cell hyperplasia		1 (8)	0 (0)	0 (0)	0 (0)	1 (7)	1 (7)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
	cystic thyroid follicle		1 (8)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal			<12>				<14>				< 9>				< 8>			
	extramedullary hematopoiesis		1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		1 (8)	0 (0)	0 (0)	0 (0)	2 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (25)	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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis	mineralization		<12>				<14>				< 9>				< 8>			
			2	0	0	0	3	0	0	0	1	0	0	0	3	0	0	0
			(17)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(38)	(0)	(0)	(0)
	arteritis		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(17)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	interstitial cell hyperplasia		5	0	0	0	5	0	0	0	3	0	0	0	3	0	0	0
			(42)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(38)	(0)	(0)	(0)
semin ves	leukemic cell infiltration		<12>				<14>				< 9>				< 8>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate	inflammation		<12>				<14>				< 9>				< 8>			
			0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	leukemic cell infiltration		<12>				<14>				< 9>				< 8>			
			1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(11)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye			<12>				<14>				< 9>				< 8>			
	keratitis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle			<12>				<14>				< 9>				< 8>			
	metastasis:subcutis tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:vertebra tumor		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
pleura			<12>				<14>				< 9>				< 8>			
	metastasis:thyroid tumor		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)	(13)	(0)	(0)
	metastasis:bone tumor		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	12				14				9				8			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Body cavities}																		
mediastinum	leukemic cell infiltration		<12>				<14>				< 9>				< 8>			
		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)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
peritoneum	leukemic cell infiltration		<12>				<14>				< 9>				< 8>			
		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)	(11)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:subcutis tumor		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
retroperit	metastasis:muscle tumor		<12>				<14>				< 9>				< 8>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS4

TABLE L3

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
SACRIFICED ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<38>				<36>				<41>				<42>			
	epidermal cyst		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<38>				<36>				<41>				<42>			
	thrombus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		26	5	1	0	23	5	0	0	28	10	0	0	15	23	4	0 **
			(68)	(13)	(3)	(0)	(64)	(14)	(0)	(0)	(68)	(24)	(0)	(0)	(36)	(55)	(10)	(0)
	eosinophilic change:respiratory epithelium		1	0	0	0	1	0	0	0	4	0	0	0	3	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	inflammation:foreign body		11	2	0	0	13	2	0	0	13	0	0	0	8	0	0	0
			(29)	(5)	(0)	(0)	(36)	(6)	(0)	(0)	(32)	(0)	(0)	(0)	(19)	(0)	(0)	(0)
	disarrangement:olfactory epithelium		0	0	0	0	0	0	0	0	7	0	0	0 *	21	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		1	0	0	0	0	0	0	0	5	0	0	0	41	0	0	0 **
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(98)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name		Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	Grade	38				36				41				42			
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}																			
nasal cavit		<38>				<36>				<41>				<42>					
	respiratory metaplasia:gland	2	0	0	0	3	0	0	0	5	0	0	0	9	0	0	0		
		(5)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(21)	(0)	(0)	(0)		
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0 **		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(57)	(0)	(0)	(0)		
	squamous cell metaplasia:olfactory epithelium	0	0	0	0	0	0	0	0	4	0	0	0	27	0	0	0 **		
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(64)	(0)	(0)	(0)			
	ulcer: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	1	0	0	0		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)		
	atrophy:olfactory epithelium	0	0	0	0	2	0	0	0	12	0	0	0 **	34	0	0	0 **		
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(81)	(0)	(0)	(0)		
larynx		<38>				<36>				<41>				<42>					
	metastasis:thyroid tumor	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)		
lung		<38>				<36>				<41>				<42>					
	congestion	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
{Respiratory system}																		
lung			<38>				<36>				<41>				<42>			
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulomatous inflammation		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	leukemic cell infiltration		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	metastasis:thyroid tumor		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)
	metastasis:vertebra tumor		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)
	accumulation of foamy cells		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

(Hematopoietic system)

bone marrow			<38>				<36>				<41>				<42>			
	congestion		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Crij[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<38>				<36>				<41>				<42>			
	granulation		1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	leukemic cell infiltration		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis		0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<38>				<36>				<41>				<42>			
	metastasis:thyroid tumor		1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
spleen			<38>				<36>				<41>				<42>			
	congestion		7	0	0	0	5	0	0	0	5	0	0	0	6	0	0	0
			(18)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	deposit of hemosiderin		15	0	0	0	10	0	0	0	17	0	0	0	11	1	0	0
			(39)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(41)	(0)	(0)	(0)	(26)	(2)	(0)	(0)
	fibrosis:focal		0	0	0	0	0	2	0	0	2	1	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(5)	(2)	(0)	(0)	(5)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<38>				<36>				<41>				<42>			
	extramedullary hematopoiesis		1	0	0	0	1	1	3	0	2	0	0	0	2	0	0	0 *
			(3)	(0)	(0)	(0)	(3)	(3)	(8)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
{Circulatory system}																		
heart			<38>				<36>				<41>				<42>			
	myocardial fibrosis		19	0	0	0	15	0	0	0	12	0	0	0	10	0	0	0 *
			(50)	(0)	(0)	(0)	(42)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(24)	(0)	(0)	(0)
	endomyocardial fibrosis		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort			<38>				<36>				<41>				<42>			
	arteritis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tongue			<38>				<36>				<41>				<42>			
	arteritis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
salivary gl			<38>				<36>				<41>				<42>			
	metastasis:subcutis tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<38>				<36>				<41>				<42>			
	erosion:forestomach		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		2	0	0	0	3	0	0	0	2	1	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<38>				<36>				<41>				<42>			
	herniation		3	0	0	0	9	0	0	0	3	0	0	0	4	0	0	0
			(8)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 7

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<38>				<36>				<41>				<42>			
	granulation		5	1	0	0	2	0	0	0	3	0	0	0	3	0	0	0
			(13)	(3)	(0)	(0)	(6)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	leukemic cell infiltration		3	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	clear cell focus		1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		6	0	0	0	10	3	0	0	8	1	0	0	2	1	0	0
		(16)	(0)	(0)	(0)	(28)	(8)	(0)	(0)	(20)	(2)	(0)	(0)	(5)	(2)	(0)	(0)	
	basophilic cell focus		2	1	0	0	2	1	0	0	4	0	0	0	3	0	0	0
			(5)	(3)	(0)	(0)	(6)	(3)	(0)	(0)	(10)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	mixed cell focus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bile duct hyperplasia		8	30	0	0	10	26	0	0	8	33	0	0	13	28	0	0
			(21)	(79)	(0)	(0)	(28)	(72)	(0)	(0)	(20)	(80)	(0)	(0)	(31)	(67)	(0)	(0)
pancreas			<38>				<36>				<41>				<42>			
	atrophy		18	1	0	0	11	0	0	0	21	3	2	0	17	1	1	0
			(47)	(3)	(0)	(0)	(31)	(0)	(0)	(0)	(51)	(7)	(5)	(0)	(40)	(2)	(2)	(0)

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 8

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
pancreas			<38>				<36>				<41>				<42>			
	metastasis:peritoneum tumor		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)
	arteritis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	islet cell hyperplasia		1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
			(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
(Urinary system)																		
kidney			<38>				<36>				<41>				<42>			
	cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy		10	17	11	0	13	12	10	0	8	21	12	0	32	8	2	0 **
			(26)	(45)	(29)	(0)	(36)	(33)	(28)	(0)	(20)	(51)	(29)	(0)	(76)	(19)	(5)	(0)
	tubular necrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<38>				<36>				<41>				<42>			
	mineralization:pelvis		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment:proximal tubule		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Endocrine system)																		
pituitary			<38>				<36>				<41>				<42>			
	angiectasis		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)
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia		12 (32)	2 (5)	0 (0)	0 (0)	9 (25)	0 (0)	0 (0)	0 (0)	9 (22)	4 (10)	0 (0)	0 (0)	7 (17)	0 (0)	0 (0)	0 (0)
	Rathke pouch		2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid			<38>				<36>				<41>				<42>			
	C-cell hyperplasia		9 (24)	2 (5)	0 (0)	0 (0)	6 (17)	0 (0)	0 (0)	0 (0)	10 (24)	1 (2)	0 (0)	0 (0)	8 (19)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
thyroid			<38>				<36>				<41>				<42>			
	focal follicular cell hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic thyroid follicle		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<38>				<36>				<41>				<42>			
	peliosis-like lesion		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:cortical cell		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:medulla		5	0	0	0	4	0	0	0	3	0	0	0	4	0	0	0
			(13)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	focal fatty change:cortex		2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
(Reproductive system)																		
testis			<38>				<36>				<41>				<42>			
	mineralization		2	0	0	0	1	0	0	0	3	0	0	0	4	0	0	0
			(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

Organ	Findings	Control				10 ppm				40 ppm				160 ppm			
		38				36				41				42			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																	
testis		<38>				<36>				<41>				<42>			
	arteritis	5	0	0	0	4	0	0	0	3	0	0	0	4	0	0	0
		(13)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	interstitial cell hyperplasia	13	0	0	0	10	0	0	0	14	0	0	0	7	0	0	0
		(34)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(17)	(0)	(0)	(0)
epididymis		<38>				<36>				<41>				<42>			
	metastasis:peritoneum tumor	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate		<38>				<36>				<41>				<42>			
	inflammation	3	3	0	0	6	0	0	0	3	0	0	0	4	1	0	0
		(8)	(8)	(0)	(0)	(17)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(10)	(2)	(0)	(0)
	hyperplasia	6	0	0	0	5	0	0	0	7	0	0	0	10	1	0	0
		(16)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(24)	(2)	(0)	(0)
mammary gl		<38>				<36>				<41>				<42>			
	galactoceles	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Special sense organs/appendage}																	
eye		<38>				<36>				<41>				<42>			
	cataract	5	0	0	0	4	0	0	0	8	0	0	0	2	0	0	0
		(13)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(5)	(0)	(0)	(0)

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 12

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	38				36				41				42			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye			<38>				<36>				<41>				<42>			
	retinal atrophy		1	3	2	0	0	0	3	1	3	2	6	0	0	0	2	0
			(3)	(8)	(5)	(0)	(0)	(0)	(8)	(3)	(7)	(5)	(15)	(0)	(0)	(0)	(5)	(0)
	mineralization:cornea		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<38>				<36>				<41>				<42>			
	lymphocytic infiltration		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation:foreign body		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
mediastinum			<38>				<36>				<41>				<42>			
	metastasis:thyroid tumor		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

TABLE L4

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
ALL ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 14

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	scab		1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	thrombus		0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		11	29	8	0	8	33	9	0	5	27	17	0	1	23	26	0 **
			(22)	(58)	(16)	(0)	(16)	(66)	(18)	(0)	(10)	(54)	(34)	(0)	(2)	(46)	(52)	(0)
	eosinophilic change:respiratory epithelium		45	0	0	0	46	0	0	0	46	0	0	0	49	0	0	0
			(90)	(0)	(0)	(0)	(92)	(0)	(0)	(0)	(92)	(0)	(0)	(0)	(98)	(0)	(0)	(0)
	inflammation:foreign body		3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	disarrangement:olfactory epithelium		0	0	0	0	0	0	0	0	7	0	0	0 *	34	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(68)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		1	0	0	0	1	0	0	0	3	0	0	0	44	0	0	0 **
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(88)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control				10 ppm				40 ppm				160 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	respiratory metaplasia:gland		<50>				<50>				<50>				<50>			
			5	0	0	0	6	0	0	0	7	0	0	0	20	0	0	0 **
			(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(48)	(0)	(0)	(0)
	squamous cell metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	3	0	0	0	31	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(62)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	3	0	0	0	12	0	0	0 **	39	0	0	0 **
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(78)	(0)	(0)	(0)
lung	congestion		<50>				<50>				<50>				<50>			
			0	2	0	0	0	3	0	0	0	4	0	0	0	1	0	0
			(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)
	inflammatory infiltration		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulomatous inflammation		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)
	accumulation of foamy cells		3	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
			(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<50>				<50>				<50>				<50>			
	bronchiolar-alveolar cell hyperplasia		1	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<50>				<50>				<50>				<50>			
	granulation		3	1	0	0	2	0	0	0	4	0	0	0	4	0	0	0
			(6)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	increased hematopoiesis		1	0	0	0	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)
lymph node			<50>				<50>				<50>				<50>			
	lymphadenitis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<50>				<50>				<50>				<50>			
	congestion		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		30	9	0	0	34	9	0	0	32	12	0	0	33	12	0	0
			(60)	(18)	(0)	(0)	(68)	(18)	(0)	(0)	(64)	(24)	(0)	(0)	(66)	(24)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	fibrosis:focal		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		5	3	3	0	9	2	1	0	5	2	0	0	2	1	1	0
			(10)	(6)	(6)	(0)	(18)	(4)	(2)	(0)	(10)	(4)	(0)	(0)	(4)	(2)	(2)	(0)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	mineralization		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)
	myocardial fibrosis		7	0	0	0	8	0	0	0	10	0	0	0	5	0	0	0
			(14)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	endomyocardial fibrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
(Digestive system)																		
tongue			<50>				<50>				<50>				<50>			
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

		Group Name	Control				10 ppm				40 ppm				160 ppm				
		No. of Animals on Study	50				50				50				50				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Digestive system}																			
tongue	arteritis		<50>				<50>				<50>				<50>				
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
stomach	inflammatory infiltration		<50>				<50>				<50>				<50>				
		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)	(0)	(0)	(0)	
	erosion:forestomach		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach		3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
			(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		6	0	0	0	3	0	0	0	5	0	0	0	2	0	0	0	0
			(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:glandular stomach		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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 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				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
small intes	hyperplasia		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	herniation		<50>				<50>				<50>				<50>			
		12	0	0	0	5	0	0	0	5	0	0	0	6	0	0	0	
			(24)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	peliosis-like lesion		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)
	necrosis:central		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
				(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:central		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
				(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic 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)
	granulation		10	1	0	0	7	0	0	0	7	1	0	0	7	0	0	0
				(20)	(2)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(2)	(0)	(0)	(14)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	clear cell focus		0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	basophilic cell focus		18	0	0	0	20	1	0	0	16	0	0	0	20	1	0	0
			(36)	(0)	(0)	(0)	(40)	(2)	(0)	(0)	(32)	(0)	(0)	(0)	(40)	(2)	(0)	(0)
	bile duct hyperplasia		8	0	0	0	8	1	0	0	6	0	0	0	8	0	0	0
			(16)	(0)	(0)	(0)	(16)	(2)	(0)	(0)	(12)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
pancreas			<50>				<50>				<50>				<50>			
	atrophy		4	0	0	0	7	0	1	0	3	0	0	0	4	2	0	0
			(8)	(0)	(0)	(0)	(14)	(0)	(2)	(0)	(6)	(0)	(0)	(0)	(8)	(4)	(0)	(0)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	necrosis:focal		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney																		
			<50>				<50>				<50>				<50>			
deposit of hemosiderin			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			25	5	1	0	28	8	1	0	27	4	1	0	33	1	0	0
			(50)	(10)	(2)	(0)	(56)	(16)	(2)	(0)	(54)	(8)	(2)	(0)	(66)	(2)	(0)	(0)
tubular necrosis			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
mineralization: pelvis			0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
mineralization: cortex			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)
regeneration: proximal tubule			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
urothelial hyperplasia: pelvis			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)
mineralization: inner stripe, outer medulla			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 : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	dilated pelvis		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	focal fatty change		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)
urin bladd			<50>				<50>				<50>				<50>			
	squamous cell metaplasia		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)
	simple hyperplasia:transitional epithelium		0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	angiectasis		0	3	0	0	3	2	0	0	1	0	0	0	0	1	0	0
			(0)	(6)	(0)	(0)	(6)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	cyst		1	0	0	0	4	0	0	0	3	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<50>				<50>				<50>				<50>			
	hyperplasia		11 (22)	6 (12)	0 (0)	0 (0)	10 (20)	2 (4)	0 (0)	0 (0)	12 (24)	4 (8)	0 (0)	0 (0)	11 (22)	6 (12)	0 (0)	0 (0)
	Rathke pouch		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
thyroid			<50>				<50>				<50>				<50>			
	C-cell hyperplasia		23 (46)	0 (0)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)	20 (40)	0 (0)	0 (0)	0 (0)	23 (46)	0 (0)	0 (0)	0 (0)
	focal follicular cell hyperplasia		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)	
adrenal			<50>				<50>				<50>				<50>			
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		1 (2)	2 (4)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	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. : 0704
 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 No. of Animals on Study Grade	Control				10 ppm				40 ppm				160 ppm			
			50				50				50				50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
ovary	cyst		<50>				<50>				<50>				<50>			
			1	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
uterus	hyperplasia:gland		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	cystic endometrial hyperplasia		2	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
mammary gl	galactoceles		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	gliosis		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	cataract		<50>				<50>				<50>				<50>			
			1	0	0	0	5	0	0	0	1	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	50				50				50				50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	retinal atrophy		2	0	1	0	2	1	4	0	0	1	1	0	5	1	1	0
			(4)	(0)	(2)	(0)	(4)	(2)	(8)	(0)	(0)	(2)	(2)	(0)	(10)	(2)	(2)	(0)
	keratitis		0	0	1	0	1	2	0	0	0	1	0	0	1	0	0	0
			(0)	(0)	(2)	(0)	(2)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
	hemorrhage:cornea		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<50>				<50>				<50>				<50>			
	lymphocytic infiltration		2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
nasolacr d			<50>				<50>				<50>				<50>			
	inflammation		2	4	0	0	0	5	0	0	0	2	0	0	0	0	0	0 *
			(4)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
(Musculoskeletal system)																		
muscle			<50>				<50>				<50>				<50>			
	atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0704
 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				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study				50				50				50				50			
		Grade				1				2				3				4			
						1				2				3				4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			

{Musculoskeletal system}

bone	osteosclerosis	<50>				<50>				<50>				<50>			
		5	3	1	0	3	3	0	0	4	2	0	0	5	2	1	0
		(10)	(6)	(2)	(0)	(6)	(6)	(0)	(0)	(8)	(4)	(0)	(0)	(10)	(4)	(2)	(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)

BAIS4

TABLE L5

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 15

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<13>				<10>				<12>				< 7>			
	thrombus		0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(8)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		5	6	0	0	4	6	0	0	3	7	1	0	1	3	3	0
			(38)	(46)	(0)	(0)	(40)	(60)	(0)	(0)	(25)	(58)	(8)	(0)	(14)	(43)	(43)	(0)
	eosinophilic change:respiratory epithelium		9	0	0	0	6	0	0	0	9	0	0	0	6	0	0	0
			(69)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(75)	(0)	(0)	(0)	(86)	(0)	(0)	(0)
	inflammation:foreign body		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
disarrangement:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	
respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0 *	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(57)	(0)	(0)	(0)	
respiratory metaplasia:gland		2	0	0	0	1	0	0	0	3	0	0	0	1	0	0	0	
		(15)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	
squamous cell metaplasia:respiratory epithelium		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)	(57)	(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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control				10 ppm				40 ppm				160 ppm			
			13				10				12				7			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																		
nasal cavit			<13>				<10>				<12>				< 7>			
	squamous cell metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (43)	0 (0)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (100)	0 (0)	0 (0)	0 (0)	0 (0) **
lung			<13>				<10>				<12>				< 7>			
	congestion		0 (0)	2 (15)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	4 (33)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulomatous inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)
	leukemic cell infiltration		3 (23)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (17)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)
	metastasis:uterus tumor		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	metastasis:Zymbal gland tumor		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<13>				<10>				<12>				< 7>			
	accumulation of foamy cells		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<13>				<10>				<12>				< 7>			
	leukemic cell infiltration		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	increased hematopoiesis		1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(29)	(0)	(0)	(0)
lymph node			<13>				<10>				<12>				< 7>			
	metastasis:uterus tumor		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)	(14)	(0)	(0)
	metastasis:thyroid tumor		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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	metastasis:oral cavity tumor		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ_____	Findings_____	Group Name No. of Animals on Study				Control 13				10 ppm				40 ppm				160 ppm			
		Grade																			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
{Hematopoietic system}																					
spleen		<13>				<10>				<12>				< 7>							
	deposit of hemosiderin	2 (15)	4 (31)	0 (0)	0 (0)	2 (20)	3 (30)	0 (0)	0 (0)	3 (25)	6 (50)	0 (0)	0 (0)	1 (14)	3 (43)	0 (0)	0 (0)				
	leukemic cell infiltration	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	extramedullary hematopoiesis	0 (0)	3 (23)	2 (15)	0 (0)	1 (10)	1 (10)	1 (10)	0 (0)	1 (8)	1 (8)	0 (0)	0 (0)	0 (0)	1 (14)	1 (14)	0 (0)				
{Circulatory system}																					
heart		<13>				<10>				<12>				< 7>							
	mineralization	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	leukemic cell infiltration	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	myocardial fibrosis	3 (23)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0)	3 (25)	0 (0)	0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)				
{Digestive system}																					
stomach		<13>				<10>				<12>				< 7>							
	erosion:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (8)	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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<13>				<10>				<12>				< 7>			
	ulcer:forestomach		3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(23)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		4	0	0	0	2	0	0	0	4	0	0	0	1	0	0	0
			(31)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	erosion:glandular stomach		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:glandular stomach		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
small intes			<13>				<10>				<12>				< 7>			
	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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<13>				<10>				<12>				< 7>			
	herniation		2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(15)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<13>				<10>				<12>				< 7>			
	necrosis:focal		1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(10)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:central		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		(23)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	
	leukemic cell infiltration		2	0	0	0	2	0	0	0	1	1	0	0	1	0	0	0
			(15)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(14)	(0)	(0)	(0)
	metastasis:uterus tumor		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)	(14)	(0)	(0)	(0)
	bile duct hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
pancreas			<13>				<10>				<12>				< 7>			
	atrophy		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)
{Urinary system}																		
kidney			<13>				<10>				<12>				< 7>			
	necrosis:focal		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<13>				<10>				<12>				< 7>			
	leukemic cell infiltration		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy		4	0	0	0	3	1	0	0	2	1	1	0	4	0	0	0
			(31)	(0)	(0)	(0)	(30)	(10)	(0)	(0)	(17)	(8)	(8)	(0)	(57)	(0)	(0)	(0)
	tubular necrosis		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortex		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	regeneration:proximal tubule		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)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:inner stripe, outer medulla		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilated pelvis		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)
	urin bladd		<13>				<10>				<12>				< 7>			
	squamous cell metaplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	13				10				12				7			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
urin bladd			<13>				<10>				<12>				< 7>			
	metastasis:uterus tumor		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	simple hyperplasia:transitional epithelium		0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(15)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<13>				<10>				<12>				< 7>			
	angiectasis		0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0
			(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(14)	(0)
	hyperplasia		1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(8)	(8)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	leukemic cell infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		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)	(14)	(0)	(0)	(0)
thyroid			<13>				<10>				<12>				< 7>			
	C-cell hyperplasia		2	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0
			(15)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

		Group Name No. of Animals on Study				Control				10 ppm				40 ppm				160 ppm			
		13				10				12				7							
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
(Endocrine system)																					
adrenal			<13>				<10>				<12>				< 7>						
	leukemic cell infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0			
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)			
	focal fatty change:cortex		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0			
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(14)	(0)	(0)	(0)			
(Reproductive system)																					
ovary			<13>				<10>				<12>				< 7>						
	cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
vagina			<13>				<10>				<12>				< 7>						
	metastasis:uterus tumor		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
(Nervous system)																					
brain			<13>				<10>				<12>				< 7>						
	leukemic cell infiltration		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0			
			(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study				Control				10 ppm				40 ppm				160 ppm			
		Grade				13				10				12				7			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																					
brain		<13>				<10>				<12>				< 7>							
	metastasis:pituitary tumor	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spinal cord		<13>				<10>				<12>				< 7>							
	leukemic cell infiltration	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																					
eye		<13>				<10>				<12>				< 7>							
	cataract	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	retinal atrophy	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)
	keratitis	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(8)	(0)	(10)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage:cornea	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 13				10 ppm 10				40 ppm 12				160 ppm 7			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
Harder gl	lymphocytic infiltration		<13>				<10>				<12>				< 7>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasolacr d	inflammation		<13>				<10>				<12>				< 7>			
			1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(8)	(15)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle	atrophy		<13>				<10>				<12>				< 7>			
			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)	(14)	(0)	(0)
bone	osteosclerosis		<13>				<10>				<12>				< 7>			
			1	1	0	0	0	0	0	0	1	1	0	0	2	0	0	0
			(8)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(8)	(0)	(0)	(29)	(0)	(0)	(0)
{Body cavities}																		
peritoneum	metastasis:uterus tumor		<13>				<10>				<12>				< 7>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name				Control				10 ppm				40 ppm				160 ppm													
		No. of Animals on Study				13				10				12				7													
		Grade				1				2				3				4													
		1				2				3				4				1				2				3				4	
				(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)			

{Body cavities}

retroperit		<13>				<10>				<12>				< 7>			
metastasis:vertebra tumor		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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)

BAIS4

TABLE L6

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
SACRIFICED ANIMALS

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade				Control 37				10 ppm 40				40 ppm 38				160 ppm 43			
		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		<37>				<40>				<38>				<43>							
	scab	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Respiratory system}																					
nasal cavit		<37>				<40>				<38>				<43>							
	eosinophilic change:olfactory epithelium	6	23	8	0	4	27	9	0	2	20	16	0	0	20	23	0	0	20	23	0 **
		(16)	(62)	(22)	(0)	(10)	(68)	(23)	(0)	(5)	(53)	(42)	(0)	(0)	(47)	(53)	(0)	(0)	(47)	(53)	(0)
	eosinophilic change:respiratory epithelium	36	0	0	0	40	0	0	0	37	0	0	0	43	0	0	0	100	0	0	0
		(97)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(97)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	inflammation:foreign body	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	disarrangement:olfactory epithelium	0	0	0	0	0	0	0	0	6	0	0	0 *	31	0	0	0	72	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(72)	(0)	(0)	(0)	(72)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	1	0	0	0	1	0	0	0	2	0	0	0	40	0	0	0	93	0	0	0 **
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(93)	(0)	(0)	(0)	(93)	(0)	(0)	(0)
	respiratory metaplasia:gland	3	0	0	0	5	0	0	0	4	0	0	0	19	0	0	0	44	0	0	0 **
		(8)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(44)	(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. : 0704
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 14

Organ	Findings	Control No. of Animals on Study Grade				10 ppm 40				40 ppm 38				160 ppm 43			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																	
nasal cavit		<37>				<40>				<38>				<43>			
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(47)	(0)	(0)	(0)
	squamous cell metaplasia:olfactory epithelium	0	0	0	0	0	0	0	0	3	0	0	0	28	0	0	0 **
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(65)	(0)	(0)	(0)
	atrophy:olfactory epithelium	0	0	0	0	2	0	0	0	12	0	0	0 **	32	0	0	0 **
		(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(74)	(0)	(0)	(0)
lung		<37>				<40>				<38>				<43>			
	inflammatory infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	leukemic cell infiltration	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	accumulation of foamy cells	3	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia	1	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																	
bone marrow		<37>				<40>				<38>				<43>			
	granulation	3	1	0	0	2	0	0	0	4	0	0	0	4	0	0	0
		(8)	(3)	(0)	(0)	(5)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(9)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<37>				<40>				<38>				<43>			
	leukemic cell infiltration		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<37>				<40>				<38>				<43>			
	lymphadenitis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<37>				<40>				<38>				<43>			
	congestion		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		28	5	0	0	32	6	0	0	29	6	0	0	32	9	0	0
			(76)	(14)	(0)	(0)	(80)	(15)	(0)	(0)	(76)	(16)	(0)	(0)	(74)	(21)	(0)	(0)
	fibrosis:focal		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		5	0	1	0	8	1	0	0	4	1	0	0	2	0	0	0
			(14)	(0)	(3)	(0)	(20)	(3)	(0)	(0)	(11)	(3)	(0)	(0)	(5)	(0)	(0)	(0)
{Circulatory system}																		
heart			<37>				<40>				<38>				<43>			
	myocardial fibrosis		4	0	0	0	3	0	0	0	7	0	0	0	4	0	0	0
			(11)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(9)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart			<37>				<40>				<38>				<43>			
	endomyocardial fibrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Digestive system}																		
tongue			<37>				<40>				<38>				<43>			
	squamous cell hyperplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<37>				<40>				<38>				<43>			
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	erosion:glandular stomach		3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<37>				<40>				<38>				<43>			
	hyperplasia:glandular stomach		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)	(2)	(0)	(0)	(0)
liver			<37>				<40>				<38>				<43>			
	herniation		10	0	0	0	4	0	0	0	5	0	0	0	6	0	0	0
			(27)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	peliosis-like lesion		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		7	1	0	0	6	0	0	0	6	1	0	0	6	0	0	0
			(19)	(3)	(0)	(0)	(15)	(0)	(0)	(0)	(16)	(3)	(0)	(0)	(14)	(0)	(0)	(0)
	leukemic cell infiltration		1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)
	clear cell focus		0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

		Group Name No. of Animals on Study				Control 37				10 ppm 40				40 ppm 38				160 ppm 43			
Organ	Findings	Grade				Grade				Grade				Grade							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
{Digestive system}																					
liver		<37>				<40>				<38>				<43>							
	basophilic cell focus	18 (49)	0 (0)	0 (0)	0 (0)	20 (50)	1 (3)	0 (0)	0 (0)	16 (42)	0 (0)	0 (0)	0 (0)	20 (47)	1 (2)	0 (0)	0 (0)				
	bile duct hyperplasia	8 (22)	0 (0)	0 (0)	0 (0)	7 (18)	1 (3)	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)	0 (0)	7 (16)	0 (0)	0 (0)	0 (0)				
pancreas		<37>				<40>				<38>				<43>							
	atrophy	3 (8)	0 (0)	0 (0)	0 (0)	7 (18)	0 (0)	1 (3)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	4 (9)	1 (2)	0 (0)	0 (0)				
{Urinary system}																					
kidney		<37>				<40>				<38>				<43>							
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	deposit of hemosiderin	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)				
	chronic nephropathy	21 (57)	5 (14)	1 (3)	0 (0)	25 (63)	7 (18)	1 (3)	0 (0)	25 (66)	3 (8)	0 (0)	0 (0)	29 (67)	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. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 19

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<37>				<40>				<38>				<43>			
	mineralization:pelvis		0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	focal fatty change		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<37>				<40>				<38>				<43>			
	angiectasis		0	2	0	0	3	1	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(8)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		1	0	0	0	4	0	0	0	3	0	0	0	2	0	0	0
			(3)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(5)	(0)	(0)	(0)
	hyperplasia		10	5	0	0	9	2	0	0	11	4	0	0	11	6	0	0
			(27)	(14)	(0)	(0)	(23)	(5)	(0)	(0)	(29)	(11)	(0)	(0)	(26)	(14)	(0)	(0)
	Rathke pouch		0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<37>				<40>				<38>				<43>			
	C-cell hyperplasia		21	0	0	0	17	0	0	0	20	0	0	0	22	0	0	0
			(57)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	(53)	(0)	(0)	(0)	(51)	(0)	(0)	(0)
	focal follicular 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)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<37>				<40>				<38>				<43>			
	hyperplasia:cortical cell		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:medulla		1	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	focal fatty change:cortex		0	2	0	0	3	1	0	0	2	0	0	0	1	1	0	0
			(0)	(5)	(0)	(0)	(8)	(3)	(0)	(0)	(5)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
{Reproductive system}																		
ovary			<37>				<40>				<38>				<43>			
	cyst		0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(5)	(3)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

		Group Name No. of Animals on Study				Control 37				10 ppm 40				40 ppm 38				160 ppm 43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
{Reproductive system}																					
uterus			<37>				<40>				<38>				<43>						
	hyperplasia:gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)			
	cystic endometrial hyperplasia		2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)			
mammary gl			<37>				<40>				<38>				<43>						
	galactoceles		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)			
{Nervous system}																					
brain			<37>				<40>				<38>				<43>						
	gliosis		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)			
{Special sense organs/appendage}																					
eye			<37>				<40>				<38>				<43>						
	cataract		1 (3)	0 (0)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)			

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

		Group Name	Control				10 ppm				40 ppm				160 ppm			
		No. of Animals on Study	37				40				38				43			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	retinal atrophy		<37>				<40>				<38>				<43>			
		2	0	1	0	2	1	3	0	0	1	1	0	5	1	0	0	
		(5)	(0)	(3)	(0)	(5)	(3)	(8)	(0)	(0)	(3)	(3)	(0)	(12)	(2)	(0)	(0)	
	keratitis		0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(2)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<37>				<40>				<38>				<43>			
		2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	
		(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	
nasolacr d	inflammation		<37>				<40>				<38>				<43>			
		1	2	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0
		(3)	(5)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Musculoskeletal system)																		
bone	osteosclerosis		<37>				<40>				<38>				<43>			
		4	2	1	0	3	3	0	0	3	1	0	0	3	2	1	0	
	(11)	(5)	(3)	(0)	(8)	(8)	(0)	(0)	(8)	(3)	(0)	(0)	(7)	(5)	(2)	(0)		

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

TABLE M1

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Time-related Weeks	Items	Group Name	Control	10 ppm	40 ppm	160 ppm
0 - 52	NO. OF EXAMINED ANIMALS		2	0	0	0
	NO. OF ANIMALS WITH TUMORS		1	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		2	4	3	1
	NO. OF ANIMALS WITH TUMORS		2	3	3	1
	NO. OF ANIMALS WITH SINGLE TUMORS		1	3	2	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	1	0
	NO. OF BENIGN TUMORS		2	3	2	1
	NO. OF MALIGNANT TUMORS		1	0	2	0
	NO. OF TOTAL TUMORS		3	3	4	1
79 - 104	NO. OF EXAMINED ANIMALS		8	10	6	7
	NO. OF ANIMALS WITH TUMORS		8	9	6	7
	NO. OF ANIMALS WITH SINGLE TUMORS		2	1	0	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	8	6	4
	NO. OF BENIGN TUMORS		11	14	8	10
	NO. OF MALIGNANT TUMORS		4	6	5	3
	NO. OF TOTAL TUMORS		15	20	13	13
105 - 105	NO. OF EXAMINED ANIMALS		38	36	41	42
	NO. OF ANIMALS WITH TUMORS		37	36	41	42
	NO. OF ANIMALS WITH SINGLE TUMORS		10	9	13	12
	NO. OF ANIMALS WITH MULTIPLE TUMORS		27	27	28	30
	NO. OF BENIGN TUMORS		78	70	79	82
	NO. OF MALIGNANT TUMORS		12	11	10	7
	NO. OF TOTAL TUMORS		90	81	89	89

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Time-related Weeks	Items	Group Name	Control	10 ppm	40 ppm	160 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		48	48	50	50
	NO. OF ANIMALS WITH SINGLE TUMORS		14	13	15	16
	NO. OF ANIMALS WITH MULTIPLE TUMORS		34	35	35	34
	NO. OF BENIGN TUMORS		91	87	89	93
	NO. OF MALIGNANT TUMORS		18	17	17	10
	NO. OF TOTAL TUMORS		109	104	106	103

(HPT070)

BAIS4

TABLE M2

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

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Time-related Weeks	Items	Group Name	Control	10 ppm	40 ppm	160 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		2	2	2	2
	NO. OF ANIMALS WITH TUMORS		2	2	1	2
	NO. OF ANIMALS WITH SINGLE TUMORS		2	1	1	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	1	0	0
	NO. OF BENIGN TUMORS		0	1	0	0
	NO. OF MALIGNANT TUMORS		2	2	1	2
	NO. OF TOTAL TUMORS		2	3	1	2
79 - 104	NO. OF EXAMINED ANIMALS		11	8	10	5
	NO. OF ANIMALS WITH TUMORS		11	8	10	5
	NO. OF ANIMALS WITH SINGLE TUMORS		9	4	8	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	4	2	2
	NO. OF BENIGN TUMORS		6	6	8	6
	NO. OF MALIGNANT TUMORS		7	6	4	1
	NO. OF TOTAL TUMORS		13	12	12	7
105 - 105	NO. OF EXAMINED ANIMALS		37	40	38	43
	NO. OF ANIMALS WITH TUMORS		19	24	20	26
	NO. OF ANIMALS WITH SINGLE TUMORS		10	17	15	19
	NO. OF ANIMALS WITH MULTIPLE TUMORS		9	7	5	7
	NO. OF BENIGN TUMORS		31	31	26	33
	NO. OF MALIGNANT TUMORS		3	1	2	3
	NO. OF TOTAL TUMORS		34	32	28	36

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Time-related Weeks	Items	Group Name	Control	10 ppm	40 ppm	160 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		32	34	31	33
	NO. OF ANIMALS WITH SINGLE TUMORS		21	22	24	24
	NO. OF ANIMALS WITH MULTIPLE TUMORS		11	12	7	9
	NO. OF BENIGN TUMORS		37	38	34	39
	NO. OF MALIGNANT TUMORS		12	9	7	6
	NO. OF TOTAL TUMORS		49	47	41	45

(HPT070)

BAIS4

TABLE N1

HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : MALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	trichoeplithelioma		0 (0%)	0 (0%)	2 (4%)	2 (4%)
	keratoacanthoma		2 (4%)	1 (2%)	2 (4%)	2 (4%)
	trichoeplithelioma:malignant		1 (2%)	0 (0%)	0 (0%)	1 (2%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		5 (10%)	6 (12%)	5 (10%)	6 (12%)
	lipoma		0 (0%)	1 (2%)	0 (0%)	2 (4%)
	liposarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	leiomyosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
{Respiratory system}						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		3 (6%)	1 (2%)	1 (2%)	4 (8%)
	bronchiolar-alveolar carcinoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
{Hematopoietic system}						
lymph node			<50>	<50>	<50>	<50>
	malignant lymphoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
< a > a : Number of animals examined at the site b (c) b : Number of animals with neoplasm c : b / a * 100						

(HPT085)

BAIS4

STUDY NO. : 0704
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Hematopoietic system}						
spleen	mononuclear cell leukemia		<50> 4 (8%)	<50> 5 (10%)	<50> 5 (10%)	<50> 1 (2%)
{Digestive system}						
oral cavity	squamous cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
small intes	fibrosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 6 (12%)	<50> 1 (2%)	<50> 1 (2%)	<50> 2 (4%)
	hepatocellular carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
pancreas	islet cell adenoma		<50> 5 (10%)	<50> 3 (6%)	<50> 3 (6%)	<50> 7 (14%)
	islet cell adenocarcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Urinary system}						
urin bladd	transitional cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Endocrine system}						
pituitary	adenoma		<50> 11 (22%)	<50> 9 (18%)	<50> 9 (18%)	<50> 7 (14%)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Endocrine system}						
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		8 (16%)	15 (30%)	11 (22%)	7 (14%)
	follicular adenoma		2 (4%)	0 (0%)	2 (4%)	0 (0%)
	C-cell carcinoma		5 (10%)	1 (2%)	2 (4%)	3 (6%)
	follicular adenocarcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		8 (16%)	5 (10%)	5 (10%)	7 (14%)
{Reproductive system}						
testis			<50>	<50>	<50>	<50>
	interstitial cell tumor		37 (74%)	43 (86%)	45 (90%)	42 (84%)
prostate			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
mammary gl			<50>	<50>	<50>	<50>
	fibroadenoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		3 (6%)	1 (2%)	1 (2%)	1 (2%)
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	glioma		2 (4%)	0 (0%)	1 (2%)	1 (2%)
{Special sense organs/appendage}						
Zymbal gl			<50>	<50>	<50>	<50>
	Zymbal gland tumor:malignant		0 (0%)	1 (2%)	2 (4%)	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. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Musculoskeletal system}						
muscle			<50>	<50>	<50>	<50>
	rhabdomyosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
bone			<50>	<50>	<50>	<50>
	osteosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
vertebra			<50>	<50>	<50>	<50>
	chordoma:malignant		0 (0%)	1 (2%)	0 (0%)	1 (2%)
{Body cavities}						
peritoneum			<50>	<50>	<50>	<50>
	liposarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	mesothelioma		1 (2%)	3 (6%)	5 (10%)	2 (4%)

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

(HPT085)

BAIS4

TABLE N2

**HISTOPATHOLOGICAL FINDINGS :
NEOPLASTIC LESIONS : FEMALE**

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	10 ppm 50	40 ppm 50	160 ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
subcutis	fibroma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 3 (6%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)
{Hematopoietic system}						
lymph node	malignant lymphoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
spleen	mononuclear cell leukemia		<50> 3 (6%)	<50> 2 (4%)	<50> 4 (8%)	<50> 2 (4%)
{Digestive system}						
oral cavity	squamous cell carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
salivary gl	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
large intes	leiomyosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Digestive system}						
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Urinary system}						
urin bladd			<50>	<50>	<50>	<50>
	transitional cell papilloma		0 (0%)	0 (0%)	2 (4%)	0 (0%)
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	adenoma		14 (28%)	16 (32%)	12 (24%)	15 (30%)
	adenocarcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		6 (12%)	7 (14%)	5 (10%)	3 (6%)
	C-cell carcinoma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
adrenal			<50>	<50>	<50>	<50>
	cortical adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	pheochromocytoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
{Reproductive system}						
ovary			<50>	<50>	<50>	<50>
	granulosa-theca cell tumor		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	granulosa cell tumor:benign		0 (0%)	0 (0%)	1 (2%)	0 (0%)

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

STUDY NO. : 0704
 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	10 ppm 50	40 ppm 50	160 ppm 50
{Reproductive system}						
uterus			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	endometrial stromal polyp		6 (12%)	3 (6%)	5 (10%)	8 (16%)
	endometrial stromal sarcoma		2 (4%)	2 (4%)	0 (0%)	1 (2%)
mammary gl			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	fibroadenoma		5 (10%)	8 (16%)	7 (14%)	7 (14%)
	adenocarcinoma		1 (2%)	1 (2%)	0 (0%)	1 (2%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		1 (2%)	0 (0%)	0 (0%)	2 (4%)
{Special sense organs/appendage}						
Zymbal gl			<50>	<50>	<50>	<50>
	Zymbal gland tumor:malignant		1 (2%)	1 (2%)	0 (0%)	1 (2%)
{Musculoskeletal system}						
vertebra			<50>	<50>	<50>	<50>
	chordoma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Body cavities}						
peritoneum			<50>	<50>	<50>	<50>
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
< a > a : Number of animals examined at the site b (c) b : Number of animals with neoplasm c : b / a * 100						

(HPT085)

BAIS4

STUDY NO. : 0704
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	10 ppm 50	40 ppm 50	160 ppm 50
[Body cavities]						
retroperit	schwannoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

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

(IPT085)

BAIS4

TABLE O1

NEOPLASTIC LESIONS-INCIDENCE
AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : skin/appendage TUMOR : trichoepithelioma, trichoepithelioma:malignant				
Tumor rate				
Overall rates(a)	1/50(2.0)	0/50(0.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	2.63	0.0	4.88	7.14
Terminal rates(c)	1/38(2.6)	0/36(0.0)	2/41(4.9)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0853			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1114			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3087
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	5/50(10.0)	6/50(12.0)	5/50(10.0)	6/50(12.0)
Adjusted rates(b)	11.11	10.87	9.76	8.89
Terminal rates(c)	3/38(7.9)	3/36(8.3)	4/41(9.8)	3/42(7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1386			
Prevalence method(d)	P = 0.6455			
Combined analysis(d)	P = 0.4282			
Cochran-Armitage test(e)	P = 0.8179			
Fisher Exact test(e)		P = 0.5000	P = 0.6297	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	1/50(2.0)	4/50(8.0)
Adjusted rates(b)	7.89	2.78	2.44	9.52
Terminal rates(c)	3/38(7.9)	1/36(2.8)	1/41(2.4)	4/42(9.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1621			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2448			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.5000

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	4/50(8.0)	1/50(2.0)	1/50(2.0)	5/50(10.0)
Adjusted rates(b)	10.53	2.78	2.44	11.90
Terminal rates(c)	4/38(10.5)	1/36(2.8)	1/41(2.4)	5/42(11.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1307			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1852			
Fisher Exact test(e)		P = 0.1811	P = 0.1811	P = 0.5000
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	4/50(8.0)	5/50(10.0)	5/50(10.0)	1/50(2.0)
Adjusted rates(b)	7.89	5.56	7.32	2.38
Terminal rates(c)	3/38(7.9)	2/36(5.6)	3/41(7.3)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9294			
Prevalence method(d)	P = 0.8521			
Combined analysis(d)	P = 0.9637			
Cochran-Armitage test(e)	P = 0.1121			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1811
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	1/50(2.0)	1/50(2.0)	2/50(4.0)
Adjusted rates(b)	15.79	2.78	2.44	4.08
Terminal rates(c)	6/38(15.8)	1/36(2.8)	1/41(2.4)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8220			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4305			
Fisher Exact test(e)		P = 0.0559	P = 0.0559	P = 0.1343

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	1/50(2.0)	1/50(2.0)	2/50(4.0)
Adjusted rates(b)	18.42	2.78	2.44	4.08
Terminal rates(c)	7/38(18.4)	1/36(2.8)	1/41(2.4)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8794			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3130			
Fisher Exact test(e)		P = 0.0297*	P = 0.0297*	P = 0.0798
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	3/50(6.0)	7/50(14.0)
Adjusted rates(b)	13.16	7.32	7.32	16.67
Terminal rates(c)	5/38(13.2)	2/36(5.6)	3/41(7.3)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1562			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2081			
Fisher Exact test(e)		P = 0.3575	P = 0.3575	P = 0.3798
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	4/50(8.0)	3/50(6.0)	7/50(14.0)
Adjusted rates(b)	13.16	9.76	7.32	16.67
Terminal rates(c)	5/38(13.2)	3/36(8.3)	3/41(7.3)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2039			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2855			
Fisher Exact test(e)		P = 0.5000	P = 0.3575	P = 0.3798

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	9/50(18.0)	9/50(18.0)	7/50(14.0)
Adjusted rates(b)	18.42	13.89	17.39	13.33
Terminal rates(c)	7/38(18.4)	5/36(13.9)	7/41(17.1)	5/42(11.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9409			
Prevalence method(d)	P = 0.6691			
Combined analysis(d)	P = 0.8865			
Cochran-Armitage test(e)	P = 0.3558			
Fisher Exact test(e)		P = 0.4016	P = 0.4016	P = 0.2178
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	11/50(22.0)	9/50(18.0)	9/50(18.0)	7/50(14.0)
Adjusted rates(b)	18.42	13.89	17.39	13.33
Terminal rates(c)	7/38(18.4)	5/36(13.9)	7/41(17.1)	5/42(11.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9409			
Prevalence method(d)	P = 0.6691			
Combined analysis(d)	P = 0.8865			
Cochran-Armitage test(e)	P = 0.3558			
Fisher Exact test(e)		P = 0.4016	P = 0.4016	P = 0.2178
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	15/50(30.0)	11/50(22.0)	7/50(14.0)
Adjusted rates(b)	18.42	37.84	26.83	16.28
Terminal rates(c)	7/38(18.4)	13/36(36.1)	11/41(26.8)	6/42(14.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9286			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2243			
Fisher Exact test(e)		P = 0.0765	P = 0.3055	P = 0.5000

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	1/50(2.0)	2/50(4.0)	3/50(6.0)
Adjusted rates(b)	7.89	2.78	4.88	4.76
Terminal rates(c)	3/38(7.9)	1/36(2.8)	2/41(4.9)	2/42(4.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4718			
Prevalence method(d)	P = 0.5530			
Combined analysis(d)	P = 0.5554			
Cochran-Armitage test(e)	P = 0.9709			
Fisher Exact test(e)		P = 0.1022	P = 0.2180	P = 0.3575
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	13/50(26.0)	15/50(30.0)	13/50(26.0)	10/50(20.0)
Adjusted rates(b)	26.32	37.84	31.71	20.93
Terminal rates(c)	10/38(26.3)	13/36(36.1)	13/41(31.7)	8/42(19.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4718			
Prevalence method(d)	P = 0.9163			
Combined analysis(d)	P = 0.9095			
Cochran-Armitage test(e)	P = 0.3000			
Fisher Exact test(e)		P = 0.4120	P = 0.5900	P = 0.3176
SITE : thyroid TUMOR : follicular adenoma, follicular adenocarcinoma				
Tumor rate				
Overall rates(a)	2/50(4.0)	0/50(0.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	5.26	0.0	7.32	0.0
Terminal rates(c)	2/38(5.3)	0/36(0.0)	3/41(7.3)	0/42(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8632			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3116			
Fisher Exact test(e)		P = 0.2475	P = 0.5000	P = 0.2475

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS--INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates(a)	8/50(16.0)	5/50(10.0)	5/50(10.0)	7/50(14.0)
Adjusted rates(b)	20.00	13.89	12.20	16.67
Terminal rates(c)	7/38(18.4)	5/36(13.9)	5/41(12.2)	7/42(16.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4921			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8472			
Fisher Exact test(e)		P = 0.2768	P = 0.2768	P = 0.5000
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates(a)	37/50(74.0)	43/50(86.0)	45/50(90.0)	42/50(84.0)
Adjusted rates(b)	86.84	100.00	93.62	93.02
Terminal rates(c)	33/38(86.8)	36/36(100.0)	38/41(92.7)	39/42(92.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7302			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5857			
Fisher Exact test(e)		P = 0.1054	P = 0.0332*	P = 0.1631
SITE : preputial/clitoral gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	7.89	2.78	2.44	0.0
Terminal rates(c)	3/38(7.9)	1/36(2.8)	1/41(2.4)	0/42(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1703			
Prevalence method(d)	P = 0.9622			
Combined analysis(d)	P = 0.7676			
Cochran-Armitage test(e)	P = 0.4950			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.3087

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : peritoneum TUMOR : mesothelioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	5/50(10.0)	2/50(4.0)
Adjusted rates(b)	2.63	8.33	9.76	2.38
Terminal rates(c)	1/38(2.6)	3/36(8.3)	4/41(9.8)	1/42(2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1963			
Prevalence method(d)	P = 0.7748			
Combined analysis(d)	P = 0.5984			
Cochran-Armitage test(e)	P = 0.8936			
Fisher Exact test(e)		P = 0.3087	P = 0.1022	P = 0.5000

(HPT360A)

BAIS4

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

TABLE O2

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

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/50(0.0)	1/50(2.0)
Adjusted rates(b)	8.11	2.50	0.0	2.33
Terminal rates(c)	3/37(8.1)	1/40(2.5)	0/38(0.0)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7533			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5113			
Fisher Exact test(e)		P = 0.3087	P = 0.1212	P = 0.3087
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	0/50(0.0)	1/50(2.0)
Adjusted rates(b)	8.11	2.50	0.0	2.33
Terminal rates(c)	3/37(8.1)	1/40(2.5)	0/38(0.0)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7533			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5113			
Fisher Exact test(e)		P = 0.3087	P = 0.1212	P = 0.3087
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	3/50(6.0)	2/50(4.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	2.70	0.0	5.26	2.33
Terminal rates(c)	1/37(2.7)	0/40(0.0)	2/38(5.3)	1/43(2.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7330			
Prevalence method(d)	P = 0.4177			
Combined analysis(d)	P = 0.6596			
Cochran-Armitage test(e)	P = 0.7063			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.5000

STUDY No. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	14/50(28.0)	16/50(32.0)	12/50(24.0)	15/50(30.0)
Adjusted rates(b)	24.32	30.00	20.00	25.58
Terminal rates(c)	9/37(24.3)	12/40(30.0)	7/38(18.4)	11/43(25.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4665			
Prevalence method(d)	P = 0.5409			
Combined analysis(d)	P = 0.5224			
Cochran-Armitage test(e)	P = 0.9071			
Fisher Exact test(e)		P = 0.4138	P = 0.4100	P = 0.5000
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	14/50(28.0)	17/50(34.0)	13/50(26.0)	15/50(30.0)
Adjusted rates(b)	24.32	30.00	20.00	25.58
Terminal rates(c)	9/37(24.3)	12/40(30.0)	7/38(18.4)	11/43(25.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5567			
Prevalence method(d)	P = 0.5402			
Combined analysis(d)	P = 0.5740			
Cochran-Armitage test(e)	P = 0.9855			
Fisher Exact test(e)		P = 0.3329	P = 0.5000	P = 0.5000
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	7/50(14.0)	5/50(10.0)	3/50(6.0)
Adjusted rates(b)	16.22	15.00	13.16	6.98
Terminal rates(c)	6/37(16.2)	6/40(15.0)	5/38(13.2)	3/43(7.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9280			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2024			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.2435

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	7/50(14.0)	8/50(16.0)	6/50(12.0)	3/50(6.0)
Adjusted rates(b)	18.92	17.50	13.16	6.98
Terminal rates(c)	7/37(18.9)	7/40(17.5)	5/38(13.2)	3/43(7.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3403			
Prevalence method(d)	P = 0.9629			
Combined analysis(d)	P = 0.9630			
Cochran-Armitage test(e)	P = 0.1166			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.1589
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	6/50(12.0)	3/50(6.0)	5/50(10.0)	8/50(16.0)
Adjusted rates(b)	16.22	7.50	13.16	17.39
Terminal rates(c)	6/37(16.2)	3/40(7.5)	5/38(13.2)	7/43(16.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1553			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2085			
Fisher Exact test(e)		P = 0.2435	P = 0.5000	P = 0.3871
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	8/50(16.0)	7/50(14.0)	7/50(14.0)
Adjusted rates(b)	12.82	19.51	13.95	16.28
Terminal rates(c)	4/37(10.8)	7/40(17.5)	4/38(10.5)	7/43(16.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3603			
Prevalence method(d)	P = 0.4532			
Combined analysis(d)	P = 0.4735			
Cochran-Armitage test(e)	P = 0.8393			
Fisher Exact test(e)		P = 0.2768	P = 0.3798	P = 0.3798

STUDY No. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	10 ppm	40 ppm	160 ppm
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	9/50(18.0)	7/50(14.0)	7/50(14.0)
Adjusted rates(b)	12.82	21.95	13.95	16.28
Terminal rates(c)	4/37(10.8)	8/40(20.0)	4/38(10.5)	7/43(16.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3603			
Prevalence method(d)	P = 0.5102			
Combined analysis(d)	P = 0.5292			
Cochran-Armitage test(e)	P = 0.9491			
Fisher Exact test(e)		P = 0.1940	P = 0.3798	P = 0.3798
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	10/50(20.0)	7/50(14.0)	7/50(14.0)
Adjusted rates(b)	12.82	23.26	13.95	16.28
Terminal rates(c)	4/37(10.8)	8/40(20.0)	4/38(10.5)	7/43(16.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7122			
Prevalence method(d)	P = 0.5661			
Combined analysis(d)	P = 0.6433			
Cochran-Armitage test(e)	P = 0.8159			
Fisher Exact test(e)		P = 0.2070	P = 0.5000	P = 0.5000

(HPT360A)

BAIS4

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

TABLE P1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0704
 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	10 ppm	40 ppm	160 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Integumentary system/appandage}						
subcutis	metastasis:thyroid tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Respiratory system}						
larynx	metastasis:thyroid tumor		<50> 0	<50> 0	<50> 1	<50> 2
trachea	metastasis:thyroid tumor		<50> 1	<50> 0	<50> 0	<50> 0
lung	leukemic cell infiltration		<50> 3	<50> 5	<50> 4	<50> 1
	metastasis:thyroid tumor		0	0	1	1
	metastasis:subcutis tumor		0	1	0	0
	metastasis:Zymbal gland tumor		0	0	1	0
	metastasis:vertebra tumor		0	0	0	1
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<50> 0
lymph node	leukemic cell infiltration		<50> 1	<50> 1	<50> 1	<50> 0
	metastasis:thyroid tumor		2	1	1	2
thymus	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0

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

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		Group Name	Control	10 ppm	40 ppm	160 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
(Circulatory system)						
heart	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor		0	1	0	0
(Digestive system)						
salivary gl	metastasis:subcutis tumor		<50> 0	<50> 1	<50> 0	<50> 0
stomach	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor		1	0	0	0
small intes	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
large intes	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
liver	leukemic cell infiltration		<50> 4	<50> 5	<50> 3	<50> 1
	metastasis:subcutis tumor		0	1	0	0
pancreas	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 0
	metastasis:peritoneum tumor		0	0	1	0
	metastasis:subcutis tumor		1	0	0	0
(Urinary system)						
kidney	leukemic cell infiltration		<50> 1	<50> 2	<50> 1	<50> 0
< a >		a : Number of animals examined at the site				
b		b : Number of animals with lesion				

STUDY NO. : 0704
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	10 ppm	40 ppm	160 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	metastasis:subcutis tumor		0	1	0	0
urin bladd			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
{Reproductive system}						
epididymis			<50>	<50>	<50>	<50>
	metastasis:peritoneum tumor		0	1	0	0
semin ves			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
prostate			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	1	0
{Musculoskeletal system}						
muscle			<50>	<50>	<50>	<50>
	metastasis:subcutis tumor		0	1	0	0
	metastasis:vertebra tumor		0	1	0	0
{Body cavities}						
pleura			<50>	<50>	<50>	<50>
	metastasis:thyroid tumor		0	0	0	1

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

TABLE P2

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

FEMALE

STUDY NO. : 0704
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Group Name No. of Animals on Study		Control 50	10 ppm 50	40 ppm 50	160 ppm 50
Organ	Findings				
(Respiratory system)					
lung		<50>	<50>	<50>	<50>
	leukemic cell infiltration	4	2	2	2
	metastasis:uterus tumor	0	1	0	0
	metastasis:Zymbal gland tumor	0	1	0	0
(Hematopoietic system)					
bone marrow		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	0	1	1
lymph node		<50>	<50>	<50>	<50>
	metastasis:uterus tumor	0	0	0	1
	metastasis:thyroid tumor	0	0	1	0
	metastasis:oral cavity tumor	1	0	0	0
spleen		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	0
(Circulatory system)					
heart		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	1	0
(Digestive system)					
liver		<50>	<50>	<50>	<50>
	leukemic cell infiltration	3	2	3	2
	metastasis:uterus tumor	0	0	0	1

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

STUDY NO. : 0704
 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	10 ppm	40 ppm	160 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Body cavities}						
pleura			<50>	<50>	<50>	<50>
	metastasis:bone tumor		0	1	0	0
mediastinum			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
	metastasis:thyroid tumor		0	0	0	1
peritoneum			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
	metastasis:subcutis tumor		1	0	0	0
retroperit			<50>	<50>	<50>	<50>
	metastasis:muscle tumor		1	0	0	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS4

STUDY NO. : 0704
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	10 ppm	40 ppm	160 ppm
Organ	Findings	No. of Animals on Study	50	50	50	50
{Body cavities}						
retroperit	metastasis:vertebra tumor		<50> 0	<50> 0	<50> 1	<50> 0
< a > a : Number of animals examined at the site						
b b : Number of animals with lesion						

(JPT150)

BAIS4

STUDY NO. : 0704
 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	Control	10 ppm	40 ppm	160 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	1	0
urin bladd			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		0	1	0	0
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
adrenal			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
{Reproductive system}						
vagina			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		1	0	0	0
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	1	0
	metastasis:pituitary tumor		0	1	1	0
spinal cord			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	1	0
{Body cavities}						
peritoneum			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		0	1	0	1

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

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : MALE

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

PAGE : 1

Group Name	Control	10 ppm	40 ppm	160 ppm
Number of Dead and Moribund Animal	12	14	9	8
no microscop confirm	2	4	0	1
tumor d:leukemia	1	3	3	0
tumor d:subcutis	2	2	1	2
tumor d:pituitary	4	4	1	1
tumor d:thyroid	2	0	0	1
tumor d:prep/cli gl	0	0	0	1
tumor d:brain	0	0	1	1
tumor d:Zymbal gl	0	0	2	0
tumor d:muscle	1	0	0	0
tumor d:vertebra	0	1	0	0
tumor d:peritoneum	0	0	1	1

(BI0120)

BAIS4

TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0704
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
SEX : FEMALE

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

PAGE : 2

Group Name	Control	10 ppm	40 ppm	160 ppm
Number of Dead and Moribund Animal	13	10	12	7
no microscop confirm	0	0	2	0
tumor d:leukemia	3	2	2	1
tumor d:oral cavity	1	0	0	0
tumor d:large intes	1	0	0	0
tumor d:pituitary	4	4	5	4
tumor d:thyroid	0	0	1	0
tumor d:adrenal	0	1	0	0
tumor d:uterus	2	2	0	1
tumor d:mammary gl	1	0	1	0
tumor d:Zymbal gl	1	1	0	0
tumor d:vertebra	0	0	1	0
tumor d:retroperit	0	0	0	1

(BI0120)

BAIS4