

*N,N*-ジメチルアセトアミドのラットを用いた  
吸入によるがん原性試験報告書

試験番号：0753

TABLES

## TABLES

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

## TABLES (CONTINUED)

TABLE	H 1	URINALYSIS: MALE
TABLE	H 2	URINALYSIS: FEMALE
TABLE	I 1	GROSS FINDINGS: MALE: ALL ANIMALS
TABLE	I 2	GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS
TABLE	I 3	GROSS FINDINGS: MALE: SACRIFICED ANIMALS
TABLE	I 4	GROSS FINDINGS: FEMALE: ALL ANIMALS
TABLE	I 5	GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS
TABLE	I 6	GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS
TABLE	J 1	ORGAN WEIGHT, ABSOLUTE: MALE
TABLE	J 2	ORGAN WEIGHT, ABSOLUTE: FEMALE
TABLE	K 1	ORGAN WEIGHT, RELATIVE: MALE
TABLE	K 2	ORGAN WEIGHT, RELATIVE: FEMALE
TABLE	L 1	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : MALE: ALL ANIMALS
TABLE	L 2	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : MALE: DEAD AND MORIBUND ANIMALS
TABLE	L 3	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : MALE: SACRIFICED ANIMALS
TABLE	L 4	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : FEMALE: ALL ANIMALS
TABLE	L 5	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : FEMALE: DEAD AND MORIBUND ANIMALS
TABLE	L 6	HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS : FEMALE: SACRIFICED ANIMALS

## TABLES (CONTINUED)

TABLE	M 1	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: MALE
TABLE	M 2	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED: FEMALE
TABLE	N 1	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: MALE
TABLE	N 2	HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS: FEMALE
TABLE	O 1	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: MALE
TABLE	O 2	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: FEMALE
TABLE	P 1	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: MALE
TABLE	P 2	HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR: FEMALE
TABLE	Q	HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j MALE RATS
TABLE	R 1	CAUSE OF DEATH: MALE
TABLE	R 2	CAUSE OF DEATH: FEMALE

TABLE A

CONCENTRATIONS OF *N,N*-DIMETHYLACETAMIDE  
IN THE INHALATION CHAMBER  
OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF *N,N*-DIMETHYLACETAMIDE IN THE INHALATION  
CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
18 ppm	18.0 $\pm$ 0.5
90 ppm	90.0 $\pm$ 1.4
450 ppm	449.2 $\pm$ 5.0

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

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
18ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)														
		56	57	58	59	60	61	62	63	64	65	66	67	68	69	
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	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
18ppm	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
90ppm	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	50/50 100.0
450ppm	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	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)														

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50 98.0	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	48/50 96.0	48/50 96.0	48/50 96.0
18ppm	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	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0
90ppm	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	49/50 98.0	49/50 98.0
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

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	47/50	46/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	44/50	44/50
		96.0	96.0	94.0	92.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.0	88.0
18ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	45/50	45/50	45/50	45/50	44/50	44/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	90.0	90.0	90.0	90.0	88.0	88.0
90ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	46/50	46/50	45/50	45/50	45/50	45/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	92.0	92.0	90.0	90.0	90.0	90.0
450ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	46/50	46/50	45/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0	92.0	92.0	90.0

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	44/50	43/50	41/50	40/50	40/50	40/50	38/50
		88.0	86.0	82.0	80.0	80.0	80.0	76.0
18ppm	50	44/50	44/50	43/50	43/50	43/50	42/50	41/50
		88.0	88.0	86.0	86.0	86.0	84.0	82.0
90ppm	50	43/50	43/50	42/50	42/50	42/50	40/50	39/50
		86.0	86.0	84.0	84.0	84.0	80.0	78.0
450ppm	50	45/50	44/50	44/50	44/50	43/50	41/50	40/50
		90.0	88.0	88.0	88.0	86.0	82.0	80.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
18ppm	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
90ppm	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
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0	49/50 98.0
18ppm	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	48/50 96.0	48/50 96.0
90ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	49/50 98.0	49/50 98.0	49/50 98.0
450ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50	46/50
		98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0
18ppm	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	94.0	94.0	94.0	94.0	94.0	94.0	94.0
90ppm	50	49/50	49/50	49/50	49/50	48/50	47/50	46/50	46/50	45/50	45/50	45/50	44/50	44/50	44/50
		98.0	98.0	98.0	98.0	96.0	94.0	92.0	92.0	90.0	90.0	90.0	88.0	88.0	88.0
450ppm	50	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

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	45/50 90.0
18ppm	50	47/50 94.0	47/50 94.0	46/50 92.0	46/50 92.0	45/50 90.0	45/50 90.0	44/50 88.0	44/50 88.0	44/50 88.0	43/50 86.0	43/50 86.0	43/50 86.0	41/50 82.0	40/50 80.0
90ppm	50	44/50 88.0	44/50 88.0	44/50 88.0	44/50 88.0	44/50 88.0	44/50 88.0	41/50 82.0	41/50 82.0	41/50 82.0	40/50 80.0	39/50 78.0	39/50 78.0	39/50 78.0	38/50 76.0
450ppm	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	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	48/50 96.0	47/50 94.0	47/50 94.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	44/50 88.0	43/50 86.0	43/50 86.0	42/50 84.0	41/50 82.0	41/50 82.0	41/50 82.0
18ppm	50	40/50 80.0	40/50 80.0	40/50 80.0	40/50 80.0	40/50 80.0	40/50 80.0	39/50 78.0
90ppm	50	37/50 74.0	37/50 74.0	37/50 74.0	37/50 74.0	37/50 74.0	36/50 72.0	36/50 72.0
450ppm	50	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	46/50 92.0	45/50 90.0
		Number of survival/ Number of effective animals Survival rate(%)						



TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	18ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	2	3	4	5	5	5	5	5	5	5	5	6	6	6
	18ppm	2	2	2	2	2	2	3	4	4	4	4	5	5	5
	90ppm	0	0	0	0	0	0	1	1	1	2	2	2	2	4
	450ppm	2	2	2	2	2	2	2	2	2	3	4	4	5	5
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	3	3	3	3	3	3	3
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	90ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRONE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	2	0	0	0	0	1	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 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
		1	1	1	1	1	1
DEATH	Control	7	7	7	7	7	8
	18ppm	5	6	6	6	6	7
	90ppm	4	4	4	4	6	7
	450ppm	6	6	6	7	7	7
MORIBUND SACRIFICE	Control	0	2	3	3	3	4
	18ppm	1	1	1	1	2	2
	90ppm	3	4	4	4	4	4
	450ppm	0	0	0	0	2	3
LOCOMOTOR MOVEMENT DECR	Control	0	1	0	0	0	1
	18ppm	0	0	0	0	1	0
	90ppm	0	1	0	0	0	0
	450ppm	0	0	0	0	1	0
PRONE	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	1
PARALYTIC GAIT	Control	0	0	1	1	1	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	1	1	1
SOILED	Control	1	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
FROG BELLY	Control	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 10

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	2	2	2	2	2	2	2	2	2	2	2
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 11

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	2	3	3	3	3	3	3	3	3	4	4	4	4	4
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 13

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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	1	1	1	1
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	450ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	1	1	1	1	1	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	1	2	2	2	2	2	2	2	2	2	2	1
	18ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 14

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	450ppm	2	4	4	4	4	4	5	4	4	4	4	4	4	4
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	3	2	2	2	3	3	3	3	4	4
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	2	2	3	3	4	4	4	5	5	6	6	5	5	4
	450ppm	0	0	0	0	0	0	0	1	2	2	2	2	4	3
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	450ppm	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	3	3	3	3	3
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	450ppm	4	4	4	4	4	5	5	5	5	4	3	3	5	5
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	6	9	9	8	8	9	9	10	10	10	10	9	10	10
	18ppm	1	1	1	1	2	2	2	3	3	2	2	2	2	2
	90ppm	4	4	4	4	4	4	4	4	5	4	4	4	4	4
	450ppm	4	4	4	4	4	5	5	5	6	5	5	5	6	6
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	1	1	1	1
SOILED PERI-GENITALIA	Control	1	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3
	18ppm	1	1	1	1	1	1
	90ppm	5	5	5	5	4	6
	450ppm	4	4	4	5	4	4
CORNEAL OPACITY	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	1	1
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	10	9	8	8	10	13
	18ppm	2	3	4	6	6	5
	90ppm	5	5	5	6	6	8
	450ppm	7	7	7	7	9	8
INTERNAL MASS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	1	0	0	0	1
	450ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	1
	450ppm	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 17

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 22

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	0	0	0	0	2	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	1	1	1	2	2
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	1	1	1	1	1	2	1
M. ANTERIOR. DORSUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	0	0	1	1	1	1	1	1	1	1	1	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. PERI-MOUTH	Control	1	1	1	1	1	1	1	2	2	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	450ppm	1	1	1	1	1	2	2	2	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. FORELIMB	Control	0	1	1	1	1	1	1	1	1	2	2	2	2	2
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	1	1	1	1	1	1	1	1	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
M. ABDOMEN	Control	4	4	4	4	4	4	4	4	4	5	5	4	4	4
	18ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	1	2	2	2	2	2	2	2	2	2	2	2	3	3
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 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
		1	1	1	1	1	1
M. PERI-MOUTH	Control	1	1	1	1	2	2
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	2	2	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	1	1
M. EAR	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	2	2	2	2	2	2
M. NECK	Control	0	0	0	0	0	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	1	1	1
	450ppm	1	1	1	1	1	0
M. FORELIMB	Control	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1
	18ppm	0	0	1	2	2	2
	90ppm	0	0	0	0	0	0
	450ppm	0	0	1	1	1	2
M. ABDOMEN	Control	4	3	3	3	3	3
	18ppm	1	2	2	3	3	2
	90ppm	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	3	3	2	2	2	3
	18ppm	1	1	1	2	2	2
	90ppm	1	1	1	1	1	2
	450ppm	0	0	0	0	1	1

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 25

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 27

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 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													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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	1	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	450ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. HINDLIMB	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	1	1	1	1	2	1	0	0	0	0	1
	450ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	0	1	0	0
	450ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 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
		1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	1	1	1	1	2	2
	18ppm	0	0	0	0	0	0
	90ppm	3	3	3	3	3	3
	450ppm	1	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	1	0
M. TAIL	Control	0	0	1	1	1	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ANEMIA	Control	1	1	0	0	2	3
	18ppm	0	0	0	0	3	2
	90ppm	1	1	1	1	0	0
	450ppm	0	0	0	0	0	5
JAUNDICE	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	18ppm	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1
CRUSTA	Control	0	0	0	1	1	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	90ppm	50	50	50	50	50	50	49	49	49	49	49	49	49	49
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	50	50	50	50	50	50	50	50	50	50	49	49	49	49
	90ppm	49	49	49	48	48	48	48	48	48	48	48	48	48	48
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	90ppm	48	47	47	47	47	47	47	47	47	45	45	45	45	45
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	49	49	49	49	48	48	48	48	48	48	47	47	47	47
	90ppm	45	45	45	45	45	45	45	45	45	45	45	45	45	44
	450ppm	50	50	50	50	50	50	50	50	50	50	49	49	49	49

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
NON REMARKABLE	Control	50	50	49	48	48	48	48	48	48	48	47	47	46	47
	18ppm	47	47	47	47	48	48	48	48	48	48	48	48	48	48
	90ppm	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	450ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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	1	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
NON REMARKABLE	Control	47	47	47	47	45	45	45	45	44	44	44	43	42	43
	18ppm	48	48	48	48	47	47	47	47	47	47	47	47	47	45
	90ppm	44	44	43	43	42	42	42	41	41	40	40	40	40	41
	450ppm	48	46	46	46	46	46	45	44	43	43	43	43	41	41

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	0	0	0	0	0	0	0	0	1	0	0	1	1	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	2	2	2	2	2	0	0	0	1	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	41	36	36	36	36	35	35	33	33	32	32	32	30	30
	18ppm	45	45	45	45	44	44	43	42	41	42	41	41	41	41
	90ppm	41	41	41	40	40	40	39	39	37	37	37	36	35	35
	450ppm	40	40	40	40	40	38	38	38	37	38	38	38	35	34



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0
	18ppm	1	1	0	1	2	1
	90ppm	0	0	1	1	0	0
	450ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	1	0	1	1	1
	18ppm	0	0	0	0	1	0
	90ppm	1	2	1	1	0	0
	450ppm	0	0	0	1	1	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	1	0	0	0	1
	18ppm	0	0	0	0	1	0
	90ppm	0	1	0	0	0	0
	450ppm	0	0	0	0	1	1
NON REMARKABLE	Control	29	29	28	28	26	22
	18ppm	41	38	38	36	34	33
	90ppm	33	32	32	31	31	25
	450ppm	33	33	33	31	28	26

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 41

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 44

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	2	2	1
	90ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	1	1	2	2	2	2	2	2	2	2	2	3	4	4
	18ppm	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	90ppm	1	1	1	1	2	2	2	3	3	3	4	4	4	4
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	1	1	2	2	2	2	2	2	2	2	2
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	4	4	4	4	4	4	4	4	4	4	4	4	5	6
	18ppm	3	4	4	4	4	5	5	5	6	6	6	6	6	6
	90ppm	4	4	4	4	4	6	6	6	7	8	8	8	8	8
	450ppm	0	0	0	0	0	0	1	1	1	1	1	2	2	3
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	1	1	1	1	1	1	1	1	3	4	4
	90ppm	2	2	2	2	2	3	3	3	3	3	3	3	4	5
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	2	1	0
	90ppm	0	0	0	0	1	1	0	0	0	0	0	0	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	450ppm	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	1	1	0
	18ppm	1	1	1	0	0	0	0	0	0	0	0	1	1	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	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
	18ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 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
		1	1	1	1	1	1
DEATH	Control	6	6	6	7	7	7
	18ppm	6	6	6	6	6	6
	90ppm	8	8	8	8	9	9
	450ppm	3	3	3	3	3	4
MORIBUND SACRIFICE	Control	1	1	2	2	2	2
	18ppm	4	4	4	4	4	5
	90ppm	5	5	5	5	5	5
	450ppm	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	1	0	1	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	2
LATERAL	Control	0	0	1	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	1	1	0	0
	450ppm	1	1	1	1	1	1
SOILED	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 49

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 50

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	2	2	2	2	2	2	2	2	2	2	2	2	2
	18ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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	1
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 51

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	2	3	3	2	2	3
	90ppm	1	1	1	1	1	1	3	3	3	3	4	4	4	4
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	1	0	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	1
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	4	4	4	4	4	4	4	4	5	5	5	5	5	5
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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	1	1	1	0	0	0
	18ppm	3	3	3	3	3	3	2	2	2	3	5	6	6	6
	90ppm	4	4	4	4	3	3	3	4	4	4	3	3	3	3
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	2	1	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	1	0	1	0	0	0	0	0	0	0	0	1	1
	450ppm	1	0	0	0	1	1	0	0	0	0	0	0	1	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	18ppm	7	6	6	6	6	5	5	5	6	6	6	5	4	
	90ppm	3	3	4	4	4	4	4	4	5	5	7	7	5	
	450ppm	2	2	2	2	2	2	3	4	4	4	4	4	3	
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	1	2	1	1	1	0	0	0	0	0
	450ppm	1	1	1	1	1	1	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	450ppm	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
	18ppm	2	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 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
		1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	1	0
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	2
CATARACT	Control	5	4	4	4	4	4
	18ppm	1	1	1	1	2	2
	90ppm	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	1	0	0	0	1	2
	18ppm	4	7	7	8	8	8
	90ppm	5	5	5	5	4	6
	450ppm	3	3	5	7	7	8
INTERNAL MASS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	18ppm	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	1	1	1	1	1	1

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 57

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 58

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 60

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 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
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	1	1	1	1	1	1	1	1	1	2	3	3	3
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	2	3	3	2	2	3
	90ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	3	3	3	3	2	2	2	2	2	2	2	2	2	2
	450ppm	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
	18ppm	3	3	3	3	3	3	2	2	2	2	2	2	2	2
	90ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	90ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	0	1	1	0	0	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	18ppm	1	1	1	2	2	1	1	1	1	2	2	2	2	2
	90ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	450ppm	1	1	1	1	1	1	2	3	3	3	3	3	3	2
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	2	2	2	2	2	1	1	1	1	1	1	1	0	0
	90ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	450ppm	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
	18ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	0
	18ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	1	0	0	0	0	0	0	0	0	1	1	2	1	1
	450ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	2	1	1	1	1	0	0	0	1	1	1	2	0	0
	90ppm	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. BREAST	Control	1	0	0	0	0	1
	18ppm	2	3	3	3	3	3
	90ppm	3	3	3	3	2	2
	450ppm	2	2	3	3	3	3
M. ABDOMEN	Control	0	0	0	0	1	1
	18ppm	0	0	0	0	0	0
	90ppm	1	1	1	1	1	2
	450ppm	0	0	1	3	3	3
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0
	18ppm	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	18ppm	0	2	2	3	3	3
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	1	1	1	1	1	2
	450ppm	0	0	0	0	0	1
M. ANUS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
EDEMA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ANEMIA	Control	1	0	0	0	1	1
	18ppm	0	0	0	0	1	1
	90ppm	0	0	1	1	0	1
	450ppm	0	0	0	0	0	2

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 65

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 66

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 67

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	1	1	1	1	1	1	1	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	1	1	0	1	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	450ppm	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	1	0	0	0
	18ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	0	0	0	0	1	0	0	0	0	0	0	1	0	0
	90ppm	0	0	0	1	2	1	0	0	0	0	0	0	0	1
	450ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
JAUNDICE	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
CYANOSIS	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	1	0
	450ppm	0	0	0	0	0	0
EROSION	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	18ppm	1	1	1	1	1	1
	90ppm	1	1	1	1	1	0
	450ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	1	1	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
DYSYPNEA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	1	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	1	1	1
TACHYPNEA	Control	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 73

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	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
	18ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	90ppm	50	50	50	50	50	50	50	50	50	50	49	50	50	50
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 74

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	48	48	48	48	48	48	48	48	48	48	48	48	47
	18ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49
	90ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 75

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	47	47	47	47	47	47	47	46	46	46	46	46	46	46
	18ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	90ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	450ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 76

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	18ppm	49	49	49	49	49	49	49	49	49	49	49	48	49	48
	90ppm	49	49	49	49	49	49	49	48	48	48	48	48	48	48
	450ppm	50	50	50	50	50	50	50	50	50	50	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr |Cr |j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 77

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		1	1	2	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	18ppm	48	47	47	47	47	47	47	47	47	46	46	45	45	44
	90ppm	48	48	48	48	48	48	46	46	46	46	45	44	44	44
	450ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 78

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
NON REMARKABLE	Control	45	45	44	44	44	44	44	44	42	42	42	42	41	41
	18ppm	44	44	44	44	44	44	43	44	43	43	42	40	39	39
	90ppm	44	44	44	44	43	41	41	39	40	40	40	40	40	40
	450ppm	49	49	49	49	49	49	49	49	48	48	48	48	48	47

(HAN190)

BAIS 5



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 79

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18ppm	0	0	0	0	0	0	0	0	0	0	0	2	1	0
	90ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	450ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	41	41	41	41	41	41	41	41	40	40	40	40	39	39
	18ppm	37	38	38	38	38	37	37	37	36	35	35	34	34	34
	90ppm	40	39	39	37	37	35	35	35	34	33	33	31	29	30
	450ppm	45	46	46	46	46	46	45	43	43	43	43	42	42	42

(HAN190)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr | Cr | j [F344/DuCr j]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 80

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
		1	1	1	1	1	1
SUBNORMAL TEMP	Control	1	0	0	0	0	0
	18ppm	0	0	0	0	0	0
	90ppm	0	0	0	0	0	0
	450ppm	0	0	0	0	0	0
NON REMARKABLE	Control	39	39	38	36	34	34
	18ppm	34	31	31	31	29	29
	90ppm	30	30	30	30	30	29
	450ppm	42	42	40	37	36	33

(HAN190)

BAIS 5

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL  
NUMBERS : MALE

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control		18ppm		90ppm		450ppm				
	Av. Wt. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>
0-0	125 (50)	50/50	125 (50)	100	50/50	125 (50)	100	50/50	125 (50)	100	50/50
1-7	159 (50)	50/50	159 (50)	100	50/50	160 (50)	101	50/50	154 (50)	97	50/50
2-7	195 (50)	50/50	195 (50)	100	50/50	198 (50)	102	50/50	191 (50)	98	50/50
3-7	224 (50)	50/50	223 (50)	100	50/50	226 (50)	101	50/50	217 (50)	97	50/50
4-7	247 (50)	50/50	246 (50)	100	50/50	249 (50)	101	50/50	237 (50)	96	50/50
5-7	264 (50)	50/50	263 (50)	100	50/50	267 (50)	101	50/50	253 (50)	96	50/50
6-7	280 (50)	50/50	280 (50)	100	50/50	284 (50)	101	50/50	269 (50)	96	50/50
7-7	294 (50)	50/50	294 (50)	100	50/50	298 (50)	101	50/50	281 (50)	96	50/50
8-7	308 (50)	50/50	309 (50)	100	50/50	312 (50)	101	50/50	295 (50)	96	50/50
9-7	316 (50)	50/50	319 (50)	101	50/50	322 (50)	102	50/50	302 (50)	96	50/50
10-7	324 (50)	50/50	326 (50)	101	50/50	329 (50)	102	50/50	309 (50)	95	50/50
11-7	330 (50)	50/50	334 (50)	101	50/50	335 (50)	102	50/50	314 (50)	95	50/50
12-7	336 (50)	50/50	341 (50)	101	50/50	342 (50)	102	50/50	321 (50)	96	50/50
13-7	342 (50)	50/50	346 (50)	101	50/50	348 (50)	102	50/50	327 (50)	96	50/50
14-7	348 (50)	50/50	353 (50)	101	50/50	354 (50)	102	50/50	333 (50)	96	50/50
18-7	362 (50)	50/50	368 (50)	102	50/50	370 (50)	102	50/50	347 (50)	96	50/50
22-7	378 (50)	50/50	387 (50)	102	50/50	386 (50)	102	50/50	361 (50)	96	50/50
26-7	393 (50)	50/50	400 (50)	102	50/50	400 (50)	102	50/50	375 (50)	95	50/50
30-7	401 (50)	50/50	410 (50)	102	50/50	412 (50)	103	50/50	385 (50)	96	50/50
34-7	410 (50)	50/50	418 (50)	102	50/50	419 (50)	102	50/50	394 (50)	96	50/50
38-7	419 (50)	50/50	427 (50)	102	50/50	428 (50)	102	50/50	401 (50)	96	50/50
42-7	426 (50)	50/50	434 (50)	102	50/50	437 (50)	103	50/50	407 (50)	96	50/50
46-7	431 (50)	50/50	439 (50)	102	50/50	441 (50)	102	50/50	412 (50)	96	50/50
50-7	437 (50)	50/50	443 (49)	101	49/50	445 (50)	102	50/50	413 (50)	95	50/50
54-7	441 (50)	50/50	448 (49)	102	49/50	451 (50)	102	50/50	416 (50)	94	50/50
58-7	444 (50)	50/50	451 (49)	102	49/50	453 (50)	102	50/50	419 (50)	94	50/50
62-7	447 (50)	50/50	455 (49)	102	49/50	456 (50)	102	50/50	420 (50)	94	50/50
66-7	450 (50)	50/50	456 (49)	101	49/50	456 (50)	101	50/50	422 (50)	94	50/50
70-7	455 (49)	49/50	458 (49)	101	49/50	459 (50)	101	50/50	423 (50)	93	50/50
74-7	459 (49)	49/50	462 (49)	101	49/50	461 (50)	100	50/50	425 (50)	93	50/50
78-7	461 (48)	48/50	461 (48)	100	48/50	461 (50)	100	50/50	423 (49)	92	49/50
82-7	459 (48)	48/50	456 (48)	99	48/50	454 (49)	99	49/50	415 (49)	90	49/50
86-7	454 (47)	47/50	453 (47)	100	47/50	449 (49)	99	49/50	404 (48)	89	48/50
90-7	455 (45)	45/50	449 (47)	99	47/50	443 (49)	97	49/50	397 (48)	87	48/50
94-7	448 (45)	45/50	445 (45)	99	45/50	439 (45)	98	45/50	386 (47)	86	47/50
98-7	434 (44)	44/50	435 (44)	100	44/50	426 (44)	98	43/50	375 (45)	86	45/50
102-7	427 (40)	40/50	424 (43)	99	43/50	418 (42)	98	42/50	363 (43)	85	43/50
104-7	421 (39)	38/50	420 (41)	100	41/50	413 (39)	98	39/50	355 (41)	84	40/50

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL  
NUMBERS : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control		18ppm		90ppm		450ppm				
	Av. Wt. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>	Av. Wt. <50>	% of cont. <50>	No. of Surviv. <50>
0-0	99 (50)	50/50	99 (50)	100	50/50	99 (50)	100	50/50	99 (50)	100	50/50
1-7	115 (50)	50/50	113 (50)	98	50/50	115 (50)	100	50/50	112 (50)	97	50/50
2-7	128 (50)	50/50	129 (50)	101	50/50	131 (50)	102	50/50	126 (50)	98	50/50
3-7	140 (50)	50/50	139 (50)	99	50/50	142 (50)	101	50/50	135 (50)	96	50/50
4-7	148 (50)	50/50	148 (50)	100	50/50	151 (50)	102	50/50	143 (50)	97	50/50
5-7	155 (50)	50/50	155 (50)	100	50/50	157 (50)	101	50/50	148 (50)	95	50/50
6-7	162 (50)	50/50	163 (50)	101	50/50	164 (50)	101	50/50	155 (50)	96	50/50
7-7	167 (50)	50/50	167 (50)	100	50/50	170 (50)	102	50/50	160 (50)	96	50/50
8-7	171 (50)	50/50	171 (50)	100	50/50	174 (50)	102	50/50	164 (50)	96	50/50
9-7	174 (50)	50/50	175 (50)	101	50/50	177 (50)	102	50/50	168 (50)	97	50/50
10-7	179 (50)	50/50	179 (50)	100	50/50	181 (50)	101	50/50	171 (50)	96	50/50
11-7	183 (50)	50/50	183 (50)	100	50/50	186 (50)	102	50/50	174 (50)	95	50/50
12-7	185 (50)	50/50	186 (50)	101	50/50	187 (50)	101	50/50	175 (50)	95	50/50
13-7	187 (50)	50/50	188 (50)	101	50/50	188 (50)	101	50/50	178 (50)	95	50/50
14-7	190 (50)	50/50	191 (50)	101	50/50	191 (50)	101	50/50	181 (50)	95	50/50
18-7	195 (50)	50/50	197 (50)	101	50/50	197 (50)	101	50/50	185 (50)	95	50/50
22-7	201 (50)	50/50	204 (50)	101	50/50	203 (50)	101	50/50	191 (50)	95	50/50
26-7	207 (50)	50/50	208 (50)	100	50/50	209 (50)	101	50/50	198 (50)	96	50/50
30-7	212 (50)	50/50	213 (50)	100	50/50	214 (50)	101	50/50	201 (50)	95	50/50
34-7	216 (49)	49/50	217 (50)	100	50/50	218 (50)	101	50/50	203 (50)	94	50/50
38-7	220 (49)	49/50	221 (50)	100	50/50	222 (50)	101	50/50	206 (50)	94	50/50
42-7	222 (49)	49/50	227 (50)	102	50/50	227 (50)	102	50/50	209 (50)	94	50/50
46-7	227 (49)	49/50	229 (50)	101	50/50	230 (50)	101	50/50	213 (50)	94	50/50
50-7	229 (49)	49/50	233 (50)	102	50/50	233 (50)	102	50/50	213 (50)	93	50/50
54-7	234 (49)	49/50	237 (50)	101	50/50	239 (50)	102	50/50	218 (50)	93	50/50
58-7	237 (49)	49/50	242 (50)	102	50/50	243 (50)	103	50/50	223 (50)	94	50/50
62-7	242 (49)	49/50	248 (50)	102	50/50	249 (50)	103	50/50	226 (50)	93	50/50
66-7	247 (49)	49/50	252 (50)	102	50/50	252 (50)	102	50/50	231 (50)	94	50/50
70-7	252 (49)	49/50	260 (48)	103	48/50	258 (49)	102	49/50	234 (50)	93	50/50
74-7	260 (48)	48/50	270 (48)	104	48/50	267 (49)	103	48/50	240 (50)	92	50/50
78-7	265 (48)	48/50	276 (47)	104	47/50	277 (45)	105	45/50	245 (50)	92	50/50
82-7	268 (47)	47/50	276 (47)	103	47/50	275 (44)	103	44/50	245 (50)	91	49/50
86-7	269 (46)	46/50	277 (46)	103	46/50	276 (44)	103	44/50	247 (49)	92	49/50
90-7	272 (46)	46/50	283 (44)	104	44/50	276 (43)	101	41/50	250 (49)	92	49/50
94-7	272 (46)	46/50	286 (43)	105	43/50	285 (39)	105	39/50	250 (48)	92	48/50
98-7	268 (44)	44/50	287 (40)	107	40/50	285 (38)	106	37/50	248 (46)	93	46/50
102-7	272 (41)	41/50	285 (40)	105	40/50	286 (37)	105	37/50	246 (46)	90	46/50
104-7	269 (41)	41/50	284 (39)	106	39/50	283 (36)	105	36/50	244 (46)	91	45/50

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		2-7		3-7		4-7		5-7		6-7	
	0-0		1-7											
Control	125±	5	159±	7	195±	9	224±	9	247±	9	264±	10	280±	11
18ppm	125±	5	159±	7	195±	8	223±	9	246±	9	263±	10	280±	12
90ppm	125±	5	160±	6	198±	7	226±	8	249±	9	267±	9	284±	10
450ppm	125±	5	154±	6**	191±	8*	217±	9**	237±	9**	253±	9**	269±	9**

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

Test of Dunnett



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		9-7		10-7		11-7		12-7		13-7	
	7-7		8-7											
Control	294±	12	308±	13	316±	14	324±	14	330±	15	336±	16	342±	15
18ppm	294±	12	309±	14	319±	14	326±	14	334±	16	341±	17	346±	17
90ppm	298±	11	312±	12	322±	13	329±	14	335±	15	342±	15	348±	16
450ppm	281±	10**	295±	11**	302±	11**	309±	12**	314±	12**	321±	12**	327±	12**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		22-7	26-7	30-7	34-7	38-7
	14-7	18-7							
Control	348± 17	362± 18	378± 20	393± 21	401± 21	410± 22	419± 23		
18ppm	353± 17	368± 20	387± 21	400± 21	410± 22	418± 22	427± 24		
90ppm	354± 16	370± 17	386± 19	400± 20	412± 22*	419± 22	428± 24		
450ppm	333± 13**	347± 14**	361± 15**	375± 16**	385± 18**	394± 19**	401± 21**		

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		50-7		54-7		58-7		62-7		66-7	
	42-7		46-7											
Control	426±	24	431±	25	437±	26	441±	27	444±	28	447±	28	450±	28
18ppm	434±	24	439±	25	443±	26	448±	26	451±	25	455±	25	456±	25
90ppm	437±	25	441±	25	445±	26	451±	26	453±	25	456±	24	456±	25
450ppm	407±	21**	412±	20**	413±	21**	416±	20**	419±	20**	420±	20**	422±	20**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		78-7	82-7	86-7	90-7	94-7
	70-7	74-7	74-7	78-7					
Control	455± 26	459± 25	461± 26	459± 27	454± 30	455± 26	448± 26		
18ppm	458± 24	462± 23	461± 22	456± 24	453± 25	449± 27	445± 28		
90ppm	459± 25	461± 25	461± 25	454± 27	449± 26	443± 30	439± 25		
450ppm	423± 20**	425± 21**	423± 19**	415± 22**	404± 21**	397± 20**	386± 23**		

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day		102-7		104-7	
	98-7					
Control	434±	32	427±	34	421±	27
18ppm	435±	31	424±	33	420±	34
90ppm	426±	34	418±	32	413±	27
450ppm	375±	24**	363±	30**	355±	34**

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

Test of Dunnett

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		2-7		3-7		4-7		5-7		6-7	
	0-0		1-7											
Control	99±	3	115±	4	128±	4	140±	5	148±	5	155±	6	162±	7
18ppm	99±	3	113±	5	129±	5	139±	6	148±	7	155±	8	163±	9
90ppm	99±	3	115±	4	131±	5**	142±	5	151±	7*	157±	7	164±	8
450ppm	99±	3	112±	4**	126±	5	135±	6**	143±	8**	148±	9**	155±	10**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		9-7	10-7	11-7	12-7	13-7
	7-7	8-7	8-7	9-7					
Control	167± 7	171± 8	174± 8	179± 8	183± 8	185± 8	187± 7		
18ppm	167± 9	171± 10	175± 9	179± 10	183± 10	186± 9	188± 10		
90ppm	170± 9	174± 10	177± 10	181± 11	186± 11	187± 11	188± 11		
450ppm	160± 10**	164± 12*	168± 12*	171± 12**	174± 12**	175± 12**	178± 12**		

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

Test of Dunnett



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		22-7	26-7	30-7	34-7	38-7
	14-7	18-7							
Control	190± 8	195± 10	201± 11	207± 10	212± 11	216± 11	220± 12		
18ppm	191± 11	197± 11	204± 12	208± 12	213± 13	217± 13	221± 13		
90ppm	191± 11	197± 12	203± 12	209± 13	214± 13	218± 16	222± 16		
450ppm	181± 12**	185± 12**	191± 13**	198± 14**	201± 13**	203± 15**	206± 14**		

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		50-7		54-7		58-7		62-7		66-7	
	42-7		46-7											
Control	222±	13	227±	14	229±	14	234±	15	237±	17	242±	19	247±	21
18ppm	227±	14	229±	13	233±	15	237±	15	242±	17	248±	19	252±	21
90ppm	227±	17	230±	17	233±	18	239±	18	243±	19	249±	21	252±	23
450ppm	209±	14**	213±	15**	213±	15**	218±	16**	223±	18**	226±	18**	231±	20**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		78-7		82-7		86-7		90-7		94-7	
	70-7		74-7											
Control	252±	22	260±	24	265±	25	268±	25	269±	26	272±	28	272±	28
18ppm	260±	20	270±	20	276±	21	276±	24	277±	29	283±	22	286±	24*
90ppm	258±	23	267±	26	277±	33	275±	25	276±	26	276±	33	285±	30
450ppm	234±	20**	240±	22**	245±	21**	245±	22**	247±	21**	250±	22**	250±	22**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day		102-7		104-7	
	98-7					
Control	268±	27	272±	30	269±	31
18ppm	287±	24**	285±	26	284±	26*
90ppm	285±	34*	286±	36	283±	42
450ppm	248±	22**	246±	25**	244±	25**

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

Test of Dunnett

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS : MALE

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

Week-Day on Study	Control		18ppm		90ppm		450ppm				
	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	16.4 (50)	50/50	16.2 (50)	99	50/50	16.1 (50)	98	50/50	15.5 (50)	95	50/50
2-7	18.1 (50)	50/50	18.3 (50)	101	50/50	18.5 (50)	102	50/50	17.4 (50)	96	50/50
3-7	18.8 (50)	50/50	18.5 (50)	98	50/50	18.9 (50)	101	50/50	18.0 (50)	96	50/50
4-7	19.1 (50)	50/50	18.6 (50)	97	50/50	18.9 (50)	99	50/50	17.8 (50)	93	50/50
5-7	18.4 (50)	50/50	18.6 (50)	101	50/50	18.7 (50)	102	50/50	17.7 (50)	96	50/50
6-7	18.4 (50)	50/50	18.5 (50)	101	50/50	18.5 (50)	101	50/50	17.8 (50)	97	50/50
7-7	18.3 (50)	50/50	18.2 (50)	99	50/50	18.2 (50)	99	50/50	17.5 (50)	96	50/50
8-7	18.4 (50)	50/50	18.6 (50)	101	50/50	18.5 (50)	101	50/50	17.3 (50)	94	50/50
9-7	18.2 (50)	50/50	18.2 (50)	100	50/50	18.1 (50)	99	50/50	17.0 (50)	93	50/50
10-7	17.7 (50)	50/50	17.9 (50)	101	50/50	17.6 (50)	99	50/50	16.6 (50)	94	50/50
11-7	17.0 (50)	50/50	17.4 (50)	102	50/50	17.1 (50)	101	50/50	16.4 (50)	96	50/50
12-7	17.2 (50)	50/50	17.3 (50)	101	50/50	17.0 (50)	99	50/50	16.3 (50)	95	50/50
13-7	16.8 (50)	50/50	17.1 (50)	102	50/50	17.0 (50)	101	50/50	16.3 (50)	97	50/50
14-7	16.7 (50)	50/50	17.1 (50)	102	50/50	16.8 (50)	101	50/50	16.3 (50)	98	50/50
18-7	16.5 (50)	50/50	17.0 (50)	103	50/50	17.0 (50)	103	50/50	16.3 (50)	99	50/50
22-7	17.0 (50)	50/50	17.3 (50)	102	50/50	17.0 (50)	100	50/50	16.4 (50)	96	50/50
26-7	17.1 (50)	50/50	17.4 (50)	102	50/50	17.4 (50)	102	50/50	16.7 (50)	98	50/50
30-7	16.6 (50)	50/50	16.8 (50)	101	50/50	16.8 (50)	101	50/50	16.2 (50)	98	50/50
34-7	16.8 (50)	50/50	17.0 (50)	101	50/50	17.3 (50)	103	50/50	16.7 (50)	99	50/50
38-7	17.2 (50)	50/50	17.2 (50)	100	50/50	17.5 (50)	102	50/50	16.7 (50)	97	50/50
42-7	17.1 (50)	50/50	17.2 (50)	101	50/50	17.5 (50)	102	50/50	16.5 (50)	96	50/50
46-7	17.1 (50)	50/50	17.1 (50)	100	50/50	17.4 (50)	102	50/50	16.9 (50)	99	50/50
50-7	17.5 (50)	50/50	17.3 (49)	99	49/50	17.4 (50)	99	50/50	16.7 (50)	95	50/50
54-7	17.3 (50)	50/50	17.3 (49)	100	49/50	17.5 (50)	101	50/50	16.8 (50)	97	50/50
58-7	17.2 (50)	50/50	17.2 (49)	100	49/50	17.5 (50)	102	50/50	17.0 (50)	99	50/50
62-7	17.1 (50)	50/50	17.3 (49)	101	49/50	17.5 (50)	102	50/50	16.7 (50)	98	50/50
66-7	17.4 (50)	50/50	17.5 (49)	101	49/50	17.7 (50)	102	50/50	17.1 (50)	98	50/50
70-7	17.9 (49)	49/50	17.7 (49)	99	49/50	18.0 (50)	101	50/50	17.2 (50)	96	50/50
74-7	17.5 (49)	49/50	17.3 (49)	99	49/50	17.4 (50)	99	50/50	16.8 (50)	96	50/50
78-7	17.4 (48)	48/50	16.8 (49)	97	48/50	17.6 (50)	101	50/50	16.6 (49)	95	49/50
82-7	17.1 (48)	48/50	16.6 (47)	97	48/50	16.9 (50)	99	49/50	15.9 (49)	93	49/50
86-7	17.0 (47)	47/50	17.0 (47)	100	47/50	17.6 (49)	104	49/50	16.2 (48)	95	48/50
90-7	17.3 (45)	45/50	17.1 (47)	99	47/50	17.3 (49)	100	49/50	16.3 (48)	94	48/50
94-7	16.6 (45)	45/50	16.9 (45)	102	45/50	17.0 (46)	102	45/50	15.3 (48)	92	47/50
98-7	17.7 (44)	44/50	17.3 (44)	98	44/50	17.0 (45)	96	43/50	16.6 (45)	94	45/50
102-7	17.3 (40)	40/50	16.3 (43)	94	43/50	16.9 (42)	98	42/50	16.2 (44)	94	43/50
104-7	16.7 (40)	38/50	16.3 (42)	98	41/50	16.2 (40)	97	39/50	15.8 (41)	95	40/50

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS : FEMALE

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

Week-Day on Study	Control		18ppm		90ppm		450ppm				
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	12.1 (50)	50/50	12.4 (50)	102	50/50	12.1 (50)	100	50/50	11.3 (50)	93	50/50
2-7	12.5 (50)	50/50	12.7 (50)	102	50/50	12.6 (50)	101	50/50	12.0 (50)	96	50/50
3-7	12.2 (50)	50/50	12.2 (50)	100	50/50	12.4 (50)	102	50/50	11.6 (50)	95	50/50
4-7	12.1 (50)	50/50	12.1 (50)	100	50/50	12.2 (50)	101	50/50	11.3 (50)	93	50/50
5-7	12.0 (50)	50/50	12.1 (50)	101	50/50	12.2 (50)	102	50/50	11.3 (50)	94	50/50
6-7	12.2 (50)	50/50	12.1 (50)	99	50/50	12.2 (50)	100	50/50	11.3 (50)	93	50/50
7-7	11.7 (50)	50/50	11.8 (50)	101	50/50	11.7 (50)	100	50/50	11.1 (50)	95	50/50
8-7	11.5 (50)	50/50	11.3 (50)	98	50/50	11.5 (50)	100	50/50	11.3 (50)	98	50/50
9-7	11.5 (50)	50/50	11.4 (50)	99	50/50	11.1 (50)	97	50/50	11.0 (50)	96	50/50
10-7	11.6 (50)	50/50	11.6 (50)	100	50/50	11.6 (50)	100	50/50	11.2 (50)	97	50/50
11-7	11.6 (50)	50/50	11.6 (50)	100	50/50	11.6 (50)	100	50/50	11.3 (50)	97	50/50
12-7	11.5 (50)	50/50	11.7 (50)	102	50/50	11.4 (50)	99	50/50	11.2 (50)	97	50/50
13-7	11.4 (50)	50/50	11.5 (50)	101	50/50	11.1 (50)	97	50/50	11.0 (50)	96	50/50
14-7	11.4 (50)	50/50	11.4 (50)	100	50/50	11.2 (50)	98	50/50	11.1 (50)	97	50/50
18-7	11.0 (50)	50/50	11.4 (50)	104	50/50	11.3 (49)	103	50/50	11.4 (50)	104	50/50
22-7	11.1 (50)	50/50	11.4 (50)	103	50/50	11.2 (50)	101	50/50	11.3 (50)	102	50/50
26-7	11.3 (50)	50/50	11.3 (50)	100	50/50	11.5 (50)	102	50/50	11.6 (50)	103	50/50
30-7	11.2 (50)	50/50	11.5 (50)	103	50/50	11.3 (50)	101	50/50	11.3 (50)	101	50/50
34-7	11.4 (49)	49/50	11.3 (50)	99	50/50	11.5 (50)	101	50/50	11.6 (50)	102	50/50
38-7	11.6 (49)	49/50	11.4 (50)	98	50/50	11.4 (50)	98	50/50	11.3 (50)	97	50/50
42-7	11.2 (49)	49/50	11.6 (50)	104	50/50	11.7 (50)	104	50/50	11.3 (50)	101	50/50
46-7	11.6 (49)	49/50	11.2 (50)	97	50/50	11.6 (50)	100	50/50	11.9 (50)	103	50/50
50-7	11.7 (49)	49/50	11.7 (50)	100	50/50	11.7 (50)	100	50/50	11.8 (50)	101	50/50
54-7	12.0 (49)	49/50	11.7 (50)	98	50/50	11.9 (50)	99	50/50	11.4 (50)	95	50/50
58-7	11.9 (49)	49/50	11.9 (50)	100	50/50	12.1 (50)	102	50/50	11.6 (50)	97	50/50
62-7	12.1 (49)	49/50	12.2 (50)	101	50/50	12.4 (50)	102	50/50	11.7 (50)	97	50/50
66-7	12.2 (49)	49/50	12.1 (50)	99	50/50	12.2 (50)	100	50/50	12.1 (50)	99	50/50
70-7	12.4 (49)	49/50	12.8 (48)	103	48/50	12.6 (49)	102	49/50	12.2 (50)	98	50/50
74-7	12.3 (48)	48/50	12.7 (48)	103	48/50	12.6 (49)	102	48/50	12.2 (50)	99	50/50
78-7	12.3 (48)	48/50	12.9 (47)	105	47/50	12.6 (46)	102	45/50	12.2 (50)	99	50/50
82-7	11.7 (48)	47/50	12.0 (47)	103	47/50	12.5 (44)	107	44/50	12.1 (50)	103	49/50
86-7	12.4 (46)	46/50	12.5 (47)	101	46/50	12.8 (44)	103	44/50	12.2 (49)	98	49/50
90-7	12.5 (46)	46/50	12.3 (45)	98	44/50	12.1 (44)	97	41/50	11.8 (49)	94	49/50
94-7	12.1 (46)	46/50	12.8 (43)	106	43/50	12.8 (40)	106	39/50	12.2 (48)	101	48/50
98-7	12.4 (45)	44/50	13.0 (40)	105	40/50	12.7 (38)	102	37/50	12.3 (47)	99	46/50
102-7	12.3 (42)	41/50	12.5 (40)	102	40/50	12.9 (37)	105	37/50	12.4 (46)	101	46/50
104-7	12.3 (41)	41/50	12.4 (39)	101	39/50	12.5 (36)	102	36/50	12.2 (46)	99	45/50

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



TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)					
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)	
Control	16.4± 1.3	18.1± 1.3	18.8± 1.1	19.1± 1.5	18.4± 1.4	18.4± 1.2	18.3± 1.2	
18ppm	16.2± 1.2	18.3± 1.7	18.5± 1.4	18.6± 1.6	18.6± 1.5	18.5± 1.3	18.2± 1.3	
90ppm	16.1± 1.1	18.5± 1.7	18.9± 1.5	18.9± 1.4	18.7± 1.3	18.5± 1.2	18.2± 1.3	
450ppm	15.5± 0.8**	17.4± 1.1*	18.0± 1.1**	17.8± 1.1**	17.7± 1.0*	17.8± 0.9*	17.5± 0.9**	

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)											
	8-7(7)		9-7(7)		10-7(7)		11-7(7)		12-7(7)		13-7(7)		14-7(7)	
Control	18.4±	1.2	18.2±	1.0	17.7±	1.0	17.0±	1.0	17.2±	1.1	16.8±	0.9	16.7±	1.1
18ppm	18.6±	1.3	18.2±	1.2	17.9±	1.3	17.4±	1.3	17.3±	1.2	17.1±	1.1	17.1±	1.1
90ppm	18.5±	1.3	18.1±	1.1	17.6±	1.1	17.1±	1.0	17.0±	1.0	17.0±	1.0	16.8±	0.9
450ppm	17.3±	0.8**	17.0±	0.9**	16.6±	0.9**	16.4±	0.8**	16.3±	0.8**	16.3±	0.8*	16.3±	0.9

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)				
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	16.5± 1.0	17.0± 1.1	17.1± 1.0	16.6± 1.0	16.8± 0.8	17.2± 0.9	17.1± 1.0
18ppm	17.0± 1.3	17.3± 1.1	17.4± 1.2	16.8± 1.1	17.0± 1.0	17.2± 1.0	17.2± 0.9
90ppm	17.0± 0.9	17.0± 1.0	17.4± 1.0	16.8± 0.9	17.3± 1.1*	17.5± 1.2	17.5± 1.1
450ppm	16.3± 1.0	16.4± 0.9*	16.7± 0.9	16.2± 1.1	16.7± 1.1	16.7± 1.0*	16.5± 1.4

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)					
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)	
Control	17.1± 1.1	17.5± 1.0	17.3± 1.1	17.2± 1.0	17.1± 1.0	17.4± 1.0	17.9± 1.0	
18ppm	17.1± 0.9	17.3± 1.1	17.3± 0.9	17.2± 0.9	17.3± 0.9	17.5± 0.9	17.7± 1.1	
90ppm	17.4± 1.1	17.4± 1.0	17.5± 0.9	17.5± 1.0	17.5± 1.0	17.7± 1.0	18.0± 1.0	
450ppm	16.9± 0.9	16.7± 1.0**	16.8± 0.9**	17.0± 0.9	16.7± 1.0	17.1± 0.9	17.2± 0.9**	

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)					
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)	
Control	17.5± 1.0	17.4± 1.0	17.1± 1.2	17.0± 1.9	17.3± 1.5	16.6± 1.6	17.7± 1.7	
18ppm	17.3± 0.9	16.8± 2.5	16.6± 1.2	17.0± 1.3	17.1± 1.0	16.9± 1.2	17.3± 0.9	
90ppm	17.4± 1.1	17.6± 1.0	16.9± 1.9	17.6± 1.1	17.3± 1.4	17.0± 1.7	17.0± 3.4	
450ppm	16.8± 1.0**	16.6± 1.2**	15.9± 1.5**	16.2± 1.1**	16.3± 1.8**	15.3± 2.4**	16.6± 1.8**	

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

Test of Dunnett

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

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Group Name	Administration 102-7(7)	week-day(effective) 104-7(7)
Control	17.3± 1.8	16.7± 3.1
18ppm	16.3± 1.7*	16.3± 2.9
90ppm	16.9± 2.6	16.2± 2.8
450ppm	16.2± 3.2**	15.8± 3.8

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

Test of Dunnett

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	12.1± 0.7	12.5± 0.9	12.2± 0.7	12.1± 0.8	12.0± 0.8	12.2± 0.9	11.7± 0.9
18ppm	12.4± 0.9	12.7± 1.0	12.2± 0.8	12.1± 0.9	12.1± 1.0	12.1± 0.9	11.8± 0.9
90ppm	12.1± 0.7	12.6± 0.8	12.4± 0.9	12.2± 1.0	12.2± 1.0	12.2± 0.8	11.7± 0.9
450ppm	11.3± 0.7**	12.0± 0.8**	11.6± 1.3**	11.3± 1.2**	11.3± 1.2**	11.3± 1.1**	11.1± 1.0**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)				
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	11.5± 0.8	11.5± 0.9	11.6± 0.9	11.6± 1.0	11.5± 0.6	11.4± 0.6	11.4± 1.1
18ppm	11.3± 0.9	11.4± 0.8	11.6± 0.8	11.6± 0.7	11.7± 0.7	11.5± 0.8	11.4± 0.8
90ppm	11.5± 1.0	11.1± 1.0	11.6± 0.9	11.6± 1.0	11.4± 0.7	11.1± 0.8	11.2± 0.9
450ppm	11.3± 1.1	11.0± 1.1	11.2± 1.3*	11.3± 1.3	11.2± 1.2	11.0± 1.4**	11.1± 1.1

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)				
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	11.0± 0.8	11.1± 0.8	11.3± 0.9	11.2± 1.0	11.4± 1.1	11.6± 0.9	11.2± 0.7
18ppm	11.4± 0.9	11.4± 1.0	11.3± 0.8	11.5± 1.1	11.3± 0.9	11.4± 0.7	11.6± 0.9
90ppm	11.3± 1.0	11.2± 0.8	11.5± 1.0	11.3± 0.9	11.5± 1.2	11.4± 0.9	11.7± 0.9*
450ppm	11.4± 1.4	11.3± 1.5	11.6± 1.3	11.3± 1.2	11.6± 1.6	11.3± 1.2	11.3± 1.2

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)				
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	11.6± 0.9	11.7± 0.9	12.0± 0.8	11.9± 1.0	12.1± 1.0	12.2± 1.0	12.4± 1.1
18ppm	11.2± 0.7	11.7± 0.9	11.7± 0.9	11.9± 0.9	12.2± 1.1	12.1± 1.8	12.8± 1.1
90ppm	11.6± 0.9	11.7± 0.9	11.9± 1.0	12.1± 1.1	12.4± 1.0	12.2± 1.5	12.6± 1.1
450ppm	11.9± 1.6	11.8± 1.4	11.4± 1.2**	11.6± 1.2	11.7± 1.3	12.1± 1.4	12.2± 1.4

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day (effective)					
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)	
Control	12.3± 1.2	12.3± 1.0	11.7± 1.9	12.4± 1.3	12.5± 1.2	12.1± 1.2	12.4± 1.5	
18ppm	12.7± 1.1	12.9± 1.0*	12.0± 1.1	12.5± 1.2	12.3± 2.0	12.8± 1.0**	13.0± 1.1	
90ppm	12.6± 1.3	12.6± 2.3	12.5± 1.0*	12.8± 1.1	12.1± 2.5	12.8± 1.8*	12.7± 2.4	
450ppm	12.2± 1.6	12.2± 1.1	12.1± 1.4	12.2± 1.5	11.8± 1.2*	12.2± 1.3	12.3± 1.6	

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

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

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Group Name	Administration 102-7(7)	week-day(effective) 104-7(7)
Control	12.3± 2.0	12.3± 1.4
18ppm	12.5± 1.1	12.4± 1.2
90ppm	12.9± 2.1	12.5± 2.2
450ppm	12.4± 1.1	12.2± 1.5

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

Test of Dunnett

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 <sup>9</sup> /μl	
Control	38	7.73±	1.92	12.5±	3.2	38.3±	8.2	50.6±	6.0	16.2±	1.6	32.2±	2.1	1091±	419
18ppm	41	7.82±	1.63	12.6±	2.9	38.5±	7.7	49.5±	3.3	16.1±	1.4	32.5±	1.6	1049±	258
90ppm	39	7.55±	1.77	12.1±	2.8	37.0±	7.3	49.7±	4.5	16.1±	1.5	32.4±	1.8	1032±	319
450ppm	39	8.05±	1.58	12.4±	2.4	38.1±	6.5	47.7±	3.0**	15.5±	0.9**	32.4±	1.8	1154±	330

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

Test of Dunnett



STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 2

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Group Name	NO. of Animals	RETICULOCYTE %	
Control	38	7.1±	7.6
18ppm	41	5.2±	3.4
90ppm	39	6.4±	5.6
450ppm	39	5.2±	5.3

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		$10^9/\mu\ell$		NEUTRO		LYMPHO									
Control	38	7.13±	6.93	48±	12	43±	12	4±	1	2±	1	0±	0	3±	2
18ppm	41	5.71±	2.96	49±	11	43±	12	4±	1	1±	1	0±	0	2±	1
90ppm	39	6.81±	3.81	47±	11	45±	11	4±	1	1±	1	0±	0	2±	1
450ppm	39	6.18±	2.38	50±	12	42±	12	5±	1	1±	1	0±	0	2±	1

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 <sup>9</sup> /μl	
Control	41	8.16±	0.97	14.6±	1.5	42.4±	3.7	52.5±	5.2	18.1±	1.6	34.4±	1.0	668±	120
18ppm	39	8.07±	1.31	14.5±	2.0	41.8±	5.3	52.9±	7.2	18.2±	1.8	34.4±	1.0	644±	130
90ppm	36	8.26±	1.17	14.5±	2.2	42.4±	5.5	51.5±	2.9	17.5±	0.9**	34.0±	1.0	686±	174
450ppm	45	8.35±	1.00	13.8±	1.7	40.6±	4.6	48.8±	2.2**	16.5±	0.8**	33.8±	0.9**	803±	174**

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

Test of Dunnett

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 5

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Group Name	NO. of Animals	RETICULOCYTE %	
Control	41	3.0 ± 2.4	
18ppm	39	3.3 ± 3.3	
90ppm	36	3.4 ± 2.5	
450ppm	45	2.9 ± 1.0**	

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		10 <sup>9</sup> /μl		NEUTRO		LYMPHO									
Control	41	9.45±	40.37	43±	13	48±	14	4±	1	2±	1	0±	0	4±	15
18ppm	39	5.74±	16.65	43±	12	50±	12	4±	1	2±	1	0±	1	2±	2
90ppm	36	4.25±	3.55	43±	13	47±	14	4±	1	2±	1	0±	0	4±	14
450ppm	45	7.06±	19.24*	41±	13	50±	15	4±	2	1±	1**	0±	0	4±	14

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	38	6.6±	0.3	2.7±	0.3	0.7±	0.1	0.16±	0.25	151±	18	175±	61	132±	154
18ppm	41	6.7±	0.4	2.8±	0.2	0.7±	0.1	0.13±	0.03	151±	22	186±	48	111±	62
90ppm	39	6.8±	0.4	2.7±	0.2	0.7±	0.1	0.19±	0.19**	148±	25	253±	72**	190±	112**
450ppm	39	6.3±	0.4*	2.5±	0.2**	0.6±	0.1*	0.14±	0.05	140±	23	350±	134**	398±	304**

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

Test of Dunnett



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 MEASURE. TIME : 1  
 SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	38	257±	91	108±	189	38±	19	195±	447	347±	110	6±	3	115±	110
18ppm	41	268±	55	94±	54	41±	24	121±	48	329±	94	8±	4	105±	38
90ppm	39	351±	93**	99±	73	44±	31	137±	134	376±	153	17±	10**	122±	99
450ppm	39	469±	174**	102±	84	43±	30	122±	57	339±	160	38±	57**	101±	26

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ		CREATININE mg/dℓ		SODIUM mEq/ℓ		POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
Control	38	19.5±	3.2	0.6±	0.1	143±	1	3.8±	0.3	106±	2	10.4±	0.3	4.1±	0.6
18ppm	41	18.0±	2.7	0.6±	0.1	144±	2	3.7±	0.4	107±	2	10.5±	0.3	4.0±	0.7
90ppm	39	24.1±	12.8*	0.7±	0.3**	143±	2	3.8±	0.3	106±	2	10.9±	0.5**	4.7±	1.8
450ppm	39	30.2±	16.8**	0.9±	0.4**	141±	2**	3.7±	0.4	105±	3**	11.1±	0.7**	4.9±	1.5**

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

Test of Dunnett

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	41	6.9±	0.4	3.5±	0.4	1.0±	0.1	0.12±	0.05	143±	18	152±	62	65±	83
18ppm	39	7.0±	0.4	3.5±	0.3	1.0±	0.1	0.16±	0.23	142±	20	157±	35	91±	80*
90ppm	36	6.8±	0.7	3.3±	0.4*	1.0±	0.1**	0.13±	0.05*	144±	16	182±	81**	104±	135**
450ppm	45	7.0±	0.4	3.3±	0.3**	0.9±	0.1**	0.15±	0.05**	136±	17	260±	112**	119±	141**

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

Test of Dunnett

STUDY NO. : 0753

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	41	263±	70	157±	128	67±	36	142±	94	223±	108	3±	2	93±	52
18ppm	39	282±	88	165±	183	69±	61	157±	143	237±	156	3±	2	93±	32
90ppm	36	306±	124*	153±	112	60±	21	191±	252	248±	138	4±	3**	117±	141
450ppm	45	403±	159**	170±	177	73±	58	183±	345	231±	100	6±	4**	98±	53

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ		CREATININE mg/dℓ		SODIUM mEq/ℓ		POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
Control	41	18.0±	5.9	0.6±	0.1	143±	1	3.4±	0.4	105±	3	10.6±	0.4	3.8±	1.0
18ppm	39	16.8±	2.8	0.6±	0.1	142±	2	3.4±	0.4	105±	2	10.6±	0.3	3.7±	0.6
90ppm	36	19.4±	11.9	0.6±	0.1	142±	2	3.5±	0.7	105±	3	10.9±	1.8	4.1±	1.2
450ppm	45	17.8±	2.5	0.6±	0.1	142±	2	3.5±	0.4	104±	3	10.9±	0.4**	4.2±	0.8*

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

Test of Dunnett

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Bilirubin				CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		+	2+
Control	40	0	1	3	2	8	13	13		0	0	1	1	27	11		40	0	0	0	0	0		26	13	1	0	0	0		40	0	0	0
18ppm	42	0	2	5	6	8	16	5		0	0	1	7	28	6		42	0	0	0	0	0		30	11	0	1	0	0		42	0	0	0
90ppm	40	0	2	6	4	12	9	7		0	0	0	2	22	16		40	0	0	0	0	0		32	7	1	0	0	0		39	0	1	0
450ppm	41	0	5	3	5	10	13	5		0	0	0	0	28	13		41	0	0	0	0	0		36	5	0	0	0	0	*	41	0	0	0

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

Test of CHI SQUARE



STUDY NO. : 0753

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

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Group Name	NO. of Animals	Occult blood					Urobilinogen						
		-	±	+	2+	3+	CHI	±	+	2+	3+	4+	CHI
Control	40	38	0	1	1	0		40	0	0	0	0	
18ppm	42	38	2	0	0	2		42	0	0	0	0	
90ppm	40	37	0	2	0	1		39	0	1	0	0	
450ppm	41	39	1	0	0	1		41	0	0	0	0	

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

\*\* :  $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Bilirubin				CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		+	2+
Control	41	0	1	3	4	6	5	22		0	7	12	12	10	0		41	0	0	0	0	0		35	4	2	0	0	0		41	0	0	0
18ppm	40	0	1	4	3	10	4	18		3	4	4	13	16	0		40	0	0	0	0	0		27	8	4	1	0	0		39	1	0	0
90ppm	36	0	1	1	6	6	5	17		1	4	7	10	14	0		36	0	0	0	0	0		27	5	4	0	0	0		36	0	0	0
450ppm	46	0	0	1	3	2	4	36		1	2	4	12	25	2	**	46	0	0	0	0	0		33	5	7	1	0	0		46	0	0	0

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

Test of CHI SQUARE

STUDY NO. : 0753

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

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Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	41	41	0	0	0	0		41	0	0	0	0	
18ppm	40	39	0	0	0	1		40	0	0	0	0	
90ppm	36	35	0	0	1	0		36	0	0	0	0	
450ppm	46	45	0	0	1	0		46	0	0	0	0	

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

\*\* :  $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE I 1

GROSS FINDINGS : MALE

ALL ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		5	( 10)	2	( 4)	2	( 4)	3	( 6)
subcutis	jaundice		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	mass		17	( 34)	6	( 12)	10	( 20)	7	( 14)
lung	white zone		2	( 4)	4	( 8)	5	( 10)	4	( 8)
	red zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		1	( 2)	0	( 0)	1	( 2)	1	( 2)
	adhesion		0	( 0)	0	( 0)	0	( 0)	1	( 2)
lymph node	enlarged		4	( 8)	2	( 4)	0	( 0)	0	( 0)
thymus	enlarged		1	( 2)	0	( 0)	0	( 0)	0	( 0)
spleen	enlarged		6	( 12)	4	( 8)	7	( 14)	2	( 4)
	white zone		1	( 2)	0	( 0)	2	( 4)	0	( 0)
	nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	deformed		0	( 0)	1	( 2)	2	( 4)	0	( 0)
heart	white zone		1	( 2)	1	( 2)	1	( 2)	1	( 2)
	hypertrophy		1	( 2)	0	( 0)	0	( 0)	0	( 0)
artery/aort	induration		0	( 0)	0	( 0)	0	( 0)	1	( 2)
oral cavity	nodule		0	( 0)	1	( 2)	1	( 2)	0	( 0)
salivary gl	nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	cyst		0	( 0)	0	( 0)	1	( 2)	0	( 0)
stomach	nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	gas		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	forestomach:ulcer		0	( 0)	1	( 2)	0	( 0)	0	( 0)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrIcrlj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
stomach	forestomach:erosion		0	( 0)	0	( 0)	0	( 0)	2	( 4)
	glandular stomach:ulcer		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	glandular stomach:nodule		3	( 6)	0	( 0)	0	( 0)	0	( 0)
	glandular stomach:thick		0	( 0)	0	( 0)	1	( 2)	1	( 2)
small intes	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	gas		1	( 2)	0	( 0)	0	( 0)	0	( 0)
large intes	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	gas		1	( 2)	0	( 0)	0	( 0)	0	( 0)
liver	white zone		0	( 0)	1	( 2)	2	( 4)	2	( 4)
	red zone		1	( 2)	0	( 0)	1	( 2)	1	( 2)
	nodule		1	( 2)	0	( 0)	1	( 2)	8	( 16)
	cyst		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	rough		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	herniation		4	( 8)	6	( 12)	2	( 4)	7	( 14)
kidney	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	cyst		0	( 0)	0	( 0)	0	( 0)	2	( 4)
	granular		3	( 6)	0	( 0)	13	( 26)	22	( 44)
	hydronephrosis		1	( 2)	0	( 0)	0	( 0)	0	( 0)
urin bladd	urine:marked retention		2	( 4)	0	( 0)	0	( 0)	0	( 0)
	urine:red		1	( 2)	1	( 2)	0	( 0)	0	( 0)
pituitary	enlarged		3	( 6)	4	( 8)	6	( 12)	2	( 4)
	red zone		0	( 0)	1	( 2)	1	( 2)	2	( 4)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
pituitary	nodule		4	( 8)	4	( 8)	4	( 8)	4	( 8)
thyroid	enlarged		1	( 2)	3	( 6)	1	( 2)	1	( 2)
	nodule		0	( 0)	5	( 10)	2	( 4)	1	( 2)
adrenal	enlarged		2	( 4)	1	( 2)	0	( 0)	1	( 2)
testis	nodule		37	( 74)	40	( 80)	37	( 74)	38	( 76)
prostate	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
brain	red zone		1	( 2)	2	( 4)	0	( 0)	1	( 2)
spinal cord	red zone		0	( 0)	1	( 2)	0	( 0)	0	( 0)
eye	turbid		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	white		3	( 6)	1	( 2)	7	( 14)	9	( 18)
bone	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
pleura	nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	adhesion		0	( 0)	0	( 0)	1	( 2)	0	( 0)
peritoneum	white zone		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	nodule		2	( 4)	1	( 2)	0	( 0)	0	( 0)
	thick		0	( 0)	1	( 2)	0	( 0)	0	( 0)
abdominal c	ascites		3	( 6)	2	( 4)	0	( 0)	0	( 0)
thoracic ca	hemorrhage		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	pleural fluid		3	( 6)	2	( 4)	2	( 4)	1	( 2)
other	lip:nodule		0	( 0)	0	( 0)	0	( 0)	2	( 4)
	ear:nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	hindlimb:nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)



STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

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Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
other	lower jaw:nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	nose:nodule		2	( 4)	0	( 0)	1	( 2)	0	( 0)
whole body	anemic		1	( 2)	0	( 0)	1	( 2)	0	( 0)

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TABLE I 2

GROSS FINDINGS : MALE  
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCr j]  
REPORT TYPE : A1  
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			12	(%)	9	(%)	11	(%)	10	(%)
skin/app	nodule		2	( 17)	0	( 0)	1	( 9)	0	( 0)
subcutis	jaundice		0	( 0)	0	( 0)	1	( 9)	0	( 0)
	mass		4	( 33)	1	( 11)	2	( 18)	1	( 10)
lung	white zone		1	( 8)	0	( 0)	1	( 9)	1	( 10)
	red zone		1	( 8)	0	( 0)	0	( 0)	0	( 0)
	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 10)
lymph node	enlarged		2	( 17)	2	( 22)	0	( 0)	0	( 0)
spleen	enlarged		2	( 17)	4	( 44)	4	( 36)	1	( 10)
	white zone		0	( 0)	0	( 0)	1	( 9)	0	( 0)
	nodule		0	( 0)	0	( 0)	1	( 9)	0	( 0)
heart	hypertrophy		1	( 8)	0	( 0)	0	( 0)	0	( 0)
artery/aort	induration		0	( 0)	0	( 0)	0	( 0)	1	( 10)
oral cavity	nodule		0	( 0)	0	( 0)	1	( 9)	0	( 0)
stomach	gas		1	( 8)	0	( 0)	0	( 0)	0	( 0)
	forestomach:ulcer		0	( 0)	1	( 11)	0	( 0)	0	( 0)
	forestomach:erosion		0	( 0)	0	( 0)	0	( 0)	1	( 10)
	glandular stomach:ulcer		0	( 0)	1	( 11)	0	( 0)	0	( 0)
	glandular stomach:thick		0	( 0)	0	( 0)	1	( 9)	0	( 0)
small intes	gas		1	( 8)	0	( 0)	0	( 0)	0	( 0)
large intes	gas		1	( 8)	0	( 0)	0	( 0)	0	( 0)
liver	white zone		0	( 0)	0	( 0)	1	( 9)	1	( 10)
	red zone		1	( 8)	0	( 0)	1	( 9)	0	( 0)

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			12	(%)	9	(%)	11	(%)	10	(%)
liver	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 10)
	herniation		1	( 8)	0	( 0)	1	( 9)	2	( 20)
kidney	cyst		0	( 0)	0	( 0)	0	( 0)	2	( 20)
	granular		2	( 17)	0	( 0)	5	( 45)	5	( 50)
	hydronephrosis		1	( 8)	0	( 0)	0	( 0)	0	( 0)
urin bladd	urine:marked retention		2	( 17)	0	( 0)	0	( 0)	0	( 0)
	urine:red		1	( 8)	1	( 11)	0	( 0)	0	( 0)
pituitary	enlarged		2	( 17)	1	( 11)	3	( 27)	1	( 10)
	nodule		0	( 0)	1	( 11)	1	( 9)	1	( 10)
testis	nodule		6	( 50)	4	( 44)	5	( 45)	5	( 50)
brain	red zone		0	( 0)	2	( 22)	0	( 0)	1	( 10)
spinal cord	red zone		0	( 0)	1	( 11)	0	( 0)	0	( 0)
eye	turbid		0	( 0)	0	( 0)	0	( 0)	1	( 10)
	white		0	( 0)	0	( 0)	1	( 9)	5	( 50)
pleura	nodule		0	( 0)	0	( 0)	1	( 9)	0	( 0)
	adhesion		0	( 0)	0	( 0)	1	( 9)	0	( 0)
peritoneum	nodule		1	( 8)	1	( 11)	0	( 0)	0	( 0)
	thick		0	( 0)	1	( 11)	0	( 0)	0	( 0)
abdominal c	ascites		1	( 8)	2	( 22)	0	( 0)	0	( 0)
thoracic ca	hemorrhage		0	( 0)	0	( 0)	1	( 9)	0	( 0)
	pleural fluid		1	( 8)	1	( 11)	2	( 18)	1	( 10)
other	hindlimb:nodule		1	( 8)	0	( 0)	0	( 0)	0	( 0)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : MALE

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

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Organ	Findings	Group Name NO. of Animals	Control 12 (%)	18ppm 9 (%)	90ppm 11 (%)	450ppm 10 (%)
other	lower jaw:nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
whole body	anemic		1 ( 8)	0 ( 0)	1 ( 9)	0 ( 0)

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TABLE I 3

GROSS FINDINGS : MALE  
SACRIFICED ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

GROSS FINDINGS (SUMMARY)  
SACRIFICED ANIMALS (105W)

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			38	(%)	41	(%)	39	(%)	40	(%)
skin/app	nodule		3	( 8)	2	( 5)	1	( 3)	3	( 8)
subcutis	mass		13	( 34)	5	( 12)	8	( 21)	6	( 15)
lung	white zone		1	( 3)	4	( 10)	4	( 10)	3	( 8)
	nodule		1	( 3)	0	( 0)	1	( 3)	0	( 0)
	adhesion		0	( 0)	0	( 0)	0	( 0)	1	( 3)
lymph node	enlarged		2	( 5)	0	( 0)	0	( 0)	0	( 0)
thymus	enlarged		1	( 3)	0	( 0)	0	( 0)	0	( 0)
spleen	enlarged		4	( 11)	0	( 0)	3	( 8)	1	( 3)
	white zone		1	( 3)	0	( 0)	1	( 3)	0	( 0)
	deformed		0	( 0)	1	( 2)	2	( 5)	0	( 0)
heart	white zone		1	( 3)	1	( 2)	1	( 3)	1	( 3)
oral cavity	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
salivary gl	nodule		0	( 0)	0	( 0)	1	( 3)	0	( 0)
	cyst		0	( 0)	0	( 0)	1	( 3)	0	( 0)
stomach	nodule		1	( 3)	0	( 0)	0	( 0)	0	( 0)
	forestomach:erosion		0	( 0)	0	( 0)	0	( 0)	1	( 3)
	glandular stomach:nodule		3	( 8)	0	( 0)	0	( 0)	0	( 0)
	glandular stomach:thick		0	( 0)	0	( 0)	0	( 0)	1	( 3)
small intes	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 3)
large intes	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 3)
liver	white zone		0	( 0)	1	( 2)	1	( 3)	1	( 3)
	red zone		0	( 0)	0	( 0)	0	( 0)	1	( 3)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : MALE

GROSS FINDINGS (SUMMARY)  
SACRIFICED ANIMALS (105W)

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			38	(%)	41	(%)	39	(%)	40	(%)
liver	nodule		1	( 3)	0	( 0)	1	( 3)	7	( 18)
	cyst		0	( 0)	0	( 0)	1	( 3)	0	( 0)
	rough		1	( 3)	0	( 0)	0	( 0)	0	( 0)
	herniation		3	( 8)	6	( 15)	1	( 3)	5	( 13)
kidney	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 3)
	granular		1	( 3)	0	( 0)	8	( 21)	17	( 43)
pituitary	enlarged		1	( 3)	3	( 7)	3	( 8)	1	( 3)
	red zone		0	( 0)	1	( 2)	1	( 3)	2	( 5)
	nodule		4	( 11)	3	( 7)	3	( 8)	3	( 8)
thyroid	enlarged		1	( 3)	3	( 7)	1	( 3)	1	( 3)
	nodule		0	( 0)	5	( 12)	2	( 5)	1	( 3)
adrenal	enlarged		2	( 5)	1	( 2)	0	( 0)	1	( 3)
testis	nodule		31	( 82)	36	( 88)	32	( 82)	33	( 83)
prostate	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 3)
brain	red zone		1	( 3)	0	( 0)	0	( 0)	0	( 0)
eye	white		3	( 8)	1	( 2)	6	( 15)	4	( 10)
bone	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
peritoneum	white zone		0	( 0)	0	( 0)	0	( 0)	1	( 3)
	nodule		1	( 3)	0	( 0)	0	( 0)	0	( 0)
abdominal c	ascites		2	( 5)	0	( 0)	0	( 0)	0	( 0)
thoracic ca	pleural fluid		2	( 5)	1	( 2)	0	( 0)	0	( 0)
other	lip:nodule		0	( 0)	0	( 0)	0	( 0)	2	( 5)



STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : MALE

GROSS FINDINGS (SUMMARY)  
SACRIFICED ANIMALS (105W)

PAGE : 3

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Organ	Findings	Group Name NO. of Animals	38	Control (%)	41	18ppm (%)	39	90ppm (%)	40	450ppm (%)
other	ear:nodule		0	( 0)	0	( 0)	1	( 3)	0	( 0)
	nose:nodule		2	( 5)	0	( 0)	1	( 3)	0	( 0)

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(HPT080)

BAIS 5

TABLE I 4

GROSS FINDINGS : FEMALE

ALL ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	hemorrhage		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	nodule		0	( 0)	2	( 4)	1	( 2)	0	( 0)
	scab		0	( 0)	1	( 2)	0	( 0)	0	( 0)
subcutis	edema		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	jaundice		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	mass		6	( 12)	13	( 26)	10	( 20)	8	( 16)
lung	white zone		0	( 0)	0	( 0)	1	( 2)	3	( 6)
	red zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		0	( 0)	1	( 2)	2	( 4)	0	( 0)
lymph node	enlarged		0	( 0)	1	( 2)	3	( 6)	0	( 0)
spleen	enlarged		2	( 4)	7	( 14)	5	( 10)	2	( 4)
	white zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
heart	red zone		0	( 0)	0	( 0)	0	( 0)	1	( 2)
tongue	nodule		0	( 0)	1	( 2)	0	( 0)	1	( 2)
stomach	gas		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	forestomach:ulcer		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	forestomach:black zone		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	glandular stomach:nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	glandular stomach:black zone		0	( 0)	1	( 2)	0	( 0)	0	( 0)
small intes	nodule		0	( 0)	0	( 0)	1	( 2)	1	( 2)
	gas		0	( 0)	1	( 2)	0	( 0)	0	( 0)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
large intes	gas		0	( 0)	1	( 2)	0	( 0)	0	( 0)
liver	white zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		1	( 2)	0	( 0)	2	( 4)	2	( 4)
	rough		0	( 0)	2	( 4)	1	( 2)	1	( 2)
	herniation		7	( 14)	3	( 6)	9	( 18)	7	( 14)
pancreas	nodule		0	( 0)	0	( 0)	1	( 2)	1	( 2)
kidney	nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	granular		0	( 0)	0	( 0)	0	( 0)	2	( 4)
	hydronephrosis		0	( 0)	2	( 4)	0	( 0)	0	( 0)
urin bladd	red zone		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	urine:marked retention		1	( 2)	1	( 2)	2	( 4)	1	( 2)
pituitary	enlarged		6	( 12)	4	( 8)	7	( 14)	9	( 18)
	red zone		6	( 12)	4	( 8)	11	( 22)	7	( 14)
	black zone		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	nodule		4	( 8)	6	( 12)	5	( 10)	3	( 6)
thyroid	enlarged		1	( 2)	2	( 4)	0	( 0)	3	( 6)
	nodule		2	( 4)	0	( 0)	1	( 2)	1	( 2)
adrenal	enlarged		4	( 8)	1	( 2)	0	( 0)	2	( 4)
ovary	enlarged		0	( 0)	0	( 0)	1	( 2)	0	( 0)
	cyst		1	( 2)	0	( 0)	0	( 0)	1	( 2)
uterus	nodule		5	( 10)	4	( 8)	2	( 4)	4	( 8)
	dilated lumen		0	( 0)	0	( 0)	1	( 2)	0	( 0)

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
vagina	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
brain	red zone		0	( 0)	1	( 2)	1	( 2)	0	( 0)
spinal cord	red zone		0	( 0)	0	( 0)	2	( 4)	0	( 0)
	deformed		0	( 0)	0	( 0)	1	( 2)	0	( 0)
eye	white		5	( 10)	2	( 4)	1	( 2)	0	( 0)
muscle	nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)
bone	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
mediastinum	mass		0	( 0)	0	( 0)	1	( 2)	0	( 0)
peritoneum	nodule		1	( 2)	0	( 0)	1	( 2)	0	( 0)
	thick		0	( 0)	1	( 2)	1	( 2)	0	( 0)
retroperit	nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	mass		0	( 0)	1	( 2)	0	( 0)	0	( 0)
abdominal c	hemorrhage		1	( 2)	1	( 2)	0	( 0)	0	( 0)
	ascites		0	( 0)	0	( 0)	1	( 2)	1	( 2)
thoracic ca	pleural fluid		0	( 0)	2	( 4)	1	( 2)	0	( 0)
other	lip:nodule		0	( 0)	1	( 2)	0	( 0)	0	( 0)
	ear:nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
whole body	anemic		0	( 0)	1	( 2)	0	( 0)	0	( 0)

TABLE I 5

GROSS FINDINGS : FEMALE  
DEAD AND MORIBUND ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control			
			9 (%)	11 (%)	18ppm (%)	90ppm (%)
skin/app	hemorrhage		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
	nodule		0 ( 0)	1 ( 9)	1 ( 7)	0 ( 0)
subcutis	edema		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
	jaundice		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
	mass		2 ( 22)	7 ( 64)	4 ( 29)	0 ( 0)
lung	red zone		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	1 ( 9)	1 ( 7)	0 ( 0)
lymph node	enlarged		0 ( 0)	1 ( 9)	2 ( 14)	0 ( 0)
spleen	enlarged		1 ( 11)	4 ( 36)	5 ( 36)	0 ( 0)
heart	red zone		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)
tongue	nodule		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
stomach	gas		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
	forestomach:ulcer		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
	forestomach:black zone		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
	glandular stomach:black zone		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
small intes	gas		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
large intes	gas		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
liver	rough		0 ( 0)	1 ( 9)	1 ( 7)	0 ( 0)
	herniation		1 ( 11)	0 ( 0)	2 ( 14)	0 ( 0)
kidney	nodule		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
	granular		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)
	hydronephrosis		0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control			
			9 (%)	11 (%)	18ppm (%)	90ppm (%)
urin bladd	red zone		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
	urine:marked retention		1 ( 11)	1 ( 9)	2 ( 14)	1 ( 20)
pituitary	enlarged		2 ( 22)	1 ( 9)	4 ( 29)	3 ( 60)
	red zone		1 ( 11)	1 ( 9)	2 ( 14)	0 ( 0)
	black zone		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
	nodule		1 ( 11)	0 ( 0)	1 ( 7)	0 ( 0)
thyroid	nodule		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
adrenal	enlarged		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
ovary	cyst		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
uterus	nodule		1 ( 11)	3 ( 27)	0 ( 0)	1 ( 20)
	dilated lumen		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
vagina	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)
brain	red zone		0 ( 0)	1 ( 9)	1 ( 7)	0 ( 0)
spinal cord	red zone		0 ( 0)	0 ( 0)	2 ( 14)	0 ( 0)
	deformed		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
eye	white		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
muscle	nodule		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
bone	nodule		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
mediastinum	mass		0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)
peritoneum	nodule		1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
	thick		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
retroperit	nodule		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	Control 9 (%)	18ppm 11 (%)	90ppm 14 (%)	450ppm 5 (%)
retroperit	mass		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)
abdominal c	hemorrhage		1 ( 11)	1 ( 9)	0 ( 0)	0 ( 0)
	ascites		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)
thoracic ca	pleural fluid		0 ( 0)	2 ( 18)	1 ( 7)	0 ( 0)
whole body	anemic		0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)

TABLE I 6

GROSS FINDINGS : FEMALE  
SACRIFICED ANIMALS

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCr j]  
REPORT TYPE : A1  
SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
SACRIFICED ANIMALS (105W)

Organ	Findings	Group Name NO. of Animals	Control		18ppm		90ppm		450ppm	
			41	(%)	39	(%)	36	(%)	45	(%)
skin/app	nodule		0	( 0)	1	( 3)	0	( 0)	0	( 0)
	scab		0	( 0)	1	( 3)	0	( 0)	0	( 0)
subcutis	mass		4	( 10)	6	( 15)	6	( 17)	8	( 18)
lung	white zone		0	( 0)	0	( 0)	1	( 3)	3	( 7)
	nodule		0	( 0)	0	( 0)	1	( 3)	0	( 0)
lymph node	enlarged		0	( 0)	0	( 0)	1	( 3)	0	( 0)
spleen	enlarged		1	( 2)	3	( 8)	0	( 0)	2	( 4)
	white zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		0	( 0)	0	( 0)	1	( 3)	0	( 0)
tongue	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 2)
stomach	glandular stomach:nodule		0	( 0)	0	( 0)	1	( 3)	0	( 0)
small intes	nodule		0	( 0)	0	( 0)	1	( 3)	1	( 2)
liver	white zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	nodule		1	( 2)	0	( 0)	2	( 6)	2	( 4)
	rough		0	( 0)	1	( 3)	0	( 0)	1	( 2)
	herniation		6	( 15)	3	( 8)	7	( 19)	7	( 16)
pancreas	nodule		0	( 0)	0	( 0)	1	( 3)	1	( 2)
kidney	granular		0	( 0)	0	( 0)	0	( 0)	1	( 2)
pituitary	enlarged		4	( 10)	3	( 8)	3	( 8)	6	( 13)
	red zone		5	( 12)	3	( 8)	9	( 25)	7	( 16)
	nodule		3	( 7)	6	( 15)	4	( 11)	3	( 7)
thyroid	enlarged		1	( 2)	2	( 5)	0	( 0)	3	( 7)

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

Organ	Findings	Group Name NO. of Animals	Control 41 (%)	18ppm 39 (%)	90ppm 36 (%)	450ppm 45 (%)
thyroid	nodule		1 ( 2)	0 ( 0)	1 ( 3)	1 ( 2)
adrenal	enlarged		3 ( 7)	1 ( 3)	0 ( 0)	2 ( 4)
ovary	enlarged		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
	cyst		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
uterus	nodule		4 ( 10)	1 ( 3)	2 ( 6)	3 ( 7)
eye	white		4 ( 10)	2 ( 5)	1 ( 3)	0 ( 0)
peritoneum	nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
	thick		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
abdominal c	ascites		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)
other	lip:nodule		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
	ear:nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE  
 UNIT: g

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

Group Name	NO. of Animals	Body Weight		ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	38	397±	27	0.096±	0.073	3.366±	1.306	1.271±	0.134	1.456±	0.200	2.878±	0.356
18ppm	41	396±	34	0.085±	0.037	3.602±	1.319	1.246±	0.101	1.422±	0.116	2.830±	0.226
90ppm	39	385±	29	0.078±	0.015	3.385±	1.314	1.238±	0.127	1.491±	0.147	3.000±	0.356
450ppm	39	332±	31**	0.075±	0.042**	2.734±	1.083	1.169±	0.147**	1.387±	0.142	3.091±	0.656

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

Test of Dunnett

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE  
UNIT: g

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

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Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	38	1.260±	0.938	11.595±	1.688	2.092±	0.039
18ppm	41	1.017±	0.222	11.298±	1.086	2.104±	0.049
90ppm	39	1.539±	1.609	12.774±	1.880**	2.108±	0.058
450ppm	39	1.031±	0.405	12.783±	2.449**	2.080±	0.041

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

Test of Dunnett

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT: g

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

Group Name	NO. of Animals	Body Weight		ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	41	252 ±	29	0.091 ±	0.064	0.117 ±	0.019	0.839 ±	0.080	0.970 ±	0.164	1.801 ±	0.155
18ppm	39	267 ±	26*	0.102 ±	0.182	0.119 ±	0.015	0.838 ±	0.067	0.982 ±	0.149	1.814 ±	0.134
90ppm	36	264 ±	42	0.081 ±	0.041	0.212 ±	0.578	0.857 ±	0.074	0.995 ±	0.094	1.845 ±	0.180
450ppm	45	228 ±	25**	0.120 ±	0.345**	0.110 ±	0.020	0.792 ±	0.054**	0.972 ±	0.110	1.814 ±	0.162

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT: g

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

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	41	0.673 ±	0.724	6.411 ±	0.965	1.899 ±	0.050
18ppm	39	1.117 ±	2.063	6.996 ±	1.428	1.893 ±	0.042
90ppm	36	0.660 ±	0.263	7.314 ±	1.399**	1.927 ±	0.068
450ppm	45	0.641 ±	0.445	7.352 ±	1.340**	1.871 ±	0.051*

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

Test of Dunnett

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE  
 UNIT : %

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

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	38	397± 27	0.024± 0.017	0.847± 0.318	0.322± 0.044	0.368± 0.057	0.726± 0.091
18ppm	41	396± 34	0.022± 0.010	0.914± 0.333	0.318± 0.041	0.363± 0.049	0.723± 0.110
90ppm	39	385± 29	0.020± 0.004	0.875± 0.328	0.322± 0.032	0.389± 0.050	0.786± 0.139*
450ppm	39	332± 31**	0.023± 0.016	0.829± 0.339	0.355± 0.055**	0.420± 0.046**	0.946± 0.266**

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

Test of Dunnett

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE  
UNIT : %

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

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	38	0.318 ± 0.241	2.923 ± 0.408	0.529 ± 0.037
18ppm	41	0.261 ± 0.075	2.864 ± 0.236	0.536 ± 0.054
90ppm	39	0.403 ± 0.423*	3.326 ± 0.479**	0.550 ± 0.037*
450ppm	39	0.309 ± 0.113*	3.867 ± 0.715**	0.632 ± 0.060**

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

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT : %

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

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	41	252 ± 29	0.036 ± 0.025	0.046 ± 0.006	0.336 ± 0.044	0.393 ± 0.116	0.723 ± 0.098
18ppm	39	267 ± 26*	0.041 ± 0.081*	0.045 ± 0.006	0.316 ± 0.031	0.371 ± 0.065	0.687 ± 0.099
90ppm	36	264 ± 42	0.032 ± 0.020	0.086 ± 0.248	0.329 ± 0.036	0.382 ± 0.043	0.709 ± 0.089
450ppm	45	228 ± 25**	0.050 ± 0.130**	0.048 ± 0.008	0.352 ± 0.041	0.434 ± 0.089**	0.804 ± 0.099**

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

Test of Dunnett

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT : %

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

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	41	0.274 ± 0.298	2.566 ± 0.462	0.764 ± 0.096
18ppm	39	0.425 ± 0.793	2.638 ± 0.567	0.717 ± 0.075
90ppm	36	0.252 ± 0.098	2.783 ± 0.388**	0.744 ± 0.096
450ppm	45	0.293 ± 0.252*	3.257 ± 0.686**	0.832 ± 0.099**

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



TABLE L1

HISTOPATHOLOGICAL FINDINGS :  
NON-NEOPLASTIC LESIONS : MALE  
ALL ANIMALS

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																	
skin/app																	
	inflammation	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	scab	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)
	epidermal cyst	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Respiratory system]																	
nasal cavit																	
	thrombus	<50>				<50>				<50>				<50>			
		0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	exudate:neutrophil leukocyte	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)
	eosinophilic change:olfactory epithelium	24	15	2	0	29	12	2	0	35	8	0	0	28	5	0	0 *
		( 48)	( 30)	( 4)	( 0)	( 58)	( 24)	( 4)	( 0)	( 70)	( 16)	( 0)	( 0)	( 56)	( 10)	( 0)	( 0)
	eosinophilic change:respiratory epithelium	8	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		( 16)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm							
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study							
		Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+
			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	18	3	0	0	18	5	0	0	20	8	1	0	13	2	0	0	13	2	0	0
		( 36)	( 6)	( 0)	( 0)	( 36)	( 10)	( 0)	( 0)	( 40)	( 16)	( 2)	( 0)	( 26)	( 4)	( 0)	( 0)	( 26)	( 4)	( 0)	( 0)
	inflammation:respiratory epithelium	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)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	respiratory metaplasia:olfactory epithelium	7	0	0	0	5	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0
		( 14)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland	4	0	0	0	4	0	0	0	3	0	0	0	6	0	0	0	6	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)
	inflammation:transitional epithelium	1	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	1	2	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)
	squamous cell metaplasia:transitional epithelium	4	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	atrophy:olfactory epithelium	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)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
	atrophy:respiratory epithelium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasopharynx	inflammation:foreign body	<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
larynx	inflammation	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammation:foreign body	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
lung	congestion	<50>				<50>				<50>				<50>			
		1	0	0	0	1	2	0	0	0	2	0	0	0	4	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)
	hemorrhage	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)
	edema	0	0	0	0	1	0	0	0	0	2	0	0	0	3	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)
	inflammatory infiltration	1	0	0	0	1	1	0	0	1	2	0	0	1	1	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 2)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung	granulomatous inflammation	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	squamous cell metaplasia	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)
	accumulation of foamy cells	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)	1 ( 2)	0 ( 0)	0 ( 0)
	bronchiolar-alveolar cell hyperplasia	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)
	thickening:alveolar wall	0 ( 0)	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)
[Hematopoietic system]																	
bone marrow	granulation	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	increased hematopoiesis	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 10)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
lymph node	lymphadenitis	<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)
spleen	congestion	<50>				<50>				<50>				<50>			
		5	0	0	0	6	0	0	0	5	0	0	0	4	0	0	0
		( 10)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)
	deposit of hemosiderin	11	2	0	0	15	0	0	0	10	2	0	0	13	3	0	0
		( 22)	( 4)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)	( 20)	( 4)	( 0)	( 0)	( 26)	( 6)	( 0)	( 0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fibrosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fibrosis:focal	1	0	0	0	1	1	0	0	1	2	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	extramedullary hematopoiesis	10	3	1	0	8	3	0	0	7	2	0	0	2	4	0	0
		( 20)	( 6)	( 2)	( 0)	( 16)	( 6)	( 0)	( 0)	( 14)	( 4)	( 0)	( 0)	( 4)	( 8)	( 0)	( 0)
{Circulatory system}																	
heart	dilatation	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm							
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study							
		Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																					
heart	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>				<50>				<50>				<50>							
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myocardial fibrosis	24	0	0	0	32	0	0	0	17	0	0	0	23	0	0	0	0	0	0	0
		(48)	(0)	(0)	(0)	(64)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	subendocardial fibrosis	1	1	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
		(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>				<50>				<50>				<50>							
[Digestive system]																					
tongue	arteritis	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)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>				<50>				<50>				<50>							

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name															
		Control				18ppm				90ppm				450ppm			
		50				50				50				50			
No. of Animals on Study	Grade				Grade				Grade				Grade				
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
salivary gl	cyst	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
stomach	mineralization	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)
	inflammatory infiltration	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	ulcer:forestomach	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)
	hyperplasia:forestomach	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	erosion:glandular stomach	2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	ulcer:glandular stomach	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)
	hyperplasia:glandular stomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
small intes	fibrosis	<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)
large intes	inflammatory infiltration	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
liver	herniation	<50>				<50>				<50>				<50>			
		4	0	0	0	6	0	0	0	2	0	0	0	8	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 16)	( 0)	( 0)	( 0)
	necrosis:central	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	necrosis:focal	0	0	0	0	0	1	0	0	0	1	0	0	4	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 8)	( 2)	( 0)	( 0)
	necrosis:single cell	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fatty change	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 4)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm						
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study						
		Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																				
liver																				
		<50>				<50>				<50>				<50>						
	fatty change:central	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fatty change:peripheral	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation	7	1	0	0	9	0	0	0	12	2	0	0	7	0	0	0	0	0	0
		( 14)	( 2)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 24)	( 4)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	clear cell focus	3	0	0	0	5	2	0	0	2	0	0	0	7	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 10)	( 4)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	acidophilic cell focus	12	1	0	0	12	1	0	0	10	0	0	0	26	3	0	0	0	0	**
		( 24)	( 2)	( 0)	( 0)	( 24)	( 2)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 52)	( 6)	( 0)	( 0)	( 0)	( 0)	( 0)
	basophilic cell focus	13	2	0	0	9	1	0	0	10	1	0	0	13	0	0	0	0	0	0
		( 26)	( 4)	( 0)	( 0)	( 18)	( 2)	( 0)	( 0)	( 20)	( 2)	( 0)	( 0)	( 26)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	mixed cell focus	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)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver																	
	spongiosis hepatitis	4 ( 8)	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)
	bile duct hyperplasia	7 ( 14)	42 ( 84)	0 ( 0)	0 ( 0)	6 ( 12)	44 ( 88)	0 ( 0)	0 ( 0)	10 ( 20)	40 ( 80)	0 ( 0)	0 ( 0)	27 ( 54)	21 ( 42)	0 ( 0)	0 ( 0) **
	bile ductular proliferation	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)
	biliary cyst	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	1 ( 2)	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)	10 ( 20)	0 ( 0)	0 ( 0)	0 ( 0) *	25 ( 50)	0 ( 0)	0 ( 0)	0 ( 0) **
	deposit of brown pigment	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	9 ( 18)	0 ( 0)	0 ( 0)	0 ( 0) *
pancreas																	
	atrophy	10 ( 20)	1 ( 2)	0 ( 0)	0 ( 0)	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	15 ( 30)	1 ( 2)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	arteritis	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control				18ppm				90ppm				450ppm			
			50				50				50				50			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
pancreas	islet cell hyperplasia		<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)
{Urinary system}																		
kidney	cyst		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0 *
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 2)	( 0)	( 0)
	inflammatory infiltration		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	lymphocytic infiltration		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	scar		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)
	chronic nephropathy		18	16	12	1	16	28	5	0	2	17	27	2 **	2	5	34	9 **
			( 36)	( 32)	( 24)	( 2)	( 32)	( 56)	( 10)	( 0)	( 4)	( 34)	( 54)	( 4)	( 4)	( 10)	( 68)	( 18)
	tubular necrosis		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)

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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		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>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	dilatation:tubular lumen	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)
	urothelial hyperplasia:pelvis	2	0	0	0	0	0	0	0	7	0	0	0	20	2	0	0 **
		( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 40)	( 4)	( 0)	( 0)
	atypical tubule hyperplasia	1	0	0	0	0	0	0	0	1	0	0	0	4	1	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 8)	( 2)	( 0)	( 0)
	dilated pelvis	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)
	deposit of brown pigment:proximal tubule	2	0	0	0	3	0	0	0	8	1	0	0	16	0	0	0 **
		( 4)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 16)	( 2)	( 0)	( 0)	( 32)	( 0)	( 0)	( 0)
urin bladd																	
	dilatation	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hemorrhage	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)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary																	
	angiectasis	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	cyst	2 ( 4)	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)
	hyperplasia	9 ( 18)	3 ( 6)	0 ( 0)	0 ( 0)	12 ( 24)	4 ( 8)	0 ( 0)	0 ( 0)	12 ( 24)	4 ( 8)	0 ( 0)	0 ( 0)	10 ( 20)	2 ( 4)	0 ( 0)	0 ( 0)
	Rathke pouch	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
thyroid																	
	follicular 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)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	C-cell hyperplasia	5 ( 10)	2 ( 4)	0 ( 0)	0 ( 0)	9 ( 18)	3 ( 6)	0 ( 0)	0 ( 0)	6 ( 12)	3 ( 6)	0 ( 0)	0 ( 0)	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)
	cystic thyroid follicle	0 ( 0)	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)
parathyroid																	
	hyperplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
adrenal																	
	peliosis-like lesion	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:cortical cell	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:medulla	6 ( 12)	2 ( 4)	0 ( 0)	0 ( 0)	3 ( 6)	3 ( 6)	0 ( 0)	0 ( 0)	5 ( 10)	1 ( 2)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	focal fatty change:cortex	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
[Reproductive system]																	
testis																	
	mineralization	3 ( 6)	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)
	arteritis	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	1 ( 2)	0 ( 0)	0 ( 0)
	interstitial cell hyperplasia	14 ( 28)	0 ( 0)	0 ( 0)	0 ( 0)	13 ( 26)	0 ( 0)	0 ( 0)	0 ( 0)	11 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	16 ( 32)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																	
prostate	inflammation	<50>				<50>				<50>				<50>			
		4	0	0	0	4	1	0	0	4	0	0	0	7	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 8)	( 2)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)
	hyperplasia	9	2	0	0	4	0	0	0	4	1	0	0	6	0	0	0
		( 18)	( 4)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 8)	( 2)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)
mammary gl	galactocele	<50>				<50>				<50>				<50>			
		1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
{Nervous system}																	
brain	hemorrhage	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
{Special sense organs/appendage}																	
eye	cataract	<50>				<50>				<50>				<50>			
		1	1	1	0	1	1	0	0	2	4	2	0	2	4	2	0
		( 2)	( 2)	( 2)	( 0)	( 2)	( 2)	( 0)	( 0)	( 4)	( 8)	( 4)	( 0)	( 4)	( 8)	( 4)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																	
eye		<50>				<50>				<50>				<50>			
	retinal atrophy	0	2	1	0	1	0	1	0	3	2	3	0	1	1	3	0
		( 0 )	( 4 )	( 2 )	( 0 )	( 2 )	( 0 )	( 2 )	( 0 )	( 6 )	( 4 )	( 6 )	( 0 )	( 2 )	( 2 )	( 6 )	( 0 )
	keratitis	2	0	0	0	1	0	0	0	4	1	0	0	3	2	1	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 8 )	( 2 )	( 0 )	( 0 )	( 6 )	( 4 )	( 2 )	( 0 )
	iritis	2	0	0	0	0	0	0	0	4	0	0	0	6	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )
	mineralization:cornea	0	0	0	0	1	0	0	0	1	0	0	0	3	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
Harder gl		<50>				<50>				<50>				<50>			
	cyst	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 )
	lymphocytic infiltration	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )
nasolacr d		<50>				<50>				<50>				<50>			
	inflammation	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 )

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				18ppm 50				90ppm 50				450ppm 50			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Musculoskeletal system}																		
muscle	atrophy		<50>				<50>				<50>				<50>			
			1 ( 2)	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)
{Body cavities}																		
mediastinum	arteritis		<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)	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 ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

TABLE L2

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 12				18ppm 9				90ppm 11				450ppm 10				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Integumentary system/appandage]																		
skin/app	inflammation	<12>				< 9>				<11>				<10>				
		0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	epidermal cyst	0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
[Respiratory system]																		
nasal cavit	thrombus	<12>				< 9>				<11>				<10>				
		0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
	exudate:neutrophil leukocyte	0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	eosinophilic change:olfactory epithelium	3 ( 25)	1 ( 8)	0 ( 0)	0 ( 0)	4 ( 44)	1 ( 11)	0 ( 0)	0 ( 0)	5 ( 45)	2 ( 18)	0 ( 0)	0 ( 0)	5 ( 50)	0 ( 0)	0 ( 0)	0 ( 0)	
	eosinophilic change:respiratory epithelium	1 ( 8)	0 ( 0)	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)	
	inflammation:foreign body	2 ( 17)	2 ( 17)	0 ( 0)	0 ( 0)	3 ( 33)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 36)	2 ( 18)	0 ( 0)	0 ( 0)	2 ( 20)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit																	
	respiratory metaplasia:olfactory epithelium	<12>				< 9>				<11>				<10>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammation:transitional epithelium	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 10)	( 10)	( 0)	( 0)
	squamous cell metaplasia:transitional epithelium	0	0	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)
larynx																	
	metastasis:subcutis tumor	<12>				< 9>				<11>				<10>			
		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)	( 10)	( 0)	( 0)	( 0)
lung																	
	congestion	<12>				< 9>				<11>				<10>			
		1	0	0	0	1	2	0	0	0	2	0	0	0	3	0	0
		( 8)	( 0)	( 0)	( 0)	( 11)	( 22)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)
	edema	0	0	0	0	1	0	0	0	0	2	0	0	0	2	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 20)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 12				18ppm 9				90ppm 11				450ppm 10			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																	
lung	inflammatory infiltration	<12>				< 9>				<11>				<10>			
		1	0	0	0	1	0	0	0	0	2	0	0	0	1	0	0
		( 8)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)
	leukemic cell infiltration	2	0	0	0	3	0	0	0	1	1	0	0	0	0	0	0
		( 17)	( 0)	( 0)	( 0)	( 33)	( 0)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:subcutis tumor	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	metastasis:bone tumor	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Hematopoietic system]																	
bone marrow	granulation	<12>				< 9>				<11>				<10>			
		0	0	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)
	leukemic cell infiltration	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	increased hematopoiesis	3	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		( 25)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																	
lymph node																	
	leukemic cell infiltration	<12>				< 9>				<11>				<10>			
		1	1	0	0	2	1	0	0	1	0	0	0	0	0	0	0
		( 8)	( 8)	( 0)	( 0)	( 22)	( 11)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	lymphadenitis	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)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
spleen																	
	deposit of hemosiderin	<12>				< 9>				<11>				<10>			
		3	2	0	0	3	0	0	0	0	2	0	0	4	1	0	0
		( 25)	( 17)	( 0)	( 0)	( 33)	( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 40)	( 10)	( 0)	( 0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fibrosis	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)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:subcutis tumor	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	extramedullary hematopoiesis	3	2	1	0	2	0	0	0	2	2	0	0	0	3	0	0
		( 25)	( 17)	( 8)	( 0)	( 22)	( 0)	( 0)	( 0)	( 18)	( 18)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)
{Circulatory system}																	
heart																	
	dilatation	<12>				< 9>				<11>				<10>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		12				9				11				10			
Group Name		No. of Animals on Study				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]																	
heart	mineralization	<12>				< 9>				<11>				<10>			
		0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
	inflammatory infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	myocardial fibrosis	6	0	0	0	4	0	0	0	4	0	0	0	3	0	0	0
		( 50)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 36)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
artery/aort	mineralization	<12>				< 9>				<11>				<10>			
		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
[Digestive system]																	
tongue	arteritis	<12>				< 9>				<11>				<10>			
		0	0	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)
salivary gl	metastasis:subcutis tumor	<12>				< 9>				<11>				<10>			
		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)	( 10)	( 0)	( 0)	( 0)

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



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Digestive system]																		
stomach																		
		<12>				< 9>				<11>				<10>				
mineralization		0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)
ulcer:forestomach		0	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0	
		( 0)	( 8)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	
hyperplasia:forestomach		2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		( 17)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	
erosion:glandular stomach		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	
liver																		
		<12>				< 9>				<11>				<10>				
herniation		1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	
necrosis:central		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	
necrosis:focal		0	0	0	0	0	1	0	0	0	1	0	0	2	1	0	0	
		( 0)	( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 20)	( 10)	( 0)	( 0)	
fatty change		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		( 8)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		12				9				11				10			
Group Name		No. of Animals on Study				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver																	
	inflammatory infiltration	<12>				< 9 >				<11>				<10>			
		0	0	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)
	granulation	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	leukemic cell infiltration	2	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0
		( 17)	( 0)	( 0)	( 0)	( 33)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:subcutis tumor	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)
	clear cell focus	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)	( 20)	( 0)	( 0)	( 0)
	acidophilic cell focus	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
	basophilic cell focus	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 27)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	spongiosis hepatitis	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)	( 20)	( 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. : 0753  
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 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		12				9				11				10			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver																	
	bile duct hyperplasia	<12>				< 9>				<11>				<10>			
		5	6	0	0	2	7	0	0	3	8	0	0	5	5	0	0
		( 42)	( 50)	( 0)	( 0)	( 22)	( 78)	( 0)	( 0)	( 27)	( 73)	( 0)	( 0)	( 50)	( 50)	( 0)	( 0)
	bile ductular proliferation	0	0	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)
	focal fatty change	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
	deposit of brown pigment	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)	( 10)	( 0)	( 0)	( 0)
pancreas																	
	atrophy	<12>				< 9>				<11>				<10>			
		0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 27)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	leukemic cell infiltration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:spleen tumor	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Urinary system]																	
kidney																	
	cyst	<12>				< 9>				<11>				<10>			
		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)	( 20)	( 10)	( 0)	( 0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
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 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		12				9				11				10			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney																	
	inflammatory infiltration	<12>				< 9 >				<11>				<10>			
		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)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	leukemic cell infiltration	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	chronic nephropathy	6	1	1	1	6	1	2	0	1	4	4	1	1	2	3	4 *
		( 50)	( 8)	( 8)	( 8)	( 67)	( 11)	( 22)	( 0)	( 9)	( 36)	( 36)	( 9)	( 10)	( 20)	( 30)	( 40)
	tubular necrosis	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)	( 9)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)
	dilatation:tubular lumen	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	urothelial hyperplasia:pelvis	1	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
	atypical tubule hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	dilated pelvis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe  
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 DEAD AND MORIBUND ANIMALS (0-105W)

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				9				11				10			
		Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	deposit of brown pigment:proximal tubule	<12>				< 9>				<11>				<10>			
		0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 18)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
urin bladd	dilatation	<12>				< 9>				<11>				<10>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hemorrhage	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Endocrine system]																	
pituitary	angiectasis	<12>				< 9>				<11>				<10>			
		0	0	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)
	cyst	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)	( 10)	( 0)	( 0)	( 0)
	hyperplasia	1	1	0	0	2	0	0	0	1	1	0	0	1	1	0	0
		( 8)	( 8)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 10)	( 10)	( 0)	( 0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe  
 < a > a : Number of animals examined at the site  
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

Organ	Findings	Control				18ppm				90ppm				450ppm			
		12				9				11				10			
Group Name		No. of Animals on Study				Grade				Grade				Grade			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
thyroid	C-cell hyperplasia	<12>				< 9>				<11>				<10>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
parathyroid	hyperplasia	<12>				< 9>				<11>				<10>			
		0	0	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)
adrenal	hyperplasia:medulla	<12>				< 9>				<11>				<10>			
		2	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
		( 17)	( 0)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	focal fatty change:cortex	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 18)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																	
testis	mineralization	<12>				< 9>				<11>				<10>			
		1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	arteritis	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control 12				18ppm 9				90ppm 11				450ppm 10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}																		
testis	interstitial cell hyperplasia		<12>				< 9>				<11>				<10>			
			1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)
prostate	inflammation		<12>				< 9>				<11>				<10>			
			2 ( 17)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 11)	1 ( 11)	0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia		0 ( 0)	1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
{Nervous system}																		
brain	hemorrhage		<12>				< 9>				<11>				<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)	1 ( 10)	0 ( 0)	0 ( 0)
	leukemic cell infiltration		1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
spinal cord	leukemic cell infiltration		<12>				< 9>				<11>				<10>			
			1 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 11)	1 ( 11)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 12				18ppm 9				90ppm 11				450ppm 10			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Special sense organs/appendage]																	
eye	cataract	<12>				< 9>				<11>				<10>			
		0	0	0	0	0	0	0	0	0	1	0	0	2	2	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 20)	( 20)	( 0)	( 0)
	retinal atrophy	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)	( 10)	( 0)
	keratitis	1	0	0	0	0	0	0	0	1	1	0	0	1	2	1	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 10)	( 20)	( 10)	( 0)
	iritis	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
[Musculoskeletal system]																	
muscle	atrophy	<12>				< 9>				<11>				<10>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Body cavities]																	
peritoneum	metastasis:spleen tumor	<12>				< 9>				<11>				<10>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 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 L3

HISTOPATHOLOGICAL FINDINGS :  
NON-NEOPLASTIC LESIONS : MALE  
SACRIFICED ANIMALS

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Integumentary system/appandage]																	
skin/app	scab	<38>				<41>				<39>				<40>			
		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)	
	epidermal cyst	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)	
[Respiratory system]																	
nasal cavit	eosinophilic change:olfactory epithelium	<38>				<41>				<39>				<40>			
		21 ( 55)	14 ( 37)	2 ( 5)	0 ( 0)	25 ( 61)	11 ( 27)	2 ( 5)	0 ( 0)	30 ( 77)	6 ( 15)	0 ( 0)	0 ( 0)	23 ( 58)	5 ( 13)	0 ( 0)	0 ( 0) **
	eosinophilic change:respiratory epithelium	7 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammation:foreign body	16 ( 42)	1 ( 3)	0 ( 0)	0 ( 0)	15 ( 37)	5 ( 12)	0 ( 0)	0 ( 0)	16 ( 41)	6 ( 15)	1 ( 3)	0 ( 0)	11 ( 28)	2 ( 5)	0 ( 0)	0 ( 0)
	inflammation:respiratory epithelium	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:olfactory epithelium	6 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Respiratory system]																		
nasal cavity		<38>				<41>				<39>				<40>				
	respiratory metaplasia:gland	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammation:transitional epithelium	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)	1 ( 3)	0 ( 0)	0 ( 0)
	squamous cell metaplasia:transitional epithelium	4 ( 11)	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)
	atrophy:olfactory epithelium	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
	atrophy:respiratory epithelium	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)
nasopharynx		<38>				<41>				<39>				<40>				
	inflammation:foreign body	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)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
larynx		<38>				<41>				<39>				<40>				
	inflammation	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm					
		No. of Animals on Study Grade				38				41				39				40	
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+		
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		
[Respiratory system]																			
larynx																			
	inflammation:foreign body	<38>				<41>				<39>				<40>					
		0	0	0	0	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)		
lung																			
	congestion	<38>				<41>				<39>				<40>					
		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)	( 3)	( 0)	( 0)		
	hemorrhage	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)		
	edema	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)	( 3)	( 0)	( 0)		
	inflammatory infiltration	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0		
		( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)		
	granulomatous inflammation	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)	( 5)	( 0)	( 0)	( 0)		
	squamous cell metaplasia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)		
	leukemic cell infiltration	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0		
		( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)		

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Respiratory system]																		
lung	metastasis:bone marrow tumor	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	accumulation of foamy cells	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)
	bronchiolar-alveolar cell hyperplasia	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)
	thickening:alveolar wall	0 ( 0)	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)
[Hematopoietic system]																		
bone marrow	granulation	1 ( 3)	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)	0 ( 0)	0 ( 0)	0 ( 0)
	leukemic cell infiltration	1 ( 3)	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)
	increased hematopoiesis	4 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	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. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Hematopoietic system]																		
lymph node	leukemic cell infiltration	<38>				<41>				<39>				<40>				
		0 ( 0)	1 ( 3)	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)	
spleen	congestion	<38>				<41>				<39>				<40>				
		5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	deposit of hemosiderin	8 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	12 ( 29)	0 ( 0)	0 ( 0)	0 ( 0)	10 ( 26)	0 ( 0)	0 ( 0)	0 ( 0)	9 ( 23)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	fibrosis:focal	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 3)	2 ( 5)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	extramedullary hematopoiesis	7 ( 18)	1 ( 3)	0 ( 0)	0 ( 0)	6 ( 15)	3 ( 7)	0 ( 0)	0 ( 0)	5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
[Circulatory system]																		
heart	mineralization	<38>				<41>				<39>				<40>				
		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)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40						
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
[Circulatory system]																				
heart	myocardial fibrosis	18 ( 47)	0 ( 0)	0 ( 0)	0 ( 0)	28 ( 68)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	13 ( 33)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	20 ( 50)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	subendocardial fibrosis	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
artery/aort	mineralization	0 ( 0)	0 ( 0)	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)	0 ( 0)
[Digestive system]																				
tongue	arteritis	0 ( 0)	0 ( 0)	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)	0 ( 0)
salivary gl	cyst	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
stomach	mineralization	0 ( 0)	0 ( 0)	0 ( 0)	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)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
stomach																	
	inflammatory infiltration	<38>				<41>				<39>				<40>			
		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)
	leukemic cell infiltration	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)
	ulcer:forestomach	0 ( 0)	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)
	hyperplasia:forestomach	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
	erosion:glandular stomach	2 ( 5)	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 ( 3)	0 ( 0)	0 ( 0)
	ulcer:glandular stomach	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)
	hyperplasia:glandular stomach	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
small intes																	
	fibrosis	<38>				<41>				<39>				<40>			
		0 ( 0)	0 ( 0)	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)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Digestive system]																		
large intes	inflammatory infiltration	<38>				<41>				<39>				<40>				
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	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	<38>				<41>				<39>				<40>				
		3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)
	necrosis:focal	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)
	necrosis:single cell	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	fatty change	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)
	fatty change:central	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	fatty change:peripheral	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)
	granulation	7 ( 18)	1 ( 3)	0 ( 0)	0 ( 0)	9 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	11 ( 28)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	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. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40					
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)		
[Digestive system]																			
liver																			
	leukemic cell infiltration	<38>				<41>				<39>				<40>					
		3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	
	metastasis:peritoneum tumor	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)	
	clear cell focus	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 12)	2 ( 5)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	acidophilic cell focus	12 ( 32)	1 ( 3)	0 ( 0)	0 ( 0)	12 ( 29)	1 ( 2)	0 ( 0)	0 ( 0)	10 ( 26)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	23 ( 58)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0) *
	basophilic cell focus	12 ( 32)	2 ( 5)	0 ( 0)	0 ( 0)	9 ( 22)	1 ( 2)	0 ( 0)	0 ( 0)	7 ( 18)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	13 ( 33)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	mixed cell focus	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	spongiosis hepatitis	4 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	bile duct hyperplasia	2 ( 5)	36 ( 95)	0 ( 0)	0 ( 0)	4 ( 10)	37 ( 90)	0 ( 0)	0 ( 0)	7 ( 18)	32 ( 82)	0 ( 0)	0 ( 0)	0 ( 0)	22 ( 55)	16 ( 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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Digestive system]																		
liver	biliary cyst	<38>				<41>				<39>				<40>				
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	focal fatty change	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	8 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	23 ( 58)	0 ( 0)	0 ( 0)	0 ( 0) **
	deposit of brown pigment	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	8 ( 20)	0 ( 0)	0 ( 0)	0 ( 0) *
pancreas	atrophy	<38>				<41>				<39>				<40>				
		10 ( 26)	1 ( 3)	0 ( 0)	0 ( 0)	8 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	12 ( 31)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
	leukemic cell infiltration	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)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	arteritis	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)	1 ( 3)	0 ( 0)	0 ( 0)
	islet 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)	
[Urinary system]																		
kidney	cyst	<38>				<41>				<39>				<40>				
		0 ( 0)	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 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Urinary system}																	
kidney																	
	inflammatory infiltration	<38>				<41>				<39>				<40>			
		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)
	lymphocytic infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	scar	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)
	leukemic cell 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 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	chronic nephropathy	12 ( 32)	15 ( 39)	11 ( 29)	0 ( 0)	10 ( 24)	27 ( 66)	3 ( 7)	0 * ( 0)	1 ( 3)	13 ( 33)	23 ( 59)	1 ** ( 3)	1 ( 3)	3 ( 8)	31 ( 78)	5 ** ( 13)
	mineralization:pelvis	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)	0 ( 0)	0 ( 0)	0 ( 0)
	urothelial hyperplasia:pelvis	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)	17 ( 43)	2 ( 5)	0 ( 0)	0 ** ( 0)
	atypical tubule hyperplasia	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		38				41				39				40			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney	deposit of brown pigment:proximal tubule	<38>				<41>				<39>				<40>			
		2	0	0	0	2	0	0	0	6	0	0	0	16	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
																	0 **
{Endocrine system}																	
pituitary	angiectasis	<38>				<41>				<39>				<40>			
		0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
	cyst	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
	hyperplasia	8	2	0	0	10	4	0	0	11	3	0	0	9	1	0	0
		( 21)	( 5)	( 0)	( 0)	( 24)	( 10)	( 0)	( 0)	( 28)	( 8)	( 0)	( 0)	( 23)	( 3)	( 0)	( 0)
	Rathke pouch	1	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)
thyroid	follicular hyperplasia	<38>				<41>				<39>				<40>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm					
		No. of Animals on Study Grade				38				41				39				40	
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+		
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		
[Endocrine system]																			
thyroid		<38>				<41>				<39>				<40>					
	C-cell hyperplasia	5 ( 13)	2 ( 5)	0 ( 0)	0 ( 0)	9 ( 22)	3 ( 7)	0 ( 0)	0 ( 0)	5 ( 13)	3 ( 8)	0 ( 0)	0 ( 0)	7 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)		
	cystic thyroid follicle	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)		
adrenal		<38>				<41>				<39>				<40>					
	peliosis-like lesion	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)		
	hyperplasia:cortical cell	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)		
	hyperplasia:medulla	4 ( 11)	2 ( 5)	0 ( 0)	0 ( 0)	1 ( 2)	3 ( 7)	0 ( 0)	0 ( 0)	3 ( 8)	1 ( 3)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)		
	focal fatty change:cortex	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)		
[Reproductive system]																			
testis		<38>				<41>				<39>				<40>					
	mineralization	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)		

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
testis		<38>				<41>				<39>				<40>			
	arteritis	7	0	0	0	4	0	0	0	4	0	0	0	3	0	0	0
		( 18)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)
	interstitial cell hyperplasia	13	0	0	0	11	0	0	0	9	0	0	0	13	0	0	0
		( 34)	( 0)	( 0)	( 0)	( 27)	( 0)	( 0)	( 0)	( 23)	( 0)	( 0)	( 0)	( 33)	( 0)	( 0)	( 0)
prostate		<38>				<41>				<39>				<40>			
	inflammation	2	0	0	0	3	0	0	0	3	0	0	0	6	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)
	hyperplasia	9	1	0	0	4	0	0	0	4	1	0	0	6	0	0	0
		( 24)	( 3)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 10)	( 3)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)
mammary gl		<38>				<41>				<39>				<40>			
	galactocele	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Nervous system]																	
brain		<38>				<41>				<39>				<40>			
	hemorrhage	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control 38				18ppm 41				90ppm 39				450ppm 40			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Special sense organs/appendage]																	
eye		<38>				<41>				<39>				<40>			
	cataract	1 ( 3)	1 ( 3)	1 ( 3)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	2 ( 5)	3 ( 8)	2 ( 5)	0 ( 0)	0 ( 0)	2 ( 5)	2 ( 5)	0 ( 0)
	retinal atrophy	0 ( 0)	2 ( 5)	1 ( 3)	0 ( 0)	1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)	3 ( 8)	2 ( 5)	3 ( 8)	0 ( 0)	1 ( 3)	1 ( 3)	2 ( 5)	0 ( 0)
	keratitis	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)
	iritis	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
	mineralization:cornea	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)
Harder gl		<38>				<41>				<39>				<40>			
	cyst	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	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)	2 ( 5)	1 ( 3)	0 ( 0)	0 ( 0)
	leukemic cell infiltration	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	1 ( 3)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		38				41				39				40			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																	
nasolacr d	inflammation	<38>				<41>				<39>				<40>			
		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)
{Body cavities}																	
mediastinum	arteritis	<38>				<41>				<39>				<40>			
		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
peritoneum	leukemic cell infiltration	<38>				<41>				<39>				<40>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

TABLE L4

HISTOPATHOLOGICAL FINDINGS :  
NON-NEOPLASTIC LESIONS : FEMALE  
ALL ANIMALS

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]																	
skin/app	hemorrhage	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	scab	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	epidermal cyst	0	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)
[Respiratory system]																	
nasal cavit	eosinophilic change:olfactory epithelium	<50>				<50>				<50>				<50>			
		7	27	14	0	14	26	8	0	16	24	6	0	14	28	1	0 **
		( 14)	( 54)	( 28)	( 0)	( 28)	( 52)	( 16)	( 0)	( 32)	( 48)	( 12)	( 0)	( 28)	( 56)	( 2)	( 0)
	eosinophilic change:respiratory epithelium	37	0	0	0	32	0	0	0	22	0	0	0 **	19	0	0	0 **
		( 74)	( 0)	( 0)	( 0)	( 64)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 38)	( 0)	( 0)	( 0)
	inflammation:foreign body	2	0	0	0	1	1	0	0	2	0	0	0	1	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	respiratory metaplasia:olfactory epithelium	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	respiratory metaplasia:gland	<50>				<50>				<50>				<50>			
		4	0	0	0	7	0	0	0	5	0	0	0	7	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)
larynx	inflammation:foreign body	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
lung	congestion	<50>				<50>				<50>				<50>			
		0	2	0	0	1	1	0	0	1	1	0	0	0	1	0	0
		( 0)	( 4)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
	edema	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammatory infiltration	2	0	0	0	6	0	0	0	1	0	0	0	2	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	granulomatous inflammation	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
	accumulation of foamy cells	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung	bronchiolar-alveolar cell hyperplasia	<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Hematopoietic system]																	
bone marrow	granulation	<50>				<50>				<50>				<50>			
		4	0	0	0	7	1	0	0	3	0	0	0	2	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 14)	( 2)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	increased hematopoiesis	2	0	0	0	5	0	0	0	6	0	0	0	1	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 12)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
lymph node	lymphadenitis	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
spleen	congestion	<50>				<50>				<50>				<50>			
		3	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	deposit of hemosiderin	6	33	2	0	7	29	4	0	10	26	1	0	10	29	6	0
		( 12)	( 66)	( 4)	( 0)	( 14)	( 58)	( 8)	( 0)	( 20)	( 52)	( 2)	( 0)	( 20)	( 58)	( 12)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control				18ppm				90ppm				450ppm			
			50				50				50				50			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen	extramedullary hematopoiesis		6 (12)	4 (8)	0 (0)	0 (0)	3 (6)	4 (8)	0 (0)	0 (0)	8 (16)	5 (10)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
			<50>				<50>				<50>				<50>			
{Circulatory system}																		
heart	angiectasis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
			<50>				<50>				<50>				<50>			
	thrombus		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)
			<50>				<50>				<50>				<50>			
	myocardial fibrosis		28 (56)	0 (0)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)	0 (0)	27 (54)	0 (0)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)
			<50>				<50>				<50>				<50>			
{Digestive system}																		
tongue	arteritis		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)
			<50>				<50>				<50>				<50>			

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
stomach	ulcer:forestomach	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:forestomach	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	erosion:glandular stomach	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	ulcer:glandular stomach	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:glandular stomach	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)
small intes	fibrosis	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)
liver	herniation	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	10 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 14)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm				
		50				50				50				50				
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Digestive system]																		
liver																		
	necrosis:central	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	3 ( 6)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	necrosis:focal	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	
	necrosis:single cell	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)	1 ( 2)	0 ( 0)	0 ( 0)	
	fatty change	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)	
	fatty change:central	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)	
	fatty change:peripheral	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
	inflammatory infiltration	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)	
	granulation	20 ( 40)	3 ( 6)	1 ( 2)	0 ( 0)	20 ( 40)	3 ( 6)	0 ( 0)	0 ( 0)	20 ( 40)	9 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	24 ( 48)	15 ( 30)	1 ( 2)	0 ( 0) **

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



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm						
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study						
		Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+	4+	Grade	1+	2+	3+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																				
liver																				
		<50>				<50>				<50>				<50>						
	fibrosis:focal	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)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	clear cell focus	0	1	0	0	1	0	0	0	0	0	0	0	5	0	0	0	0	0	*
		( 0)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	acidophilic cell focus	1	0	0	0	2	0	0	0	2	0	0	0	3	1	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 6)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)
	basophilic cell focus	36	0	0	0	33	1	0	0	22	0	0	0	17	2	0	0	0	0	**
		( 72)	( 0)	( 0)	( 0)	( 66)	( 2)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 34)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)
	mixed cell focus	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)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)
	bile duct hyperplasia	9	0	0	0	13	2	0	0	11	0	0	0	11	0	0	0	0	0	0
		( 18)	( 0)	( 0)	( 0)	( 26)	( 4)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 22)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	bile ductular proliferation	1	0	0	0	2	1	0	0	3	0	0	0	1	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 4)	( 2)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	cholangiofibrosis	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)	( 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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver																	
	biliary cyst	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)
	focal fatty change	2	0	0	0	0	0	0	0	4	0	0	0	9	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)
	deposit of brown pigment	5	1	0	0	3	4	0	0	21	1	0	0	30	10	0	0
		( 10)	( 2)	( 0)	( 0)	( 6)	( 8)	( 0)	( 0)	( 42)	( 2)	( 0)	( 0)	( 60)	( 20)	( 0)	( 0)
pancreas																	
	atrophy	4	0	0	0	3	0	1	0	4	0	0	0	1	0	0	0
		( 8)	( 0)	( 0)	( 0)	( 6)	( 0)	( 2)	( 0)	( 8)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	islet cell hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
{Urinary system}																	
kidney																	
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney																	
	scar	<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)
	chronic nephropathy	34	5	0	0	32	5	0	0	26	8	0	0	32	8	2	0
		( 68)	( 10)	( 0)	( 0)	( 64)	( 10)	( 0)	( 0)	( 52)	( 16)	( 0)	( 0)	( 64)	( 16)	( 4)	( 0)
	tubular necrosis	0	2	0	0	1	2	0	0	0	4	0	0	1	0	0	0
		( 0)	( 4)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	mineralization:papilla	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)
	mineralization:pelvis	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	desquamation:pelvis	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)
	dilated pelvis	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 2)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	deposit of brown pigment:proximal tubule	5	0	0	0	7	0	0	0	15	0	0	0 *	23	0	0	0 **
		( 10)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)	( 46)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
urin bladd	dilatation	<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	inflammatory polyp	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)
[Endocrine system]																	
pituitary	angiectasis	<50>				<50>				<50>				<50>			
		2	0	0	0	3	1	0	0	3	0	0	0	2	0	0	0
		( 4)	( 0)	( 0)	( 0)	( 6)	( 2)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	cyst	10	0	0	0	9	2	0	0	10	0	0	0	8	1	0	0
		( 20)	( 0)	( 0)	( 0)	( 18)	( 4)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 16)	( 2)	( 0)	( 0)
	hyperplasia	8	6	0	0	6	6	0	0	10	4	0	0	6	5	0	0
		( 16)	( 12)	( 0)	( 0)	( 12)	( 12)	( 0)	( 0)	( 20)	( 8)	( 0)	( 0)	( 12)	( 10)	( 0)	( 0)
	Rathke pouch	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	aberrant craniopharyngeal tissue	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name 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																	
	follicular hyperplasia	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	C-cell hyperplasia	11	6	0	0	10	4	0	0	9	2	0	0	9	3	0	0
		( 22)	( 12)	( 0)	( 0)	( 20)	( 8)	( 0)	( 0)	( 18)	( 4)	( 0)	( 0)	( 18)	( 6)	( 0)	( 0)
	cystic thyroid follicle	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
adrenal																	
	peliosis-like lesion	<50>				<50>				<50>				<50>			
		1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:cortical cell	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:medulla	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	focal fatty change:cortex	2	1	0	0	5	0	0	0	3	1	0	0	0	0	0	0
		( 4)	( 2)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 6)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																	
ovary																	
	cyst	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
uterus																	
	dilatation	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	decidual change	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 )
	hyperplasia:epithelium	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 )
	hyperplasia:gland	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 )
	cystic endometrial hyperplasia	3	0	0	0	4	0	0	0	6	0	0	0	4	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )
[Nervous system]																	
spinal cord																	
	hemorrhage	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	gliosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		50				50				50				50			
Group Name No. of Animals on Study Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																	
eye	cataract	0 ( 0)	1 ( 2)	4 ( 8)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	retinal atrophy	0 ( 0)	1 ( 2)	4 ( 8)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	keratitis	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	iritis	4 ( 8)	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)
Harder gl	degeneration	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)
	lymphocytic infiltration	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
nasolacr d	inflammation	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study Grade	Control				18ppm				90ppm				450ppm			
			50				50				50				50			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Musculoskeletal system}																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
			2	0	0	0	1	1	0	0	0	2	0	0	1	0	0	0
			( 4)	( 4)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
{Body cavities}																		
peritoneum	inflammation		<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)
mesenterium	arteritis		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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 L5

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Integumentary system/appandage]																	
skin/app	hemorrhage	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
subcutis	metastasis:uterus tumor	< 9>				<11>				<14>				< 5>			
		1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:bone tumor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Respiratory system]																	
nasal cavit	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	eosinophilic change:olfactory epithelium	3	3	1	0	5	3	1	0	5	4	1	0	0	2	0	0
		( 33)	( 33)	( 11)	( 0)	( 45)	( 27)	( 9)	( 0)	( 36)	( 29)	( 7)	( 0)	( 0)	( 40)	( 0)	( 0)
	eosinophilic change:respiratory epithelium	1	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 21)	( 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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																	
nasal cavit	inflammation:foreign body	< 9>				<11>				<14>				< 5>			
		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)
larynx	inflammation:foreign body	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
lung	congestion	< 9>				<11>				<14>				< 5>			
		0	2	0	0	1	1	0	0	1	1	0	0	0	1	0	0
		( 0)	( 22)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 7)	( 7)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)
	edema	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)
	inflammatory infiltration	2	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0
		( 22)	( 0)	( 0)	( 0)	( 36)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	leukemic cell infiltration	0	0	0	0	2	0	0	0	4	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 29)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:bone tumor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																	
lung	metastasis:mammary gland tumor	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)
	accumulation of foamy cells	1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
{Hematopoietic system}																	
bone marrow	granulation	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)
	leukemic cell infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 29)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	increased hematopoiesis	2 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 36)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)
lymph node	leukemic cell infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Hematopoietic system}																	
lymph node	metastasis:subcutis tumor	< 9>				<11>				<14>				< 5>			
		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)
spleen	congestion	< 9>				<11>				<14>				< 5>			
		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)	( 20)	( 0)	( 0)	( 0)
	deposit of hemosiderin	1	3	1	0	1	2	2	0	2	5	0	0	1	1	2	0
		( 11)	( 33)	( 11)	( 0)	( 9)	( 18)	( 18)	( 0)	( 14)	( 36)	( 0)	( 0)	( 20)	( 20)	( 40)	( 0)
	extramedullary hematopoiesis	1	3	0	0	0	4	0	0	2	3	0	0	1	0	0	0
		( 11)	( 33)	( 0)	( 0)	( 0)	( 36)	( 0)	( 0)	( 14)	( 21)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
{Circulatory system}																	
heart	angiectasis	< 9>				<11>				<14>				< 5>			
		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)	( 20)	( 0)	( 0)	( 0)
	thrombus	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 7)	( 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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Circulatory system]																	
heart	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		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)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	myocardial fibrosis	4	0	0	0	3	0	0	0	6	0	0	0	0	0	0	0
		( 44)	( 0)	( 0)	( 0)	( 27)	( 0)	( 0)	( 0)	( 43)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Digestive system]																	
tongue	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		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)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
stomach	ulcer:forestomach	< 9>				<11>				<14>				< 5>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:forestomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	erosion:glandular stomach	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm				
		No. of Animals on Study				11				14				5				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
stomach	ulcer:glandular stomach		< 9>				<11>				<14>				< 5>			
			1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
liver	herniation		< 9>				<11>				<14>				< 5>			
			1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	necrosis:central		0	2	0	0	3	1	0	0	0	1	0	0	0	0	0	0
			( 0)	( 22)	( 0)	( 0)	( 27)	( 9)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	necrosis:focal		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fatty change		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	fatty change:central		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)
	inflammatory infiltration		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)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation		2	0	0	0	1	0	0	0	3	1	0	0	0	1	0	0
			( 22)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 21)	( 7)	( 0)	( 0)	( 0)	( 20)	( 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. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
liver																	
	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 36)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	metastasis:uterus tumor	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)
	basophilic cell focus	2 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)
	bile duct hyperplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)
	bile ductular proliferation	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)
	focal fatty change	1 ( 11)	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)
	deposit of brown pigment	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 40)	0 ( 0)	0 ( 0)
pancreas																	
	atrophy	< 9>				<11>				<14>				< 5>			
		3 ( 33)	0 ( 0)	0 ( 0)	0 ( 0)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
pancreas		< 9>				<11>				<14>				< 5>			
	leukemic cell infiltration	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)
	islet cell hyperplasia	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)
[Urinary system]																	
kidney		< 9>				<11>				<14>				< 5>			
	leukemic cell infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	chronic nephropathy	5 ( 56)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	2 ( 14)	0 ( 0)	0 ( 0)	2 ( 40)	1 ( 20)	1 ( 20)	0 ( 0)
	tubular necrosis	0 ( 0)	2 ( 22)	0 ( 0)	0 ( 0)	1 ( 9)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 29)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)
	dilated pelvis	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)	1 ( 9)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	deposit of brown pigment:proximal tubule	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Urinary system]																	
urin bladd		< 9>				<11>				<14>				< 5>			
	dilatation	0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)
	inflammatory polyp	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)
	leukemic cell infiltration	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)
	metastasis:subcutis tumor	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)
[Endocrine system]																	
pituitary		< 9>				<11>				<14>				< 5>			
	angiectasis	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)
	cyst	1 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia	0 ( 0)	1 ( 11)	0 ( 0)	0 ( 0)	1 ( 9)	1 ( 9)	0 ( 0)	0 ( 0)	1 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Endocrine system]																	
pituitary	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	Rathke pouch	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)
	aberrant craniopharyngeal tissue	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
thyroid	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	C-cell hyperplasia	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
adrenal	peliosis-like lesion	< 9>				<11>				<14>				< 5>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	leukemic cell infiltration	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Endocrine system]																	
adrenal	focal fatty change:cortex	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																	
ovary	metastasis:bone tumor	< 9>				<11>				<14>				< 5>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
uterus	hyperplasia:gland	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:subcutis tumor	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)
	cystic endometrial hyperplasia	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
vagina	metastasis:uterus tumor	< 9>				<11>				<14>				< 5>			
		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Nervous system}																	
brain	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 21)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	metastasis:pituitary tumor	1 ( 11)	0 ( 0)	0 ( 0)	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	< 9>				<11>				<14>				< 5>			
		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)
	leukemic cell infiltration	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 14)	1 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	gliosis	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)
{Special sense organs/appendage}																	
eye	cataract	< 9>				<11>				<14>				< 5>			
		0 ( 0)	0 ( 0)	1 ( 11)	0 ( 0)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Special sense organs/appendage]																	
eye	retinal atrophy	< 9>				<11>				<14>				< 5>			
		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	keratitis	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)
	iritis	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
Harder gl	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		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)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
nasolacr d	inflammation	< 9>				<11>				<14>				< 5>			
		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)	( 20)	( 0)	( 0)	( 0)
[Musculoskeletal system]																	
muscle	metastasis:bone tumor	< 9>				<11>				<14>				< 5>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 9				18ppm 11				90ppm 14				450ppm 5			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Musculoskeletal system]																	
bone	metastasis:subcutis tumor	< 9>				<11>				<14>				< 5>			
		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)
	osteosclerosis	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Body cavities]																	
mediastinum	leukemic cell infiltration	< 9>				<11>				<14>				< 5>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
peritoneum	metastasis:subcutis tumor	< 9>				<11>				<14>				< 5>			
		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)
retroperit	metastasis:uterus tumor	< 9>				<11>				<14>				< 5>			
		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)
mesenterium	arteritis	< 9>				<11>				<14>				< 5>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 11)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

TABLE L6

HISTOPATHOLOGICAL FINDINGS :  
NON-NEOPLASTIC LESIONS : FEMALE  
SACRIFICED ANIMALS



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Integumentary system/appandage]																	
skin/app		<41>				<39>				<36>				<45>			
	scab	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	epidermal cyst	0 ( 0)	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)
[Respiratory system]																	
nasal cavit		<41>				<39>				<36>				<45>			
	eosinophilic change:olfactory epithelium	4 ( 10)	24 ( 59)	13 ( 32)	0 ( 0)	9 ( 23)	23 ( 59)	7 ( 18)	0 ( 0)	11 ( 31)	20 ( 56)	5 ( 14)	0 * ( 0)	14 ( 31)	26 ( 58)	1 ( 2)	0 ** ( 0)
	eosinophilic change:respiratory epithelium	36 ( 88)	0 ( 0)	0 ( 0)	0 ( 0)	30 ( 77)	0 ( 0)	0 ( 0)	0 ( 0)	19 ( 53)	0 ( 0)	0 ( 0)	0 ** ( 0)	17 ( 38)	0 ( 0)	0 ( 0)	0 ** ( 0)
	inflammation:foreign body	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:olfactory epithelium	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	respiratory metaplasia:gland	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 16)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Respiratory system]																		
lung		<41>				<39>				<36>				<45>				
	inflammatory infiltration	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)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	granulomatous inflammation	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	leukemic cell infiltration	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	metastasis:thyroid tumor	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)
	accumulation of foamy cells	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)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
	bronchiolar-alveolar cell hyperplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
[Hematopoietic system]																		
bone marrow		<41>				<39>				<36>				<45>				
	granulation	4 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 18)	1 ( 3)	0 ( 0)	0 ( 0)	2 ( 6)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Hematopoietic system}																	
bone marrow	leukemic cell infiltration	<41>				<39>				<36>				<45>			
		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)
	increased hematopoiesis	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
lymph node	leukemic cell infiltration	<41>				<39>				<36>				<45>			
		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)
	lymphadenitis	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
spleen	congestion	<41>				<39>				<36>				<45>			
		3 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	deposit of hemosiderin	5 ( 12)	30 ( 73)	1 ( 2)	0 ( 0)	6 ( 15)	27 ( 69)	2 ( 5)	0 ( 0)	8 ( 22)	21 ( 58)	1 ( 3)	0 ( 0)	9 ( 20)	28 ( 62)	4 ( 9)	0 ( 0)
	metastasis:uterus tumor	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Hematopoietic system}																	
spleen	extramedullary hematopoiesis	<41>				<39>				<36>				<45>			
		5 ( 12)	1 ( 2)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 17)	2 ( 6)	0 ( 0)	0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)
{Circulatory system}																	
heart	myocardial fibrosis	<41>				<39>				<36>				<45>			
		24 ( 59)	0 ( 0)	0 ( 0)	0 ( 0)	19 ( 49)	0 ( 0)	0 ( 0)	0 ( 0)	21 ( 58)	0 ( 0)	0 ( 0)	0 ( 0)	21 ( 47)	0 ( 0)	0 ( 0)	0 ( 0)
{Digestive system}																	
tongue	leukemic cell infiltration	<41>				<39>				<36>				<45>			
		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)
	arteritis	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)
stomach	erosion:glandular stomach	<41>				<39>				<36>				<45>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
stomach	hyperplasia:glandular stomach	<41> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<39> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<36> 1 0 0 0 ( 3) ( 0) ( 0) ( 0)				<45> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)			
small intes	fibrosis	<41> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<39> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<36> 0 1 0 0 ( 0) ( 3) ( 0) ( 0)				<45> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)			
large intes	metastasis:uterus tumor	<41> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<39> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)				<36> 1 0 0 0 ( 3) ( 0) ( 0) ( 0)				<45> 0 0 0 0 ( 0) ( 0) ( 0) ( 0)			
liver	herniation	<41> 7 0 0 0 ( 17) ( 0) ( 0) ( 0)				<39> 3 0 0 0 ( 8) ( 0) ( 0) ( 0)				<36> 8 0 0 0 ( 22) ( 0) ( 0) ( 0)				<45> 7 0 0 0 ( 16) ( 0) ( 0) ( 0)			
	necrosis:central	0 0 0 0 ( 0) ( 0) ( 0) ( 0)				0 0 0 0 ( 0) ( 0) ( 0) ( 0)				1 0 0 0 ( 3) ( 0) ( 0) ( 0)				0 0 0 0 ( 0) ( 0) ( 0) ( 0)			
	necrosis:focal	1 0 0 0 ( 2) ( 0) ( 0) ( 0)				6 0 0 0 ( 15) ( 0) ( 0) ( 0)				5 0 0 0 ( 14) ( 0) ( 0) ( 0)				3 0 0 0 ( 7) ( 0) ( 0) ( 0)			
	necrosis:single cell	0 0 0 0 ( 0) ( 0) ( 0) ( 0)				0 0 0 0 ( 0) ( 0) ( 0) ( 0)				1 0 0 0 ( 3) ( 0) ( 0) ( 0)				1 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
liver																	
	fatty change:centeral	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)
	fatty change:peripheral	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	granulation	18 ( 44)	3 ( 7)	1 ( 2)	0 ( 0)	19 ( 49)	3 ( 8)	0 ( 0)	0 ( 0)	17 ( 47)	8 ( 22)	0 ( 0)	0 ( 0)	24 ( 53)	14 ( 31)	1 ( 2)	0 ( 0) **
	fibrosis:focal	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)
	leukemic cell infiltration	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	metastasis:uterus tumor	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)
	clear cell focus	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)
	acidophilic cell focus	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 7)	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. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45				
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
[Digestive system]																		
liver																		
	basophilic cell focus	34 ( 83)	0 ( 0)	0 ( 0)	0 ( 0)	31 ( 79)	1 ( 3)	0 ( 0)	0 ( 0)	20 ( 56)	0 ( 0)	0 ( 0)	0 ( 0)	0 * ( 0)	17 ( 38)	1 ( 2)	0 ( 0)	0 ** ( 0)
	mixed 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)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	bile duct hyperplasia	9 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	13 ( 33)	1 ( 3)	0 ( 0)	0 ( 0)	9 ( 25)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	10 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)
	bile ductular proliferation	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 5)	1 ( 3)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	cholangiofibrosis	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)
	biliary cyst	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)
	focal fatty change	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	9 ( 20)	0 ( 0)	0 ( 0)	0 * ( 0)
	deposit of brown pigment	5 ( 12)	1 ( 2)	0 ( 0)	0 ( 0)	2 ( 5)	3 ( 8)	0 ( 0)	0 ( 0)	20 ( 56)	1 ( 3)	0 ( 0)	0 ( 0)	0 ** ( 0)	28 ( 62)	10 ( 22)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
pancreas		<41>				<39>				<36>				<45>			
	atrophy	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	1 ( 3)	0 ( 0)	4 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	metastasis:uterus tumor	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)
	islet 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 ( 2)	0 ( 0)	0 ( 0)
[Urinary system]																	
kidney		<41>				<39>				<36>				<45>			
	cyst	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	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 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	leukemic cell 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)
	chronic nephropathy	29 ( 71)	5 ( 12)	0 ( 0)	0 ( 0)	30 ( 77)	5 ( 13)	0 ( 0)	0 ( 0)	24 ( 67)	6 ( 17)	0 ( 0)	0 ( 0)	30 ( 67)	7 ( 16)	1 ( 2)	0 ( 0)

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



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Urinary system]																	
kidney																	
	mineralization:papilla	<41>				<39>				<36>				<45>			
		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)
	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)	1 ( 2)	0 ( 0)	0 ( 0)
	desquamation:pelvis	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)
	deposit of brown pigment:proximal tubule	5 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)	13 ( 36)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	23 ( 51)	0 ( 0)	0 ( 0)
[Endocrine system]																	
pituitary																	
	angiectasis	<41>				<39>				<36>				<45>			
		2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	1 ( 3)	0 ( 0)	0 ( 0)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)
	cyst	9 ( 22)	0 ( 0)	0 ( 0)	0 ( 0)	7 ( 18)	2 ( 5)	0 ( 0)	0 ( 0)	7 ( 19)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	8 ( 18)	1 ( 2)	0 ( 0)
	hyperplasia	8 ( 20)	5 ( 12)	0 ( 0)	0 ( 0)	5 ( 13)	5 ( 13)	0 ( 0)	0 ( 0)	9 ( 25)	4 ( 11)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 11)	5 ( 11)	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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Endocrine system]																	
pituitary	Rathke pouch	<41>				<39>				<36>				<45>			
		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)
thyroid	follicular hyperplasia	<41>				<39>				<36>				<45>			
		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)
	C-cell hyperplasia	11 ( 27)	6 ( 15)	0 ( 0)	0 ( 0)	9 ( 23)	3 ( 8)	0 ( 0)	0 ( 0)	9 ( 25)	1 ( 3)	0 ( 0)	0 ( 0)	9 ( 20)	3 ( 7)	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 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)
adrenal	peliosis-like lesion	<41>				<39>				<36>				<45>			
		1 ( 2)	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)
	leukemic cell 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	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)	

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. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Endocrine system]																	
adrenal	hyperplasia:medulla	<41>				<39>				<36>				<45>			
		1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	focal fatty change:cortex	2	1	0	0	5	0	0	0	2	1	0	0	0	0	0	0
		( 5)	( 2)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)	( 6)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Reproductive system]																	
ovary	cyst	<41>				<39>				<36>				<45>			
		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)
uterus	dilatation	<41>				<39>				<36>				<45>			
		0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	decidual change	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)
	hyperplasia:epithelium	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control 41				18ppm 39				90ppm 36				450ppm 45			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}																	
uterus	cystic endometrial hyperplasia	<41>				<39>				<36>				<45>			
		2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	5 (14)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 7)	0 ( 0)	0 ( 0)	0 ( 0)
{Nervous system}																	
brain	metastasis:pituitary tumor	<41>				<39>				<36>				<45>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
spinal cord	hemorrhage	<41>				<39>				<36>				<45>			
		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)
{Special sense organs/appendage}																	
eye	cataract	<41>				<39>				<36>				<45>			
		0 ( 0)	1 ( 2)	3 ( 7)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	retinal atrophy	0 ( 0)	1 ( 2)	3 ( 7)	0 ( 0)	0 ( 0)	1 ( 3)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 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. : 0753  
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name Control				18ppm				90ppm				450ppm			
		No. of Animals on Study Grade				39				36				45			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Special sense organs/appendage]																	
eye		<41>				<39>				<36>				<45>			
	keratitis	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)
	iritis	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 7)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
Harder gl		<41>				<39>				<36>				<45>			
	degeneration	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	lymphocytic infiltration	1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 6)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	leukemic cell infiltration	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)
nasolacr d		<41>				<39>				<36>				<45>			
	inflammation	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		( 7)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Musculoskeletal system]																	
bone		<41>				<39>				<36>				<45>			
	osteosclerosis	1	2	0	0	1	1	0	0	0	1	0	0	1	0	0	0
		( 2)	( 5)	( 0)	( 0)	( 3)	( 3)	( 0)	( 0)	( 0)	( 3)	( 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. : 0753  
 ANIMAL : RAT F344/DuCrI Cr I j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				18ppm				90ppm				450ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		41				39				36				45			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Body cavities]																	
peritoneum	inflammation	<41>				<39>				<36>				<45>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	metastasis:uterus tumor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
mesenterium	arteritis	<41>				<39>				<36>				<45>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

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

TABLE M1

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

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : MALE

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

Time-related Weeks	Items	Group Name	Control	18ppm	90ppm	450ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	1	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		2	1	0	1
	NO. OF ANIMALS WITH TUMORS		1	1	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	1	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		1	0	0	0
	NO. OF MALIGNANT TUMORS		1	1	0	0
	NO. OF TOTAL TUMORS		2	1	0	0
79 - 104	NO. OF EXAMINED ANIMALS		10	7	11	9
	NO. OF ANIMALS WITH TUMORS		8	7	11	9
	NO. OF ANIMALS WITH SINGLE TUMORS		1	2	5	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	5	6	5
	NO. OF BENIGN TUMORS		13	10	16	11
	NO. OF MALIGNANT TUMORS		5	5	3	5
	NO. OF TOTAL TUMORS		18	15	19	16
105 - 105	NO. OF EXAMINED ANIMALS		38	41	39	40
	NO. OF ANIMALS WITH TUMORS		38	41	39	39
	NO. OF ANIMALS WITH SINGLE TUMORS		12	14	16	12
	NO. OF ANIMALS WITH MULTIPLE TUMORS		26	27	23	27
	NO. OF BENIGN TUMORS		65	74	68	72
	NO. OF MALIGNANT TUMORS		13	10	10	10
	NO. OF TOTAL TUMORS		78	84	78	82



STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Time-related Weeks	Items	Group Name	Control	18ppm	90ppm	450ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		47	49	50	48
	NO. OF ANIMALS WITH SINGLE TUMORS		13	17	21	16
	NO. OF ANIMALS WITH MULTIPLE TUMORS		34	32	29	32
	NO. OF BENIGN TUMORS		79	84	84	83
	NO. OF MALIGNANT TUMORS		19	16	13	15
	NO. OF TOTAL TUMORS		98	100	97	98

(HPT070)

BAIS5

**TABLE M2**

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

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
REPORT TYPE : A1  
SEX : FEMALE

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

Time-related Weeks	Items	Group Name	Control	18ppm	90ppm	450ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	0
	NO. OF ANIMALS WITH TUMORS		1	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		1	3	5	0
	NO. OF ANIMALS WITH TUMORS		1	2	5	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	2	4	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	1	0
	NO. OF BENIGN TUMORS		1	0	2	0
	NO. OF MALIGNANT TUMORS		0	2	4	0
	NO. OF TOTAL TUMORS		1	2	6	0
79 - 104	NO. OF EXAMINED ANIMALS		7	8	9	5
	NO. OF ANIMALS WITH TUMORS		6	8	9	5
	NO. OF ANIMALS WITH SINGLE TUMORS		2	3	6	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		4	5	3	1
	NO. OF BENIGN TUMORS		8	9	7	4
	NO. OF MALIGNANT TUMORS		2	6	5	2
	NO. OF TOTAL TUMORS		10	15	12	6
105 - 105	NO. OF EXAMINED ANIMALS		41	39	36	45
	NO. OF ANIMALS WITH TUMORS		28	23	26	30
	NO. OF ANIMALS WITH SINGLE TUMORS		16	12	18	17
	NO. OF ANIMALS WITH MULTIPLE TUMORS		12	11	8	13
	NO. OF BENIGN TUMORS		37	27	29	37
	NO. OF MALIGNANT TUMORS		6	11	9	7
	NO. OF TOTAL TUMORS		43	38	38	44

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrI j [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Time-related Weeks	Items	Group Name	Control	18ppm	90ppm	450ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		36	33	40	35
	NO. OF ANIMALS WITH SINGLE TUMORS		20	17	28	21
	NO. OF ANIMALS WITH MULTIPLE TUMORS		16	16	12	14
	NO. OF BENIGN TUMORS		46	36	38	41
	NO. OF MALIGNANT TUMORS		9	19	18	9
	NO. OF TOTAL TUMORS		55	55	56	50

(HPT070)

BAIS5

TABLE N1

HISTOPATHOLOGICAL FINDINGS :  
NEOPLASTIC LESIONS : MALE

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell papilloma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 2 ( 4%)
	trichoepithelioma		1 ( 2%)	1 ( 2%)	3 ( 6%)	0 ( 0%)
	keratoacanthoma		2 ( 4%)	1 ( 2%)	2 ( 4%)	1 ( 2%)
	trichoepithelioma:malignant		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
subcutis	fibroma		<50> 8 ( 16%)	<50> 4 ( 8%)	<50> 2 ( 4%)	<50> 6 ( 12%)
	leiomyoma		1 ( 2%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	fibrosarcoma		1 ( 2%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	leiomyosarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	hemangiosarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 1 ( 2%)	<50> 6 ( 12%)	<50> 3 ( 6%)	<50> 1 ( 2%)
	bronchiolar-alveolar carcinoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
{Hematopoietic system}						
bone marrow	histiocytic sarcoma		<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. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Hematopoietic system}						
spleen			<50>	<50>	<50>	<50>
	fibroma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	mononuclear cell leukemia		7 ( 14%)	5 ( 10%)	6 ( 12%)	2 ( 4%)
	hemangiosarcoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
{Digestive system}						
oral cavity			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 ( 0%)	1 ( 2%)	1 ( 2%)	0 ( 0%)
stomach			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	squamous cell carcinoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
small intes			<50>	<50>	<50>	<50>
	leiomyoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
large intes			<50>	<50>	<50>	<50>
	lipoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
liver			<50>	<50>	<50>	<50>
	hepatocellular adenoma		1 ( 2%)	1 ( 2%)	1 ( 2%)	9 ( 18%)
	hepatocellular carcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	4 ( 8%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		4 ( 8%)	3 ( 6%)	4 ( 8%)	2 ( 4%)
	islet cell adenocarcinoma		1 ( 2%)	2 ( 4%)	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. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Urinary system}						
kidney	renal cell adenoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 2 ( 4%)
	liposarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
urin bladd	transitional cell papilloma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
{Endocrine system}						
pituitary	adenoma		<50> 6 ( 12%)	<50> 10 ( 20%)	<50> 11 ( 22%)	<50> 7 ( 14%)
thyroid	C-cell adenoma		<50> 9 ( 18%)	<50> 9 ( 18%)	<50> 9 ( 18%)	<50> 3 ( 6%)
	C-cell carcinoma		1 ( 2%)	1 ( 2%)	2 ( 4%)	1 ( 2%)
	follicular adenocarcinoma		1 ( 2%)	2 ( 4%)	1 ( 2%)	0 ( 0%)
adrenal	pheochromocytoma		<50> 2 ( 4%)	<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 5 ( 10%)
	pheochromocytoma:malignant		2 ( 4%)	2 ( 4%)	0 ( 0%)	1 ( 2%)
{Reproductive system}						
testis	interstitial cell tumor		<50> 39 ( 78%)	<50> 45 ( 90%)	<50> 41 ( 82%)	<50> 40 ( 80%)
prostate	adenoma		<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. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Reproductive system}						
mammary gl	fibroadenoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
prep/cli gl	adenoma		<50> 3 ( 6%)	<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 2 ( 4%)
	{Special sense organs/appendage}					
Zymbal gl	Zymbal gland tumor:malignant		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
{Musculoskeletal system}						
bone	osteoma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	osteosarcoma		2 ( 4%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
{Body cavities}						
pleura	schwannoma:malignant		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
mediastinum	schwannoma:malignant		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
peritoneum	mesothelioma		<50> 2 ( 4%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 2 ( 4%)

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

**TABLE N2**

**HISTOPATHOLOGICAL FINDINGS :  
NEOPLASTIC LESIONS : FEMALE**

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell papilloma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	trichoepithelioma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
subcutis	fibroma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 2 ( 4%)	<50> 2 ( 4%)
	lipoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
	hemangioma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	fibrosarcoma		0 ( 0%)	1 ( 2%)	1 ( 2%)	0 ( 0%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 2 ( 4%)	<50> 0 ( 0%)	<50> 3 ( 6%)	<50> 1 ( 2%)
	bronchiolar-alveolar carcinoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
{Hematopoietic system}						
bone marrow	histiocytic sarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
spleen	mononuclear cell leukemia		<50> 4 ( 8%)	<50> 8 ( 16%)	<50> 8 ( 16%)	<50> 2 ( 4%)
{Digestive system}						
tongue	squamous cell papilloma		<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. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
[Digestive system]						
tongue	squamous cell carcinoma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
small intes	fibroma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
liver	hepatocellular adenoma		<50> 2 ( 4%)	<50> 0 ( 0%)	<50> 2 ( 4%)	<50> 0 ( 0%)
	hepatocellular carcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
pancreas	islet cell adenoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
	islet cell adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	1 ( 2%)
[Urinary system]						
kidney	transitional cell papilloma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	nephroblastoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
urin bladd	transitional cell papilloma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
[Endocrine system]						
pituitary	adenoma		<50> 14 ( 28%)	<50> 8 ( 16%)	<50> 15 ( 30%)	<50> 17 ( 34%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)

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

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
[Endocrine system]						
thyroid	C-cell adenoma		<50> 8 ( 16%)	<50> 7 ( 14%)	<50> 5 ( 10%)	<50> 5 ( 10%)
	follicular adenoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	C-cell carcinoma		0 ( 0%)	1 ( 2%)	1 ( 2%)	1 ( 2%)
adrenal	thymoma:benign		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	pheochromocytoma		1 ( 2%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	cortical adenoma		3 ( 6%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	pheochromocytoma:malignant		1 ( 2%)	1 ( 2%)	0 ( 0%)	2 ( 4%)
[Reproductive system]						
ovary	Sertoli cell tumor:malignant		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
uterus	endometrial stromal polyp		<50> 7 ( 14%)	<50> 9 ( 18%)	<50> 4 ( 8%)	<50> 5 ( 10%)
	endometrial stromal sarcoma		1 ( 2%)	1 ( 2%)	2 ( 4%)	2 ( 4%)
mammary gl	fibroadenoma		<50> 3 ( 6%)	<50> 9 ( 18%)	<50> 3 ( 6%)	<50> 6 ( 12%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	1 ( 2%)	0 ( 0%)

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Reproductive system}						
mammary gl	adenosquamous carcinoma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
prep/cli gl	adenoma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 2 ( 4%)	<50> 1 ( 2%)
{Nervous system}						
brain	glioma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	ependymoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
{Musculoskeletal system}						
bone	osteosarcoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)

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

TABLE 01

NEOPLASTIC LESIONS-INCIDENCE  
AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICrl j[F344/DuCr j]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : skin/appendage TUMOR : trichoepithelioma				
Tumor rate				
Overall rates(a)	1/50 ( 2.0)	1/50 ( 2.0)	3/50 ( 6.0)	0/50 ( 0.0)
Adjusted rates(b)	2.63	2.44	7.69	0.0
Terminal rates(c)	1/38 ( 2.6)	1/41 ( 2.4)	3/39 ( 7.7)	0/40 ( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8434			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3092			
Fisher Exact test(e)		P = 0.7525	P = 0.3087	P = 0.5000
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	8/50 ( 16.0)	4/50 ( 8.0)	2/50 ( 4.0)	6/50 ( 12.0)
Adjusted rates(b)	15.38	9.52	5.13	15.00
Terminal rates(c)	5/38 ( 13.2)	3/41 ( 7.3)	2/39 ( 5.1)	6/40 ( 15.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8813			
Prevalence method(d)	P = 0.2791			
Combined analysis(d)	P = 0.4186			
Cochran-Armitage test(e)	P = 0.8342			
Fisher Exact test(e)		P = 0.1783	P = 0.0458*	P = 0.3871
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates(a)	9/50 ( 18.0)	4/50 ( 8.0)	3/50 ( 6.0)	6/50 ( 12.0)
Adjusted rates(b)	15.38	9.52	7.69	15.00
Terminal rates(c)	5/38 ( 13.2)	3/41 ( 7.3)	3/39 ( 7.7)	6/40 ( 15.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9400			
Prevalence method(d)	P = 0.3058			
Combined analysis(d)	P = 0.5138			
Cochran-Armitage test(e)	P = 0.9733			
Fisher Exact test(e)		P = 0.1168	P = 0.0606	P = 0.2883



STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCrj]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	1/50 ( 2.0)	6/50 ( 12.0)	3/50 ( 6.0)	1/50 ( 2.0)
Adjusted rates(b)	2.63	14.63	7.69	2.50
Terminal rates(c)	1/38 ( 2.6)	6/41 ( 14.6)	3/39 ( 7.7)	1/40 ( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8936			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2296			
Fisher Exact test(e)		P = 0.0559	P = 0.3087	P = 0.7525
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	1/50 ( 2.0)	6/50 ( 12.0)	4/50 ( 8.0)	1/50 ( 2.0)
Adjusted rates(b)	2.63	14.63	10.26	2.50
Terminal rates(c)	1/38 ( 2.6)	6/41 ( 14.6)	4/39 ( 10.3)	1/40 ( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9006			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2172			
Fisher Exact test(e)		P = 0.0559	P = 0.1811	P = 0.7525
SITE : spleen				
TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	7/50 ( 14.0)	5/50 ( 10.0)	6/50 ( 12.0)	2/50 ( 4.0)
Adjusted rates(b)	12.77	4.88	10.26	5.00
Terminal rates(c)	4/38 ( 10.5)	2/41 ( 4.9)	4/39 ( 10.3)	2/40 ( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9277			
Prevalence method(d)	P = 0.8566			
Combined analysis(d)	P = 0.9578			
Cochran-Armitage test(e)	P = 0.1035			
Fisher Exact test(e)		P = 0.3798	P = 0.5000	P = 0.0798

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCr j]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : liver				
TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	1/50 ( 2.0)	1/50 ( 2.0)	1/50 ( 2.0)	9/50 ( 18.0)
Adjusted rates(b)	2.63	2.44	2.56	20.00
Terminal rates(c)	1/38 ( 2.6)	1/41 ( 2.4)	1/39 ( 2.6)	8/40 ( 20.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0001**			
Fisher Exact test(e)		P = 0.7525	P = 0.7525	P = 0.0078**
SITE : liver				
TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	0/50 ( 0.0)	0/50 ( 0.0)	0/50 ( 0.0)	4/50 ( 8.0)
Adjusted rates(b)	0.0	0.0	0.0	8.51
Terminal rates(c)	0/38 ( 0.0)	0/41 ( 0.0)	0/39 ( 0.0)	3/40 ( 7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0005**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0006**			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.0587
SITE : liver				
TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	1/50 ( 2.0)	1/50 ( 2.0)	1/50 ( 2.0)	12/50 ( 24.0)
Adjusted rates(b)	2.63	2.44	2.56	27.50
Terminal rates(c)	1/38 ( 2.6)	1/41 ( 2.4)	1/39 ( 2.6)	11/40 ( 27.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.7525	P = 0.7525	P = 0.0009**

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCr j]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	4/50 ( 8.0)	3/50 ( 6.0)	4/50 ( 8.0)	2/50 ( 4.0)
Adjusted rates(b)	10.53	7.32	10.26	5.00
Terminal rates(c)	4/38 ( 10.5)	3/41 ( 7.3)	4/39 ( 10.3)	2/40 ( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7842			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4322			
Fisher Exact test(e)		P = 0.5000	P = 0.6425	P = 0.3389
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	5/50 ( 10.0)	5/50 ( 10.0)	4/50 ( 8.0)	3/50 ( 6.0)
Adjusted rates(b)	13.16	11.11	10.26	7.50
Terminal rates(c)	5/38 ( 13.2)	4/41 ( 9.8)	4/39 ( 10.3)	3/40 ( 7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7902			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4270			
Fisher Exact test(e)		P = 0.6297	P = 0.5000	P = 0.3575
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	6/50 ( 12.0)	10/50 ( 20.0)	11/50 ( 22.0)	7/50 ( 14.0)
Adjusted rates(b)	10.53	21.95	21.95	15.00
Terminal rates(c)	4/38 ( 10.5)	9/41 ( 22.0)	7/39 ( 17.9)	6/40 ( 15.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6423			
Prevalence method(d)	P = 0.6309			
Combined analysis(d)	P = 0.6922			
Cochran-Armitage test(e)	P = 0.6624			
Fisher Exact test(e)		P = 0.2070	P = 0.1434	P = 0.5000

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCr j]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	9/50 ( 18.0)	9/50 ( 18.0)	9/50 ( 18.0)	3/50 ( 6.0)
Adjusted rates(b)	19.05	20.93	21.95	6.12
Terminal rates(c)	7/38 ( 18.4)	8/41 ( 19.5)	8/39 ( 20.5)	2/40 ( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9857			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0431*			
Fisher Exact test(e)		P = 0.6024	P = 0.6024	P = 0.0606
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	10/50 ( 20.0)	10/50 ( 20.0)	10/50 ( 20.0)	4/50 ( 8.0)
Adjusted rates(b)	21.43	23.26	24.39	8.16
Terminal rates(c)	8/38 ( 21.1)	9/41 ( 22.0)	9/39 ( 23.1)	2/40 ( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9805			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0545			
Fisher Exact test(e)		P = 0.5984	P = 0.5984	P = 0.0739
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates(a)	2/50 ( 4.0)	1/50 ( 2.0)	1/50 ( 2.0)	5/50 ( 10.0)
Adjusted rates(b)	5.26	2.44	2.56	12.20
Terminal rates(c)	2/38 ( 5.3)	1/41 ( 2.4)	1/39 ( 2.6)	4/40 ( 10.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0299*			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0392*			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.2180

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICrl j[F344/DuCr j]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : adrenal gland				
TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	4/50 ( 8.0)	3/50 ( 6.0)	1/50 ( 2.0)	6/50 ( 12.0)
Adjusted rates(b)	10.53	7.32	2.56	14.63
Terminal rates(c)	4/38 ( 10.5)	3/41 ( 7.3)	1/39 ( 2.6)	5/40 ( 12.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1028			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1758			
Fisher Exact test(e)		P = 0.5000	P = 0.1811	P = 0.3703
SITE : testis				
TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates(a)	39/50 ( 78.0)	45/50 ( 90.0)	41/50 ( 82.0)	40/50 ( 80.0)
Adjusted rates(b)	84.62	93.75	85.00	87.80
Terminal rates(c)	32/38 ( 84.2)	38/41 ( 92.7)	33/39 ( 84.6)	35/40 ( 87.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7936			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5975			
Fisher Exact test(e)		P = 0.0857	P = 0.4016	P = 0.5000

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCrj]  
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
	SITE : preputial/clitoral gland			
	TUMOR : adenoma			
Tumor rate				
Overall rates(a)	3/50 ( 6.0)	1/50 ( 2.0)	1/50 ( 2.0)	2/50 ( 4.0)
Adjusted rates(b)	7.89	2.44	0.0	5.00
Terminal rates(c)	3/38 ( 7.9)	1/41 ( 2.4)	0/39 ( 0.0)	2/40 ( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3296			
Prevalence method(d)	P = 0.4083			
Combined analysis(d)	P = 0.4561			
Cochran-Armitage test(e)	P = 0.9470			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.5000

(HPT360A)

BAIS5

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

TABLE O2

NEOPLASTIC LESIONS-INCIDENCE  
AND STATISTICAL ANALYSIS : FEMALE

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICrl j[F344/DuCr j]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates(a)	0/50 ( 0.0)	1/50 ( 2.0)	3/50 ( 6.0)	2/50 ( 4.0)
Adjusted rates(b)	0.0	0.0	5.56	4.44
Terminal rates(c)	0/41 ( 0.0)	0/39 ( 0.0)	2/36 ( 5.6)	2/45 ( 4.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.6749			
Prevalence method(d)	P = 0.1175			
Combined analysis(d)	P = 0.2486			
Cochran-Armitage test(e)	P = 0.4251			
Fisher Exact test(e)		P = 0.5000	P = 0.1212	P = 0.2475
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	2/50 ( 4.0)	0/50 ( 0.0)	3/50 ( 6.0)	1/50 ( 2.0)
Adjusted rates(b)	4.88	0.0	6.25	2.22
Terminal rates(c)	2/41 ( 4.9)	0/39 ( 0.0)	2/36 ( 5.6)	1/45 ( 2.2)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5891			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7903			
Fisher Exact test(e)		P = 0.2475	P = 0.5000	P = 0.5000
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	2/50 ( 4.0)	0/50 ( 0.0)	4/50 ( 8.0)	1/50 ( 2.0)
Adjusted rates(b)	4.88	0.0	8.33	2.22
Terminal rates(c)	2/41 ( 4.9)	0/39 ( 0.0)	2/36 ( 5.6)	1/45 ( 2.2)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6254			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7254			
Fisher Exact test(e)		P = 0.2475	P = 0.3389	P = 0.5000



STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCrj]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	4/50 ( 8.0)	8/50 ( 16.0)	8/50 ( 16.0)	2/50 ( 4.0)
Adjusted rates(b)	9.76	15.38	9.76	4.44
Terminal rates(c)	4/41 ( 9.8)	6/39 ( 15.4)	3/36 ( 8.3)	2/45 ( 4.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8499			
Prevalence method(d)	P = 0.9259			
Combined analysis(d)	P = 0.9666			
Cochran-Armitage test(e)	P = 0.1059			
Fisher Exact test(e)		P = 0.1783	P = 0.1783	P = 0.3389
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	14/50 ( 28.0)	8/50 ( 16.0)	15/50 ( 30.0)	17/50 ( 34.0)
Adjusted rates(b)	27.27	18.18	30.56	31.11
Terminal rates(c)	10/41 ( 24.4)	7/39 ( 17.9)	11/36 ( 30.6)	14/45 ( 31.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2385			
Prevalence method(d)	P = 0.2044			
Combined analysis(d)	P = 0.1468			
Cochran-Armitage test(e)	P = 0.1595			
Fisher Exact test(e)		P = 0.1135	P = 0.5000	P = 0.3329
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	14/50 ( 28.0)	9/50 ( 18.0)	15/50 ( 30.0)	17/50 ( 34.0)
Adjusted rates(b)	27.27	20.51	30.56	31.11
Terminal rates(c)	10/41 ( 24.4)	8/39 ( 20.5)	11/36 ( 30.6)	14/45 ( 31.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2385			
Prevalence method(d)	P = 0.2410			
Combined analysis(d)	P = 0.1733			
Cochran-Armitage test(e)	P = 0.1959			
Fisher Exact test(e)		P = 0.1710	P = 0.5000	P = 0.3329

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCr j]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	8/50 ( 16.0)	7/50 ( 14.0)	5/50 ( 10.0)	5/50 ( 10.0)
Adjusted rates(b)	17.39	17.95	13.16	11.11
Terminal rates(c)	6/41 ( 14.6)	7/39 ( 17.9)	4/36 ( 11.1)	5/45 ( 11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8316			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4381			
Fisher Exact test(e)		P = 0.5000	P = 0.2768	P = 0.2768
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	8/50 ( 16.0)	7/50 ( 14.0)	6/50 ( 12.0)	6/50 ( 12.0)
Adjusted rates(b)	17.39	17.95	15.79	13.33
Terminal rates(c)	6/41 ( 14.6)	7/39 ( 17.9)	5/36 ( 13.9)	6/45 ( 13.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7409			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6496			
Fisher Exact test(e)		P = 0.5000	P = 0.3871	P = 0.3871
SITE : adrenal gland TUMOR : cortical adenoma				
Tumor rate				
Overall rates(a)	3/50 ( 6.0)	0/50 ( 0.0)	0/50 ( 0.0)	0/50 ( 0.0)
Adjusted rates(b)	7.32	0.0	0.0	0.0
Terminal rates(c)	3/41 ( 7.3)	0/39 ( 0.0)	0/36 ( 0.0)	0/45 ( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9427			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1820			
Fisher Exact test(e)		P = 0.1212	P = 0.1212	P = 0.1212

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr Ij[F344/DuCr j]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : uterus				
TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	7/50 ( 14.0)	9/50 ( 18.0)	4/50 ( 8.0)	5/50 ( 10.0)
Adjusted rates(b)	17.07	19.57	11.11	11.11
Terminal rates(c)	7/41 ( 17.1)	6/39 ( 15.4)	4/36 ( 11.1)	5/45 ( 11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8359			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4016			
Fisher Exact test(e)		P = 0.3929	P = 0.2623	P = 0.3798
SITE : mammary gland				
TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	3/50 ( 6.0)	9/50 ( 18.0)	3/50 ( 6.0)	6/50 ( 12.0)
Adjusted rates(b)	7.32	19.15	2.78	13.33
Terminal rates(c)	3/41 ( 7.3)	6/39 ( 15.4)	1/36 ( 2.8)	6/45 ( 13.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5799			
Prevalence method(d)	P = 0.3859			
Combined analysis(d)	P = 0.4453			
Cochran-Armitage test(e)	P = 0.7979			
Fisher Exact test(e)		P = 0.0606	P = 0.6611	P = 0.2435
SITE : mammary gland				
TUMOR : fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	3/50 ( 6.0)	10/50 ( 20.0)	4/50 ( 8.0)	6/50 ( 12.0)
Adjusted rates(b)	7.32	19.15	5.56	13.33
Terminal rates(c)	3/41 ( 7.3)	6/39 ( 15.4)	2/36 ( 5.6)	6/45 ( 13.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7322			
Prevalence method(d)	P = 0.4145			
Combined analysis(d)	P = 0.5307			
Cochran-Armitage test(e)	P = 0.9695			
Fisher Exact test(e)		P = 0.0357*	P = 0.5000	P = 0.2435

STUDY No. : 0753  
 ANIMAL : RAT F344/DuCr ICr I j[F344/DuCr j]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	18ppm	90ppm	450ppm
SITE : mammary gland				
TUMOR : fibroadenoma, adenocarcinoma, adenosquamous carcinoma				
Tumor rate				
Overall rates(a)	3/50 ( 6.0)	10/50 ( 20.0)	4/50 ( 8.0)	6/50 ( 12.0)
Adjusted rates(b)	7.32	17.39	5.56	13.33
Terminal rates(c)	3/41 ( 7.3)	6/39 ( 15.4)	2/36 ( 5.6)	6/45 ( 13.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8277			
Prevalence method(d)	P = 0.3654			
Combined analysis(d)	P = 0.5438			
Cochran-Armitage test(e)	P = 0.9695			
Fisher Exact test(e)		P = 0.0357*	P = 0.5000	P = 0.2435

(HPT360A)

BAIS5

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

**TABLE P1**

**HISTOPATHOLOGICAL FINDINGS :**

**METASTASIS OF TUMOR :**

**MALE**

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name	Control	18ppm	90ppm	450ppm
		No. of Animals on Study	50	50	50	50
{Respiratory system}						
larynx	metastasis:subcutis tumor		<50> 0	<50> 0	<50> 0	<50> 1
	leukemic cell infiltration		<50> 3	<50> 3	<50> 5	<50> 0
lung	metastasis:subcutis tumor		0	0	0	1
	metastasis:bone tumor		1	0	0	0
	metastasis:bone marrow tumor		0	1	0	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 2	<50> 2	<50> 2	<50> 0
	leukemic cell infiltration		<50> 3	<50> 3	<50> 2	<50> 0
spleen	metastasis:subcutis tumor		<50> 0	<50> 0	<50> 0	<50> 1
{Digestive system}						
salivary gl	metastasis:subcutis tumor		<50> 0	<50> 0	<50> 0	<50> 1
	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
liver	leukemic cell infiltration		<50> 5	<50> 3	<50> 6	<50> 2

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Digestive system}						
liver	metastasis:peritoneum tumor		<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:subcutis tumor		0	0	0	1
pancreas	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<50> 1
	metastasis:spleen tumor		0	1	0	0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 2
{Nervous system}						
brain	leukemic cell infiltration		<50> 1	<50> 2	<50> 0	<50> 0
spinal cord	leukemic cell infiltration		<50> 1	<50> 2	<50> 0	<50> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 1	<50> 0	<50> 1	<50> 2
{Body cavities}						
peritoneum	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0

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

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCrI CrIj [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	18ppm 50	90ppm 50	450ppm 50
[Body cavities]						
peritoneum	metastasis:spleen tumor		<50> 0	<50> 1	<50> 0	<50> 0

---

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

(JPT150)

BAIS5



**TABLE P2**

**HISTOPATHOLOGICAL FINDINGS :**

**METASTASIS OF TUMOR :**

**FEMALE**

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Integumentary system/appandage}						
subcutis	metastasis:uterus tumor		<50> 1	<50> 1	<50> 0	<50> 0
	metastasis:bone tumor		0	0	1	0
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
lung	leukemic cell infiltration		<50> 2	<50> 5	<50> 5	<50> 2
	metastasis:thyroid tumor		0	1	0	0
	metastasis:bone tumor		0	0	1	0
	metastasis:mammary gland tumor		0	1	0	0
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 1	<50> 1	<50> 4	<50> 0
lymph node	leukemic cell infiltration		<50> 0	<50> 0	<50> 3	<50> 0
	metastasis:subcutis tumor		0	1	0	0
spleen	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 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 : Number of animals with lesion

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control	18ppm	90ppm	450ppm
			50	50	50	50
[Digestive system]						
tongue	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 1
large intes	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 0
liver	leukemic cell infiltration		<50> 2	<50> 8	<50> 7	<50> 1
	metastasis:uterus tumor		0	0	1	1
pancreas	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:uterus tumor		0	0	1	0
[Urinary system]						
kidney	leukemic cell infiltration		<50> 1	<50> 0	<50> 3	<50> 0
urin bladd	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor		0	1	0	0
[Endocrine system]						
pituitary	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
thyroid	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCr j]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Endocrine system}						
adrenal	leukemic cell infiltration		<50> 1	<50> 0	<50> 1	<50> 0
{Reproductive system}						
ovary	metastasis:bone tumor		<50> 1	<50> 0	<50> 0	<50> 0
uterus	metastasis:subcutis tumor		<50> 0	<50> 1	<50> 0	<50> 0
vagina	metastasis:uterus tumor		<50> 1	<50> 0	<50> 0	<50> 1
{Nervous system}						
brain	leukemic cell infiltration		<50> 0	<50> 0	<50> 3	<50> 0
	metastasis:pituitary tumor		1	1	0	1
spinal cord	leukemic cell infiltration		<50> 0	<50> 0	<50> 3	<50> 0
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 1
{Musculoskeletal system}						
muscle	metastasis:bone tumor		<50> 1	<50> 0	<50> 0	<50> 0

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

STUDY NO. : 0753  
 ANIMAL : RAT F344/DuCrIcrlj[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name No. of Animals on Study	Control 50	18ppm 50	90ppm 50	450ppm 50
{Musculoskeletal system}						
bone	metastasis:subcutis tumor		<50> 0	<50> 1	<50> 0	<50> 0
{Body cavities}						
mediastinum	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
peritoneum	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor		0	1	0	0
retroperit	metastasis:uterus tumor		<50> 0	<50> 1	<50> 0	<50> 0

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

TABLE Q

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

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

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Liver	2848			
Hepatocellular adenoma		59	2.1	0 - 12
Hepatocellular carcinoma		13	0.5	0 - 4
Hepatocellular adenoma / Hepatocellular carcinoma		72	2.5	0 - 14
Adrenal gland	2847			
Pheochromocytoma		326	11.5	0 - 40

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 R1

CAUSE OF DEATH : MALE



STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
SEX : MALE

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

Group Name	Control	18ppm	90ppm	450ppm
Number of Dead and Moribund Animal	12	9	11	10
no microscop confirm	2	3	2	1
respiratory sy les	0	0	1	0
urinary sy les	1	0	0	0
central nervo lesion	0	0	0	1
chronic nephropathy	1	0	1	4
tumor d:leukemia	1	3	2	0
tumor d:subcutis	3	0	0	2
tumor d:spleen	0	1	0	0
tumor d:oral cavity	0	0	1	0
tumor d:pituitary	2	1	2	1
tumor d:prep/cli gl	0	0	1	0
tumor d:bone	1	0	0	0
tumor d:pleura	0	0	1	0
tumor d:peritoneum	1	1	0	1

(B10120)

BAIS5

TABLE R2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0753  
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
SEX : FEMALE

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

Group Name	Control	18ppm	90ppm	450ppm
Number of Dead and Moribund Animal	9	11	14	5
no microscop confirm	3	2	0	0
central nervo lesion	0	0	1	0
tumor d:leukemia	0	2	4	0
tumor d:subcutis	1	1	1	0
tumor d:tongue	0	1	0	0
tumor d:kidney	1	0	0	0
tumor d:pituitary	2	0	4	3
tumor d:uterus	1	1	1	2
tumor d:mammary gl	0	2	2	0
tumor d:prep/cli gl	0	1	0	0
tumor d:brain	0	1	0	0
tumor d:bone	1	0	1	0

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