

3-アミノフェノールのラットを用いた
経口投与によるがん原性試験（混水試験）報告書

試験番号：0711

TABLES

TABLES

TABLE A 1 SURVIVAL ANIMAL NUMBERS: MALE

TABLE A 2 SURVIVAL ANIMAL NUMBERS: FEMALE

TABLE B 1 CLINICAL OBSERVATION: MALE

TABLE B 2 CLINICAL OBSERVATION: FEMALE

TABLE C 1 BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS:
MALE

TABLE C 2 BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS:
FEMALE

TABLE C 3 BODY WEIGHT CHANGES: MALE

TABLE C 4 BODY WEIGHT CHANGES: FEMALE

TABLE D 1 FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS: MALE

TABLE D 2 FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS: FEMALE

TABLE D 3 FOOD CONSUMPTION CHANGES: MALE

TABLE D 4 FOOD CONSUMPTION CHANGES: FEMALE

TABLE E 1 WATER CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS: MALE

TABLE E 2 WATER CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS: FEMALE

TABLE E 3 WATER CONSUMPTION CHANGES: MALE

TABLE E 4 WATER CONSUMPTION CHANGES: FEMALE

TABLE F 1 CHEMICAL INTAKE CHANGES: MALE

TABLE F 2 CHEMICAL INTAKE CHANGES: FEMALE

TABLES (CONTINUED)

TABLE G 1 HEMATOLOGY: MALE

TABLE G 2 HEMATOLOGY: FEMALE

TABLE H 1 BIOCHEMISTRY: MALE

TABLE H 2 BIOCHEMISTRY: FEMALE

TABLE I 1 URINALYSIS: MALE

TABLE I 2 URINALYSIS: FEMALE

TABLE J 1 GROSS FINDINGS: MALE: ALL ANIMALS

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

TABLE J 3 GROSS FINDINGS: MALE: SACRIFICED ANIMALS

TABLE J 4 GROSS FINDINGS: FEMALE: ALL ANIMALS

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

TABLE J 6 GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS

TABLE K 1 ORGAN WEIGHT, ABSOLUTE: MALE

TABLE K 2 ORGAN WEIGHT, ABSOLUTE: FEMALE

TABLE L 1 ORGAN WEIGHT, RELATIVE: MALE

TABLE L 2 ORGAN WEIGHT, RELATIVE: FEMALE

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

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

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

TABLES (CONTINUED)

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

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

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

TABLE N 1 NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF
TUMORS-TIME RELATED: MALE

TABLE N 2 NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF
TUMORS-TIME RELATED: FEMALE

TABLE O 1 HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS:
MALE

TABLE O 2 HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS:
FEMALE

TABLE P 1 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS:
MALE

TABLE P 2 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS:
FEMALE

TABLE Q 1 HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
MALE

TABLE Q 2 HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
FEMALE

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

TABLE S 1 CAUSE OF DEATH: MALE

TABLE S 2 CAUSE OF DEATH: FEMALE

TABLE A 1

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50	50/50	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
625 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
1250 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
2500 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. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	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
625 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
1250 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
2500 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. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
625 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
1250 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
2500 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0

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

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	49/50	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
625 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
1250 ppm	50	50/50	50/50	50/50	50/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		100.0	100.0	100.0	100.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2500 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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	49/50	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
625 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
1250 ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0
2500 ppm	50	50/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		100.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	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
625 ppm	50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	46/50	46/50	46/50
		98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	92.0	92.0	92.0
1250 ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
2500 ppm	50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0

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

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 7

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	46/50	45/50	45/50	43/50	43/50	43/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	92.0	90.0	90.0	86.0	86.0	86.0
625 ppm	50	46/50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50	44/50	44/50	44/50	43/50	43/50
		92.0	92.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0	88.0	88.0	88.0	86.0	86.0
1250 ppm	50	46/50	46/50	46/50	46/50	45/50	45/50	44/50	43/50	42/50	39/50	39/50	38/50	36/50	36/50
		92.0	92.0	92.0	92.0	90.0	90.0	88.0	86.0	84.0	78.0	78.0	76.0	72.0	72.0
2500 ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	45/50	45/50	42/50	41/50	40/50	40/50	40/50	39/50
		94.0	94.0	94.0	94.0	94.0	94.0	90.0	90.0	84.0	82.0	80.0	80.0	80.0	78.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	43/50	43/50	43/50	42/50	42/50	42/50	40/50
		86.0	86.0	86.0	84.0	84.0	84.0	80.0
625 ppm	50	43/50	43/50	41/50	41/50	40/50	39/50	39/50
		86.0	86.0	82.0	82.0	80.0	78.0	78.0
1250 ppm	50	36/50	35/50	34/50	34/50	34/50	34/50	33/50
		72.0	70.0	68.0	68.0	68.0	68.0	66.0
2500 ppm	50	39/50	38/50	38/50	38/50	36/50	34/50	34/50
		78.0	76.0	76.0	76.0	72.0	68.0	68.0
Number of survival/ Number of effective animals Survival rate(%)								

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TABLE A 2

SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 9

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
625 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
1250 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
2500 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. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
625 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
1250 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
2500 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. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
625 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
1250 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
2500 ppm	50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 12

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
625 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
1250 ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
2500 ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	50/50	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
		100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
625 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	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
1250 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0
2500 ppm	50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrJ]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50
		98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0
625 ppm	50	49/50	49/50	49/50	49/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		98.0	98.0	98.0	98.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1250 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
2500 ppm	50	46/50	46/50	45/50	45/50	45/50	45/50	43/50	43/50	43/50	42/50	42/50	39/50	39/50	39/50
		92.0	92.0	90.0	90.0	90.0	90.0	86.0	86.0	86.0	84.0	84.0	78.0	78.0	78.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 15

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	45/50	44/50	44/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	90.0	88.0	88.0
625 ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	45/50	45/50	44/50	43/50	43/50	43/50	43/50
		94.0	94.0	94.0	94.0	94.0	94.0	92.0	90.0	90.0	88.0	86.0	86.0	86.0	86.0
1250 ppm	50	48/50	48/50	47/50	46/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50
		96.0	96.0	94.0	92.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2500 ppm	50	39/50	39/50	39/50	39/50	39/50	39/50	39/50	38/50	38/50	38/50	37/50	36/50	36/50	36/50
		78.0	78.0	78.0	78.0	78.0	78.0	78.0	76.0	76.0	76.0	74.0	72.0	72.0	72.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	44/50	44/50	44/50	44/50	43/50	43/50	43/50
		88.0	88.0	88.0	88.0	86.0	86.0	86.0
625 ppm	50	42/50	42/50	42/50	42/50	41/50	40/50	40/50
		84.0	84.0	84.0	84.0	82.0	80.0	80.0
1250 ppm	50	45/50	45/50	45/50	44/50	44/50	43/50	42/50
		90.0	90.0	90.0	88.0	88.0	86.0	84.0
2500 ppm	50	35/50	35/50	35/50	35/50	35/50	35/50	35/50
		70.0	70.0	70.0	70.0	70.0	70.0	70.0

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

(HAN360)

BAIS4

TABLE B 1

CLINICAL OBSERVATION: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : At 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	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
	625 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	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	1	1	1	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration		Week-day												
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7	
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	1	1	2	2	2	2	2	2	2	2	2	
	2500 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	
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 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	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 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	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 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	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 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	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 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	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PILOERECTIO	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	2	2	2		2	2	2	3	3	3	3	3	3	3	3
	2500 ppm	1	1	1		1	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	625 ppm	1	1	1		1	1	1	1	1	1	1	2	2	2	2
	1250 ppm	3	3	3		3	3	3	4	4	4	4	4	4	4	4
	2500 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	1	1	1	1	1	1
	625 ppm	1	1	1		1	1	1	1	1	2	2	2	2	2	2
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	1	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	1	1	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	1	1	1	1	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	1	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
DEATH	Control	1	1	1	1	1	1	2	3	4	4	6	6	6	6
	625 ppm	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	1250 ppm	4	4	4	5	5	6	7	7	9	9	10	11	11	11
	2500 ppm	2	2	2	2	2	3	3	5	6	6	6	6	6	6
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	2	2	2	2	2	2	2	2	3	3	3	4	4	4
	1250 ppm	0	0	0	0	0	0	0	1	2	2	2	3	3	3
	2500 ppm	1	1	1	1	1	2	2	3	3	4	4	4	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	1	0	0	1	0	0	0
	1250 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	1	1	1	1	1	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTIO N	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	1250 ppm	0	1	1	1	1	1	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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	6	6	7	7	7	8
	625 ppm	3	4	4	5	6	6
	1250 ppm	12	12	12	12	12	12
	2500 ppm	6	6	6	8	9	9
MORIBUND SACRIFICE	Control	1	1	1	1	1	2
	625 ppm	4	5	5	5	5	5
	1250 ppm	3	4	4	4	4	5
	2500 ppm	6	6	6	6	7	7
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	0	0	0	0	1
	2500 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	625 ppm	0	0	0	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0
EXCITEMENT	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
SOILED	Control	0	0	1	2	2	1
	625 ppm	0	0	1	2	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	1	1	1	0	0
PILOERECTION	Control	0	0	0	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 10

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												
SOILED PERI-GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1		1	1	1	1	1	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 11

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												
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	625 ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1250 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
SOILED PERI-GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	625 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	3
	1250 ppm	2	2	2		2	2	3	3	3	3	3	3	3	3	3
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0		0	0	0	0	0	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	1	0		0	0	0	0	0	0	0	0	0	0	1
	625 ppm	0	0	0		0	0	1	1	1	1	1	2	2	2	3
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	2
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 13

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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	2	2	2		2	2	2	2	3	3	3	3	3	3	3
	625 ppm	3	3	3		3	3	3	4	4	5	5	5	5	5	6
	1250 ppm	3	4	4		4	4	4	4	5	5	5	5	5	5	5
	2500 ppm	1	1	1		2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	0
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1		1	1	2	3	3	3	3	3	4	3	3
	625 ppm	3	3	2		2	2	2	2	2	2	2	3	3	4	4
	1250 ppm	2	2	3		3	3	3	3	3	3	3	3	3	4	4
	2500 ppm	1	1	1		1	1	1	0	1	1	1	1	1	0	1
INTERNAL MASS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	1	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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											
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	4	5
	625 ppm	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1250 ppm	5	5	5	5	5	5	4	4	4	4	4	4	4	5
	2500 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	4	5	5	5	4	5	5	6	6	6	8	8
	625 ppm	3	4	4	5	5	5	5	5	5	6	6	6	6	5
	1250 ppm	5	5	5	5	6	7	6	6	6	6	6	6	6	6
	2500 ppm	2	2	1	1	0	0	0	0	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	5	5	5	5	5	5	5	5	4	4	5	5	5	5
	625 ppm	6	6	6	6	6	5	5	5	5	5	5	5	5	5
	1250 ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	7
	2500 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	9	9	9	9	9	9	10	10	11	11	10	10	11	11
	625 ppm	5	6	6	7	7	7	7	7	8	9	9	11	11	11
	1250 ppm	6	6	6	6	7	8	8	8	7	7	8	8	8	8
	2500 ppm	2	4	5	5	5	5	5	6	5	5	5	5	4	5
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	1	1	1	2	1	1	1	0	0	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	1	0	0	1	1	1	1
	2500 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED PERI-GENITALIA	Control	0	0	0	0	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0
EXOPHTHALMOS	Control	1	1	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1
CATARACT	Control	5	5	5	5	5	5
	625 ppm	5	5	5	5	5	5
	1250 ppm	7	7	7	7	7	7
	2500 ppm	2	2	3	2	2	2
CORNEAL OPACITY	Control	0	0	1	1	1	1
	625 ppm	1	1	2	3	2	2
	1250 ppm	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	625 ppm	0	0	0	1	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	12	12	13	13	13	12
	625 ppm	11	9	10	10	11	12
	1250 ppm	7	7	8	8	8	7
	2500 ppm	5	6	6	4	4	6
INTERNAL MASS	Control	1	1	4	4	4	3
	625 ppm	1	0	0	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1
M. EYE	Control	0	0	1	1	1	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 17

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1
	625 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	625 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1	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	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : AT 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. PERI-MOUTH	Control	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	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	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	625 ppm	2	2	2	3	3	3	3	3	3	3	3	3	3	2
	1250 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	2500 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	1	1	2	2	2	2	2
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
M. PERI-MOUTH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	1	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
M. NECK	Control	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	1	1		1	1	1	1	1	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0		0	0	0	0	0	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	2	2	2		2	2	2	2	2	3	3	3	4	4	4
	1250 ppm	0	0	0		0	0	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	2		2	2	2	2	2	2	2	2	2	2	2
M. ABDOMEN	Control	2	3	3		3	3	3	4	4	4	4	3	3	3	3
	625 ppm	2	3	3		4	4	4	4	4	4	4	4	4	4	4
	1250 ppm	0	0	0		0	0	0	0	1	1	1	1	1	1	1
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	3	3	3		3	3	3	2	2	2	2	2	2	2	2
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	2	2	2
	1250 ppm	1	1	1		1	1	1	1	1	1	1	2	2	2	2
	2500 ppm	0	1	1		1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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. PERI-MOUTH	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	1
M. EAR	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0
M. PERI EAR	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	1	1	1	0	0	0
M. NECK	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. FORELIMB	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	2	2
	625 ppm	4	4	5	6	7	7
	1250 ppm	1	1	2	2	2	1
	2500 ppm	2	2	2	1	1	2
M. ABDOMEN	Control	4	4	4	4	4	4
	625 ppm	4	2	2	1	1	2
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	2	2	2	2	2	2
	625 ppm	0	0	0	0	0	0
	1250 ppm	2	2	2	3	3	3
	2500 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1
	625 ppm	2	2	3	3	3	3
	1250 ppm	2	2	2	2	2	2
	2500 ppm	1	1	1	1	1	1

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 25

Clinical sign	Group Name	Administration Week-day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 27

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 30

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. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day													
		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. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	2	2	2	2	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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	1	0	0	0	1
	625 ppm	0	0	1	1	1	0	0	0	0	3	2	2	0	1
	1250 ppm	0	0	0	0	0	0	0	1	0	1	1	1	1	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2500 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	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 32

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. HINDLIMB	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	1	1	1	1	1
M. TAIL	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0
ANEMIA	Control	1	2	3	4	4	3
	625 ppm	2	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	1
JAUNDICE	Control	0	0	0	0	1	1
	625 ppm	1	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	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	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	47	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	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	49	49	49	49	49
	625 ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49	49
	1250 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	2500 ppm	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 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
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	49	49
	625 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	1250 ppm	49	48	48	48	48	48	48	48	48	48	48	48	48	48
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	48	48	48	47
	625 ppm	49	48	48	48	48	48	47	47	47	47	47	47	47	47
	1250 ppm	48	48	48	48	48	47	46	46	46	46	46	46	46	45
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
PROLAPSE OF PENIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50		50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	47	46	47		47	47	47	47	47	47	47	47	47	47	46
	625 ppm	47	46	46		46	46	45	45	45	45	45	44	44	44	42
	1250 ppm	45	45	45		44	44	42	42	42	42	42	42	42	42	42
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	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	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	49	49	49	49	48	48	48	48	48	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1250 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	46	46	45	44	43	43	43	43	42	42	42	42
	625 ppm	42	42	43	43	43	43	42	42	42	42	42	42	42	41	39
	1250 ppm	42	41	41	41	41	40	40	40	40	40	40	40	40	39	39
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	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	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	48	48	48	48	47	47	47	47	47	47	47	47	47	47	47
SMALL STOOL	Control	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	625 ppm	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	625 ppm	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	42	42	41	41	41	41	41	41	40	40	39	39	38	36	35
	625 ppm	39	38	38	36	36	36	36	36	36	36	34	34	34	34	35
	1250 ppm	38	38	38	38	37	36	36	36	36	36	36	36	35	36	35
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 39

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											
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	1	1	1	2	1	1	1	1	1	1
	1250 ppm	0	1	1	1	2	2	1	0	0	0	0	0	2	2
	2500 ppm	0	0	0	0	0	1	2	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	1	1	1	1	0	0	1	1
	1250 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	1	0	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	1	2	2	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	47	47	47	47	47	45	45	42	41	40	40	40	39	39
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	1	2	2	2	3	2	3	1	0	1	1
	1250 ppm	0	0	0	1	3	2	1	1	0	1	1	0	1	1
	2500 ppm	0	0	0	0	1	1	2	3	2	1	1	1	1	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	625 ppm	0	0	0	1	2	2	2	3	2	2	0	0	2	2
	1250 ppm	0	1	1	2	3	3	2	3	1	2	2	1	2	2
	2500 ppm	0	0	0	0	3	2	2	3	2	1	1	1	1	2
NON REMARKABLE	Control	34	34	34	34	33	33	31	31	30	29	28	28	28	26
	625 ppm	35	34	34	33	32	31	31	30	29	26	28	26	26	26
	1250 ppm	35	34	34	32	30	28	28	26	26	25	23	22	22	20
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
PROLAPSE OF PENIS	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	1	1	1
	625 ppm	1	0	0	2	1	1
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	625 ppm	1	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	2	2	2
	625 ppm	1	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	38	38	38	36	34	34
SMALL STOOL	Control	0	0	0	0	3	2
	625 ppm	2	1	1	2	0	0
	1250 ppm	0	0	0	1	0	0
	2500 ppm	0	0	0	1	1	1
OLIGO-STOOL	Control	0	0	0	2	3	2
	625 ppm	2	0	0	4	2	3
	1250 ppm	1	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1
NON REMARKABLE	Control	25	24	21	20	20	20
	625 ppm	25	26	24	20	20	18
	1250 ppm	20	19	19	19	19	19
	2500 ppm	0	0	0	0	0	0

TABLE B 2

CLINICAL OBSERVATION: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 41

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1		1	1	1	1	4	4	7	7	8	8	8
PILOERECTION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 43

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	8	9	9	9	9	10	10	10	10	11	11	11	11	11
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : AT 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	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	11	11	12	12	12	12	12	12	12	12	12	13	13	13
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrij [F344/DuCrj]
REPORT TYPE : A1 104

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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	13	13	13	13	8	8	8	9	9	8	8	8	8	7
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 46

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	625 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	3	4	4	4	4	6	6	6	7	7	9	9	9	9
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	625 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	7	7	7	9	9	8	8	8	8	8	5	6	6	6
PILOERECTION	Control	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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	2	2	2	2	2	2	3	3	3	3	4	5	5	5
	625 ppm	2	2	2	2	2	3	4	4	5	5	5	5	5	5
	1250 ppm	1	2	3	3	3	3	3	3	3	3	3	3	3	3
	2500 ppm	9	9	9	9	9	9	9	9	9	10	10	10	10	10
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	3
	1250 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	2500 ppm	2	2	2	2	2	2	3	3	3	3	4	4	4	5
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	6	3	3	4	4	4	4	4	4	4	4	4	4	4
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	1	1	1	1	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	1	1	1	0	0	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 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
	625 ppm	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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	5	5	5	5	5	5
	625 ppm	5	5	5	6	6	6
	1250 ppm	3	3	4	4	4	4
	2500 ppm	10	10	10	10	10	10
MORIBUND SACRIFICE	Control	1	1	1	2	2	2
	625 ppm	3	3	3	3	4	4
	1250 ppm	2	2	2	2	3	4
	2500 ppm	5	5	5	5	5	5
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
EXCITEMENT	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	1	0	0	0	0
	2500 ppm	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	4	4	4	4	4	4
PILORECTION	Control	0	0	0	0	0	0
	625 ppm	0	0	1	1	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	1	1	1
FROG BELLY	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	2	2	3	2	2	2	2	1	2	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 50

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												
SOILED PERI-GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	1	1	1	1	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 51

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											
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2500 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
SOILED PERI-GENITALIA	Control	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	2	2	2		2	2	2	2	3	3	3	3	3	3	3
	1250 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	2500 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	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	2	2
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0		0	0	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [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	1	1	1	1	1	1	1	0	0	0	1	1	1	0
	625 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	1	1	1	1	1	1	1	1	2	2
	625 ppm	3	3	3	3	3	3	3	3	3	3	3	2	3	3
	1250 ppm	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1	1
	625 ppm	1	1	2	2	2	2	2	2	2	2	2	1	2	2
	1250 ppm	2	2	2	3	3	3	3	3	3	2	2	2	3	2
	2500 ppm	1	1	1	1	0	0	1	1	1	1	1	1	1	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	625 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	1250 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2500 ppm	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
CORNEAL OPACITY	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	2	1	2	2	2	2	2	3	5	5	5
	625 ppm	2	3	4	3	3	3	3	3	3	4	4	4	4	5	5
	1250 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2500 ppm	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 55

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	625 ppm	3	3	4	4	4	4	4	4	4	4	4	4	4	4
	1250 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2500 ppm	1	1	1	1	2	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	5	5	5	5	5	5	5	5	5	7	6	6	6	6
	625 ppm	5	6	6	7	7	6	6	6	5	7	8	10	10	9
	1250 ppm	2	2	2	2	3	4	4	4	5	5	5	6	6	6
	2500 ppm	4	4	4	4	4	4	3	3	4	3	4	4	4	4
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	2	2	2	1	2	1	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	0	0	0	0
	2500 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
CATARACT	Control	3	3	3	2	2	2
	625 ppm	4	4	4	3	2	2
	1250 ppm	3	3	4	4	3	3
	2500 ppm	3	3	3	3	3	3
CORNEAL OPACITY	Control	1	1	1	1	1	1
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	1	0	0
	2500 ppm	1	1	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	625 ppm	2	2	2	1	1	1
	1250 ppm	0	0	0	0	1	1
	2500 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	6	6	8	9	9	10
	625 ppm	10	10	11	10	10	10
	1250 ppm	7	7	7	9	11	10
	2500 ppm	4	4	3	4	4	5
INTERNAL MASS	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	0	1	1	1
	2500 ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	2	1
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [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. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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. PERI EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. FOREL IMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
M. PERI EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	1		1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 60

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
M. PERI EAR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	1	1	1	1	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	1	1	1	1
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	1	1	1	1	1
	2500 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FOREL IMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 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
	625 ppm	0	0	1	1	1	1	1	1	1	1	1	0	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	1
ANEMIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	2500 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	1	1	2	2	2	2	2	2	2	3	3
	625 ppm	1	2	3	2	2	2	2	2	2	2	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	0	0	0	0	0	0	2	2	2	2
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANEMIA	Control	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ULCER	Control	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	625 ppm	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
	1250 ppm	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2
	2500 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	2	2	2	1	1	0	0	0	0	1	2	2	2	2	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	2	2	2	2	2	2	2	2	2	3	2	3	3	3	3
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITAL IA	Control	2	2	2	2	2	2	2	2	2	3	4	4	4	4	4
	625 ppm	0	0	0	2	2	2	2	2	2	1	2	2	4	4	4
	1250 ppm	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2
	2500 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	625 ppm	0	0	1	1	2	1	1	1	1	1	0	0	0	1	1
	1250 ppm	1	0	0	0	0	0	0	0	0	1	1	0	0	3	2
	2500 ppm	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	625 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
	2500 ppm	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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. PERI EAR	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	1	1	1
	2500 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	625 ppm	0	0	1	1	1	1
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	1
	625 ppm	0	0	0	0	0	0
	1250 ppm	1	1	1	1	1	1
	2500 ppm	0	0	0	0	0	0
M. BREAST	Control	3	3	3	3	3	3
	625 ppm	4	4	4	3	4	4
	1250 ppm	3	3	4	4	4	4
	2500 ppm	1	1	1	1	1	1
M. ABDOMEN	Control	0	0	1	2	2	2
	625 ppm	2	2	2	2	2	2
	1250 ppm	1	1	1	2	2	2
	2500 ppm	3	3	2	3	3	4
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	1	1
	1250 ppm	0	0	0	0	1	1
	2500 ppm	0	0	0	0	0	0
M. GENITALIA	Control	4	4	4	4	4	4
	625 ppm	4	4	4	4	4	4
	1250 ppm	2	2	1	1	1	1
	2500 ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	2	1	1	1
	625 ppm	1	0	0	0	0	0
	1250 ppm	2	2	2	2	2	2
	2500 ppm	0	0	0	0	0	0
ULCER	Control	1	1	1	1	1	1
	625 ppm	2	2	2	1	1	0
	1250 ppm	2	2	2	2	2	1
	2500 ppm	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 65

Clinical sign	Group Name	Administration Week-day				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	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	50
	625 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1250 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 66

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	50	50	50	50	50	50	50	50	50	49	48	48	48	48
	1250 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrj [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
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	50	50	50	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	48	48	48	48	48	48	48	48	48	48	48	48	47	47
	1250 ppm	50	50	50	50	50	50	50	50	49	49	49	49	47	47
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrij [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
SWELLING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	49	49	49		49	49	49	49	49	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	1	2	2	2
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50		50	50	49	47	46	46	46	46	46	46	46
	625 ppm	47	47	47		47	47	47	47	46	46	46	46	46	46	46
	1250 ppm	47	47	47		46	46	46	46	46	46	46	46	46	45	45
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day				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												
SWELLING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	1	0	0	0	0
	2500 ppm	1	1	1		1	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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	48	48	48		48	47	47	47	46	46	46	46	46	46	46
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	1	0	0		0	1	1	0	0	0	0	0	0	0	0
	625 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0		0	0	1	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46		46	46	46	46	47	47	47	46	46	45	46
	625 ppm	46	46	46		46	45	46	46	46	46	46	46	46	44	44
	1250 ppm	45	46	46		45	44	44	44	44	44	44	44	44	43	43
	2500 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
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
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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	1	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	46	45	45	45	45	43	43	43	42	42	39	39	39	39
SMALL STOOL	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
OLIGO-STOOL	Control	0	0	0	1	1	0	0	0	0	1	0	0	0	0
	625 ppm	0	0	2	1	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	45	44	45	44	44	43	42	42	40	40	40
	625 ppm	44	44	42	42	42	42	42	42	41	41	41	41	41	41
	1250 ppm	43	43	43	43	43	43	43	43	43	42	42	42	42	42
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [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
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 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
	625 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	1	0	0	1	1
	2500 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	625 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2500 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
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	1	1	1	1	1	1	1	1	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	39	39	39	39	39	39	38	38	38	37	36	36	36	35
SMALL STOOL	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	625 ppm	0	0	1	1	1	2	1	1	0	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	0
OLIGO-STOOL	Control	1	0	0	0	0	0	0	1	1	1	0	0	0	0
	625 ppm	0	1	2	2	3	3	2	2	1	0	0	0	0	0
	1250 ppm	1	0	0	0	0	0	1	1	1	1	0	0	0	0
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	40	40	40	40	39	39	38	38	38	36	36	35	35	35
	625 ppm	41	39	37	35	35	35	35	35	35	34	33	32	32	32
	1250 ppm	42	42	41	40	39	38	38	38	37	37	37	36	35	35
	2500 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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
SWELLING	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	1	1	1	1	1	1
	625 ppm	1	1	1	1	1	1
	1250 ppm	1	1	1	1	1	1
	2500 ppm	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	625 ppm	1	1	1	1	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	0	0	0	0	0	0
BROWN URINE	Control	0	0	0	0	0	0
	625 ppm	0	0	0	0	0	0
	1250 ppm	0	0	0	0	0	0
	2500 ppm	35	35	35	35	35	35
SMALL STOOL	Control	0	0	0	0	1	1
	625 ppm	0	0	1	1	1	1
	1250 ppm	1	1	0	0	0	1
	2500 ppm	0	0	1	1	1	1
OLIGO-STOOL	Control	0	0	1	0	1	1
	625 ppm	0	1	1	2	1	1
	1250 ppm	1	1	0	1	1	0
	2500 ppm	0	0	0	0	0	0
NON REMARKABLE	Control	35	35	33	32	32	31
	625 ppm	31	31	30	30	30	30
	1250 ppm	34	34	32	30	29	28
	2500 ppm	0	0	0	0	0	0

TABLE C 1

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			625 ppm			1250 ppm			2500 ppm		
	Av. Wt.	No. of Surviv. <50>		Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	124 (50)	50/50		124 (50)	100	50/50	124 (50)	100	50/50	124 (50)	100	50/50
1-7	155 (50)	50/50		154 (50)	99	50/50	154 (50)	99	50/50	149 (50)	96	50/50
2-7	189 (50)	50/50		187 (50)	99	50/50	187 (50)	99	50/50	180 (50)	95	50/50
3-7	217 (50)	50/50		213 (50)	98	50/50	213 (50)	98	50/50	204 (50)	94	50/50
4-7	239 (50)	50/50		236 (50)	99	50/50	235 (50)	98	50/50	225 (50)	94	50/50
5-7	255 (50)	50/50		251 (50)	98	50/50	251 (50)	98	50/50	241 (50)	95	50/50
6-7	268 (50)	50/50		264 (50)	99	50/50	264 (50)	99	50/50	252 (50)	94	50/50
7-7	281 (50)	50/50		277 (50)	99	50/50	278 (50)	99	50/50	265 (50)	94	50/50
8-7	294 (50)	50/50		290 (50)	99	50/50	291 (50)	99	50/50	277 (50)	94	50/50
9-7	304 (50)	50/50		301 (50)	99	50/50	301 (50)	99	50/50	288 (50)	95	50/50
10-7	312 (50)	50/50		310 (50)	99	50/50	310 (50)	99	50/50	295 (50)	95	50/50
11-7	320 (50)	50/50		317 (50)	99	50/50	318 (50)	99	50/50	302 (50)	94	50/50
12-7	328 (50)	50/50		324 (50)	99	50/50	325 (50)	99	50/50	308 (50)	94	50/50
13-7	333 (50)	50/50		330 (50)	99	50/50	331 (50)	99	50/50	313 (50)	94	50/50
14-7	339 (50)	50/50		336 (50)	99	50/50	337 (50)	99	50/50	318 (50)	94	50/50
18-7	353 (50)	50/50		353 (50)	100	50/50	354 (50)	100	50/50	333 (50)	94	50/50
22-7	370 (50)	50/50		370 (50)	100	50/50	370 (50)	100	50/50	347 (50)	94	50/50
26-7	380 (50)	50/50		381 (50)	100	50/50	382 (50)	101	50/50	355 (50)	93	50/50
30-7	392 (50)	50/50		394 (50)	101	50/50	396 (50)	101	50/50	368 (50)	94	50/50
34-7	402 (50)	50/50		404 (50)	100	50/50	405 (50)	101	50/50	379 (50)	94	50/50
38-7	406 (50)	50/50		407 (49)	100	49/50	409 (50)	101	50/50	382 (50)	94	50/50
42-7	415 (49)	49/50		418 (49)	101	49/50	418 (50)	101	50/50	389 (50)	94	50/50
46-7	421 (49)	49/50		423 (49)	100	49/50	425 (49)	101	49/50	395 (50)	94	50/50
50-7	426 (49)	49/50		429 (49)	101	49/50	431 (48)	101	48/50	398 (50)	93	50/50
54-7	435 (49)	49/50		438 (49)	101	49/50	439 (48)	101	48/50	404 (50)	93	50/50
58-7	441 (49)	49/50		445 (49)	101	49/50	445 (48)	101	48/50	409 (49)	93	49/50
62-7	446 (49)	49/50		451 (49)	101	49/50	448 (48)	100	48/50	413 (48)	93	48/50
66-7	450 (49)	49/50		456 (49)	101	49/50	453 (47)	101	47/50	414 (48)	92	48/50
70-7	452 (49)	49/50		457 (49)	101	49/50	455 (47)	101	47/50	415 (48)	92	48/50
74-7	455 (49)	49/50		459 (48)	101	48/50	456 (47)	100	47/50	416 (48)	91	48/50
78-7	458 (49)	49/50		459 (48)	100	48/50	459 (46)	100	46/50	415 (47)	91	47/50
82-7	459 (48)	48/50		464 (46)	101	46/50	457 (46)	100	46/50	412 (47)	90	47/50
86-7	458 (48)	48/50		461 (46)	101	46/50	450 (46)	98	46/50	406 (47)	89	47/50
90-7	454 (48)	48/50		454 (45)	100	45/50	441 (44)	97	44/50	397 (45)	87	45/50
94-7	453 (45)	45/50		444 (44)	98	44/50	435 (39)	96	39/50	393 (40)	87	40/50
98-7	452 (43)	43/50		438 (43)	97	43/50	425 (36)	94	36/50	385 (39)	85	39/50
102-7	437 (42)	42/50		425 (40)	97	40/50	418 (34)	96	34/50	377 (36)	86	36/50
104-7	436 (40)	40/50		419 (39)	96	39/50	408 (33)	94	33/50	371 (34)	85	34/50

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

Av. Wt. : g

TABLE C 2

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Crij[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			625 ppm			1250 ppm			2500 ppm		
	Av. Wt.	No. of Surviv. <50>		Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	101 (50)	50/50		101 (50)	100	50/50	101 (50)	100	50/50	101 (50)	100	50/50
1-7	118 (50)	50/50		117 (50)	99	50/50	117 (50)	99	50/50	113 (50)	96	50/50
2-7	131 (50)	50/50		131 (50)	100	50/50	130 (50)	99	50/50	126 (50)	96	50/50
3-7	141 (50)	50/50		141 (50)	100	50/50	139 (50)	99	50/50	135 (50)	96	50/50
4-7	149 (50)	50/50		149 (50)	100	50/50	148 (50)	99	50/50	142 (50)	95	50/50
5-7	156 (50)	50/50		157 (50)	101	50/50	155 (50)	99	50/50	147 (50)	94	50/50
6-7	163 (50)	50/50		162 (50)	99	50/50	161 (50)	99	50/50	153 (50)	94	50/50
7-7	166 (50)	50/50		167 (50)	101	50/50	167 (50)	101	50/50	158 (50)	95	50/50
8-7	171 (50)	50/50		171 (50)	100	50/50	171 (50)	100	50/50	161 (50)	94	50/50
9-7	175 (50)	50/50		175 (50)	100	50/50	175 (50)	100	50/50	165 (50)	94	50/50
10-7	179 (50)	50/50		178 (50)	99	50/50	178 (50)	99	50/50	168 (50)	94	50/50
11-7	183 (50)	50/50		182 (50)	99	50/50	183 (50)	100	50/50	170 (50)	93	50/50
12-7	186 (50)	50/50		186 (50)	100	50/50	184 (50)	99	50/50	172 (50)	92	50/50
13-7	187 (50)	50/50		188 (50)	101	50/50	187 (50)	100	50/50	174 (50)	93	50/50
14-7	189 (50)	50/50		191 (50)	101	50/50	189 (50)	100	50/50	176 (50)	93	50/50
18-7	195 (50)	50/50		197 (50)	101	50/50	196 (50)	101	50/50	181 (50)	93	50/50
22-7	203 (50)	50/50		204 (50)	100	50/50	202 (50)	100	50/50	186 (50)	92	50/50
26-7	208 (50)	50/50		210 (50)	101	50/50	208 (50)	100	50/50	189 (50)	91	50/50
30-7	213 (50)	50/50		215 (50)	101	50/50	212 (50)	100	50/50	194 (50)	91	50/50
34-7	217 (50)	50/50		220 (50)	101	50/50	218 (50)	100	50/50	198 (49)	91	49/50
38-7	221 (50)	50/50		223 (50)	101	50/50	221 (50)	100	50/50	199 (49)	90	49/50
42-7	225 (50)	50/50		228 (50)	101	50/50	224 (50)	100	50/50	200 (49)	89	49/50
46-7	231 (50)	50/50		232 (50)	100	50/50	229 (50)	99	50/50	202 (49)	87	49/50
50-7	234 (50)	50/50		238 (50)	102	50/50	232 (50)	99	50/50	203 (49)	87	49/50
54-7	241 (50)	50/50		245 (50)	102	50/50	238 (50)	99	50/50	208 (48)	86	48/50
58-7	246 (49)	49/50		252 (50)	102	50/50	243 (50)	99	50/50	212 (48)	86	48/50
62-7	252 (49)	49/50		258 (50)	102	50/50	250 (50)	99	50/50	216 (47)	86	47/50
66-7	259 (49)	49/50		265 (50)	102	50/50	256 (49)	99	49/50	218 (46)	84	46/50
70-7	265 (49)	49/50		268 (49)	101	49/50	260 (48)	98	48/50	220 (46)	83	46/50
74-7	270 (49)	49/50		272 (48)	101	48/50	265 (48)	98	48/50	225 (45)	83	45/50
78-7	281 (48)	48/50		283 (47)	101	47/50	271 (48)	96	48/50	231 (43)	82	43/50
82-7	289 (47)	47/50		290 (47)	100	47/50	277 (48)	96	48/50	237 (39)	82	39/50
86-7	292 (47)	47/50		293 (47)	100	47/50	279 (47)	96	47/50	239 (39)	82	39/50
90-7	298 (47)	47/50		294 (46)	99	46/50	282 (45)	95	45/50	240 (39)	81	39/50
94-7	301 (46)	46/50		298 (43)	99	43/50	284 (45)	94	45/50	240 (37)	80	37/50
98-7	306 (44)	44/50		299 (42)	98	42/50	284 (45)	93	45/50	245 (35)	80	35/50
102-7	310 (43)	43/50		293 (41)	95	41/50	282 (44)	91	44/50	244 (35)	79	35/50
104-7	312 (43)	43/50		297 (40)	95	40/50	283 (42)	91	42/50	245 (35)	79	35/50

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

Av. Wt. : g

TABLE C 3

BODY WEIGHT CHANGES: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	124±	4	155±	6	189±	8	217±	9	239±	10	255±	11	268±	12
625 ppm	124±	4	154±	6	187±	8	213±	9	236±	10	251±	11	264±	12
1250 ppm	124±	4	154±	6	187±	8	213±	8	235±	8	251±	9	264±	10
2500 ppm	124±	4	149±	6**	180±	7**	204±	9**	225 ±	10**	241 ±	11**	252 ±	12**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day		7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	281±	12	294±	12	304±	13	312±	14	320±	14	328±	14	333±	13		
625 ppm	277±	13	290±	14	301±	14	310±	15	317±	15	324±	16	330±	15		
1250 ppm	278±	11	291±	11	301±	13	310±	14	318±	14	325±	14	331±	15		
2500 ppm	265±	13**	277±	14**	288±	15**	295±	16**	302±	16**	308±	16**	313±	16**		

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	339±	14	353±	14	370±	15	380±	17	392±	17	402±	17
625 ppm	336±	16	353±	17	370±	18	381±	19	394±	21	404±	22
1250 ppm	337±	16	354±	17	370±	18	382±	19	396±	20	405±	20
2500 ppm	318±	16**	333±	19**	347±	20**	355±	21**	368±	21**	379±	20**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	415±	20	421±	21	426±	22	435±	23	441±	23	446±	24
625 ppm	418±	23	423±	24	429±	24	438±	26	445±	26	451±	25
1250 ppm	418±	22	425±	25	431±	25	439±	26	445±	25	448±	29
2500 ppm	389±	24**	395±	26**	398±	27**	404±	26**	409±	26**	413±	26**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	452±	27	455±	26	458±	30	459±	28	458±	26	454±	29
625 ppm	457±	28	459±	31	459±	44	464±	28	461±	29	454±	33
1250 ppm	455±	25	456±	26	459±	25	457±	27	450±	30	441±	43
2500 ppm	415±	27**	416±	27**	415±	26**	412±	25**	406±	27**	397±	37**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 6

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	452±	32	437±	44	436±	45
625 ppm	438±	47	425±	49	419±	57
1250 ppm	425±	51**	418±	42*	408±	46*
2500 ppm	385±	34**	377±	30**	371±	38**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE C 4

BODY WEIGHT CHANGES: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	101±	3	118±	4	131±	5	141±	6	149±	7	156±	8	163±	9
625 ppm	101±	3	117±	4	131±	4	141±	5	149±	6	157±	6	162±	7
1250 ppm	101±	3	117±	4	130±	5	139±	5	148±	6	155±	6	161±	7
2500 ppm	101±	3	113±	4**	126±	5**	135±	5**	142±	6**	147±	6**	153±	6**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration		week-day											
	7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	166±	10	171±	10	175±	11	179±	11	183±	11	186±	12	187±	11
625 ppm	167±	8	171±	8	175±	8	178±	9	182±	9	186±	9	188±	9
1250 ppm	167±	8	171±	8	175±	9	178±	10	183±	10	184±	10	187±	9
2500 ppm	158±	7**	161±	8**	165±	8**	168±	9**	170±	9**	172±	9**	174±	9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	189±	11	195±	12	203±	13	208±	13	213±	14	217±	15
625 ppm	191±	8	197±	8	204±	9	210±	9	215±	10	220±	10
1250 ppm	189±	9	196±	10	202±	10	208±	10	212±	11	218±	11
2500 ppm	176±	9**	181±	9**	186±	10**	189±	10**	194±	11**	198±	11**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	225±	16	231±	16	234±	17	241±	19	246±	19	252±	20
625 ppm	228±	11	232±	12	238±	14	245±	16	252±	18	258±	19
1250 ppm	224±	12	229±	13	232±	14	238±	15	243±	17	250±	19
2500 ppm	200±	12**	202±	14**	203±	16**	208±	15**	212±	17**	216±	18**

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

Test of Dunnett

(HAN260)

BAIS4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	265±	24	270±	26	281±	22	289±	22	292±	22	298±	21
625 ppm	268±	20	272±	22	283±	21	290±	23	293±	29	294±	32
1250 ppm	260±	19	265±	21	271±	22	277±	23*	279±	22*	282±	20**
2500 ppm	220±	23**	225±	26**	231±	25**	237±	22**	239±	23**	240±	25**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	306±	26	310±	32	312±	38
625 ppm	299±	41	293±	27*	297±	26
1250 ppm	284±	22**	282±	22**	283±	22**
2500 ppm	245±	26**	244±	30**	245±	34**

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

Test of Dunnett

(HAN260)

BAIS4

TABLE D 1

FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0711
 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		625 ppm			1250 ppm			2500 ppm		
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	13.6 (50)	50/50	13.7 (50)	101	50/50	13.9 (50)	102	50/50	13.0 (50)	96	50/50
2-7	15.4 (50)	50/50	15.4 (50)	100	50/50	15.2 (50)	99	50/50	14.5 (50)	94	50/50
3-7	16.3 (50)	50/50	16.0 (50)	98	50/50	16.0 (50)	98	50/50	15.0 (50)	92	50/50
4-7	16.4 (50)	50/50	16.2 (50)	99	50/50	16.1 (50)	98	50/50	15.3 (50)	93	50/50
5-7	16.3 (50)	50/50	16.2 (50)	99	50/50	15.9 (50)	98	50/50	15.3 (50)	94	50/50
6-7	15.8 (50)	50/50	15.6 (50)	99	50/50	15.7 (50)	99	50/50	15.2 (50)	96	50/50
7-7	15.5 (50)	50/50	15.4 (50)	99	50/50	15.4 (50)	99	50/50	14.9 (50)	96	50/50
8-7	15.9 (50)	50/50	15.8 (50)	99	50/50	15.8 (50)	99	50/50	15.2 (50)	96	50/50
9-7	15.8 (50)	50/50	15.9 (50)	101	50/50	16.0 (50)	101	50/50	15.5 (50)	98	50/50
10-7	15.7 (50)	50/50	15.7 (50)	100	50/50	16.0 (50)	102	50/50	15.2 (50)	97	50/50
11-7	15.3 (50)	50/50	15.4 (50)	101	50/50	15.4 (50)	101	50/50	14.8 (50)	97	50/50
12-7	15.6 (50)	50/50	15.4 (50)	99	50/50	15.5 (50)	99	50/50	15.2 (50)	97	50/50
13-7	15.6 (50)	50/50	15.4 (50)	99	50/50	15.4 (50)	99	50/50	14.6 (50)	94	50/50
14-7	15.4 (50)	50/50	15.4 (50)	100	50/50	15.4 (50)	100	50/50	14.8 (50)	96	50/50
18-7	15.0 (50)	50/50	15.0 (50)	100	50/50	15.1 (50)	101	50/50	14.4 (50)	96	50/50
22-7	15.7 (50)	50/50	15.8 (50)	101	50/50	15.9 (50)	101	50/50	14.9 (50)	95	50/50
26-7	16.0 (50)	50/50	15.9 (50)	99	50/50	16.0 (50)	100	50/50	15.0 (50)	94	50/50
30-7	15.7 (50)	50/50	16.1 (50)	103	50/50	16.3 (50)	104	50/50	14.9 (50)	95	50/50
34-7	15.7 (50)	50/50	15.8 (50)	101	50/50	16.1 (50)	103	50/50	15.4 (50)	98	50/50
38-7	15.8 (50)	50/50	15.8 (49)	100	49/50	16.1 (50)	102	50/50	15.5 (50)	98	50/50
42-7	16.1 (49)	49/50	16.3 (49)	101	49/50	16.2 (50)	101	50/50	15.5 (50)	96	50/50
46-7	16.1 (49)	49/50	16.2 (49)	101	49/50	16.2 (49)	101	49/50	15.6 (50)	97	50/50
50-7	16.1 (49)	49/50	16.3 (49)	101	49/50	16.5 (48)	102	48/50	15.8 (50)	98	50/50
54-7	16.8 (49)	49/50	17.2 (49)	102	49/50	17.0 (48)	101	48/50	16.2 (50)	96	50/50
58-7	16.8 (49)	49/50	17.1 (49)	102	49/50	17.1 (48)	102	48/50	16.2 (49)	96	49/50
62-7	16.7 (49)	49/50	17.0 (49)	102	49/50	16.7 (48)	100	48/50	16.1 (48)	96	48/50
66-7	16.4 (49)	49/50	16.8 (49)	102	49/50	16.8 (47)	102	47/50	15.9 (48)	97	48/50
70-7	16.2 (49)	49/50	16.6 (49)	102	49/50	16.6 (47)	102	47/50	15.5 (48)	96	48/50
74-7	16.6 (49)	49/50	16.6 (48)	100	48/50	16.6 (47)	100	47/50	15.5 (48)	93	48/50
78-7	16.1 (49)	49/50	16.2 (48)	101	48/50	16.1 (46)	100	46/50	15.0 (47)	93	47/50
82-7	16.1 (48)	48/50	16.4 (46)	102	46/50	16.0 (46)	99	46/50	14.9 (47)	93	47/50
86-7	16.3 (48)	48/50	16.1 (46)	99	46/50	15.7 (46)	96	46/50	15.0 (47)	92	47/50
90-7	16.0 (48)	48/50	16.0 (45)	100	45/50	15.7 (44)	98	44/50	14.8 (44)	93	45/50
94-7	16.2 (45)	45/50	15.9 (44)	98	44/50	15.3 (39)	94	39/50	14.7 (40)	91	40/50
98-7	16.7 (43)	43/50	16.1 (43)	96	43/50	15.5 (36)	93	36/50	14.3 (39)	86	39/50
102-7	15.9 (41)	42/50	15.2 (40)	96	40/50	15.6 (34)	98	34/50	14.4 (36)	91	36/50
104-7	15.8 (40)	40/50	15.5 (39)	98	39/50	15.6 (33)	99	33/50	14.3 (34)	91	34/50

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

Av. FC. : g

TABLE D 2

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

STUDY NO. : 0711
 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			625 ppm			1250 ppm			2500 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	11.0 (50)	50/50		10.9 (50)	99	50/50	10.9 (50)	99	50/50	10.0 (50)	91	50/50
2-7	11.1 (50)	50/50		11.2 (50)	101	50/50	10.9 (50)	98	50/50	10.4 (50)	94	50/50
3-7	11.0 (50)	50/50		11.1 (50)	101	50/50	10.9 (50)	99	50/50	10.2 (50)	93	50/50
4-7	11.0 (50)	50/50		11.2 (50)	102	50/50	11.0 (50)	100	50/50	10.2 (50)	93	50/50
5-7	10.9 (50)	50/50		11.0 (50)	101	50/50	10.9 (50)	100	50/50	10.0 (50)	92	50/50
6-7	10.8 (50)	50/50		10.7 (50)	99	50/50	10.7 (50)	99	50/50	9.8 (50)	91	50/50
7-7	10.4 (50)	50/50		10.5 (50)	101	50/50	10.5 (50)	101	50/50	9.7 (50)	93	50/50
8-7	10.6 (50)	50/50		10.5 (50)	99	50/50	10.4 (50)	98	50/50	9.7 (50)	92	50/50
9-7	10.7 (50)	50/50		10.6 (50)	99	50/50	10.4 (50)	97	50/50	9.6 (50)	90	50/50
10-7	10.6 (50)	50/50		10.7 (50)	101	50/50	10.5 (50)	99	50/50	9.7 (50)	92	50/50
11-7	10.7 (50)	50/50		10.7 (50)	100	50/50	10.6 (50)	99	50/50	9.4 (50)	88	50/50
12-7	10.6 (50)	50/50		10.9 (50)	103	50/50	10.4 (50)	98	50/50	9.7 (50)	92	50/50
13-7	10.5 (50)	50/50		10.7 (50)	102	50/50	10.4 (50)	99	50/50	9.5 (50)	90	50/50
14-7	10.7 (50)	50/50		11.0 (50)	103	50/50	10.6 (50)	99	50/50	9.8 (50)	92	50/50
18-7	10.7 (50)	50/50		10.9 (50)	102	50/50	10.4 (50)	97	50/50	9.5 (50)	89	50/50
22-7	10.7 (50)	50/50		11.0 (50)	103	50/50	10.5 (50)	98	50/50	9.5 (50)	89	50/50
26-7	11.0 (50)	50/50		11.1 (50)	101	50/50	10.9 (50)	99	50/50	9.8 (50)	89	50/50
30-7	10.7 (50)	50/50		11.1 (50)	104	50/50	10.7 (50)	100	50/50	9.6 (50)	90	50/50
34-7	10.8 (50)	50/50		11.0 (50)	102	50/50	10.9 (50)	101	50/50	9.8 (49)	91	49/50
38-7	10.8 (50)	50/50		11.1 (50)	103	50/50	10.8 (50)	100	50/50	9.7 (49)	90	49/50
42-7	11.0 (50)	50/50		11.4 (50)	104	50/50	11.0 (50)	100	50/50	10.0 (49)	91	49/50
46-7	11.4 (50)	50/50		11.4 (50)	100	50/50	11.3 (50)	99	50/50	10.1 (49)	89	49/50
50-7	11.1 (50)	50/50		11.7 (50)	105	50/50	11.1 (50)	100	50/50	10.1 (49)	91	49/50
54-7	11.6 (50)	50/50		12.0 (50)	103	50/50	11.6 (50)	100	50/50	10.5 (48)	91	48/50
58-7	11.7 (49)	49/50		12.0 (50)	103	50/50	11.6 (50)	99	50/50	10.6 (48)	91	48/50
62-7	12.0 (49)	49/50		12.2 (50)	102	50/50	12.0 (50)	100	50/50	10.6 (47)	88	47/50
66-7	12.0 (49)	49/50		12.1 (50)	101	50/50	11.6 (49)	97	49/50	10.5 (46)	88	46/50
70-7	11.7 (49)	49/50		11.8 (49)	101	49/50	11.7 (48)	100	48/50	10.6 (46)	91	46/50
74-7	12.1 (49)	49/50		12.1 (48)	100	48/50	12.1 (48)	100	48/50	10.7 (45)	88	45/50
78-7	12.3 (48)	48/50		12.5 (47)	102	47/50	11.9 (48)	97	48/50	10.8 (43)	88	43/50
82-7	12.5 (47)	47/50		12.3 (47)	98	47/50	11.9 (48)	95	48/50	10.9 (39)	87	39/50
86-7	12.2 (47)	47/50		12.2 (47)	100	47/50	11.8 (47)	97	47/50	10.9 (39)	89	39/50
90-7	12.4 (47)	47/50		12.1 (46)	98	46/50	11.9 (45)	96	45/50	10.9 (39)	88	39/50
94-7	12.6 (46)	46/50		12.6 (43)	100	43/50	12.3 (45)	98	45/50	11.1 (37)	88	37/50
98-7	13.0 (44)	44/50		12.5 (41)	96	42/50	12.1 (45)	93	45/50	11.3 (35)	87	35/50
102-7	13.2 (42)	43/50		12.8 (41)	97	41/50	12.0 (44)	91	44/50	11.4 (35)	86	35/50
104-7	12.8 (42)	43/50		12.7 (40)	99	40/50	11.8 (42)	92	42/50	11.4 (35)	89	35/50

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

Av. FC. : g

TABLE D 3

FOOD CONSUMPTION CHANGES: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7 (7)	week-day (effective) 2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	13.6 ± 0.7	15.4 ± 0.8	16.3 ± 0.8	16.4 ± 0.8	16.3 ± 0.8	15.8 ± 0.9	15.5 ± 0.9
625 ppm	13.7 ± 0.7	15.4 ± 0.9	16.0 ± 0.9	16.2 ± 0.8	16.2 ± 0.8	15.6 ± 0.9	15.4 ± 0.9
1250 ppm	13.9 ± 0.7	15.2 ± 0.8	16.0 ± 0.7	16.1 ± 0.6	15.9 ± 0.7*	15.7 ± 0.8	15.4 ± 0.8
2500 ppm	13.0 ± 0.8**	14.5 ± 0.8**	15.0 ± 0.9**	15.3 ± 0.8**	15.3 ± 0.8**	15.2 ± 0.7**	14.9 ± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	15.9 ± 0.9	15.8 ± 0.9	15.7 ± 0.8	15.3 ± 0.8	15.6 ± 0.8	15.6 ± 0.7	15.4 ± 0.7
625 ppm	15.8 ± 1.0	15.9 ± 0.9	15.7 ± 0.9	15.4 ± 0.9	15.4 ± 0.8	15.4 ± 0.7	15.4 ± 0.7
1250 ppm	15.8 ± 0.8	16.0 ± 0.8	16.0 ± 0.8	15.4 ± 0.8	15.5 ± 0.8	15.4 ± 0.7	15.4 ± 0.9
2500 ppm	15.2 ± 0.9**	15.5 ± 0.9	15.2 ± 0.9**	14.8 ± 0.9**	15.2 ± 0.8	14.6 ± 0.7**	14.8 ± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [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	15.0± 0.7	15.7± 0.8	16.0± 0.9	15.7± 0.9	15.7± 0.7	15.8± 0.9	16.1± 0.9
625 ppm	15.0± 0.7	15.8± 0.9	15.9± 0.9	16.1± 0.9	15.8± 0.9	15.8± 0.8	16.3± 0.8
1250 ppm	15.1± 0.9	15.9± 0.8	16.0± 0.9	16.3± 0.8**	16.1± 1.0	16.1± 0.9	16.2± 1.1
2500 ppm	14.4± 0.8**	14.9± 0.8**	15.0± 0.9**	14.9± 0.9**	15.4± 0.8	15.5± 1.0	15.5± 1.0**

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

Test of Dunnett

(HAN260)

BAIS4

STUDY NO. : 0711
 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	16.1± 0.9	16.1± 1.0	16.8± 0.9	16.8± 1.0	16.7± 0.9	16.4± 1.0	16.2± 1.1
625 ppm	16.2± 1.0	16.3± 0.9	17.2± 0.9	17.1± 1.0	17.0± 0.8	16.8± 0.9	16.6± 1.0
1250 ppm	16.2± 1.0	16.5± 1.0	17.0± 0.9	17.1± 1.0	16.7± 2.0	16.8± 1.0	16.6± 1.1
2500 ppm	15.6± 1.0	15.8± 0.9	16.2± 0.9**	16.2± 1.0**	16.1± 1.0*	15.9± 1.0*	15.5± 1.1*

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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	16.6 ± 1.0	16.1 ± 2.1	16.1 ± 1.4	16.3 ± 1.1	16.0 ± 1.5	16.2 ± 1.6	16.7 ± 1.2
625 ppm	16.6 ± 1.5	16.2 ± 1.9	16.4 ± 1.2	16.1 ± 1.4	16.0 ± 2.5	15.9 ± 1.7	16.1 ± 2.6
1250 ppm	16.6 ± 1.0	16.1 ± 1.0	16.0 ± 1.2	15.7 ± 1.9	15.7 ± 1.9	15.3 ± 2.3*	15.5 ± 2.4**
2500 ppm	15.5 ± 1.2**	15.0 ± 0.9**	14.9 ± 1.0**	15.0 ± 1.3**	14.8 ± 1.7**	14.7 ± 1.2**	14.3 ± 3.1**

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

Test of Dunnett

(HAN260)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day (effective)	
	102-7 (7)	104-7 (7)
Control	15.9± 2.0	15.8± 2.5
625 ppm	15.2± 2.5	15.5± 2.2
1250 ppm	15.6± 1.5	15.6± 1.4
2500 ppm	14.4± 1.4**	14.3± 2.2**

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

Test of Dunnett

(HAN260)

BAIS4

TABLE D 4

FOOD CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 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	11.0 ± 0.5	11.1 ± 0.6	11.0 ± 0.8	11.0 ± 0.7	10.9 ± 0.8	10.8 ± 0.8	10.4 ± 0.9
625 ppm	10.9 ± 0.7	11.2 ± 0.6	11.1 ± 0.7	11.2 ± 0.6	11.0 ± 0.6	10.7 ± 0.6	10.5 ± 0.7
1250 ppm	10.9 ± 0.5	10.9 ± 0.6	10.9 ± 0.6	11.0 ± 0.7	10.9 ± 0.7	10.7 ± 0.6	10.5 ± 0.7
2500 ppm	10.0 ± 0.5**	10.4 ± 0.6**	10.2 ± 0.6**	10.2 ± 0.6**	10.0 ± 0.6**	9.8 ± 0.6**	9.7 ± 0.6**

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

Test of Dunnett

(HAN260)

BAIS4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	10.6 ± 0.9	10.7 ± 0.8	10.6 ± 0.8	10.7 ± 0.7	10.6 ± 0.8	10.5 ± 0.7	10.7 ± 0.8
625 ppm	10.5 ± 0.7	10.6 ± 0.6	10.7 ± 0.6	10.7 ± 0.7	10.9 ± 0.6	10.7 ± 0.6	11.0 ± 0.6*
1250 ppm	10.4 ± 0.7	10.4 ± 0.7	10.5 ± 0.7	10.6 ± 0.8	10.4 ± 0.6	10.4 ± 0.6	10.6 ± 0.6
2500 ppm	9.7 ± 0.6**	9.6 ± 0.8**	9.7 ± 0.7**	9.4 ± 0.6**	9.7 ± 0.7**	9.5 ± 0.6**	9.8 ± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 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	10.7± 0.8	10.7± 0.8	11.0± 0.8	10.7± 0.8	10.8± 0.7	10.8± 0.7	11.0± 0.8
625 ppm	10.9± 0.6	11.0± 0.7	11.1± 0.6	11.1± 0.6*	11.0± 0.5	11.1± 0.6	11.4± 0.6*
1250 ppm	10.4± 0.6*	10.5± 0.6	10.9± 0.6	10.7± 0.6	10.9± 0.6	10.8± 0.6	11.0± 0.7
2500 ppm	9.5± 0.6**	9.5± 0.7**	9.8± 0.6**	9.6± 0.6**	9.8± 0.6**	9.7± 0.7**	10.0± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 10

Group Name	Administration 46-7 (7)	week-day (effective) 50-7 (7)	54-7 (7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	11.4± 0.7	11.1± 0.9	11.6± 1.1	11.7± 0.8	12.0± 1.0	12.0± 1.0	11.7± 0.9
625 ppm	11.4± 0.8	11.7± 0.8**	12.0± 0.9	12.0± 0.9	12.2± 1.0	12.1± 1.0	11.8± 1.1
1250 ppm	11.3± 0.8	11.1± 0.6	11.6± 0.7	11.6± 0.8	12.0± 0.9	11.6± 0.7	11.7± 1.2
2500 ppm	10.1± 0.6**	10.1± 0.8**	10.5± 0.7**	10.6± 0.9**	10.6± 0.9**	10.5± 1.0**	10.6± 1.1**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [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	12.1± 1.0	12.3± 1.0	12.5± 1.0	12.2± 1.0	12.4± 1.0	12.6± 1.2	13.0± 1.3
625 ppm	12.1± 1.3	12.5± 1.0	12.3± 1.0	12.2± 1.4	12.1± 2.5	12.6± 1.6	12.5± 1.0
1250 ppm	12.1± 1.0	11.9± 0.9*	11.9± 0.9*	11.8± 0.9	11.9± 1.1	12.3± 0.9	12.1± 1.8*
2500 ppm	10.7± 1.2**	10.8± 0.8**	10.9± 0.7**	10.9± 0.8**	10.9± 1.0**	11.1± 0.9**	11.3± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day (effective)	
	102-7 (7)	104-7 (7)
Control	13.2 ± 1.3	12.8 ± 1.6
625 ppm	12.8 ± 1.3	12.7 ± 1.1
1250 ppm	12.0 ± 1.7**	11.8 ± 1.6*
2500 ppm	11.4 ± 1.2**	11.4 ± 1.3**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E 1

WATER CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN WATER CONSUMPTION (WC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			625 ppm			1250 ppm			2500 ppm		
	Av. WC.	No. of Surviv. <50>		Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.
1-7	17.5 (50)	50/50		17.0 (50)	97	50/50	16.3 (50)	93	50/50	13.8 (49)	79	50/50
2-7	19.4 (50)	50/50		18.6 (50)	96	50/50	17.7 (50)	91	50/50	14.6 (50)	75	50/50
3-7	20.4 (48)	50/50		19.3 (49)	95	50/50	18.6 (50)	91	50/50	14.8 (50)	73	50/50
4-7	20.0 (50)	50/50		18.8 (50)	94	50/50	18.0 (50)	90	50/50	14.7 (50)	74	50/50
5-7	20.0 (49)	50/50		19.0 (50)	95	50/50	18.2 (49)	91	50/50	15.3 (50)	77	50/50
6-7	19.6 (49)	50/50		18.3 (49)	93	50/50	18.1 (50)	92	50/50	15.2 (50)	78	50/50
7-7	19.0 (49)	50/50		18.3 (50)	96	50/50	17.6 (50)	93	50/50	14.6 (50)	77	50/50
8-7	18.5 (49)	50/50		17.9 (50)	97	50/50	17.3 (50)	94	50/50	14.3 (50)	77	50/50
9-7	18.5 (49)	50/50		18.0 (50)	97	50/50	17.2 (50)	93	50/50	14.5 (50)	78	50/50
10-7	19.0 (50)	50/50		17.8 (50)	94	50/50	17.1 (50)	90	50/50	14.2 (50)	75	50/50
11-7	18.3 (50)	50/50		17.2 (50)	94	50/50	16.5 (50)	90	50/50	13.9 (50)	76	50/50
12-7	18.0 (50)	50/50		17.0 (50)	94	50/50	16.1 (50)	89	50/50	13.6 (50)	76	50/50
13-7	18.2 (50)	50/50		16.9 (50)	93	50/50	16.2 (50)	89	50/50	13.6 (50)	75	50/50
14-7	17.6 (49)	50/50		16.9 (50)	96	50/50	16.0 (50)	91	50/50	13.4 (50)	76	50/50
18-7	17.2 (50)	50/50		16.7 (50)	97	50/50	16.1 (50)	94	50/50	13.6 (50)	79	50/50
22-7	17.4 (50)	50/50		16.7 (50)	96	50/50	15.9 (50)	91	50/50	13.5 (50)	78	50/50
26-7	17.0 (50)	50/50		16.3 (50)	96	50/50	15.5 (50)	91	50/50	13.2 (50)	78	50/50
30-7	16.9 (50)	50/50		16.7 (50)	99	50/50	15.8 (50)	93	50/50	13.8 (50)	82	50/50
34-7	16.9 (50)	50/50		16.4 (50)	97	50/50	15.6 (50)	92	50/50	13.8 (50)	82	50/50
38-7	16.7 (50)	50/50		16.3 (49)	98	49/50	15.6 (50)	93	50/50	13.9 (50)	83	50/50
42-7	16.6 (49)	49/50		16.4 (49)	99	49/50	15.5 (49)	93	50/50	13.6 (50)	82	50/50
46-7	16.9 (49)	49/50		16.6 (49)	98	49/50	15.9 (49)	94	49/50	14.0 (50)	83	50/50
50-7	17.2 (49)	49/50		16.7 (49)	97	49/50	16.0 (48)	93	48/50	14.0 (50)	81	50/50
54-7	17.4 (49)	49/50		17.0 (49)	98	49/50	16.2 (48)	93	48/50	14.2 (50)	82	50/50
58-7	17.1 (49)	49/50		16.5 (49)	96	49/50	15.8 (48)	92	48/50	13.6 (49)	80	49/50
62-7	16.8 (49)	49/50		16.7 (48)	99	49/50	15.6 (48)	93	48/50	13.6 (48)	81	48/50
66-7	17.1 (49)	49/50		17.4 (49)	102	49/50	16.4 (47)	96	47/50	14.5 (48)	85	48/50
70-7	17.0 (49)	49/50		17.1 (49)	101	49/50	16.5 (46)	97	47/50	14.4 (48)	85	48/50
74-7	18.2 (49)	49/50		17.5 (48)	96	48/50	16.8 (46)	92	47/50	14.8 (48)	81	48/50
78-7	17.8 (49)	49/50		17.7 (48)	99	48/50	16.9 (46)	95	46/50	15.3 (47)	86	47/50
82-7	18.7 (48)	48/50		18.9 (46)	101	46/50	17.8 (46)	95	46/50	15.4 (45)	82	47/50
86-7	19.4 (48)	48/50		19.7 (46)	102	46/50	18.2 (46)	94	46/50	16.9 (47)	87	47/50
90-7	19.3 (47)	48/50		18.5 (41)	96	45/50	17.7 (42)	92	44/50	15.6 (45)	81	45/50
94-7	19.9 (44)	45/50		19.8 (40)	99	44/50	19.3 (38)	97	39/50	16.0 (38)	80	40/50
98-7	19.9 (43)	43/50		22.0 (42)	111	43/50	20.4 (36)	103	36/50	16.4 (39)	82	39/50
102-7	19.1 (39)	42/50		19.8 (30)	104	40/50	19.4 (30)	102	34/50	17.3 (36)	91	36/50
104-7	18.9 (36)	40/50		20.6 (33)	109	39/50	18.7 (28)	99	33/50	17.4 (34)	92	34/50

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

Av. WC. : g

TABLE E 2

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN WATER CONSUMPTION (WC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			625 ppm			1250 ppm			2500 ppm		
	Av. WC.	No. of Surviv. <50>		Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.
1-7	15.5 (49)	50/50		15.1 (49)	97	50/50	14.2 (49)	92	50/50	11.2 (50)	72	50/50
2-7	17.2 (46)	50/50		16.1 (47)	94	50/50	14.6 (47)	85	50/50	10.9 (50)	63	50/50
3-7	18.6 (49)	50/50		18.3 (49)	98	50/50	15.9 (49)	85	50/50	10.9 (50)	59	50/50
4-7	16.9 (47)	50/50		16.7 (46)	99	50/50	14.9 (48)	88	50/50	10.3 (50)	61	50/50
5-7	17.2 (46)	50/50		17.6 (47)	102	50/50	14.0 (48)	81	50/50	10.5 (50)	61	50/50
6-7	17.8 (44)	50/50		16.8 (44)	94	50/50	14.2 (48)	80	50/50	10.5 (50)	59	50/50
7-7	18.4 (45)	50/50		16.9 (42)	92	50/50	14.0 (48)	76	50/50	10.1 (50)	55	50/50
8-7	17.8 (42)	50/50		16.6 (44)	93	50/50	14.0 (50)	79	50/50	10.0 (50)	56	50/50
9-7	18.0 (45)	50/50		17.0 (45)	94	50/50	14.2 (50)	79	50/50	9.5 (50)	53	50/50
10-7	18.7 (47)	50/50		16.4 (41)	88	50/50	13.4 (49)	72	50/50	9.5 (50)	51	50/50
11-7	18.9 (45)	50/50		16.8 (45)	89	50/50	13.7 (48)	72	50/50	9.5 (50)	50	50/50
12-7	17.7 (44)	50/50		16.8 (41)	95	50/50	13.8 (49)	78	50/50	9.7 (50)	55	50/50
13-7	17.6 (45)	50/50		15.9 (40)	90	50/50	13.6 (50)	77	50/50	9.4 (50)	53	50/50
14-7	18.9 (42)	50/50		17.3 (44)	92	50/50	14.0 (49)	74	50/50	9.7 (50)	51	50/50
18-7	19.7 (41)	50/50		18.1 (39)	92	50/50	14.0 (48)	71	50/50	9.8 (50)	50	50/50
22-7	19.9 (44)	50/50		17.7 (41)	89	50/50	14.4 (47)	72	50/50	9.9 (50)	50	50/50
26-7	19.3 (45)	50/50		18.2 (40)	94	50/50	14.8 (46)	77	50/50	10.0 (50)	52	50/50
30-7	18.1 (48)	50/50		17.0 (42)	94	50/50	14.4 (48)	80	50/50	9.7 (50)	54	50/50
34-7	17.7 (48)	50/50		17.0 (45)	96	50/50	14.3 (48)	81	50/50	10.1 (49)	57	49/50
38-7	17.3 (47)	50/50		16.1 (45)	93	50/50	13.3 (48)	77	50/50	10.1 (49)	58	49/50
42-7	16.8 (47)	50/50		16.4 (45)	98	50/50	14.5 (49)	86	50/50	10.4 (49)	62	49/50
46-7	17.1 (48)	50/50		17.2 (45)	101	50/50	14.7 (48)	86	50/50	10.7 (49)	63	49/50
50-7	15.5 (48)	50/50		16.1 (46)	104	50/50	14.1 (48)	91	50/50	10.9 (49)	70	49/50
54-7	15.1 (50)	50/50		15.5 (49)	103	50/50	13.7 (50)	91	50/50	10.8 (48)	72	48/50
58-7	15.3 (47)	49/50		15.7 (47)	103	50/50	13.4 (49)	88	50/50	11.5 (48)	75	48/50
62-7	15.6 (48)	49/50		16.4 (48)	105	50/50	13.7 (50)	88	50/50	10.9 (47)	70	47/50
66-7	15.4 (49)	49/50		15.6 (49)	101	50/50	13.2 (48)	86	49/50	11.4 (46)	74	46/50
70-7	14.9 (49)	49/50		14.5 (49)	97	49/50	12.9 (48)	87	48/50	11.6 (46)	78	46/50
74-7	15.7 (49)	49/50		14.6 (48)	93	48/50	13.4 (48)	85	48/50	11.9 (45)	76	45/50
78-7	15.6 (48)	48/50		15.9 (47)	102	47/50	13.6 (48)	87	48/50	12.1 (43)	78	43/50
82-7	16.4 (47)	47/50		16.7 (46)	102	47/50	14.8 (48)	90	48/50	12.9 (39)	79	39/50
86-7	17.5 (46)	47/50		16.2 (46)	93	47/50	15.0 (47)	86	47/50	13.5 (39)	77	39/50
90-7	16.5 (47)	47/50		15.5 (45)	94	46/50	14.3 (45)	87	45/50	13.1 (39)	79	39/50
94-7	16.4 (45)	46/50		16.3 (42)	99	43/50	15.2 (44)	93	45/50	13.1 (37)	80	37/50
98-7	17.4 (43)	44/50		17.0 (42)	98	42/50	15.5 (44)	89	45/50	13.2 (35)	76	35/50
102-7	17.9 (41)	43/50		17.5 (41)	98	41/50	15.5 (43)	87	44/50	13.6 (35)	76	35/50
104-7	17.1 (40)	43/50		17.4 (40)	102	40/50	15.6 (41)	91	42/50	13.7 (35)	80	35/50

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

Av. WC. : g

TABLE E 3

WATER CONSUMPTION CHANGES: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7 (3)	week-day (effective) 2-7 (3)	3-7 (3)	4-7 (3)	5-7 (3)	6-7 (3)	7-7 (3)
Control	17.5 ± 1.2	19.4 ± 1.9	20.4 ± 1.5	20.0 ± 1.8	20.0 ± 1.5	19.6 ± 2.0	19.0 ± 1.6
625 ppm	17.0 ± 1.1	18.6 ± 1.4	19.3 ± 1.8**	18.8 ± 1.4**	19.0 ± 1.4**	18.3 ± 1.2**	18.3 ± 1.7**
1250 ppm	16.3 ± 1.3**	17.7 ± 1.3**	18.6 ± 1.7**	18.0 ± 1.2**	18.2 ± 1.2**	18.1 ± 2.1**	17.6 ± 1.4**
2500 ppm	13.8 ± 1.0**	14.6 ± 1.4**	14.8 ± 1.0**	14.7 ± 0.9**	15.3 ± 0.9**	15.2 ± 1.0**	14.6 ± 1.1**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day (effective)					
	8-7 (3)		9-7 (3)		10-7 (3)		11-7 (3)	
Control	18.5 ± 1.4		18.5 ± 1.5		19.0 ± 1.8		18.3 ± 1.7	
625 ppm	17.9 ± 1.3		18.0 ± 1.5		17.8 ± 1.1**		17.2 ± 1.2**	
1250 ppm	17.3 ± 1.6**		17.2 ± 1.4**		17.1 ± 1.2**		16.5 ± 1.1**	
2500 ppm	14.3 ± 1.0**		14.5 ± 0.7**		14.2 ± 0.9**		13.9 ± 0.9**	

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration 18-7 (3)	week-day (effective) 22-7 (3)	26-7 (3)	30-7 (3)	34-7 (3)	38-7 (3)	42-7 (3)
Control	17.2 ± 1.4	17.4 ± 1.7	17.0 ± 2.1	16.9 ± 1.6	16.9 ± 1.2	16.7 ± 1.0	16.6 ± 1.1
625 ppm	16.7 ± 1.1	16.7 ± 1.2	16.3 ± 0.9	16.7 ± 1.3	16.4 ± 1.1*	16.3 ± 1.4*	16.4 ± 1.2
1250 ppm	16.1 ± 1.0**	15.9 ± 1.0**	15.5 ± 1.0**	15.8 ± 0.9**	15.6 ± 0.9**	15.6 ± 1.0**	15.5 ± 1.0**
2500 ppm	13.6 ± 0.9**	13.5 ± 0.8**	13.2 ± 0.9**	13.8 ± 1.0**	13.8 ± 0.8**	13.9 ± 0.9**	13.6 ± 0.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 46-7 (3)	week-day (effective) 50-7 (3)	54-7 (3)	58-7 (3)	62-7 (3)	66-7 (3)	70-7 (3)
Control	16.9 ± 1.2	17.2 ± 1.3	17.4 ± 1.2	17.1 ± 1.3	16.8 ± 1.3	17.1 ± 1.4	17.0 ± 1.5
625 ppm	16.6 ± 1.1	16.7 ± 1.2	17.0 ± 1.4	16.5 ± 1.6	16.7 ± 1.6	17.4 ± 1.6	17.1 ± 1.8
1250 ppm	15.9 ± 1.1**	16.0 ± 1.0**	16.2 ± 1.5**	15.8 ± 1.4**	15.6 ± 2.2**	16.4 ± 1.3	16.5 ± 1.7
2500 ppm	14.0 ± 1.1**	14.0 ± 1.0**	14.2 ± 1.1**	13.6 ± 1.2**	13.6 ± 1.1**	14.5 ± 1.5**	14.4 ± 1.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 74-7 (3)	week-day (effective) 78-7 (3)	82-7 (3)	86-7 (3)	90-7 (3)	94-7 (3)	98-7 (3)
Control	18.2± 1.7	17.8± 2.5	18.7± 2.7	19.4± 2.6	19.3± 3.3	19.9± 3.8	19.9± 4.5
625 ppm	17.5± 2.6	17.7± 2.8	18.9± 3.3	19.7± 4.3	18.5± 4.0	19.8± 4.2	22.0± 7.8
1250 ppm	16.8± 1.3**	16.9± 1.8*	17.8± 2.3	18.2± 2.9	17.7± 3.0	19.3± 4.0	20.4± 6.2
2500 ppm	14.8± 2.4**	15.3± 2.5**	15.4± 2.0**	16.9± 4.7**	15.6± 3.8**	16.0± 2.3**	16.4± 5.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day (effective)	
	102-7 (3)	104-7 (3)
Control	19.1 ± 4.9	18.9 ± 4.1
625 ppm	19.8 ± 4.3	20.6 ± 4.5
1250 ppm	19.4 ± 4.0	18.7 ± 3.2
2500 ppm	17.3 ± 3.9	17.4 ± 4.8

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E 4

WATER CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week-day(effective)						
	1-7 (3)	2-7 (3)	3-7 (3)	4-7 (3)	5-7 (3)	6-7 (3)	7-7 (3)
Control	15.5± 1.6	17.2± 3.0	18.6± 5.9	16.9± 3.0	17.2± 3.1	17.8± 4.0	18.4± 4.7
625 ppm	15.1± 1.3	16.1± 2.2	18.3± 6.1	16.7± 4.2	17.6± 4.1	16.8± 3.8	16.9± 4.1
1250 ppm	14.2± 1.2**	14.6± 2.2**	15.9± 5.2**	14.9± 3.8**	14.0± 1.8**	14.2± 2.2**	14.0± 2.5**
2500 ppm	11.2± 1.0**	10.9± 0.7**	10.9± 0.8**	10.3± 0.9**	10.5± 1.1**	10.5± 1.0**	10.1± 1.5**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7 (3)	week-day (effective) 9-7 (3)	10-7 (3)	11-7 (3)	12-7 (3)	13-7 (3)	14-7 (3)
Control	17.8± 3.8	18.0± 4.1	18.7± 4.0	18.9± 4.6	17.7± 3.7	17.6± 3.5	18.9± 4.2
625 ppm	16.6± 3.7	17.0± 4.6	16.4± 3.3**	16.8± 3.7	16.8± 3.9	15.9± 3.5*	17.3± 3.9
1250 ppm	14.0± 3.2**	14.2± 4.3**	13.4± 2.0**	13.7± 2.9**	13.8± 3.3**	13.6± 3.4**	14.0± 3.3**
2500 ppm	10.0± 2.4**	9.5± 1.3**	9.5± 1.9**	9.5± 1.4**	9.7± 1.3**	9.4± 0.9**	9.7± 1.3**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day (effective)							
	18-7 (3)		22-7 (3)		26-7 (3)		30-7 (3)		34-7 (3)	
Control	19.7 ± 4.6		19.9 ± 4.6		19.3 ± 4.1		18.1 ± 4.4		17.7 ± 4.4	
625 ppm	18.1 ± 4.9		17.7 ± 4.4*		18.2 ± 5.3		17.0 ± 4.6		17.0 ± 4.5	
1250 ppm	14.0 ± 3.0**		14.4 ± 3.8**		14.8 ± 3.7**		14.4 ± 3.7**		14.3 ± 3.7**	
2500 ppm	9.8 ± 1.1**		9.9 ± 1.0**		10.0 ± 1.2**		9.7 ± 1.0**		10.1 ± 0.9**	

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration 46-7 (3)	week-day (effective) 50-7 (3)	54-7 (3)	58-7 (3)	62-7 (3)	66-7 (3)	70-7 (3)
Control	17.1 ± 3.4	15.5 ± 3.6	15.1 ± 2.8	15.3 ± 3.1	15.6 ± 3.2	15.4 ± 2.8	14.9 ± 2.5
625 ppm	17.2 ± 4.5	16.1 ± 4.2	15.5 ± 3.5	15.7 ± 3.8	16.4 ± 4.3	15.6 ± 4.4	14.5 ± 3.3
1250 ppm	14.7 ± 3.9**	14.1 ± 3.5**	13.7 ± 3.1**	13.4 ± 2.4**	13.7 ± 3.2**	13.2 ± 1.9**	12.9 ± 1.5**
2500 ppm	10.7 ± 1.1**	10.9 ± 1.9**	10.8 ± 1.6**	11.5 ± 1.9**	10.9 ± 1.2**	11.4 ± 1.4**	11.6 ± 1.9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day (effective)											
	74-7 (3)		78-7 (3)		82-7 (3)		86-7 (3)		90-7 (3)		94-7 (3)		98-7 (3)	
Control	15.7±	2.5	15.6±	2.8	16.4±	2.7	17.5±	3.8	16.5±	3.0	16.4±	2.8	17.4±	3.6
625 ppm	14.6±	3.1*	15.9±	3.6	16.7±	3.8	16.2±	3.7	15.5±	3.5	16.3±	3.2	17.0±	3.9
1250 ppm	13.4±	1.6**	13.6±	1.9**	14.8±	2.7**	15.0±	2.4**	14.3±	2.4**	15.2±	3.4*	15.5±	3.3*
2500 ppm	11.9±	1.7**	12.1±	1.4**	12.9±	1.6**	13.5±	1.6**	13.1±	2.5**	13.1±	2.1**	13.2±	2.1**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration		week-day (effective)	
	102-7 (3)		104-7 (3)	
Control	17.9 ±	3.9	17.1 ±	3.2
625 ppm	17.5 ±	4.3	17.4 ±	3.8
1250 ppm	15.5 ±	3.0**	15.6 ±	3.1
2500 ppm	13.6 ±	2.9**	13.7 ±	3.0**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE F 1

CHEMICAL INTAKE CHANGES: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)													
	1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	69±	4	62±	4	57±	5	50±	3	47±	3	43±	3	41±	3
1250 ppm	133±	9	118±	7	109±	9	96±	6	91±	6	86±	11	79±	6
2500 ppm	230±	14	202±	19	181±	10	163±	7	159±	7	150±	7	138±	8

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI(Crlj [F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)													
	8		9		10		11		12		13		14	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	39±	2	37±	3	36±	2	34±	2	33±	2	32±	2	32±	2
1250 ppm	74±	6	72±	6	69±	5	65±	4	62±	4	61±	3	59±	3
2500 ppm	129±	7	126±	6	121±	7	115±	7	111±	6	109±	6	105±	6

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)		18		22		26		30		34		38		42	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	30±	2	28±	2	27±	1	27±	2	25±	2	25±	2	25±	2	25±	2
1250 ppm	57±	4	54±	3	51±	3	50±	3	48±	2	48±	2	46±	3	46±	3
2500 ppm	102±	6	98±	5	93±	5	94±	6	91±	5	91±	4	87±	5	87±	5

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)													
	46		50		54		58		62		66		70	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	24±	2	24±	2	24±	2	23±	2	23±	2	24±	2	23±	2
1250 ppm	47±	3	46±	3	46±	4	44±	4	44±	6	45±	3	45±	5
2500 ppm	89±	5	88±	6	88±	6	83±	5	82±	5	88±	7	87±	10

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration		(weeks)											
	74		78		82		86		90		94		98	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	24±	3	24±	3	25±	4	27±	5	26±	5	28±	7	31±	11
1250 ppm	46±	4	46±	4	49±	6	51±	8	50±	8	56±	15	62±	27
2500 ppm	89±	13	92±	15	94±	13	105±	35	98±	28	101±	16	106±	40

(HAN300)

BAIS 5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)			
	102		104	
Control	0±	0	0±	0
625 ppm	29±	9	31±	11
1250 ppm	59±	19	59±	19
2500 ppm	116±	30	118±	35

(HAN300)

BAIS 5

TABLE F 2

CHEMICAL INTAKE CHANGES: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)		1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	80±	6	76±	9	81±	26	70±	17	70±	17	65±	15	63±	15		
1250 ppm	152±	11	141±	19	143±	47	126±	33	113±	12	110±	18	105±	17		
2500 ppm	248±	19	217±	11	203±	13	182±	13	177±	17	172±	15	160±	20		

(HAN300)

BAIS 5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)													
	8		9		10		11		12		13		14	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	61±	14	61±	16	58±	12	58±	12	57±	13	53±	11	56±	13
1250 ppm	103±	25	102±	30	94±	14	93±	18	94±	23	91±	22	92±	21
2500 ppm	154±	35	143±	16	141±	26	139±	19	141±	18	135±	11	137±	17

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)													
	18	22	26	30	34	38	42							
Control	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0							
625 ppm	57± 16	55± 14	54± 16	50± 15	49± 14	45± 13	45± 11							
1250 ppm	90± 18	89± 24	90± 23	85± 21	82± 21	75± 13	81± 20							
2500 ppm	135± 14	133± 11	133± 13	126± 10	128± 9	128± 11	130± 12							

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)													
	46		50		54		58		62		66		70	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	46±	13	42±	11	39±	9	39±	10	40±	10	37±	11	34±	8
1250 ppm	80±	21	76±	18	72±	17	69±	14	69±	19	64±	10	63±	9
2500 ppm	133±	11	136±	32	130±	24	136±	27	127±	15	132±	19	133±	29

(HAN300)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration (weeks)													
	74		78		82		86		90		94		98	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
625 ppm	34±	6	35±	9	36±	8	35±	8	33±	8	34±	7	36±	9
1250 ppm	63±	9	63±	10	67±	13	68±	12	64±	12	67±	17	68±	17
2500 ppm	134±	24	132±	22	137±	21	142±	23	138±	30	138±	28	136±	27

(HAN300)

BAIS 5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)			
	102		104	
Control	0±	0	0±	0
625 ppm	38±	11	37±	9
1250 ppm	69±	15	69±	16
2500 ppm	140±	30	142±	34

(HAN300)

BAIS 5

TABLE G 1

HEMATOLOGY: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	39	7.71±	1.78	12.8±	2.9	38.5±	7.2	51.6±	10.5	16.9±	2.6	32.9±	2.1	944±	355
625 ppm	37	7.88±	1.35	13.1±	2.3	39.2±	5.8	50.0±	3.0	16.6±	1.1	33.2±	1.3	958±	331
1250 ppm	32	8.25±	1.07	13.7±	1.9	40.7±	5.1	49.3±	2.3	16.6±	1.1	33.6±	1.1	959±	257
2500 ppm	34	8.17±	1.79	13.6±	2.9	40.5±	7.7	50.0±	3.5	16.7±	1.1	33.4±	1.2	970±	420

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	39	7.0±	10.4	0.8±	0.5
625 ppm	37	4.7±	3.6	0.8±	0.5
1250 ppm	32	3.5±	1.7	0.7±	0.3
2500 ppm	34	4.4±	3.0	0.8±	0.2

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	39	10.23 ±	13.79	47 ±	13	46 ±	13	5 ±	1	1 ±	1	0 ±	1	2 ±	1
625 ppm	37	6.25 ±	1.83	50 ±	10	42 ±	9	5 ±	1	2 ±	1	0 ±	0	2 ±	1
1250 ppm	32	5.98 ±	1.93	50 ±	6	42 ±	6	5 ±	1	1 ±	1	0 ±	0	2 ±	1
2500 ppm	34	6.66 ±	1.77	49 ±	9	43 ±	9	5 ±	2	2 ±	1	0 ±	0	2 ±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE G 2

HEMATOLOGY: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	43	8.20±	0.87	14.8±	1.5	42.4±	3.6	51.9±	2.8	18.0±	1.0	34.8±	1.2	698±	138
625 ppm	40	8.21±	0.91	14.7±	1.5	42.4±	3.8	51.9±	2.9	18.0±	0.8	34.7±	0.9	711±	179
1250 ppm	42	7.97±	1.17	14.4±	2.2	41.5±	5.2	52.3±	3.1	18.0±	1.2	34.5±	1.9	687±	152
2500 ppm	35	8.31±	0.56	14.8±	0.9	42.6±	2.5	51.3±	1.1	17.9±	0.5	34.8±	0.5	724±	92

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
MEASURE TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	43	3.0±	2.0	0.6±	0.2
625 ppm	40	3.6±	4.0	0.7±	0.3
1250 ppm	42	4.3±	6.0	0.7±	0.3
2500 ppm	35	2.8±	1.0	0.7±	0.2

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI Crlj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		10 ³ /μl		NEUTRO		LYMPHO									
Control	43	3.87 ± 2.68		43 ± 10		50 ± 11		5 ± 1		2 ± 1		0 ± 0		1 ± 1	
625 ppm	40	3.17 ± 1.06		42 ± 9		51 ± 9		4 ± 1		2 ± 1		0 ± 0		1 ± 1	
1250 ppm	42	4.33 ± 6.39		44 ± 11		49 ± 10		4 ± 1**		2 ± 1		0 ± 0		2 ± 3**	
2500 ppm	35	3.25 ± 1.69		42 ± 8		48 ± 10		6 ± 3**		2 ± 1		0 ± 0		2 ± 3*	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE H 1

BIOCHEMISTRY: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 MEASURE TIME : 1
 SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	39	6.8±	0.5	2.9±	0.3	0.7±	0.2	1.15±	5.72	138±	25	182±	51	131±	83
625 ppm	37	6.7±	0.3	2.8±	0.2	0.7±	0.1	0.15±	0.06	140±	27	190±	69	140±	130
1250 ppm	32	6.9±	0.3	2.8±	0.3	0.7±	0.1	0.14±	0.04	141±	24	204±	67	155±	102
2500 ppm	34	6.7±	0.4	2.8±	0.3	0.7±	0.1	0.15±	0.04	142±	16	199±	65	132±	81

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	39	265±	62	122±	179	40±	20	159±	219	384±	214	8±	6	111±	100
625 ppm	37	277±	95	85±	47	38±	13	103±	30	311±	84	7±	4	95±	21
1250 ppm	32	289±	95	104±	190	49±	86	112±	40	301±	95	9±	6	103±	43
2500 ppm	34	280±	88	78±	25	36±	10	100±	28	338±	81	13±	7**	94±	21

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	39	19.5±	4.5	0.6±	0.1	142±	2	3.8±	0.3	106±	2	10.7±	0.3	4.0±	0.7
625 ppm	37	23.6±	12.0	0.8±	0.4	142±	1	3.7±	0.3	106±	2	10.8±	0.7	4.3±	1.2
1250 ppm	32	24.0±	7.7**	0.7±	0.3	142±	1	3.7±	0.4	106±	1	10.9±	0.5	4.1±	0.8
2500 ppm	34	24.6±	6.4**	0.7±	0.1	142±	2	3.7±	0.3	106±	2	10.6±	0.5	4.0±	0.5

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE H 2

BIOCHEMISTRY: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	43	7.1±	0.5	3.6±	0.4	1.0±	0.1	0.12±	0.02	142±	17	151±	51	125±	126
625 ppm	40	7.2±	0.4	3.7±	0.3	1.0±	0.1	0.13±	0.05	141±	14	151±	36	95±	46
1250 ppm	42	7.1±	0.4	3.6±	0.3	1.0±	0.1	0.13±	0.07	140±	15	142±	46	93±	54
2500 ppm	35	7.1±	0.4	3.6±	0.3	1.0±	0.1	0.13±	0.01**	142±	12	147±	35	77±	55**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	43	269±	82	112±	58	46±	21	134±	56	200±	150	2±	1	80±	23
625 ppm	40	268±	51	143±	89	56±	30	158±	73	194±	111	2±	2	80±	16
1250 ppm	42	255±	69	131±	87	49±	22	152±	78	244±	421	3±	3	83±	21
2500 ppm	35	258±	52	104±	38	44±	12	122±	50	204±	79	3±	3	82±	14

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	43	17.5±	2.9	0.6±	0.1	141±	2	3.5±	0.3	104±	2	10.8±	0.3	3.8±	0.8
625 ppm	40	17.1±	1.9	0.6±	0.1	141±	2	3.4±	0.4	104±	2	10.8±	0.4	3.5±	0.7
1250 ppm	42	16.8±	1.9	0.6±	0.1	141±	2	3.5±	0.4	104±	2	10.7±	0.4	3.6±	0.7
2500 ppm	35	18.9±	3.0**	0.5±	0.1	141±	2	3.4±	0.4	104±	2	10.7±	0.4	3.8±	0.5

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE I 1

URINALYSIS: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	41	0	2	4	10	12	10	3		0	0	0	1	11	29		41	0	0	0	0	0		33	8	0	0	0	0		39	0	0	2	
625 ppm	39	0	1	4	8	12	10	4		0	0	1	0	11	27		39	0	0	0	0	0		35	3	1	0	0	0		39	0	0	0	
1250 ppm	34	0	0	5	5	7	13	4		0	0	0	0	6	28		34	0	0	0	0	0		28	6	0	0	0	0		34	0	0	0	
2500 ppm	34	0	0	3	11	8	12	0		0	0	0	0	4	30		34	0	0	0	0	0		27	7	0	0	0	0		34	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0711

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

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	41	37	1	1	2	0		40	0	1	0	0	
625 ppm	39	38	0	0	0	1		39	0	0	0	0	
1250 ppm	34	34	0	0	0	0		34	0	0	0	0	
2500 ppm	34	34	0	0	0	0		34	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS5

TABLE I 2

URINALYSIS: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
MEASURE TIME : 1
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH								CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin					CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5	—		±	+	2+	3+	4+	—		±	+	2+	3+	4+	—		±	+	2+	3+	4+	—		+	2+	3+					
Control	43	0	0	0	10	13	15	5			0	0	0	9	28	6			43	0	0	0	0	0	0			25	18	0	0	0	0			43	0	0	0
625 ppm	40	0	0	1	3	9	17	10			0	0	0	12	25	3			40	0	0	0	0	0	0			21	19	0	0	0	0			40	0	0	0
1250 ppm	43	0	2	1	6	9	14	11			0	0	1	10	28	4			43	0	0	0	0	0	0			21	21	0	0	1	0			43	0	0	0
2500 ppm	35	0	1	0	6	12	12	4			0	0	0	2	30	3			35	0	0	0	0	0	0			18	16	1	0	0	0			35	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	43	42	1	0	0	0		43	0	0	0	0	
625 ppm	40	40	0	0	0	0		40	0	0	0	0	
1250 ppm	43	41	1	1	0	0		43	0	0	0	0	
2500 ppm	35	30	0	0	0	5	*	35	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE J 1

GROSS FINDINGS: MALE: ALL ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
skin/app	nodule		1 (2)	3 (6)	5 (10)	2 (4)
subcutis	jaundice		2 (4)	1 (2)	1 (2)	0 (0)
	mass		12 (24)	15 (30)	7 (14)	6 (12)
nasal cavit	nodule		0 (0)	1 (2)	1 (2)	0 (0)
lung	red		0 (0)	0 (0)	1 (2)	0 (0)
	white zone		0 (0)	0 (0)	2 (4)	1 (2)
	nodule		1 (2)	2 (4)	1 (2)	2 (4)
	adhesion		0 (0)	0 (0)	1 (2)	0 (0)
lymph node	enlarged		1 (2)	2 (4)	1 (2)	0 (0)
spleen	enlarged		5 (10)	5 (10)	4 (8)	1 (2)
	white zone		0 (0)	2 (4)	1 (2)	0 (0)
	black zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	1 (2)	2 (4)	0 (0)
	deformed		0 (0)	0 (0)	1 (2)	0 (0)
heart	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
tongue	nodule		0 (0)	1 (2)	0 (0)	1 (2)
stomach	forestomach:ulcer		1 (2)	0 (0)	0 (0)	2 (4)
	forestomach:erosion		0 (0)	1 (2)	1 (2)	0 (0)
	forestomach:nodule		0 (0)	0 (0)	0 (0)	1 (2)
	forestomach:thick		0 (0)	0 (0)	1 (2)	0 (0)
	glandular stomach:ulcer		0 (0)	0 (0)	1 (2)	0 (0)
	glandular stomach:erosion		0 (0)	0 (0)	1 (2)	0 (0)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
stomach	glandular stomach:nodule		1 (2)	0 (0)	0 (0)	0 (0)
	glandular stomach:thick		0 (0)	1 (2)	0 (0)	0 (0)
small intes	red zone		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	gas		0 (0)	1 (2)	0 (0)	1 (2)
rectum	nodule		0 (0)	0 (0)	0 (0)	1 (2)
large intes	gas		0 (0)	1 (2)	0 (0)	1 (2)
liver	enlarged		1 (2)	1 (2)	1 (2)	1 (2)
	white zone		1 (2)	0 (0)	1 (2)	1 (2)
	nodule		2 (4)	1 (2)	1 (2)	2 (4)
	rough		1 (2)	1 (2)	1 (2)	0 (0)
	herniation		5 (10)	3 (6)	5 (10)	7 (14)
pancreas	nodule		0 (0)	1 (2)	1 (2)	0 (0)
kidney	enlarged		1 (2)	0 (0)	1 (2)	0 (0)
	white zone		1 (2)	1 (2)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	granular		4 (8)	10 (20)	8 (16)	6 (12)
urin bladd	red		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	urine:marked retention		1 (2)	2 (4)	1 (2)	0 (0)
	urine:red		0 (0)	0 (0)	1 (2)	1 (2)
pituitary	enlarged		6 (12)	9 (18)	7 (14)	7 (14)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
pituitary	atrophic		0 (0)	1 (2)	0 (0)	0 (0)
	red zone		6 (12)	7 (14)	8 (16)	2 (4)
	nodule		5 (10)	2 (4)	3 (6)	0 (0)
	cyst		1 (2)	0 (0)	0 (0)	1 (2)
thyroid	enlarged		4 (8)	3 (6)	5 (10)	6 (12)
	red zone		0 (0)	2 (4)	0 (0)	0 (0)
	nodule		2 (4)	0 (0)	1 (2)	3 (6)
adrenal	enlarged		1 (2)	3 (6)	3 (6)	0 (0)
testis	nodule		25 (50)	27 (54)	31 (62)	29 (58)
prostate	enlarged		0 (0)	0 (0)	1 (2)	0 (0)
brain	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
	red zone		1 (2)	0 (0)	1 (2)	1 (2)
	nodule		1 (2)	0 (0)	0 (0)	1 (2)
spinal cord	red zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
eye	turbid		1 (2)	2 (4)	0 (0)	1 (2)
	white		5 (10)	5 (10)	8 (16)	3 (6)
	red		0 (0)	1 (2)	0 (0)	1 (2)
Harder gl	nodule		1 (2)	0 (0)	0 (0)	0 (0)
Zymbal gl	nodule		1 (2)	0 (0)	0 (0)	2 (4)
bone	fracture		0 (0)	1 (2)	0 (0)	0 (0)
mediastinum	mass		0 (0)	0 (0)	0 (0)	1 (2)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
peritoneum	nodule		1 (2)	2 (4)	1 (2)	4 (8)
abdominal c	hemorrhage		0 (0)	0 (0)	0 (0)	1 (2)
	ascites		2 (4)	2 (4)	1 (2)	2 (4)
thoracic ca	hemorrhage		0 (0)	0 (0)	0 (0)	1 (2)
	mass		0 (0)	0 (0)	1 (2)	0 (0)
	pleural fluid		1 (2)	2 (4)	2 (4)	0 (0)
other	tail:nodule		1 (2)	0 (0)	1 (2)	0 (0)
	eye lid:nodule		0 (0)	0 (0)	0 (0)	1 (2)
	ear:nodule		1 (2)	0 (0)	1 (2)	0 (0)
	hindlimb:nodule		0 (0)	0 (0)	1 (2)	0 (0)
	upper jaw:nodule		0 (0)	0 (0)	2 (4)	0 (0)
	nose:nodule		0 (0)	1 (2)	0 (0)	1 (2)
whole body	anemic		2 (4)	0 (0)	1 (2)	0 (0)

TABLE J 2

GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	625 ppm 11 (%)	1250 ppm 17 (%)	2500 ppm 16 (%)
skin/app	nodule		0 (0)	0 (0)	1 (6)	0 (0)
subcutis	jaundice		1 (10)	1 (9)	1 (6)	0 (0)
	mass		2 (20)	2 (18)	4 (24)	2 (13)
nasal cavit	nodule		0 (0)	1 (9)	0 (0)	0 (0)
lung	red		0 (0)	0 (0)	1 (6)	0 (0)
	white zone		0 (0)	0 (0)	1 (6)	0 (0)
	nodule		1 (10)	0 (0)	1 (6)	0 (0)
	adhesion		0 (0)	0 (0)	1 (6)	0 (0)
lymph node	enlarged		1 (10)	2 (18)	1 (6)	0 (0)
spleen	enlarged		3 (30)	4 (36)	4 (24)	1 (6)
	white zone		0 (0)	0 (0)	1 (6)	0 (0)
	nodule		0 (0)	1 (9)	0 (0)	0 (0)
	deformed		0 (0)	0 (0)	1 (6)	0 (0)
tongue	nodule		0 (0)	0 (0)	0 (0)	1 (6)
stomach	forestomach:ulcer		1 (10)	0 (0)	0 (0)	2 (13)
	forestomach:erosion		0 (0)	0 (0)	1 (6)	0 (0)
	forestomach:thick		0 (0)	0 (0)	1 (6)	0 (0)
	glandular stomach:ulcer		0 (0)	0 (0)	1 (6)	0 (0)
	glandular stomach:erosion		0 (0)	0 (0)	1 (6)	0 (0)
small intes	red zone		0 (0)	1 (9)	0 (0)	0 (0)
	gas		0 (0)	1 (9)	0 (0)	1 (6)
large intes	gas		0 (0)	1 (9)	0 (0)	1 (6)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	625 ppm 11 (%)	1250 ppm 17 (%)	2500 ppm 16 (%)
liver	enlarged		0 (0)	1 (9)	1 (6)	1 (6)
	white zone		1 (10)	0 (0)	1 (6)	0 (0)
	nodule		0 (0)	0 (0)	1 (6)	0 (0)
	rough		0 (0)	1 (9)	1 (6)	0 (0)
	herniation		1 (10)	1 (9)	2 (12)	3 (19)
pancreas	nodule		0 (0)	0 (0)	1 (6)	0 (0)
kidney	enlarged		1 (10)	0 (0)	1 (6)	0 (0)
	white zone		0 (0)	1 (9)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	1 (6)	0 (0)
	granular		0 (0)	2 (18)	2 (12)	2 (13)
urin bladd	red		0 (0)	0 (0)	1 (6)	0 (0)
	nodule		0 (0)	1 (9)	0 (0)	0 (0)
	urine:marked retention		1 (10)	2 (18)	1 (6)	0 (0)
	urine:red		0 (0)	0 (0)	1 (6)	1 (6)
pituitary	enlarged		4 (40)	2 (18)	3 (18)	4 (25)
	red zone		0 (0)	2 (18)	2 (12)	0 (0)
	nodule		0 (0)	1 (9)	0 (0)	0 (0)
thyroid	enlarged		1 (10)	0 (0)	2 (12)	2 (13)
	red zone		0 (0)	1 (9)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (6)
adrenal	enlarged		0 (0)	0 (0)	2 (12)	0 (0)
testis	nodule		3 (30)	3 (27)	5 (29)	5 (31)

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	625 ppm 11 (%)	1250 ppm 17 (%)	2500 ppm 16 (%)
prostate	enlarged		0 (0)	0 (0)	1 (6)	0 (0)
brain	enlarged		0 (0)	0 (0)	0 (0)	1 (6)
	red zone		1 (10)	0 (0)	1 (6)	1 (6)
	nodule		1 (10)	0 (0)	0 (0)	0 (0)
spinal cord	red zone		0 (0)	0 (0)	1 (6)	0 (0)
	nodule		0 (0)	1 (9)	0 (0)	0 (0)
eye	turbid		0 (0)	1 (9)	0 (0)	0 (0)
	white		1 (10)	1 (9)	1 (6)	1 (6)
	red		0 (0)	1 (9)	0 (0)	1 (6)
Harder gl	nodule		1 (10)	0 (0)	0 (0)	0 (0)
Zymbal gl	nodule		0 (0)	0 (0)	0 (0)	2 (13)
bone	fracture		0 (0)	1 (9)	0 (0)	0 (0)
mediastinum	mass		0 (0)	0 (0)	0 (0)	1 (6)
peritoneum	nodule		0 (0)	0 (0)	1 (6)	1 (6)
abdominal c	hemorrhage		0 (0)	0 (0)	0 (0)	1 (6)
	ascites		2 (20)	0 (0)	1 (6)	1 (6)
thoracic ca	hemorrhage		0 (0)	0 (0)	0 (0)	1 (6)
	mass		0 (0)	0 (0)	1 (6)	0 (0)
	pleural fluid		1 (10)	1 (9)	2 (12)	0 (0)
other	eye lid:nodule		0 (0)	0 (0)	0 (0)	1 (6)
	hindlimb:nodule		0 (0)	0 (0)	1 (6)	0 (0)
whole body	anemic		2 (20)	0 (0)	1 (6)	0 (0)

TABLE J 3

GROSS FINDINGS: MALE: SACRIFICED ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 40 (%)	625 ppm 39 (%)	1250 ppm 33 (%)	2500 ppm 34 (%)
skin/app	nodule		1 (3)	3 (8)	4 (12)	2 (6)
subcutis	jaundice		1 (3)	0 (0)	0 (0)	0 (0)
	mass		10 (25)	13 (33)	3 (9)	4 (12)
nasal cavit	nodule		0 (0)	0 (0)	1 (3)	0 (0)
lung	white zone		0 (0)	0 (0)	1 (3)	1 (3)
	nodule		0 (0)	2 (5)	0 (0)	2 (6)
spleen	enlarged		2 (5)	1 (3)	0 (0)	0 (0)
	white zone		0 (0)	2 (5)	0 (0)	0 (0)
	black zone		0 (0)	0 (0)	1 (3)	0 (0)
	nodule		0 (0)	0 (0)	2 (6)	0 (0)
heart	adhesion		0 (0)	0 (0)	0 (0)	1 (3)
tongue	nodule		0 (0)	1 (3)	0 (0)	0 (0)
stomach	forestomach:erosion		0 (0)	1 (3)	0 (0)	0 (0)
	forestomach:nodule		0 (0)	0 (0)	0 (0)	1 (3)
	glandular stomach:nodule		1 (3)	0 (0)	0 (0)	0 (0)
	glandular stomach:thick		0 (0)	1 (3)	0 (0)	0 (0)
small intes	nodule		0 (0)	1 (3)	0 (0)	0 (0)
rectum	nodule		0 (0)	0 (0)	0 (0)	1 (3)
liver	enlarged		1 (3)	0 (0)	0 (0)	0 (0)
	white zone		0 (0)	0 (0)	0 (0)	1 (3)
	nodule		2 (5)	1 (3)	0 (0)	2 (6)
	rough		1 (3)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control 40 (%)	625 ppm 39 (%)	1250 ppm 33 (%)	2500 ppm 34 (%)
liver	herniation		4 (10)	2 (5)	3 (9)	4 (12)
pancreas	nodule		0 (0)	1 (3)	0 (0)	0 (0)
kidney	white zone		1 (3)	0 (0)	0 (0)	0 (0)
	granular		4 (10)	8 (21)	6 (18)	4 (12)
pituitary	enlarged		2 (5)	7 (18)	4 (12)	3 (9)
	atrophic		0 (0)	1 (3)	0 (0)	0 (0)
	red zone		6 (15)	5 (13)	6 (18)	2 (6)
	nodule		5 (13)	1 (3)	3 (9)	0 (0)
	cyst		1 (3)	0 (0)	0 (0)	1 (3)
thyroid	enlarged		3 (8)	3 (8)	3 (9)	4 (12)
	red zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		2 (5)	0 (0)	1 (3)	2 (6)
adrenal	enlarged		1 (3)	3 (8)	1 (3)	0 (0)
testis	nodule		22 (55)	24 (62)	26 (79)	24 (71)
brain	nodule		0 (0)	0 (0)	0 (0)	1 (3)
eye	turbid		1 (3)	1 (3)	0 (0)	1 (3)
	white		4 (10)	4 (10)	7 (21)	2 (6)
Zymbal gl	nodule		1 (3)	0 (0)	0 (0)	0 (0)
peritoneum	nodule		1 (3)	2 (5)	0 (0)	3 (9)
abdominal c	ascites		0 (0)	2 (5)	0 (0)	1 (3)
thoracic ca	pleural fluid		0 (0)	1 (3)	0 (0)	0 (0)
other	tail:nodule		1 (3)	0 (0)	1 (3)	0 (0)

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	625 ppm	1250 ppm	2500 ppm
			40 (%)	39 (%)	33 (%)	34 (%)
other	ear:nodule		1 (3)	0 (0)	1 (3)	0 (0)
	upper jaw:nodule		0 (0)	0 (0)	2 (6)	0 (0)
	nose:nodule		0 (0)	1 (3)	0 (0)	1 (3)

(HPT080)

BAIS 5

TABLE J 4

GROSS FINDINGS: FEMALE: ALL ANIMALS

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
skin/app	nodule		1 (2)	1 (2)	2 (4)	0 (0)
subcutis	jaundice		0 (0)	1 (2)	1 (2)	0 (0)
	mass		12 (24)	15 (30)	11 (22)	10 (20)
lung	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	1 (2)
	nodule		2 (4)	0 (0)	1 (2)	0 (0)
lymph node	enlarged		0 (0)	1 (2)	0 (0)	0 (0)
spleen	enlarged		4 (8)	2 (4)	5 (10)	2 (4)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
heart	nodule		1 (2)	0 (0)	0 (0)	0 (0)
oral cavity	nodule		1 (2)	0 (0)	0 (0)	0 (0)
tongue	nodule		1 (2)	0 (0)	0 (0)	0 (0)
stomach	forestomach:ulcer		0 (0)	2 (4)	2 (4)	0 (0)
	glandular stomach:ulcer		0 (0)	1 (2)	2 (4)	0 (0)
	glandular stomach:nodule		0 (0)	0 (0)	2 (4)	0 (0)
rectum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
large intes	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	dilated		0 (0)	1 (2)	0 (0)	0 (0)
liver	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (2)
	rough		0 (0)	2 (4)	0 (0)	1 (2)
	herniation		6 (12)	8 (16)	7 (14)	3 (6)

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrjCrj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
pancreas	nodule		1 (2)	0 (0)	0 (0)	0 (0)
kidney	deformed		0 (0)	0 (0)	0 (0)	2 (4)
	granular		1 (2)	1 (2)	0 (0)	0 (0)
	hydronephrosis		0 (0)	0 (0)	1 (2)	0 (0)
urin bladd	urine:marked retention		0 (0)	2 (4)	0 (0)	1 (2)
pituitary	enlarged		7 (14)	8 (16)	9 (18)	3 (6)
	red zone		15 (30)	15 (30)	13 (26)	11 (22)
	nodule		2 (4)	5 (10)	2 (4)	2 (4)
	cyst		1 (2)	0 (0)	1 (2)	0 (0)
thyroid	enlarged		2 (4)	1 (2)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	2 (4)
ovary	enlarged		2 (4)	2 (4)	0 (0)	0 (0)
	cyst		2 (4)	1 (2)	3 (6)	1 (2)
uterus	nodule		7 (14)	6 (12)	7 (14)	3 (6)
	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	deformed		1 (2)	0 (0)	0 (0)	0 (0)
	dilated lumen		1 (2)	0 (0)	0 (0)	0 (0)
vagina	nodule		0 (0)	1 (2)	0 (0)	1 (2)
	dilated		1 (2)	0 (0)	0 (0)	0 (0)
	fluid:red		1 (2)	0 (0)	0 (0)	0 (0)
brain	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
	yellow		0 (0)	0 (0)	0 (0)	1 (2)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name NO. of Animals	Control 50 (%)	625 ppm 50 (%)	1250 ppm 50 (%)	2500 ppm 50 (%)
brain	red zone		0 (0)	0 (0)	0 (0)	1 (2)
	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	deformed		1 (2)	0 (0)	1 (2)	0 (0)
eye	turbid		1 (2)	1 (2)	1 (2)	0 (0)
	white		3 (6)	3 (6)	3 (6)	4 (8)
Harder gl	enlarged		0 (0)	0 (0)	1 (2)	0 (0)
peritoneum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		1 (2)	0 (0)	0 (0)	0 (0)
	ascites		1 (2)	0 (0)	0 (0)	0 (0)
thoracic ca	pleural fluid		3 (6)	0 (0)	0 (0)	0 (0)
other	forelimb:nodule		0 (0)	0 (0)	1 (2)	0 (0)
	forelimb:swollen		0 (0)	0 (0)	0 (0)	1 (2)
	hindlimb:swollen		0 (0)	0 (0)	0 (0)	1 (2)
	nose:nodule		1 (2)	0 (0)	0 (0)	0 (0)
whole body	anemic		1 (2)	0 (0)	1 (2)	1 (2)

TABLE J 5

GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 7 (%)	625 ppm 10 (%)	1250 ppm 8 (%)	2500 ppm 15 (%)
skin/app	nodule		0 (0)	0 (0)	1 (13)	0 (0)
subcutis	jaundice		0 (0)	1 (10)	1 (13)	0 (0)
	mass		2 (29)	5 (50)	1 (13)	3 (20)
lung	red zone		0 (0)	0 (0)	0 (0)	1 (7)
lymph node	enlarged		0 (0)	1 (10)	0 (0)	0 (0)
spleen	enlarged		3 (43)	2 (20)	3 (38)	2 (13)
heart	nodule		1 (14)	0 (0)	0 (0)	0 (0)
stomach	forestomach:ulcer		0 (0)	2 (20)	2 (25)	0 (0)
	glandular stomach:ulcer		0 (0)	1 (10)	2 (25)	0 (0)
large intes	dilated		0 (0)	1 (10)	0 (0)	0 (0)
liver	rough		0 (0)	1 (10)	0 (0)	1 (7)
	herniation		1 (14)	1 (10)	2 (25)	2 (13)
kidney	hydronephrosis		0 (0)	0 (0)	1 (13)	0 (0)
urin bladd	urine:marked retention		0 (0)	2 (20)	0 (0)	1 (7)
pituitary	enlarged		2 (29)	4 (40)	3 (38)	1 (7)
	red zone		2 (29)	1 (10)	1 (13)	0 (0)
	nodule		1 (14)	0 (0)	0 (0)	0 (0)
thyroid	nodule		0 (0)	0 (0)	0 (0)	1 (7)
ovary	enlarged		1 (14)	0 (0)	0 (0)	0 (0)
uterus	nodule		0 (0)	3 (30)	2 (25)	0 (0)
	dilated lumen		1 (14)	0 (0)	0 (0)	0 (0)
vagina	nodule		0 (0)	1 (10)	0 (0)	0 (0)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 7 (%)	625 ppm 10 (%)	1250 ppm 8 (%)	2500 ppm 15 (%)
vagina	fluid:red		1 (14)	0 (0)	0 (0)	0 (0)
brain	enlarged		0 (0)	0 (0)	0 (0)	1 (7)
	yellow		0 (0)	0 (0)	0 (0)	1 (7)
	red zone		0 (0)	0 (0)	0 (0)	1 (7)
eye	white		1 (14)	2 (20)	1 (13)	1 (7)
Harder gl	enlarged		0 (0)	0 (0)	1 (13)	0 (0)
abdominal c	hemorrhage		1 (14)	0 (0)	0 (0)	0 (0)
	ascites		1 (14)	0 (0)	0 (0)	0 (0)
thoracic ca	pleural fluid		3 (43)	0 (0)	0 (0)	0 (0)
whole body	anemic		1 (14)	0 (0)	1 (13)	1 (7)

(HPT080)

BAIS 5

TABLE J 6

GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 43 (%)	625 ppm 40 (%)	1250 ppm 42 (%)	2500 ppm 35 (%)
skin/app	nodule		1 (2)	1 (3)	1 (2)	0 (0)
subcutis	mass		10 (23)	10 (25)	10 (24)	7 (20)
lung	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		2 (5)	0 (0)	1 (2)	0 (0)
spleen	enlarged		1 (2)	0 (0)	2 (5)	0 (0)
	nodule		0 (0)	0 (0)	1 (2)	0 (0)
oral cavity	nodule		1 (2)	0 (0)	0 (0)	0 (0)
tongue	nodule		1 (2)	0 (0)	0 (0)	0 (0)
stomach	glandular stomach:nodule		0 (0)	0 (0)	2 (5)	0 (0)
rectum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
large intes	nodule		1 (2)	0 (0)	0 (0)	0 (0)
liver	white zone		0 (0)	0 (0)	1 (2)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (3)
	rough		0 (0)	1 (3)	0 (0)	0 (0)
	herniation		5 (12)	7 (18)	5 (12)	1 (3)
pancreas	nodule		1 (2)	0 (0)	0 (0)	0 (0)
kidney	deformed		0 (0)	0 (0)	0 (0)	2 (6)
	granular		1 (2)	1 (3)	0 (0)	0 (0)
pituitary	enlarged		5 (12)	4 (10)	6 (14)	2 (6)
	red zone		13 (30)	14 (35)	12 (29)	11 (31)
	nodule		1 (2)	5 (13)	2 (5)	2 (6)
	cyst		1 (2)	0 (0)	1 (2)	0 (0)

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control 43 (%)	625 ppm 40 (%)	1250 ppm 42 (%)	2500 ppm 35 (%)
thyroid	enlarged		2 (5)	1 (3)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	1 (3)
ovary	enlarged		1 (2)	2 (5)	0 (0)	0 (0)
	cyst		2 (5)	1 (3)	3 (7)	1 (3)
uterus	nodule		7 (16)	3 (8)	5 (12)	3 (9)
	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	deformed		1 (2)	0 (0)	0 (0)	0 (0)
vagina	nodule		0 (0)	0 (0)	0 (0)	1 (3)
	dilated		1 (2)	0 (0)	0 (0)	0 (0)
brain	cyst		1 (2)	0 (0)	0 (0)	0 (0)
	deformed		1 (2)	0 (0)	1 (2)	0 (0)
eye	turbid		1 (2)	1 (3)	1 (2)	0 (0)
	white		2 (5)	1 (3)	2 (5)	3 (9)
peritoneum	nodule		1 (2)	0 (0)	0 (0)	0 (0)
other	forelimb:nodule		0 (0)	0 (0)	1 (2)	0 (0)
	forelimb:swollen		0 (0)	0 (0)	0 (0)	1 (3)
	hindlimb:swollen		0 (0)	0 (0)	0 (0)	1 (3)
	nose:nodule		1 (2)	0 (0)	0 (0)	0 (0)

TABLE K 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIcrlj [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	39	413± 36	0.080± 0.022	2.755± 1.170	1.280± 0.099	1.492± 0.284	2.807± 0.250
625 ppm	37	400± 49	0.103± 0.133	2.607± 1.149	1.255± 0.113	1.427± 0.119	2.902± 0.502
1250 ppm	32	384± 45*	0.073± 0.015	3.252± 1.448	1.217± 0.117	1.402± 0.092	2.906± 0.329
2500 ppm	34	348± 38**	0.068± 0.015**	2.967± 1.262	1.138± 0.132**	1.326± 0.077**	2.747± 0.229

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

Test of Dunnett

(HCL040)

BAIS5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	39	2.763±	7.157	12.103±	2.716	2.127±	0.041
625 ppm	37	1.226±	0.993	11.866±	1.773	2.113±	0.048
1250 ppm	32	1.115±	0.438	11.557±	1.608	2.111±	0.047
2500 ppm	34	0.969±	0.172	10.717±	1.039*	2.109±	0.050

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

Test of Dunnett

(HCL040)

BAIS5

TABLE K 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	43	293± 38	0.074± 0.013	0.193± 0.223	0.942± 0.115	1.036± 0.118	1.922± 0.266
625 ppm	40	278± 25	0.071± 0.010	0.171± 0.100	0.916± 0.066	1.000± 0.070	1.923± 0.180
1250 ppm	42	266± 22**	0.071± 0.009	0.159± 0.063	0.888± 0.081*	1.005± 0.127	1.927± 0.152
2500 ppm	35	233± 34**	0.065± 0.012**	0.165± 0.165	0.829± 0.051**	0.943± 0.062**	1.974± 0.127

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

Test of Dunnett

(HCL040)

BAIS5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	43	0.729±	0.470	7.536±	1.487	1.938±	0.065
625 ppm	40	0.659±	0.282	7.116±	1.125	1.921±	0.041
1250 ppm	42	1.132±	2.114	6.997±	0.848	1.920±	0.046
2500 ppm	35	0.519±	0.078**	6.593±	1.309**	1.910±	0.041

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

Test of Dunnett

(HCL040)

BAIS5

TABLE L 1

ORGAN WEIGHT, RELATIVE: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	39	413± 36	0.019± 0.005	0.677± 0.299	0.312± 0.034	0.365± 0.088	0.686± 0.088
625 ppm	37	400± 49	0.027± 0.038	0.655± 0.294	0.317± 0.036	0.362± 0.047	0.743± 0.200
1250 ppm	32	384± 45*	0.020± 0.006	0.842± 0.347	0.321± 0.043	0.372± 0.062	0.774± 0.174**
2500 ppm	34	348± 38**	0.020± 0.005	0.842± 0.342	0.330± 0.049	0.384± 0.041**	0.796± 0.097**

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

Test of Dunnett

(HCL042)

BAIS5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	39	0.692± 1.828	2.940± 0.665	0.520± 0.050
625 ppm	37	0.303± 0.217	2.993± 0.475	0.537± 0.065
1250 ppm	32	0.290± 0.107	3.024± 0.339*	0.560± 0.087**
2500 ppm	34	0.280± 0.050	3.098± 0.357**	0.614± 0.083**

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

Test of Dunnett

(HCL042)

BAIS 5

TABLE L 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [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	43	293 ± 38	0.025 ± 0.004	0.066 ± 0.073	0.325 ± 0.045	0.358 ± 0.054	0.663 ± 0.098
625 ppm	40	278 ± 25	0.026 ± 0.005	0.062 ± 0.038	0.331 ± 0.030	0.362 ± 0.038	0.698 ± 0.116
1250 ppm	42	266 ± 22**	0.027 ± 0.004	0.060 ± 0.025	0.337 ± 0.051	0.380 ± 0.062	0.729 ± 0.078**
2500 ppm	35	233 ± 34**	0.028 ± 0.007*	0.073 ± 0.078	0.363 ± 0.054**	0.412 ± 0.056**	0.861 ± 0.109**

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

Test of Dunnett

(HCL042)

BAIS5

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	43	0.252± 0.163	2.585± 0.463	0.671± 0.077
625 ppm	40	0.236± 0.095	2.561± 0.350	0.696± 0.073
1250 ppm	42	0.441± 0.853	2.644± 0.361	0.726± 0.063**
2500 ppm	35	0.226± 0.040	2.835± 0.309*	0.836± 0.109**

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

Test of Dunnett

(HCL042)

BAIS5

TABLE M 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: ALL ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Integumentary system/appandage)																			
skin/app	epidermal cyst		<50>				<50>				<50>				<50>				
		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	sebaceous hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
subcutis	inflammation		<50>				<50>				<50>				<50>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
(Respiratory system)																			
nasal cavit	thrombus		<50>				<50>				<50>				<50>				
		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	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. : 0711
 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				625 ppm				1250 ppm				2500 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	mineralization		35 (70)	0 (0)	0 (0)	0 (0)	42 (84)	0 (0)	0 (0)	0 (0)	35 (70)	0 (0)	0 (0)	0 (0)	43 (86)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		41 (82)	5 (10)	1 (2)	0 (0)	38 (76)	4 (8)	0 (0)	0 (0)	36 (72)	3 (6)	0 (0)	0 (0)	40 (80)	7 (14)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		16 (32)	2 (4)	0 (0)	0 (0)	22 (44)	3 (6)	0 (0)	0 (0)	11 (22)	6 (12)	0 (0)	0 (0)	15 (30)	3 (6)	0 (0)	0 (0)
	inflammation:respiratory epithelium		9 (18)	1 (2)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		41 (82)	0 (0)	0 (0)	0 (0)	38 (76)	0 (0)	0 (0)	0 (0)	40 (80)	0 (0)	0 (0)	0 (0)	38 (76)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
larynx	ulcer		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	cyst	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
		inflammation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
trachea	inflammation:foreign body	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	
		inflammation:foreign body	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	lung	congestion	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung	hemorrhage		<50>				<50>				<50>				<50>			
			3 (6)	1 (2)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)
	inflammatory infiltration		3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ossification		0 (0)	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)
	accumulation of foamy cells		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		5 (10)	0 (0)	1 (2)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	uremic pneumonitis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
(Hematopoietic system)																		
bone marrow	congestion		<50>				<50>				<50>				<50>			
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	inflammatory infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis		7	7	3	0	9	5	1	0	14	4	0	0	8	5	2	0
			(14)	(14)	(6)	(0)	(18)	(10)	(2)	(0)	(28)	(8)	(0)	(0)	(16)	(10)	(4)	(0)
lymph node			<50>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		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)
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<50>				<50>				<50>				<50>			
	congestion		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	deposit of hemosiderin		12 (24)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	13 (26)	1 (2)	0 (0)	0 (0)	12 (24)	2 (4)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fibrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		21 (42)	3 (6)	1 (2)	0 (0)	21 (42)	1 (2)	0 (0)	0 (0)	15 (30)	4 (8)	1 (2)	0 (0)	16 (32)	1 (2)	0 (0)	0 (0)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
	myocardial fibrosis		17 (34)	1 (2)	0 (0)	0 (0)	21 (42)	2 (4)	0 (0)	0 (0)	24 (48)	2 (4)	0 (0)	0 (0)	21 (42)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Circulatory system)																		
heart	myocarditis		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	
artery/aort	mineralization		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
(Digestive system)																		
oral cavity	squamous cell hyperplasia		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	
tongue	mineralization		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
salivary gl	inflammation		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
stomach	ulcer:forestomach		<50>				<50>				<50>				<50>			
		3 (6)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	2 (4)	0 (0)	3 (6)	2 (4)	2 (4)	0 (0)
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)
		erosion:glandular stomach		5 (10)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)
	ulcer:glandular stomach			2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		mineralization:glandular stomach		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)	1 (2)	0 (0)
small intes	ulcer			<50>				<50>				<50>				<50>		
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 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	erosion		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
large intes	ulcer		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		<50>				<50>				<50>				<50>			
		5 (10)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)
	necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		necrosis:focal		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
	fatty change:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
		fatty change:peripheral		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
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 Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver	mineralization		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		39 (78)	1 (2)	0 (0)	0 (0)	37 (74)	1 (2)	0 (0)	0 (0)	41 (82)	0 (0)	0 (0)	0 (0)	42 (84)	1 (2)	0 (0)	0 (0)
	inflammatory cell nest		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		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)
	clear cell focus		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		18 (36)	1 (2)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	14 (28)	1 (2)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCrI [F344/DuCrI]
 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 Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	spongiosis hepatitis		7 (14)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 * (0)
	bile duct hyperplasia		48 (96)	0 (0)	0 (0)	0 (0)	49 (98)	0 (0)	0 (0)	0 (0)	47 (94)	0 (0)	0 (0)	0 (0)	49 (98)	0 (0)	0 (0)	0 (0)
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	biliary cyst		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	
pancreas			<50>				<50>				<50>				<50>			
	atrophy		8 (16)	1 (2)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	4 (8)	2 (4)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCr1J]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Digestive system)																		
pancreas			<50>				<50>				<50>				<50>			
	basophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
<hr/>																		
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	hyaline droplet		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic body		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	scar		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	chronic nephropathy		27 (54)	11 (22)	10 (20)	0 (0)	19 (38)	16 (32)	9 (18)	3 (6)	14 (28)	17 (34)	14 (28)	1 (2)	12 (24)	20 (40)	12 (24)	3 * (6)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	papillary necrosis		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	19 (38)	0 (0)	0 (0)	0 (0)	0 ** (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
		mineralization:pelvis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:cortex		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	urin bladd	dilated pelvis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
deposit of brown pigment				0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	27 (54)	0 (0)	0 (0)
dilatation			<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
urin bladd			<50>				<50>				<50>				<50>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation		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)
	papillary and/or nodular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	angiectasis		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	cyst		4 (8)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia		9 (18)	1 (2)	0 (0)	0 (0)	9 (18)	5 (10)	0 (0)	0 (0)	4 (8)	4 (8)	1 (2)	0 (0)	7 (14)	2 (4)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	Rathke pouch		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	aberrant craniopharyngeal tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	
thyroid			<50>				<50>				<50>				<50>			
	ultimobranchial body remanet		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	C-cell hyperplasia		9 (18)	7 (14)	0 (0)	0 (0)	9 (18)	3 (6)	1 (2)	0 (0)	11 (22)	4 (8)	0 (0)	0 (0)	5 (10)	5 (10)	0 (0)	0 (0)
	cystic thyroid follicle		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
parathyroid			<50>				<50>				<50>				<50>			
	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Endocrine system)																			
adrenal	inflammatory infiltration		<50>				<50>				<50>				<50>				
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		1 (2)	1 (2)	0 (0)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	focal fatty change:cortex		4 (8)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
(Reproductive system)																			
testis	mineralization		<50>				<50>				<50>				<50>				
			0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
	interstitial cell hyperplasia		21 (42)	0 (0)	0 (0)	0 (0)	21 (42)	1 (2)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)	
semin ves	inflammation		<50>				<50>				<50>				<50>				
			0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
prostate	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		9	2	0	0	9	2	0	0	12	1	0	0	8	1	0	0
			(18)	(4)	(0)	(0)	(18)	(4)	(0)	(0)	(24)	(2)	(0)	(0)	(16)	(2)	(0)	(0)
	hyperplasia		9	1	0	0	7	0	1	0	11	0	0	0	8	1	0	0
			(18)	(2)	(0)	(0)	(14)	(0)	(2)	(0)	(22)	(0)	(0)	(0)	(16)	(2)	(0)	(0)
mammary gl	galactoceles		<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)
(Nervous system)																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
spinal cord	hemorrhage		<50>				<50>				<50>				<50>			
			2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 18

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			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>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cataract		0 (0)	3 (6)	3 (6)	0 (0)	2 (4)	2 (4)	3 (6)	0 (0)	1 (2)	6 (12)	1 (2)	0 (0)	2 (4)	0 (0)	2 (4)	0 (0)
	retinal atrophy		7 (14)	6 (12)	4 (8)	0 (0)	3 (6)	2 (4)	5 (10)	0 (0)	5 (10)	3 (6)	6 (12)	0 (0)	10 (20)	3 (6)	3 (6)	0 (0)
	keratitis		1 (2)	0 (0)	1 (2)	0 (0)	4 (8)	3 (6)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
	iritis		2 (4)	0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	
Harder gl			<50>				<50>				<50>				<50>			
	lymphocytic infiltration		1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
(Musculoskeletal system)																		
muscle			<50>				<50>				<50>				<50>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 19

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Musculoskeletal system)																		
muscle	mineralization		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
bone	fracture		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	osteosclerosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Body cavities)																		
peritoneum	inflammation		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

(HPT150)

BAIS5

TABLE M 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI(CrI) [F344/DuCrI]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Integumentary system/appandage)																		
skin/app			<10>				<11>				<17>				<16>			
	sebaceous hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)
(Respiratory system)																		
nasal cavit			<10>				<11>				<17>				<16>			
	thrombus		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (24)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)
	mineralization		7 (70)	0 (0)	0 (0)	0 (0)	9 (82)	0 (0)	0 (0)	0 (0)	12 (71)	0 (0)	0 (0)	0 (0)	15 (94)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		6 (60)	1 (10)	0 (0)	0 (0)	8 (73)	0 (0)	0 (0)	0 (0)	8 (47)	0 (0)	0 (0)	0 (0)	13 (81)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		3 (30)	0 (0)	0 (0)	0 (0)	2 (18)	1 (9)	0 (0)	0 (0)	1 (6)	2 (12)	0 (0)	0 (0)	5 (31)	0 (0)	0 (0)	0 (0)
	inflammation:respiratory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit	respiratory metaplasia:olfactory epithelium		<10>				<11>				<17>				<16>			
		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	respiratory metaplasia:gland		9	0	0	0	7	0	0	0	12	0	0	0	10	0	0	0
		(90)	(0)	(0)	(0)	(64)	(0)	(0)	(0)	(71)	(0)	(0)	(0)	(63)	(0)	(0)	(0)	
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	squamous cell metaplasia:transitional epithelium		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<10>				<11>				<17>				<16>			
larynx	ulcer		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	hyperplasia:epithelium		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammation:foreign body		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)	(13)	(0)	(0)	(0)	
lung	congestion		<10>				<11>				<17>				<16>			
		2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	
		(20)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung	hemorrhage		<10>				<11>				<17>				<16>			
			3 (30)	1 (10)	0 (0)	0 (0)	3 (27)	0 (0)	0 (0)	0 (0)	3 (18)	2 (12)	0 (0)	0 (0)	3 (19)	1 (6)	0 (0)	0 (0)
	inflammatory infiltration		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	uremic pneumonitis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
(Hematopoietic system)																		
bone marrow	congestion		<10>				<11>				<17>				<16>			
			1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	1 (6)	0 (0)	0 (0)
	inflammatory infiltration		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Hematopoietic system)																			
bone marrow	granulation		<10>				<11>				<17>				<16>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	increased hematopoiesis		0 (0)	2 (20)	1 (10)	0 (0)	1 (9)	1 (9)	0 (0)	0 (0)	3 (18)	2 (12)	0 (0)	0 (0)	2 (13)	3 (19)	1 (6)	0 (0)	
lymph node	hemorrhage		<10>				<11>				<17>				<16>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
		deposit of hemosiderin		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		inflammatory infiltration		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen	deposit of hemosiderin		<10>				<11>				<17>				<16>				
		5 (50)	0 (0)	0 (0)	0 (0)	4 (36)	0 (0)	0 (0)	0 (0)	8 (47)	1 (6)	0 (0)	0 (0)	8 (50)	2 (13)	0 (0)	0 (0)	0 (0)	
	inflammatory infiltration		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<10>				<11>				<17>				<16>			
	fibrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		1 (10)	1 (10)	1 (10)	0 (0)	3 (27)	1 (9)	0 (0)	0 (0)	3 (18)	3 (18)	1 (6)	0 (0)	1 (6)	1 (6)	0 (0)	0 (0)
(Circulatory system)																		
heart			<10>				<11>				<17>				<16>			
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)
	myocardial fibrosis		2 (20)	1 (10)	0 (0)	0 (0)	3 (27)	1 (9)	0 (0)	0 (0)	8 (47)	1 (6)	0 (0)	0 (0)	7 (44)	1 (6)	0 (0)	0 (0)
artery/aort			<10>				<11>				<17>				<16>			
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
tongue			<10>				<11>				<17>				<16>			
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
tongue	arteritis		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
salivary gl	inflammation		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)
stomach	ulcer:forestomach		<10>				<11>				<17>				<16>			
		2 (20)	2 (20)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	1 (6)	1 (6)	2 (12)	0 (0)	3 (19)	2 (13)	1 (6)	0 (0)	0 (0)
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (13)	2 (13)	0 (0)	0 (0)	0 (0)
		erosion:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	4 (24)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach			2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		mineralization:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Control No. of Animals on Study Grade				625 ppm 11				1250 ppm 17				2500 ppm 16			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
small intes	ulcer	<10>				<11>				<17>				<16>			
		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
large intes	ulcer	<10>				<11>				<17>				<16>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	herniation	<10>				<11>				<17>				<16>			
		1	0	0	0	1	0	0	0	2	0	0	0	3	0	0	0
		(10)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(19)	(0)	(0)	(0)
	necrosis:focal	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	fatty change:central	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(18)	(0)	(0)	(6)	(0)	(0)	(0)
	fatty change:peripheral	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)	(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. : 0711
 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 No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver	mineralization		<10>				<11>				<17>				<16>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		8 (80)	0 (0)	0 (0)	0 (0)	5 (45)	1 (9)	0 (0)	0 (0)	10 (59)	0 (0)	0 (0)	0 (0)	11 (69)	1 (6)	0 (0)	0 (0)
	acidophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	spongiosis hepatitis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		8 (80)	0 (0)	0 (0)	0 (0)	10 (91)	0 (0)	0 (0)	0 (0)	14 (82)	0 (0)	0 (0)	0 (0)	15 (94)	0 (0)	0 (0)	0 (0)
focal fatty change		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	
pancreas	atrophy		<10>				<11>				<17>				<16>			
			1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	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. : 0711
 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

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	10				11				17				16			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
pancreas			<10>				<11>				<17>				<16>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Urinary system]																		
kidney			<10>				<11>				<17>				<16>			
	hyaline droplet		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	scar		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	chronic nephropathy		5 (50)	0 (0)	3 (30)	0 (0)	6 (55)	1 (9)	1 (9)	0 (0)	5 (29)	5 (29)	3 (18)	0 (0)	5 (31)	4 (25)	1 (6)	3 (19)
	papillary necrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	7 (44)	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. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 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 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	mineralization:papilla		<10>				<11>				<17>				<16>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:cortex		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	dilated pelvis		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)	5 (31)	0 (0)	0 (0)	0 (0)
urin bladd	dilatation		<10>				<11>				<17>				<16>			
			0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation		0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
urin bladd	papillary and/or nodular hyperplasia		<10>				<11>				<17>				<16>			
			0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																		
pituitary	cyst		<10>				<11>				<17>				<16>			
			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)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	1	0	0	0	1	2	1	0	1	0	0	0
			(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(12)	(6)	(0)	(6)	(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)	(6)	(0)	(0)	(0)
thyroid	ultimobranchial body remanet		<10>				<11>				<17>				<16>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(6)	(0)	(0)	(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. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
thyroid	C-cell hyperplasia		<10>				<11>				<17>				<16>			
		1 (10)	1 (10)	0 (0)	0 (0)	2 (18)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
parathyroid	hyperplasia		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)
adrenal	lymphocytic infiltration		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		<10>				<11>				<17>				<16>			
		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	2 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		<10>				<11>				<17>				<16>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
testis	mineralization		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study				Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
		Grade				1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																					
testis		<10>				<11>				<17>				<16>							
	interstitial cell hyperplasia	5	0	0	0	4	0	0	0	4	0	0	0	5	0	0	0	5	0	0	0
		(50)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(31)	(0)	(0)	(0)
semin ves		<10>				<11>				<17>				<16>							
	inflammation	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate		<10>				<11>				<17>				<16>							
	hemorrhage	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation	2	1	0	0	2	2	0	0	4	0	0	0	3	1	0	0	3	1	0	0
		(20)	(10)	(0)	(0)	(18)	(18)	(0)	(0)	(24)	(0)	(0)	(0)	(19)	(6)	(0)	(0)	(19)	(6)	(0)	(0)
	hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Nervous system)																					
brain		<10>				<11>				<17>				<16>							
	hemorrhage	0	0	0	0	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)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)

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

STUDY NO. : 0711
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

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				625 ppm 11				1250 ppm 17				2500 ppm 16			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Nervous system)																		
spinal cord	hemorrhage		<10>				<11>				<17>				<16>			
		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Special sense organs/appendage)																		
eye	inflammatory infiltration		<10>				<11>				<17>				<16>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cataract		0 (0)	1 (10)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
			1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	1 (6)	0 (0)	2 (13)	1 (6)	0 (0)	0 (0)	0 (0)
	retinal atrophy		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	1 (6)	0 (0)	2 (13)	1 (6)	0 (0)	0 (0)
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	2 (13)	1 (6)	0 (0)	0 (0)
Harder gl	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 15

		Control No. of Animals on Study Grade				625 ppm 11				1250 ppm 17				2500 ppm 16			
Organ	Findings	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Special sense organs/appendage)																	
Harder gl	hyperplasia	<10>				<11>				<17>				<16>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
(Musculoskeletal system)																	
muscle	atrophy	<10>				<11>				<17>				<16>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	mineralization	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
bone	fracture	<10>				<11>				<17>				<16>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	osteosclerosis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Body cavities)																	
peritoneum	inflammation	<10>				<11>				<17>				<16>			
		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)	(0)	(0)	(0)	(0)

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

TABLE M 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: SACRIFICED ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Integumentary system/appandage)																			
skin/app	epidermal cyst		<40>				<39>				<33>				<34>				
		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)	0 (0)	
subcutis	inflammation		<40>				<39>				<33>				<34>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	
	fibrosis		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)	0 (0)
		epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
(Respiratory system)																			
nasal cavit	thrombus		<40>				<39>				<33>				<34>				
		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	
mineralization			28 (70)	0 (0)	0 (0)	0 (0)	33 (85)	0 (0)	0 (0)	0 (0)	23 (70)	0 (0)	0 (0)	0 (0)	28 (82)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<40>				<39>				<33>				<34>			
	eosinophilic change:olfactory epithelium		35 (88)	4 (10)	1 (3)	0 (0)	30 (77)	4 (10)	0 (0)	0 (0)	28 (85)	3 (9)	0 (0)	0 (0)	27 (79)	7 (21)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		3 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		13 (33)	2 (5)	0 (0)	0 (0)	20 (51)	2 (5)	0 (0)	0 (0)	10 (30)	4 (12)	0 (0)	0 (0)	10 (29)	3 (9)	0 (0)	0 (0)
	inflammation:respiratory epithelium		8 (20)	1 (3)	0 (0)	0 (0)	9 (23)	0 (0)	0 (0)	0 (0)	11 (33)	0 (0)	0 (0)	0 (0)	6 (18)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		5 (13)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		32 (80)	0 (0)	0 (0)	0 (0)	31 (79)	0 (0)	0 (0)	0 (0)	28 (85)	0 (0)	0 (0)	0 (0)	28 (82)	0 (0)	0 (0)	0 (0)
larynx			<40>				<39>				<33>				<34>			
	cyst		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)
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
larynx	inflammation:foreign body		<40>				<39>				<33>				<34>			
		1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	
trachea	inflammation:foreign body		<40>				<39>				<33>				<34>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	
lung	congestion		<40>				<39>				<33>				<34>			
		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hemorrhage		<40>				<39>				<33>				<34>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	
	inflammatory infiltration		<40>				<39>				<33>				<34>			
		1 (3)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ossification		<40>				<39>				<33>				<34>				
	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	
accumulation of foamy cells		<40>				<39>				<33>				<34>				
	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
lung	bronchiolar-alveolar cell hyperplasia	<40>				<39>				<33>				<34>							
		4	0	1	0	5	1	0	0	5	0	0	0	2	0	0	0	0	0	0	0
		(10)	(0)	(3)	(0)	(13)	(3)	(0)	(0)	(15)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Hematopoietic system)																					
bone marrow	congestion	<40>				<39>				<33>				<34>							
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	increased hematopoiesis	7	5	2	0	8	4	1	0	11	2	0	0	6	2	1	0	0	0	0	0
		(18)	(13)	(5)	(0)	(21)	(10)	(3)	(0)	(33)	(6)	(0)	(0)	(18)	(6)	(3)	(0)	(0)	(0)	(0)	(0)
spleen	congestion	<40>				<39>				<33>				<34>							
		1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	7	0	0	0	1	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0
		(18)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<40>				<39>				<33>				<34>			
	fibrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	2 (5)	0 (0)	0 (0)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		20 (50)	2 (5)	0 (0)	0 (0)	18 (46)	0 (0)	0 (0)	0 (0)	12 (36)	1 (3)	0 (0)	0 (0)	15 (44)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<40>				<39>				<33>				<34>			
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization		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)	
	myocardial fibrosis		15 (38)	0 (0)	0 (0)	0 (0)	18 (46)	1 (3)	0 (0)	0 (0)	16 (48)	1 (3)	0 (0)	0 (0)	14 (41)	0 (0)	0 (0)	0 (0)
	myocarditis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
(Digestive system)																		
oral cavity			<40>				<39>				<33>				<34>			
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade				Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
tongue		<40>				<39>				<33>				<34>							
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	arteritis	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
salivary gl		<40>				<39>				<33>				<34>							
	inflammation	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach		<40>				<39>				<33>				<34>							
	ulcer:forestomach	1 (3)	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)	1 (3)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach	5 (13)	0 (0)	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (15)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach	0 (0)	0 (0)	0 (0)	0 (0)	3 (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)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
Liver		<40>				<39>				<33>				<34>							
	herniation	4 (10)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:central	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	31 (78)	1 (3)	0 (0)	0 (0)	32 (82)	0 (0)	0 (0)	0 (0)	31 (94)	0 (0)	0 (0)	0 (0)	31 (91)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	clear cell focus	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

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

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<40>				<39>				<33>				<34>			
	acidophilic cell focus		18 (45)	1 (3)	0 (0)	0 (0)	19 (49)	0 (0)	0 (0)	0 (0)	13 (39)	1 (3)	0 (0)	0 (0)	11 (32)	0 (0)	0 (0)	0 (0)
	basophilic cell focus		2 (5)	0 (0)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	spongiosis hepatis		7 (18)	0 (0)	0 (0)	0 (0)	6 (15)	0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 *
	bile duct hyperplasia		40 (100)	0 (0)	0 (0)	0 (0)	39 (100)	0 (0)	0 (0)	0 (0)	33 (100)	0 (0)	0 (0)	0 (0)	34 (100)	0 (0)	0 (0)	0 (0)
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	biliary cyst		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)
focal fatty change		2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	
pancreas			<40>				<39>				<33>				<34>			
	atrophy		7 (18)	1 (3)	0 (0)	0 (0)	10 (26)	0 (0)	0 (0)	0 (0)	6 (18)	0 (0)	0 (0)	0 (0)	4 (12)	2 (6)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 9

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	40				39				33				34			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
pancreas			<40>				<39>				<33>				<34>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	arteritis		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)
	basophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		1 (3)	0 (0)	0 (0)	0 (0)	3 (8)	1 (3)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney			<40>				<39>				<33>				<34>			
	eosinophilic body		1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	scar		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)
	chronic nephropathy		22 (55)	11 (28)	7 (18)	0 (0)	13 (33)	15 (38)	8 (21)	3 (8)	9 (27)	12 (36)	11 (33)	1 (3)	7 (21)	16 (47)	11 (32)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Urinary system)																			
kidney			<40>				<39>				<33>				<34>				
	papillary necrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)	12 (35)	0 (0)	0 (0)	0 (0)	0 ** (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
	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)	0 (0)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment		0 (0)	0 (0)	0 (0)	0 (0)	4 (10)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	22 (65)	0 (0)	0 (0)	0 (0)	0 ** (0)
urin bladd			<40>				<39>				<33>				<34>				
	papillary and/or nodular hyperplasia		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)	0 (0)
(Endocrine system)																			
pituitary			<40>				<39>				<33>				<34>				
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 11

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
pituitary			<40>				<39>				<33>				<34>			
	angiectasis		2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
	cyst		3 (8)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (12)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
	hyperplasia		9 (23)	1 (3)	0 (0)	0 (0)	8 (21)	5 (13)	0 (0)	0 (0)	3 (9)	2 (6)	0 (0)	0 (0)	6 (18)	2 (6)	0 (0)	0 (0)
	Rathke pouch		2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	aberrant craniopharyngeal tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	
thyroid			<40>				<39>				<33>				<34>			
	ultimobranchial body remanet		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)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	C-cell hyperplasia		8 (20)	6 (15)	0 (0)	0 (0)	7 (18)	3 (8)	1 (3)	0 (0)	9 (27)	4 (12)	0 (0)	0 (0)	5 (15)	5 (15)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name	Control				625 ppm				1250 ppm				2500 ppm				
		No. of Animals on Study	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																			
thyroid	cystic thyroid follicle		<40>					<39>					<33>				<34>		
			0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
adrenal	inflammatory infiltration		<40>					<39>					<33>				<34>		
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)		
	hyperplasia:medulla		1	0	0	0	2	1	0	0	3	0	0	0	1	0	0	0	
		(3)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(9)	(0)	(0)	(0)	(3)	(0)	(0)	(0)		
	focal fatty change:cortex		4	0	0	0	4	0	0	0	2	0	0	0	1	0	0	0	
			(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	
(Reproductive system)																			
testis	mineralization		<40>					<39>					<33>				<34>		
			0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(3)	(0)	(0)	(0)		
	interstitial cell hyperplasia		16	0	0	0	17	1	0	0	8	0	0	0	9	0	0	0	
			(40)	(0)	(0)	(0)	(44)	(3)	(0)	(0)	(24)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 40				625 ppm 39				1250 ppm 33				2500 ppm 34			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Reproductive system)																		
prostate	inflammation		<40>				<39>				<33>				<34>			
			7 (18)	1 (3)	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	8 (24)	1 (3)	0 (0)	0 (0)	5 (15)	0 (0)	0 (0)	0 (0)
	hyperplasia		<40>				<39>				<33>				<34>			
			8 (20)	1 (3)	0 (0)	0 (0)	7 (18)	0 (0)	1 (3)	0 (0)	11 (33)	0 (0)	0 (0)	0 (0)	8 (24)	1 (3)	0 (0)	0 (0)
mammary gl	galactocoele		<40>				<39>				<33>				<34>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
(Nervous system)																		
spinal cord	hemorrhage		<40>				<39>				<33>				<34>			
			1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
(Special sense organs/appendage)																		
eye	cataract		<40>				<39>				<33>				<34>			
			0 (0)	2 (5)	3 (8)	0 (0)	1 (3)	2 (5)	3 (8)	0 (0)	1 (3)	5 (15)	1 (3)	0 (0)	1 (3)	0 (0)	2 (6)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	40				39				33				34			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	retinal atrophy		<40>				<39>				<33>				<34>			
			6	6	4	0	3	2	5	0	4	3	5	0	8	2	3	0
			(15)	(15)	(10)	(0)	(8)	(5)	(13)	(0)	(12)	(9)	(15)	(0)	(24)	(6)	(9)	(0)
	keratitis		1	0	1	0	4	2	0	0	3	1	0	0	0	0	0	0
			(3)	(0)	(3)	(0)	(10)	(5)	(0)	(0)	(9)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	iritis		2	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
			(5)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<40>				<39>				<33>				<34>			
			1	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
			(3)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
(Musculoskeletal system)																		
muscle	atrophy		<40>				<39>				<33>				<34>			
			0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS5

TABLE M 4

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: ALL ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Integumentary system/appandage]																		
subcutis	phlegmone		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	
	fibrosis		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)	
[Respiratory system]																		
nasal cavit	thrombus		<50>				<50>				<50>				<50>			
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	mineralization		29 (58)	0 (0)	0 (0)	0 (0)	28 (56)	0 (0)	0 (0)	0 (0)	31 (62)	0 (0)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)
	rhinitis		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)
	eosinophilic change:olfactory epithelium		6 (12)	32 (64)	10 (20)	0 (0)	16 (32)	29 (58)	4 (8)	0 (0)	9 (18)	36 (72)	4 (8)	0 (0)	2 (4)	20 (40)	23 (46)	0 * (0)
	eosinophilic change:respiratory epithelium		12 (24)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	20 (40)	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	inflammation:foreign body		6 (12)	2 (4)	0 (0)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)
	inflammation:respiratory epithelium		11 (22)	0 (0)	0 (0)	0 (0)	8 (16)	1 (2)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		48 (96)	0 (0)	0 (0)	0 (0)	50 (100)	0 (0)	0 (0)	0 (0)	48 (96)	0 (0)	0 (0)	0 (0)	46 (92)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
nasopharynx			<50>				<50>				<50>				<50>			
	inflammation:foreign body		1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
larynx			<50>				<50>				<50>				<50>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
larynx	inflammation:foreign body		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
lung	congestion		<50>				<50>				<50>				<50>			
		1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
		inflammatory infiltration		3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		4 (8)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	uremic pneumonitis		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)
(Hematopoietic system)																		
bone marrow	hemorrhage		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				625 ppm 50				1250 ppm 50				2500 ppm 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	granulation	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	increased hematopoiesis	5 (10)	4 (8)	3 (6)	0 (0)	7 (14)	10 (20)	1 (2)	0 (0)	3 (6)	0 (0)	7 (14)	0 (0)	9 (18)	4 (8)	1 (2)	0 (0)				
thymus	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
spleen	congestion	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin	16 (32)	0 (0)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)				
	fibrosis:focal	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal lymphoid hyperplasia	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 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 50				625 ppm 50				1250 ppm 50				2500 ppm 50				
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Hematopoietic system)																			
spleen	extramedullary hematopoiesis		<50>				<50>				<50>				<50>				
		16 (32)	4 (8)	0 (0)	0 (0)	22 (44)	4 (8)	2 (4)	0 (0)	16 (32)	4 (8)	1 (2)	0 (0)	19 (38)	4 (8)	1 (2)	0 (0)		
(Circulatory system)																			
heart	thrombus		<50>				<50>				<50>				<50>				
		1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
	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)	0 (0)	0 (0)	0 (0)	
		lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			myocardial fibrosis		20 (40)	0 (0)	0 (0)	0 (0)	24 (48)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)
(Digestive system)																			
tongue	thrombus		<50>				<50>				<50>				<50>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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. : 0711
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
tongue			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	arteritis		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach			<50>				<50>				<50>				<50>			
	epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:forestomach		1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		5 (10)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
Grade		1+ : Slight	2+ : Moderate		3+ : Marked		4+ : Severe											
< a >		a : Number of animals examined at the site																
b		b : Number of animals with lesion																
(c)		c : b / a * 100																
Significant difference ;		* : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrI (F344/DuCrI)
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Digestive system)																		
small intes	inflammatory infiltration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
large intes	diverticula		<50>				<50>				<50>				<50>			
		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		<50>				<50>				<50>				<50>			
		6 (12)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		necrosis:central		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
	necrosis:focal			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)
		fatty change:central		1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 27

Organ	Findings	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
liver		<50>				<50>				<50>				<50>			
	fatty change:peripheral	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	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)	(0)	(0)	(0)	(0)
	mineralization	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	granulation	26	0	0	0	37	1	0	0 *	32	1	0	0	33	0	0	0
		(52)	(0)	(0)	(0)	(74)	(2)	(0)	(0)	(64)	(2)	(0)	(0)	(66)	(0)	(0)	(0)
	inflammatory cell nest	10	0	0	0	0	1	0	0 **	1	0	0	0 *	6	0	0	0
		(20)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	extramedullary hematopoiesis	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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 28

Organ	Findings	Group Name	Control				625 ppm				1250 ppm				2500 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	acidophilic cell focus		8 (16)	0 (0)	0 (0)	0 (0)	6 (12)	3 (6)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)	5 (10)	2 (4)	0 (0)	0 (0)
	basophilic cell focus		38 (76)	1 (2)	0 (0)	0 (0)	36 (72)	0 (0)	0 (0)	0 (0)	36 (72)	0 (0)	0 (0)	0 (0)	32 (64)	1 (2)	0 (0)	0 (0)
	spongiosis hepatis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		26 (52)	0 (0)	0 (0)	0 (0)	31 (62)	0 (0)	0 (0)	0 (0)	23 (46)	0 (0)	0 (0)	0 (0)	18 (36)	0 (0)	0 (0)	0 (0)
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
pancreas	atrophy		0 (0)	1 (2)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)
	islet cell hyperplasia		2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 29

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	hyaline droplet		<50>				<50>				<50>				<50>			
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		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)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	scar		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	chronic nephropathy		13 (26)	5 (10)	1 (2)	0 (0)	22 (44)	2 (4)	0 (0)	1 (2)	19 (38)	6 (12)	0 (0)	1 (2)	15 (30)	5 (10)	0 (0)	0 (0)
	papillary necrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0) **	25 (50)	7 (14)	2 (4)	0 (0) **
	mineralization:cortico-medullary junction		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe
 < a > a : Number of animals examined at the site
 b 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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 30

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	mineralization:pelvis		<50>				<50>				<50>				<50>			
			2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)
	dilated pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	dilatation:collecting tubule		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	0 ** (0)	41 (82)	0 (0)	0 (0)
urin bladd	dilatation		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	papillary and/or nodular hyperplasia		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 31

Organ	Findings	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study				50				50				50			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																	
pituitary		<50>				<50>				<50>				<49>			
	angiectasis	2	0	0	0	2	1	0	0	0	4	0	0 *	1	1	0	0
		(4)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(2)	(2)	(0)	(0)
	cyst	12	4	0	0	17	4	0	0	15	6	1	0	12	4	0	0
		(24)	(8)	(0)	(0)	(34)	(8)	(0)	(0)	(30)	(12)	(2)	(0)	(24)	(8)	(0)	(0)
	hyperplasia	5	5	3	0	9	7	5	0	12	5	1	0	5	9	1	0
		(10)	(10)	(6)	(0)	(18)	(14)	(10)	(0)	(24)	(10)	(2)	(0)	(10)	(18)	(2)	(0)
	Rathke pouch	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)	(4)	(0)	(0)	(0)
thyroid		<50>				<50>				<50>				<50>			
	ultimobranchial body remanet	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)
	C-cell hyperplasia	8	5	0	0	9	4	0	0	8	2	3	0	3	0	0	0 *
		(16)	(10)	(0)	(0)	(18)	(8)	(0)	(0)	(16)	(4)	(6)	(0)	(6)	(0)	(0)	(0)
	cystic thyroid follicle	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
adrenal		<50>				<50>				<50>				<50>			
	angiectasis	1	0	0	0	2	1	0	0	0	0	0	0	2	1	0	0
		(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 32

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
adrenal	necrosis:zonal		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	focal fatty change:cortex		5 (10)	1 (2)	0 (0)	0 (0)	10 (20)	2 (4)	0 (0)	0 (0)	8 (16)	2 (4)	1 (2)	0 (0)	2 (4)	2 (4)	0 (0)	0 (0)
(Reproductive system)																		
ovary	cyst		<50>				<50>				<50>				<50>			
			0 (0)	2 (4)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
uterus	dilatation		<50>				<50>				<50>				<50>			
			1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 33

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Reproductive system)																		
uterus	cystic endometrial hyperplasia		<50>				<50>				<50>				<50>			
		19 (38)	1 (2)	0 (0)	0 (0)	25 (50)	0 (0)	0 (0)	0 (0)	27 (54)	0 (0)	0 (0)	0 (0)	24 (48)	0 (0)	0 (0)	0 (0)	0 (0)
vagina	dilatation		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
mammary gl	granulation		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Nervous system)																		
brain	deformity		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spinal cord	hemorrhage		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 34

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	cataract		1	0	2	0	3	2	0	0	1	2	1	0	1	3	0	0
			(2)	(0)	(4)	(0)	(6)	(4)	(0)	(0)	(2)	(4)	(2)	(0)	(2)	(6)	(0)	(0)
	retinal atrophy		13	11	3	0	11	8	2	0	7	4	3	0 *	15	8	2	0
			(26)	(22)	(6)	(0)	(22)	(16)	(4)	(0)	(14)	(8)	(6)	(0)	(30)	(16)	(4)	(0)
	keratitis		2	0	0	0	3	0	0	0	2	2	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	iritis		0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cornea		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<50>				<50>				<50>				<50>			
	degeneration		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)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		4	0	0	0	2	1	0	0	1	1	0	0	2	0	0	0
			(8)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
nasolacr d			<50>				<50>				<50>				<50>			
	inflammation		1	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(6)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Crlj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 35

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 50				625 ppm 50				1250 ppm 50				2500 ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Musculoskeletal system)																		
muscle	mineralization		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	degeneration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
bone	osteosclerosis		<50>				<50>				<50>				<50>			
		0 (0)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	1 (2)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)	0 (0)

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

(HPT150)

BAIS5

TABLE M 5

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	7				10				8				15			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			< 7>				<10>				< 8>				<15>			
	thrombus		1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
	mineralization		4 (57)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 (0)	4 (50)	0 (0)	0 (0)	0 (0)	4 (27)	0 (0)	0 (0)	0 (0)
	rhinitis		0 (0)	0 (0)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		4 (57)	2 (29)	0 (0)	0 (0)	5 (50)	4 (40)	0 (0)	0 (0)	2 (25)	4 (50)	1 (13)	0 (0)	1 (7)	7 (47)	3 (20)	0 (0)
	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		0 (0)	1 (14)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	1 (7)	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. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				625 ppm 10				1250 ppm 8				2500 ppm 15			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	respiratory metaplasia:gland	< 7>				<10>				< 8>				<15>			
		6 (86)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	6 (75)	0 (0)	0 (0)	0 (0)	13 (87)	0 (0)	0 (0)	0 (0)
larynx	inflammation:foreign body	< 7>				<10>				< 8>				<15>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lung	congestion	< 7>				<10>				< 8>				<15>			
		1 (14)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	5 (33)	0 (0)	0 (0)	0 (0)
	hemorrhage	< 7>				<10>				< 8>				<15>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)
	inflammatory infiltration	< 7>				<10>				< 8>				<15>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells	< 7>				<10>				< 8>				<15>			
		1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	uremic pneumonitis	< 7>				<10>				< 8>				<15>			
		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 (7)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [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 Grade				Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
bone marrow	hemorrhage	< 7>				0	0	0	0	<10>				0	0	0	0	<15>			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation	0	0	0	0	(0)	(0)	(0)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)
	increased hematopoiesis	0	2	1	0	(0)	(29)	(14)	(0)	1	5	1	0	1	0	2	0	0	4	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(50)	(10)	(0)	(13)	(0)	(25)	(0)	(0)	(27)	(7)	(0)
spleen	deposit of hemosiderin	< 7>				1	0	0	0	<10>				4	0	0	0	<15>			
		(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
	fibrosis:focal	0	0	0	0	(0)	(0)	(0)	(0)	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis	0	2	0	0	(0)	(29)	(0)	(0)	0	3	2	0	1	2	0	0	3	4	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(20)	(0)	(13)	(25)	(0)	(0)	(20)	(27)	(7)	(0)
(Circulatory system)																					
heart	thrombus	< 7>				0	0	1	0	<10>				0	0	0	0	<15>			
		(0)	(0)	(14)	(0)	(0)	(0)	(14)	(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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Circulatory system)																		
heart	inflammatory infiltration		< 7>				<10>				< 8>				<15>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	myocardial fibrosis		3 (43)	0 (0)	0 (0)	0 (0)	6 (60)	0 (0)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)
(Digestive system)																		
tongue	thrombus		< 7>				<10>				< 8>				<15>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration		1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
	arteritis		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)	0 (0)	0 (0)
stomach	ulcer:forestomach		< 7>				<10>				< 8>				<15>			
		1 (14)	1 (14)	0 (0)	0 (0)	1 (10)	1 (10)	1 (10)	0 (0)	0 (0)	0 (0)	2 (25)	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. : 0711
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

Organ	Findings	Group Name No. of Animals on Study Grade	Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
stomach			< 7>				<10>				< 8>				<15>			
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		2 (29)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)
small intes			< 7>				<10>				< 8>				<15>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver			< 7>				<10>				< 8>				<15>			
	herniation		1 (14)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)
	angiectasis		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)
	necrosis:central		0 (0)	1 (14)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	2 (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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCrJ]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade				Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
liver		< 7 >				< 10 >				< 8 >				< 15 >							
	fatty change:central	1 (14)	1 (14)	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)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	3 (43)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	6 (40)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	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 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver	basophilic cell focus		< 7>				<10>				< 8>				<15>			
			1	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
			(14)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	bile duct hyperplasia		3	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0
			(43)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	focal fatty change		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)
pancreas	atrophy		< 7>				<10>				< 8>				<15>			
			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)	(7)	(0)	(0)	(0)
(Urinary system)																		
kidney	hyaline droplet		< 7>				<10>				< 8>				<15>			
			1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(14)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(13)	(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)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe < a > a : Number of animals examined at the site b : Number of animals with lesion (c) c : b / a * 100 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

(HPT150)

BAIS5

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Control No. of Animals on Study Grade				625 ppm 10				1250 ppm 8				2500 ppm 15			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																	
kidney	scar	< 7>				<10>				< 8>				<15>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	chronic nephropathy	1	0	0	0	0	2	0	0	2	0	0	1	0	1	0	0
		(14)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(25)	(0)	(0)	(13)	(0)	(7)	(0)	(0)
	papillary necrosis	0	0	0	0	0	0	0	0	0	0	0	0	7	3	1	0 *
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(47)	(20)	(7)	(0)
	mineralization:papilla	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(13)	(0)	(0)	(0)
	mineralization:pelvis	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(7)	(0)	(0)
	dilated pelvis	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of brown pigment	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Urinary system]																		
urin bladd	dilatation		< 7>				<10>				< 8>				<15>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Endocrine system]																		
pituitary	angiectasis		< 7>				<10>				< 8>				<14>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	1 (13)	0 (0)	0 (0)	1 (7)	1 (7)	0 (0)
	hyperplasia		0 (0)	1 (14)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)
	Rathke pouch		0 (0)	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 (7)	0 (0)	0 (0)
thyroid	C-cell hyperplasia		< 7>				<10>				< 8>				<15>			
			0 (0)	1 (14)	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)

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. : 0711
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 7				625 ppm 10				1250 ppm 8				2500 ppm 15			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
adrenal			< 7>				<10>				< 8>				<15>			
	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (14)	0 (0)	0 (0)	0 (0)	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)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
uterus			< 7>				<10>				< 8>				<15>			
	dilatation		1 (14)	0 (0)	0 (0)	0 (0)	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 endometrial hyperplasia		4 (57)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	4 (50)	0 (0)	0 (0)	0 (0)	7 (47)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [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				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	7	10	8	15	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Nervous system)																		
spinal cord	hemorrhage		< 7>				<10>				< 8>				<15>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	
(Special sense organs/appendage)																		
eye	cataract		< 7>				<10>				< 8>				<15>			
		0	0	1	0	3	0	0	0	1	0	0	0	0	1	0	0	
		(0)	(0)	(14)	(0)	(30)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	
	retinal atrophy	1	0	1	0	0	3	0	0	0	1	0	0	2	1	1	0	
		(14)	(0)	(14)	(0)	(0)	(30)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(13)	(7)	(7)	(0)
	keratitis	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	
(0)		(0)	(0)	(0)	(20)	(0)	(0)	(0)	(13)	(13)	(0)	(0)	(0)	(0)	(0)	(0)		
iritis	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0		
	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
mineralization:cornea	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
nasolacr d	inflammation		< 7>				<10>				< 8>				<15>			
		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)	

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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 27

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	7				10				8				15			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Musculoskeletal system)																		
muscle	mineralization		< 7>				<10>				< 8>				<15>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
bone	osteosclerosis		< 7>				<10>				< 8>				<15>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)
<hr/>																		
Grade	1+ : Slight	2+ : Moderate	3+ : Marked	4+ : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

(HPT150)

BAIS5

TABLE M 6

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: SACRIFICED ANIMALS

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 15

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Integumentary system/appandage)																		
subcutis			<43>				<40>				<42>				<35>			
	phlegmone		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
	fibrosis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Respiratory system)																		
nasal cavit			<43>				<40>				<42>				<35>			
	mineralization		25 (58)	0 (0)	0 (0)	0 (0)	20 (50)	0 (0)	0 (0)	0 (0)	27 (64)	0 (0)	0 (0)	0 (0)	17 (49)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		2 (5)	30 (70)	10 (23)	0 (0)	11 (28)	25 (63)	4 (10)	0 * (0)	7 (17)	32 (76)	3 (7)	0 (0)	1 (3)	13 (37)	20 (57)	0 * (0)
	eosinophilic change:respiratory epithelium		12 (28)	0 (0)	0 (0)	0 (0)	9 (23)	0 (0)	0 (0)	0 (0)	5 (12)	0 (0)	0 (0)	0 (0)	19 (54)	0 (0)	0 (0)	0 * (0)
	inflammation:foreign body		6 (14)	1 (2)	0 (0)	0 (0)	1 (3)	2 (5)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	3 (9)	2 (6)	0 (0)	0 (0)
	inflammation:respiratory epithelium		11 (26)	0 (0)	0 (0)	0 (0)	8 (20)	0 (0)	0 (0)	0 (0)	8 (19)	0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 16

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<43>				<40>				<42>				<35>			
	respiratory metaplasia:olfactory epithelium		2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		42 (98)	0 (0)	0 (0)	0 (0)	40 (100)	0 (0)	0 (0)	0 (0)	42 (100)	0 (0)	0 (0)	0 (0)	33 (94)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasopharynx			<43>				<40>				<42>				<35>			
	inflammation:foreign body		1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)
larynx			<43>				<40>				<42>				<35>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
lung			<43>				<40>				<42>				<35>			
	inflammatory infiltration		3 (7)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
lung	accumulation of foamy cells		<43>				<40>				<42>				<35>			
		3 (7)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)	
	bronchiolar-alveolar cell hyperplasia		2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	
[Hematopoietic system]																		
bone marrow	hemorrhage		<43>				<40>				<42>				<35>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	
	granulation		3 (7)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	
	increased hematopoiesis		5 (12)	2 (5)	2 (5)	0 (0)	6 (15)	5 (13)	0 (0)	0 (0)	2 (5)	0 (0)	5 (12)	0 (0)	9 (26)	0 (0)	0 (0)	
thymus	inflammatory infiltration		<43>				<40>				<42>				<35>			
		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 (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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<43>				<40>				<42>				<35>			
	congestion		0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		15 (35)	0 (0)	0 (0)	0 (0)	13 (33)	0 (0)	0 (0)	0 (0)	14 (33)	0 (0)	0 (0)	0 (0)	16 (46)	0 (0)	0 (0)	0 (0)
	focal lymphoid hyperplasia		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		16 (37)	2 (5)	0 (0)	0 (0)	22 (55)	1 (3)	0 (0)	0 (0)	15 (36)	2 (5)	1 (2)	0 (0)	16 (46)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<43>				<40>				<42>				<35>			
	thrombus		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		17 (40)	0 (0)	0 (0)	0 (0)	18 (45)	0 (0)	0 (0)	0 (0)	13 (31)	0 (0)	0 (0)	0 (0)	20 (57)	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. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade				Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
tongue		<43>				<40>				<42>				<35>							
	inflammatory infiltration	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic 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)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	arteritis	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach		<43>				<40>				<42>				<35>							
	epidermal cyst	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(7)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
small intes		<43>				<40>				<42>				<35>							
	inflammatory 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)	(0)	(0)	(0)	(0)	(3)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 20

Organ	Findings	Control No. of Animals on Study Grade				625 ppm 40				1250 ppm 42				2500 ppm 35			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
large intes	diverticula	<43>				<40>				<42>				<35>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	herniation	<43>				<40>				<42>				<35>			
		5	0	0	0	7	0	0	0	5	0	0	0	2	0	0	0
		(12)	(0)	(0)	(0)	(18)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	angiectasis	<43>				<40>				<42>				<35>			
		0	0	0	0	3	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)
	necrosis:focal	<43>				<40>				<42>				<35>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	fatty change:central	<43>				<40>				<42>				<35>			
		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)
	fatty change:peripheral	<43>				<40>				<42>				<35>			
		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	<43>				<40>				<42>				<35>			
		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)
	inflammatory infiltration	<43>				<40>				<42>				<35>			
		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)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade				Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
liver	lymphocytic infiltration	<43>				0	0	0	0	<40>				<42>				<35>			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)
	granulation	23	0	0	0	(53)	(0)	(0)	(0)	34	1	0	0 **	31	1	0	0	27	0	0	0
		(53)	(0)	(0)	(0)	(85)	(0)	(0)	(0)	(85)	(3)	(0)	(0)	(74)	(2)	(0)	(0)	(77)	(0)	(0)	(0)
	inflammatory cell nest	10	0	0	0	(23)	(0)	(0)	(0)	0	1	0	0 **	1	0	0	0 *	5	0	0	0
		(23)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(2)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
	extramedullary hematopoiesis	0	0	0	0	(0)	(0)	(0)	(0)	1	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus	8	0	0	0	(19)	(0)	(0)	(0)	6	2	0	0	9	1	0	0	5	2	0	0
		(19)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(15)	(5)	(0)	(0)	(21)	(2)	(0)	(0)	(14)	(6)	(0)	(0)
	basophilic cell focus	37	1	0	0	(86)	(2)	(0)	(0)	34	0	0	0	34	0	0	0	30	1	0	0
		(86)	(2)	(0)	(0)	(85)	(0)	(0)	(0)	(85)	(0)	(0)	(0)	(81)	(0)	(0)	(0)	(86)	(3)	(0)	(0)
	spongiosis hepatis	1	0	0	0	(2)	(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)	(0)	(0)	(0)	(0)	(0)
	bile duct hyperplasia	23	0	0	0	(53)	(0)	(0)	(0)	29	0	0	0	21	0	0	0	15	0	0	0
		(53)	(0)	(0)	(0)	(73)	(0)	(0)	(0)	(73)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(43)	(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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 22

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<43>				<40>				<42>				<35>			
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		2 (5)	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)	
pancreas			<43>				<40>				<42>				<35>			
	atrophy		0 (0)	1 (2)	0 (0)	0 (0)	3 (8)	0 (0)	0 (0)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)	2 (6)	1 (3)	0 (0)	0 (0)
	islet cell hyperplasia		2 (5)	1 (2)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
(Urinary system)																		
kidney			<43>				<40>				<42>				<35>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	scar		1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Urinary system)																		
kidney			<43>				<40>				<42>				<35>			
	chronic nephropathy		12 (28)	5 (12)	1 (2)	0 (0)	22 (55)	0 (0)	0 (0)	1 * (3)	17 (40)	6 (14)	0 (0)	0 (0)	15 (43)	4 (11)	0 (0)	0 (0)
	papillary necrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (24)	0 (0)	0 (0)	0 ** (0)	18 (51)	4 (11)	1 (3)	0 ** (0)
	mineralization:cortico-medullary junction		1 (2)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)
	mineralization:pelvis		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)
	urothelial hyperplasia:pelvis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)
	dilatation:collecting tubule		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of brown pigment		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	11 (26)	0 (0)	0 (0)	0 ** (0)	35 (100)	0 (0)	0 (0)	0 ** (0)

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

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade				Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																					
urin bladd	papillary and/or nodular hyperplasia	<43>				<40>				<42>				<35>							
		1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																					
pituitary	angiectasis	<43>				<40>				<42>				<35>							
		2	0	0	0	1	0	0	0	0	4	0	0 *	1	1	0	0	0	0	0	0
		(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst	12	4	0	0	14	4	0	0	14	5	1	0	11	3	0	0	0	0	0	0
		(28)	(9)	(0)	(0)	(35)	(10)	(0)	(0)	(33)	(12)	(2)	(0)	(31)	(9)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	5	4	3	0	8	7	5	0	11	5	1	0	5	8	1	0	0	0	0	0
		(12)	(9)	(7)	(0)	(20)	(18)	(13)	(0)	(26)	(12)	(2)	(0)	(14)	(23)	(3)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid	ultimobranchial body remanet	<43>				<40>				<42>				<35>							
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 43				625 ppm 40				1250 ppm 42				2500 ppm 35			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Endocrine system)																		
thyroid			<43>				<40>				<42>				<35>			
	C-cell hyperplasia		8 (19)	4 (9)	0 (0)	0 (0)	9 (23)	3 (8)	0 (0)	0 (0)	8 (19)	2 (5)	3 (7)	0 (0)	3 (9)	0 (0)	0 (0)	0 (0)
	cystic thyroid follicle		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	1 (3)	0 (0)	0 (0)	
adrenal			<43>				<40>				<42>				<35>			
	angiectasis		1 (2)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)
	necrosis:zonal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:cortical cell		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
	focal fatty change:cortex		5 (12)	1 (2)	0 (0)	0 (0)	8 (20)	1 (3)	0 (0)	0 (0)	8 (19)	2 (5)	1 (2)	0 (0)	1 (3)	2 (6)	0 (0)	0 (0)
(Reproductive system)																		
ovary			<43>				<40>				<42>				<35>			
	cyst		0 (0)	2 (5)	0 (0)	0 (0)	1 (3)	3 (8)	0 (0)	0 (0)	1 (2)	2 (5)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
uterus	cystic endometrial hyperplasia		<43>				<40>				<42>				<35>			
		15 (35)	1 (2)	0 (0)	0 (0)	22 (55)	0 (0)	0 (0)	0 (0)	23 (55)	0 (0)	0 (0)	0 (0)	17 (49)	0 (0)	0 (0)	0 (0)	0 (0)
vagina	dilatation		<43>				<40>				<42>				<35>			
		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)
mammary gl	granulation		<43>				<40>				<42>				<35>			
		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)
(Nervous system)																		
brain	deformity		<43>				<40>				<42>				<35>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		<43>				<40>				<42>				<35>			
		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)
(Special sense organs/appendage)																		
eye	cataract		<43>				<40>				<42>				<35>			
		1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)	2 (5)	1 (2)	0 (0)	1 (3)	2 (6)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 27

Organ	Findings	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
eye	retinal atrophy		<43>				<40>				<42>				<35>			
		12	11	2	0	11	5	2	0	7	3	3	0 *	13	7	1	0	
		(28)	(26)	(5)	(0)	(28)	(13)	(5)	(0)	(17)	(7)	(7)	(0)	(37)	(20)	(3)	(0)	
	keratitis		2	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	iritis		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	degeneration		<43>				<40>				<42>				<35>			
		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	lymphocytic infiltration		4	0	0	0	2	1	0	0	1	1	0	0	2	0	0	0
			(9)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)
nasolacr d	inflammation		<43>				<40>				<42>				<35>			
		1	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
(Musculoskeletal system)																		
muscle	degeneration		<43>				<40>				<42>				<35>			
		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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 28

Organ_____	Findings_____	Group Name	Control				625 ppm				1250 ppm				2500 ppm			
		No. of Animals on Study	43				40				42				35			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Musculoskeletal system)																		
bone			<43>				<40>				<42>				<35>			
	osteosclerosis		0	1	0	0	2	1	0	0	2	1	1	0	0	1	1	0
			(0)	(2)	(0)	(0)	(5)	(3)	(0)	(0)	(5)	(2)	(2)	(0)	(0)	(3)	(3)	(0)

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

(HPT150)

BAIS5

TABLE N 1

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

STUDY NO. : 0711
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	625 ppm	1250 ppm	2500 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	1	2	0
	NO. OF ANIMALS WITH TUMORS		1	1	1	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	1	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	1	1	0
	NO. OF TOTAL TUMORS		1	1	1	0
53 - 78	NO. OF EXAMINED ANIMALS		0	1	2	3
	NO. OF ANIMALS WITH TUMORS		0	1	2	3
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	1	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	1	0
	NO. OF BENIGN TUMORS		0	1	3	1
	NO. OF MALIGNANT TUMORS		0	0	2	2
	NO. OF TOTAL TUMORS		0	1	5	3
79 - 104	NO. OF EXAMINED ANIMALS		9	9	13	13
	NO. OF ANIMALS WITH TUMORS		9	9	13	13
	NO. OF ANIMALS WITH SINGLE TUMORS		3	7	2	5
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	2	11	8
	NO. OF BENIGN TUMORS		12	11	17	17
	NO. OF MALIGNANT TUMORS		5	3	11	5
	NO. OF TOTAL TUMORS		17	14	28	22
105 - 105	NO. OF EXAMINED ANIMALS		40	39	33	34
	NO. OF ANIMALS WITH TUMORS		40	38	33	33
	NO. OF ANIMALS WITH SINGLE TUMORS		10	8	14	8
	NO. OF ANIMALS WITH MULTIPLE TUMORS		30	30	19	25
	NO. OF BENIGN TUMORS		79	85	66	55
	NO. OF MALIGNANT TUMORS		12	10	4	11
	NO. OF TOTAL TUMORS		91	95	70	66

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [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	625 ppm	1250 ppm	2500 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		50	49	49	49
	NO. OF ANIMALS WITH SINGLE TUMORS		14	17	18	16
	NO. OF ANIMALS WITH MULTIPLE TUMORS		36	32	31	33
	NO. OF BENIGN TUMORS		91	97	86	73
	NO. OF MALIGNANT TUMORS		18	14	18	18
	NO. OF TOTAL TUMORS		109	111	104	91

(HPT070)

BAIS5

TABLE N 2

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

STUDY NO. : 0711
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	625 ppm	1250 ppm	2500 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	2
	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	3	2	5
	NO. OF ANIMALS WITH TUMORS		2	3	2	2
	NO. OF ANIMALS WITH SINGLE TUMORS		2	2	1	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	1	1	1
	NO. OF BENIGN TUMORS		1	3	3	2
	NO. OF MALIGNANT TUMORS		1	1	0	1
	NO. OF TOTAL TUMORS		2	4	3	3
79 - 104	NO. OF EXAMINED ANIMALS		5	7	6	8
	NO. OF ANIMALS WITH TUMORS		5	7	6	5
	NO. OF ANIMALS WITH SINGLE TUMORS		3	5	4	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	2	2	1
	NO. OF BENIGN TUMORS		4	4	4	3
	NO. OF MALIGNANT TUMORS		4	5	4	3
	NO. OF TOTAL TUMORS		8	9	8	6
105 - 105	NO. OF EXAMINED ANIMALS		43	40	42	35
	NO. OF ANIMALS WITH TUMORS		34	21	27	19
	NO. OF ANIMALS WITH SINGLE TUMORS		20	10	16	15
	NO. OF ANIMALS WITH MULTIPLE TUMORS		14	11	11	4
	NO. OF BENIGN TUMORS		43	31	35	26
	NO. OF MALIGNANT TUMORS		9	3	7	0
	NO. OF TOTAL TUMORS		52	34	42	26

STUDY NO. : 0711
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	625 ppm	1250 ppm	2500 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		41	31	35	26
	NO. OF ANIMALS WITH SINGLE TUMORS		25	17	21	20
	NO. OF ANIMALS WITH MULTIPLE TUMORS		16	14	14	6
	NO. OF BENIGN TUMORS		48	38	42	31
	NO. OF MALIGNANT TUMORS		14	9	11	4
	NO. OF TOTAL TUMORS		62	47	53	35

(HPT070)

BAIS5

TABLE O 1

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Integumentary system/appandage)						
skin/app	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)	<50> 1 (2%)
	trichoepithelioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	keratoacanthoma		3 (6%)	2 (4%)	4 (8%)	0 (0%)
subcutis	fibroma		<50> 5 (10%)	<50> 11 (22%)	<50> 4 (8%)	<50> 4 (8%)
	lipoma		0 (0%)	1 (2%)	2 (4%)	0 (0%)
	leiomyoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	schwannoma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
(Respiratory system)						
nasal cavit	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	fibroma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	chondroma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
lung	bronchiolar-alveolar adenoma		<50> 1 (2%)	<50> 3 (6%)	<50> 1 (2%)	<50> 1 (2%)

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

STUDY NO. : 0711
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	625 ppm 50	1250 ppm 50	2500 ppm 50
(Respiratory system)						
lung	bronchiolar-alveolar carcinoma		<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
(Hematopoietic system)						
bone marrow	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
spleen	fibroma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	hemangioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	hemangiopericytoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	mononuclear cell leukemia		4 (8%)	4 (8%)	3 (6%)	1 (2%)
(Circulatory system)						
heart	atriocaval node tumor:malignan		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Digestive system)						
oral cavity	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
tongue	squamous cell papilloma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)

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

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Digestive system)						
small intes	leiomyoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	leiomyosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
large intes	liposarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
liver	hepatocellular adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
pancreas	islet cell adenoma		<50> 2 (4%)	<50> 6 (12%)	<50> 0 (0%)	<50> 5 (10%)
	acinar cell adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	mixed acinar-islet cell adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	islet cell adenocarcinoma		2 (4%)	2 (4%)	1 (2%)	0 (0%)
(Urinary system)						
kidney	transitional cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)
(Endocrine system)						
pituitary	adenoma		<50> 18 (36%)	<50> 21 (42%)	<50> 19 (38%)	<50> 10 (20%)
	adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Endocrine system)						
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		10 (20%)	7 (14%)	7 (14%)	8 (16%)
	follicular adenoma		1 (2%)	1 (2%)	2 (4%)	1 (2%)
	C-cell carcinoma		3 (6%)	1 (2%)	3 (6%)	2 (4%)
adrenal	follicular adenocarcinoma		0 (0%)	0 (0%)	1 (2%)	4 (8%)
			<50>	<50>	<50>	<50>
	pheochromocytoma		8 (16%)	4 (8%)	2 (4%)	1 (2%)
	pheochromocytoma:malignant		1 (2%)	2 (4%)	2 (4%)	0 (0%)
(Reproductive system)						
testis			<50>	<50>	<50>	<50>
	interstitial cell tumor		34 (68%)	32 (64%)	35 (70%)	35 (70%)
mammary gl			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
prep/cli gl	fibroadenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
			<50>	<50>	<50>	<50>
	adenoma		4 (8%)	2 (4%)	1 (2%)	0 (0%)
(Nervous system)						
brain			<50>	<50>	<50>	<50>
	glioma		1 (2%)	0 (0%)	0 (0%)	1 (2%)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Nervous system)						
brain	meningioma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
spinal cord	glioma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Special sense organs/appendage)						
Harder gl	adenocarcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
Zymbal gl	Zmbal gland tumor:benign		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
	Zymbal gland tumor:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Musculoskeletal system)						
bone	osteosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
vertebra	chordoma:malignant		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
(Body cavities)						
pleura	leiomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
mediastinum	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

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

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Body cavities)						
peritoneum			<50>	<50>	<50>	<50>
	liposarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	mesothelioma		1 (2%)	2 (4%)	1 (2%)	4 (8%)

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

(HPT085)

BAIS5

TABLE O 2

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj [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	625 ppm 50	1250 ppm 50	2500 ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	trichoepithelioma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		1 (2%)	3 (6%)	1 (2%)	1 (2%)
	lipoma		0 (0%)	2 (4%)	0 (0%)	0 (0%)
	fibrosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Respiratory system)						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		3 (6%)	0 (0%)	1 (2%)	0 (0%)
(Hematopoietic system)						
bone marrow			<50>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
spleen			<50>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	mononuclear cell leukemia		4 (8%)	2 (4%)	4 (8%)	0 (0%)
(Digestive system)						
oral cavity			<50>	<50>	<50>	<50>
	squamous cell papilloma		1 (2%)	0 (0%)	0 (0%)	0 (0%)

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

STUDY NO. : 0711
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Digestive system)						
oral cavity			<50>	<50>	<50>	<50>
	squamous cell carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
tongue			<50>	<50>	<50>	<50>
	squamous cell carcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
large intes			<50>	<50>	<50>	<50>
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
liver			<50>	<50>	<50>	<50>
	hepatocellular adenoma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		1 (2%)	3 (6%)	1 (2%)	0 (0%)
	islet cell adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
(Endocrine system)						
pituitary			<50>	<50>	<50>	<49>
	adenoma		13 (26%)	11 (22%)	14 (28%)	9 (18%)
	adenocarcinoma		2 (4%)	2 (4%)	1 (2%)	0 (0%)
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		2 (4%)	2 (4%)	5 (10%)	4 (8%)
	C-cell carcinoma		2 (4%)	0 (0%)	0 (0%)	1 (2%)
(Reproductive system)						
ovary			<50>	<50>	<50>	<50>
	granulosa cell tumor:benign		1 (2%)	0 (0%)	0 (0%)	0 (0%)

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

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Reproductive system)						
ovary	adenocarcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
uterus	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	endometrial stromal polyp		13 (26%)	4 (8%)	8 (16%)	9 (18%)
	adenocarcinoma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
	endometrial stromal sarcoma		1 (2%)	3 (6%)	1 (2%)	0 (0%)
mammary gl	adenoma		<50> 2 (4%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	fibroadenoma		5 (10%)	8 (16%)	7 (14%)	6 (12%)
	adenocarcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
prep/cli gl	adenoma		<50> 2 (4%)	<50> 3 (6%)	<50> 2 (4%)	<50> 2 (4%)
(Nervous system)						
brain	glioma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
(Special sense organs/appendage)						
Zymbal gl	Zmbal gland tumor:benign		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

TABLE P 1

NEOPLASTIC LESIONS-INCIDENCE AND
STATISTICAL ANALYSIS: MALE

STUDY No. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : skin/appendage TUMOR : keratoacanthoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	2/50 (4.0)	4/50 (8.0)	0/50 (0.0)
Adjusted rates (b)	7.50	5.13	11.11	0.0
Terminal rates (c)	3/40 (7.5)	2/39 (5.1)	3/33 (9.1)	0/34 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.8823			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.1848			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.1212
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates (a)	5/50 (10.0)	11/50 (22.0)	4/50 (8.0)	4/50 (8.0)
Adjusted rates (b)	12.50	24.39	10.26	8.82
Terminal rates (c)	5/40 (12.5)	9/39 (23.1)	3/33 (9.1)	3/34 (8.8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2282			
Prevalence method (d)	P = 0.8456			
Combined analysis (d)	P = 0.7633			
Cochran-Armitage test (e)	P = 0.3031			
Fisher Exact test (e)		P = 0.0857	P = 0.5000	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	1/50 (2.0)
Adjusted rates (b)	2.50	7.69	3.03	2.94
Terminal rates (c)	1/40 (2.5)	3/39 (7.7)	1/33 (3.0)	1/34 (2.9)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.5834			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.6742			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.7525

STUDY No. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	3/50 (6.0)	1/50 (2.0)	1/50 (2.0)
Adjusted rates (b)	5.00	7.69	3.03	2.94
Terminal rates (c)	2/40 (5.0)	3/39 (7.7)	1/33 (3.0)	1/34 (2.9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9034 ?			
Prevalence method (d)	P = 0.7370			
Combined analysis (d)	P = 0.8444			
Cochran-Armitage test (e)	P = 0.2225			
Fisher Exact test (e)		P = 0.6611	P = 0.3087	P = 0.3087
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	4/50 (8.0)	4/50 (8.0)	3/50 (6.0)	1/50 (2.0)
Adjusted rates (b)	7.50	2.56	0.0	0.0
Terminal rates (c)	3/40 (7.5)	1/39 (2.6)	0/33 (0.0)	0/34 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.5447			
Prevalence method (d)	P = 0.9852			
Combined analysis (d)	P = 0.8888			
Cochran-Armitage test (e)	P = 0.1588			
Fisher Exact test (e)		P = 0.6425	P = 0.5000	P = 0.1811
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	6/50 (12.0)	0/50 (0.0)	5/50 (10.0)
Adjusted rates (b)	5.00	15.38	0.0	14.71
Terminal rates (c)	2/40 (5.0)	6/39 (15.4)	0/33 (0.0)	5/34 (14.7)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.1873			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.5285			
Fisher Exact test (e)		P = 0.1343	P = 0.2475	P = 0.2180

STUDY No. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	8/50 (16.0)	1/50 (2.0)	5/50 (10.0)
Adjusted rates (b)	10.00	20.51	0.0	14.71
Terminal rates (c)	4/40 (10.0)	8/39 (20.5)	0/33 (0.0)	5/34 (14.7)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3944			
Prevalence method (d)	P = 0.4968			
Combined analysis (d)	P = 0.4783			
Cochran-Armitage test (e)	P = 0.8021			
Fisher Exact test (e)		P = 0.1783	P = 0.1811	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma, mixed acinar-islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	9/50 (18.0)	1/50 (2.0)	5/50 (10.0)
Adjusted rates (b)	10.00	21.43	0.0	14.71
Terminal rates (c)	4/40 (10.0)	8/39 (20.5)	0/33 (0.0)	5/34 (14.7)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3944			
Prevalence method (d)	P = 0.5579			
Combined analysis (d)	P = 0.5382			
Cochran-Armitage test (e)	P = 0.7137			
Fisher Exact test (e)		P = 0.1168	P = 0.1811	P = 0.5000
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	18/50 (36.0)	21/50 (42.0)	19/50 (38.0)	10/50 (20.0)
Adjusted rates (b)	35.71	42.50	45.71	17.65
Terminal rates (c)	13/40 (32.5)	16/39 (41.0)	14/33 (42.4)	6/34 (17.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1922			
Prevalence method (d)	P = 0.9858			
Combined analysis (d)	P = 0.9280			
Cochran-Armitage test (e)	P = 0.0435*			
Fisher Exact test (e)		P = 0.3410	P = 0.5000	P = 0.0591

STUDY No. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	19/50 (38. 0)	21/50 (42. 0)	19/50 (38. 0)	10/50 (20. 0)
Adjusted rates (b)	38. 10	42. 50	45. 71	17. 65
Terminal rates (c)	14/40 (35. 0)	16/39 (41. 0)	14/33 (42. 4)	6/34 (17. 6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 1922			
Prevalence method (d)	P = 0. 9911			
Combined analysis (d)	P = 0. 9470			
Cochran-Armitage test (e)	P = 0. 0287*			
Fisher Exact test (e)		P = 0. 4192	P = 0. 5815	P = 0. 0385*
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	10/50 (20. 0)	7/50 (14. 0)	7/50 (14. 0)	8/50 (16. 0)
Adjusted rates (b)	22. 50	17. 95	15. 15	18. 60
Terminal rates (c)	9/40 (22. 5)	7/39 (17. 9)	5/33 (15. 2)	5/34 (14. 7)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 3793			
Prevalence method (d)	P = 0. 6130			
Combined analysis (d)	P = 0. 5942			
Cochran-Armitage test (e)	P = 0. 6956			
Fisher Exact test (e)		P = 0. 2977	P = 0. 2977	P = 0. 3976
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates (a)	3/50 (6. 0)	1/50 (2. 0)	3/50 (6. 0)	2/50 (4. 0)
Adjusted rates (b)	7. 32	2. 56	8. 11	2. 94
Terminal rates (c)	2/40 (5. 0)	1/39 (2. 6)	2/33 (6. 1)	1/34 (2. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 1080			
Prevalence method (d)	P = 0. 7233			
Combined analysis (d)	P = 0. 5149			
Cochran-Armitage test (e)	P = 0. 8627			
Fisher Exact test (e)		P = 0. 3087	P = 0. 6611	P = 0. 5000

STUDY No. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : thyroid TUMOR : follicular adenocarcinoma				
Tumor rate				
Overall rates (a)	0/50 (0.0)	0/50 (0.0)	1/50 (2.0)	4/50 (8.0)
Adjusted rates (b)	0.0	0.0	2.63	11.76
Terminal rates (c)	0/40 (0.0)	0/39 (0.0)	0/33 (0.0)	4/34 (11.8)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0021**			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0046**			
Fisher Exact test (e)		P = N. C.	P = 0.5000	P = 0.0587
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	13/50 (26.0)	8/50 (16.0)	10/50 (20.0)	10/50 (20.0)
Adjusted rates (b)	29.27	20.51	22.22	20.93
Terminal rates (c)	11/40 (27.5)	8/39 (20.5)	7/33 (21.2)	6/34 (17.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1296			
Prevalence method (d)	P = 0.7274			
Combined analysis (d)	P = 0.6089			
Cochran-Armitage test (e)	P = 0.6570			
Fisher Exact test (e)		P = 0.1631	P = 0.3176	P = 0.3176
SITE : thyroid TUMOR : follicular adenoma, follicular adenocarcinoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	1/50 (2.0)	3/50 (6.0)	5/50 (10.0)
Adjusted rates (b)	2.50	2.56	6.38	13.51
Terminal rates (c)	1/40 (2.5)	1/39 (2.6)	1/33 (3.0)	4/34 (11.8)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0185*			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0372*			
Fisher Exact test (e)		P = 0.7525	P = 0.3087	P = 0.1022

STUDY No. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates (a)	8/50 (16. 0)	4/50 (8. 0)	2/50 (4. 0)	1/50 (2. 0)
Adjusted rates (b)	20. 00	9. 52	6. 06	2. 94
Terminal rates (c)	8/40 (20. 0)	3/39 (7. 7)	2/33 (6. 1)	1/34 (2. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 9939			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 0097**			
Fisher Exact test (e)		P = 0. 1783	P = 0. 0458*	P = 0. 0154*
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	9/50 (18. 0)	6/50 (12. 0)	4/50 (8. 0)	1/50 (2. 0)
Adjusted rates (b)	22. 50	14. 29	6. 06	2. 94
Terminal rates (c)	9/40 (22. 5)	5/39 (12. 8)	2/33 (6. 1)	1/34 (2. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 3806			
Prevalence method (d)	P = 0. 9979			
Combined analysis (d)	P = 0. 9948			
Cochran-Armitage test (e)	P = 0. 0067**			
Fisher Exact test (e)		P = 0. 2883	P = 0. 1168	P = 0. 0078**
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates (a)	34/50 (68. 0)	32/50 (64. 0)	35/50 (70. 0)	35/50 (70. 0)
Adjusted rates (b)	75. 00	76. 92	82. 35	86. 49
Terminal rates (c)	30/40 (75. 0)	30/39 (76. 9)	27/33 (81. 8)	29/34 (85. 3)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 1003			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 6818			
Fisher Exact test (e)		P = 0. 4165	P = 0. 5000	P = 0. 5000

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : preputial/clitoral gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	2/50 (4.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates (b)	7.50	5.13	2.13	0.0
Terminal rates (c)	3/40 (7.5)	2/39 (5.1)	0/33 (0.0)	0/34 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9095 ?			
Prevalence method (d)	P = 0.9687			
Combined analysis (d)	P = 0.9872			
Cochran-Armitage test (e)	P = 0.0319*			
Fisher Exact test (e)		P = 0.3389	P = 0.1811	P = 0.0587
SITE : Zymbal gland TUMOR : Zmbal gland tumor:benign ,Zymbal gland tumor:malignant				
Tumor rate				
Overall rates (a)	1/50 (2.0)	0/50 (0.0)	0/50 (0.0)	3/50 (6.0)
Adjusted rates (b)	2.50	0.0	0.0	0.0
Terminal rates (c)	1/40 (2.5)	0/39 (0.0)	0/33 (0.0)	0/34 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.0041**?			
Prevalence method (d)	P = 0.9078 ?			
Combined analysis (d)	P = 0.0475*			
Cochran-Armitage test (e)	P = 0.0877			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.3087
(HPT360A)				
BAIS5				

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : peritoneum TUMOR : mesothelioma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	2/50 (4.0)	1/50 (2.0)	4/50 (8.0)
Adjusted rates (b)	2.50	5.13	0.0	8.82
Terminal rates (c)	1/40 (2.5)	2/39 (5.1)	0/33 (0.0)	3/34 (8.8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1315			
Prevalence method (d)	P = 0.1307			
Combined analysis (d)	P = 0.0588			
Cochran-Armitage test (e)	P = 0.1432			
Fisher Exact test (e)		P = 0.5000	P = 0.7525	P = 0.1811

(HPT360A)

BAIS5

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

TABLE P 2

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

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	1/50 (2.0)
Adjusted rates (b)	2.33	2.50	2.38	2.86
Terminal rates (c)	1/43 (2.3)	1/40 (2.5)	1/42 (2.4)	1/35 (2.9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.7085			
Prevalence method (d)	P = 0.4282			
Combined analysis (d)	P = 0.5895			
Cochran-Armitage test (e)	P = 0.6742			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.7525
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	2/50 (4.0)
Adjusted rates (b)	2.33	2.50	2.38	2.86
Terminal rates (c)	1/43 (2.3)	1/40 (2.5)	1/42 (2.4)	1/35 (2.9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.3357			
Prevalence method (d)	P = 0.4282			
Combined analysis (d)	P = 0.3485			
Cochran-Armitage test (e)	P = 0.8453			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	0/50 (0.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates (b)	6.98	0.0	2.38	0.0
Terminal rates (c)	3/43 (7.0)	0/40 (0.0)	1/42 (2.4)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9570			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.0877			
Fisher Exact test (e)		P = 0.1212	P = 0.3087	P = 0.1212

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
 SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	4/50 (8.0)	2/50 (4.0)	4/50 (8.0)	0/50 (0.0)
Adjusted rates (b)	2.33	2.50	7.14	0.0
Terminal rates (c)	1/43 (2.3)	1/40 (2.5)	3/42 (7.1)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.9576			
Prevalence method (d)	P = 0.6341			
Combined analysis (d)	P = 0.9277			
Cochran-Armitage test (e)	P = 0.0999			
Fisher Exact test (e)		P = 0.3389	P = 0.6425	P = 0.0587
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates (b)	2.33	7.32	2.38	0.0
Terminal rates (c)	1/43 (2.3)	2/40 (5.0)	1/42 (2.4)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.8439			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.2508			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	3/50 (6.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates (b)	4.65	7.32	2.38	0.0
Terminal rates (c)	2/43 (4.7)	2/40 (5.0)	1/42 (2.4)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.9274			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.1232			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.2475

STUDY No. : 0711
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	13/50 (26. 0)	11/50 (22. 0)	14/50 (28. 0)	9/49 (18. 4)
Adjusted rates (b)	27. 27	23. 26	25. 58	22. 86
Terminal rates (c)	11/43 (25. 6)	9/40 (22. 5)	10/42 (23. 8)	8/35 (22. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 3993			
Prevalence method (d)	P = 0. 6245			
Combined analysis (d)	P = 0. 5836			
Cochran-Armitage test (e)	P = 0. 4468			
Fisher Exact test (e)		P = 0. 4076	P = 0. 5000	P = 0. 2513
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	15/50 (30. 0)	13/50 (26. 0)	15/50 (30. 0)	9/49 (18. 4)
Adjusted rates (b)	29. 55	26. 19	26. 09	22. 86
Terminal rates (c)	12/43 (27. 9)	10/40 (25. 0)	10/42 (23. 8)	8/35 (22. 9)
Statistical analysis				
Peto test				
Standard method (d)	P = 0. 6045			
Prevalence method (d)	P = 0. 7328			
Combined analysis (d)	P = 0. 7552			
Cochran-Armitage test (e)	P = 0. 2116			
Fisher Exact test (e)		P = 0. 4120	P = 0. 5862	P = 0. 1322
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	2/50 (4. 0)	2/50 (4. 0)	5/50 (10. 0)	4/50 (8. 0)
Adjusted rates (b)	4. 65	5. 00	11. 90	11. 43
Terminal rates (c)	2/43 (4. 7)	2/40 (5. 0)	5/42 (11. 9)	4/35 (11. 4)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0. 0988			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0. 3086			
Fisher Exact test (e)		P = 0. 6913	P = 0. 2180	P = 0. 3389

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 12

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	2/50 (4.0)	5/50 (10.0)	5/50 (10.0)
Adjusted rates (b)	9.30	5.00	11.90	11.43
Terminal rates (c)	4/43 (9.3)	2/40 (5.0)	5/42 (11.9)	4/35 (11.4)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.0858 ?			
Prevalence method (d)	P = 0.2689			
Combined analysis (d)	P = 0.1571			
Cochran-Armitage test (e)	P = 0.4809			
Fisher Exact test (e)		P = 0.3389	P = 0.5000	P = 0.5000
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates (a)	13/50 (26.0)	4/50 (8.0)	8/50 (16.0)	9/50 (18.0)
Adjusted rates (b)	29.55	10.00	16.00	20.00
Terminal rates (c)	12/43 (27.9)	4/40 (10.0)	6/42 (14.3)	7/35 (20.0)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.5902			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.6560			
Fisher Exact test (e)		P = 0.0155*	P = 0.1631	P = 0.2348
SITE : uterus TUMOR : endometrial stromal sarcoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates (b)	2.33	0.0	0.0	0.0
Terminal rates (c)	1/43 (2.3)	0/40 (0.0)	0/42 (0.0)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.6948			
Prevalence method (d)	P = 0.9006 ?			
Combined analysis (d)	P = 0.8414			
Cochran-Armitage test (e)	P = 0.2508			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.5000

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 13

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates (a)	5/50 (10.0)	8/50 (16.0)	7/50 (14.0)	6/50 (12.0)
Adjusted rates (b)	11.63	17.50	16.67	17.14
Terminal rates (c)	5/43 (11.6)	7/40 (17.5)	7/42 (16.7)	6/35 (17.1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.5644			
Prevalence method (d)	P = 0.2842			
Combined analysis (d)	P = 0.3211			
Cochran-Armitage test (e)	P = 0.9433			
Fisher Exact test (e)		P = 0.2768	P = 0.3798	P = 0.5000
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	7/50 (14.0)	10/50 (20.0)	7/50 (14.0)	6/50 (12.0)
Adjusted rates (b)	16.28	20.00	16.67	17.14
Terminal rates (c)	7/43 (16.3)	8/40 (20.0)	7/42 (16.7)	6/35 (17.1)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.7004			
Prevalence method (d)	P = 0.5066			
Combined analysis (d)	P = 0.5768			
Cochran-Armitage test (e)	P = 0.5468			
Fisher Exact test (e)		P = 0.2977	P = 0.6129	P = 0.5000

(HPT360A)

BAIS5

STUDY No. : 0711
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 14

Group Name	Control	625 ppm	1250 ppm	2500 ppm
SITE : preputial/clitoral gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	3/50 (6.0)	2/50 (4.0)	2/50 (4.0)
Adjusted rates (b)	2.33	7.50	2.38	0.0
Terminal rates (c)	1/43 (2.3)	3/40 (7.5)	1/42 (2.4)	0/35 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.1450			
Prevalence method (d)	P = 0.8415			
Combined analysis (d)	P = 0.4928			
Cochran-Armitage test (e)	P = 0.8627			
Fisher Exact test (e)		P = 0.5000	P = 0.6913	P = 0.6913

(HPT360A)

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- (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 Q 1

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: MALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Respiratory system)						
nasal cavit	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
nasopharynx	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
lung	leukemic cell infiltration		<50> 3	<50> 3	<50> 3	<50> 1
	metastasis:thyroid tumor		0	0	2	1
	metastasis:bone tumor		0	0	1	0
	metastasis:vertebra tumor		0	0	1	0
	metastasis:pleura tumor		0	0	1	0
(Hematopoietic system)						
bone marrow	leukemic cell infiltration		<50> 1	<50> 2	<50> 2	<50> 1
	metastasis:pleura tumor		0	0	1	0
lymph node	leukemic cell infiltration		<50> 0	<50> 3	<50> 1	<50> 0
	metastasis:thyroid tumor		0	0	1	0
	metastasis:pleura tumor		0	0	1	0
(Circulatory system)						
heart	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. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____ Findings_____		Group Name No. of Animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Circulatory system)						
heart	metastasis:pleura tumor		<50> 0	<50> 0	<50> 1	<50> 0
(Digestive system)						
tongue	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:oral cavity tumor		0	0	0	1
liver	leukemic cell infiltration		<50> 3	<50> 3	<50> 3	<50> 1
	metastasis:pancreas tumor		0	0	1	0
	metastasis:pleura tumor		0	0	1	0
pancreas	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 0
(Urinary system)						
kidney	leukemic cell infiltration		<50> 0	<50> 2	<50> 1	<50> 1
	metastasis:pleura tumor		0	0	1	0
(Endocrine system)						
adrenal	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
(Nervous system)						
brain	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 3

Organ_____		Findings_____	Group Name No. of Animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Nervous system)							
brain			<50>		<50>	<50>	<50>
	metastasis:bone tumor		1		0	0	0
spinal cord			<50>		<50>	<50>	<50>
	leukemic cell infiltration		0		0	1	0
< a >	a : Number of animals examined at the site						
b	b : Number of animals with lesion						
(JPT150)							
BA1							

TABLE Q 2

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: FEMALE

STUDY NO. : 0711
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Integumentary system/appandage)						
skin/app	metastasis:oral cavity tumor		<50> 0	<50> 0	<50> 1	<50> 0
(Respiratory system)						
nasal cavit	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:liver tumor		0	0	0	1
nasopharynx	metastasis:liver tumor		<50> 0	<50> 0	<50> 0	<50> 1
lung	leukemic cell infiltration		<50> 3	<50> 1	<50> 3	<50> 0
	metastasis:liver tumor		0	0	0	1
(Hematopoietic system)						
bone marrow	leukemic cell infiltration		<50> 2	<50> 0	<50> 1	<50> 0
lymph node	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 0
	metastasis:liver tumor		0	0	0	1
	metastasis:uterus tumor		1	0	0	0
	metastasis:spleen tumor		0	0	1	0
(Circulatory system)						
heart	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. : 0711
 ANIMAL : RAT F344/DuCrj [Crj] [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	625 ppm 50	1250 ppm 50	2500 ppm 50
(Digestive system)						
tongue	metastasis:oral cavity tumor		<50> 0	<50> 0	<50> 1	<50> 0
large intes	metastasis:uterus tumor		<50> 0	<50> 1	<50> 0	<50> 0
liver	leukemic cell infiltration		<50> 3	<50> 1	<50> 4	<50> 0
(Urinary system)						
kidney	leukemic cell infiltration		<50> 1	<50> 0	<50> 2	<50> 0
(Reproductive system)						
vagina	metastasis:uterus tumor		<50> 0	<50> 1	<50> 0	<50> 0
mammary gl	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
(Nervous system)						
brain	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:liver tumor		0	0	0	1
	metastasis:pituitary tumor		1	1	1	0
(Special sense organs/appendage)						
eye	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. : 0711
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 6

Group Name		Control	625 ppm	1250 ppm	2500 ppm
No. of Animals on Study		50	50	50	50
Organ	Findings				
(Special sense organs/appendage)					
Harder gl	metastasis:oral cavity tumor	<50> 0	<50> 0	<50> 1	<50> 0
(Body cavities)					
peritoneum	metastasis:large intestine tumor	<50> 1	<50> 0	<50> 0	<50> 0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

(JPT150)

BAIS5

TABLE R

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

TABLE R HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS
IN JAPAN BIOASSAY RESEARCH CENTER : F344/DuCrI CrIj MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Thyroid	2841			
follicular adenoma ¹⁾		27	1.0	0 - 4
follicular adenocarcinoma ²⁾		38	1.3	0 - 8
1) + 2)		65	2.3	0 - 8
Zymbal gland	2848			
Zymbal gland tumor: benign ¹⁾		10	0.4	0 - 4
Zymbal gland tumor: malignant ²⁾		16	0.6	0 - 4
1) + 2)		26	0.9	0 - 4

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

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

TABLE S 1

CAUSE OF DEATH: MALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

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

PAGE : 1

Group Name	Control	625 ppm	1250 ppm	2500 ppm
Number of Dead and Moribund Animal	10	11	17	16
urinary sy les	0	0	1	0
renal lesion	0	1	0	0
urinary retention	1	1	0	0
chronic nephropathy	0	0	1	2
tumor d:leukemia	1	3	3	1
tumor d:subcutis	1	1	0	1
tumor d:nasal cavit	0	1	0	0
tumor d:lung	1	0	0	0
tumor d:oral cavity	0	0	0	1
tumor d:pancreas	0	0	1	0
tumor d:kidney	0	0	1	0
tumor d:pituitary	2	3	3	4
tumor d:thyroid	0	0	1	1
tumor d:adrenal	0	0	2	0
tumor d:prep/cli gl	1	0	0	0
tumor d:brain	1	0	0	1
tumor d:spinal cord	0	1	0	0
tumor d:Harder gl	1	0	0	0
tumor d:Zymbal gl	0	0	0	3
tumor d:bone	1	0	1	0
tumor d:pleura	0	0	2	0
tumor d:mediastinum	0	0	0	1
tumor d:peritoneum	0	0	1	1

(B10120)

BAIS5

TABLE S 2

CAUSE OF DEATH: FEMALE

STUDY NO. : 0711
ANIMAL : RAT F344/DuCr1Cr1J [F344/DuCr1J]
SEX : FEMALE

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

PAGE : 2

Group Name	Control	625 ppm	1250 ppm	2500 ppm
Number of Dead and Moribund Animal	7	10	8	15
no microscop confirm	0	0	1	3
respiratory sy les	0	0	0	1
renal lesion	0	0	0	4
tumor d:leukemia	3	1	1	0
tumor d:subcutis	0	2	0	1
tumor d:oral cavity	0	0	1	0
tumor d:liver	0	0	0	1
tumor d:pituitary	2	2	3	1
tumor d:thyroid	0	0	0	1
tumor d:ovary	1	0	0	0
tumor d:uterus	0	3	1	0
tumor d:mammary gl	0	2	0	0
tumor d:prep/cli gl	1	0	1	2
tumor d:brain	0	0	0	1

(B10120)

BAIS5