

メタクリル酸ブチルのラットを用いた吸入によるがん原性試験報告書

試験番号：0849

TABLES

TABLES

TABLE A	CONCENTRATIONS OF BUTYL METHACRYLATE 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	URINALYSIS: MALE
TABLE F 2	URINALYSIS: FEMALE
TABLE G 1	HEMATOLOGY: MALE
TABLE G 2	HEMATOLOGY: FEMALE

TABLES (CONTINUED)

TABLE H 1 BIOCHEMISTRY: MALE

TABLE H 2 BIOCHEMISTRY: FEMALE

TABLE I 1 GROSS FINDINGS: MALE

TABLE I 2 GROSS FINDINGS: FEMALE

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: NEOPLASTIC LESIONS:
MALE

TABLE L 2 HISTOPATHOLOGICAL FINDINGS: NEOPLASTIC LESIONS:
FEMALE

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

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

TABLE N 1 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC
LESIONS IN JAPAN BIOASSAY RESEARCH CENTER :
F344/DuCrI CrIj MALE RATS

TABLE N 2 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC
LESIONS IN JAPAN BIOASSAY RESEARCH CENTER :
F344/DuCrI CrIj FEMALE RATS

TABLE O 1 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: MALE

TABLE O 2 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: FEMALE

TABLES (CONTINUED)

TABLE P 1 HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
MALE

TABLE P 2 HISTOPATHOLOGICAL FINDINGS: METASTASIS OF TUMOR:
FEMALE

TABLE Q 1 CAUSE OF DEATH: MALE

TABLE Q 2 CAUSE OF DEATH: FEMALE

TABLE A

CONCENTRATIONS OF BUTYL METHACRYLATE
IN THE INHALATION CHAMBER
OF THE 2-YEAR INHALATION STUDY

CONCENTRATIONS OF BUTYL METHACRYLATE
IN THE INHALATION CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
30 ppm	29.9 $\pm$ 0.3
125 ppm	124.8 $\pm$ 0.7
500 ppm	499.3 $\pm$ 3.5

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals Survival rate(%)															

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BA1S5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
30ppm	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
125ppm	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
500ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

(HAN360)

BA1S5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
500ppm	50	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(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0
500ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
Number of survival/ Number of effective animals Survival rate(%)															

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BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 7

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	45/50	44/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	90.0	88.0
30ppm	50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	47/50
		100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	94.0
125ppm	50	46/50	46/50	46/50	46/50	45/50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	43/50	43/50
		92.0	92.0	92.0	92.0	90.0	90.0	90.0	88.0	88.0	88.0	88.0	88.0	86.0	86.0
500ppm	50	48/50	47/50	47/50	45/50	45/50	45/50	43/50	42/50	42/50	42/50	41/50	40/50	39/50	37/50
		96.0	94.0	94.0	90.0	90.0	90.0	86.0	84.0	84.0	84.0	82.0	80.0	78.0	74.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	42/50	42/50	41/50	41/50	40/50	38/50	38/50
		84.0	84.0	82.0	82.0	80.0	76.0	76.0
30ppm	50	47/50	47/50	46/50	44/50	43/50	41/50	41/50
		94.0	94.0	92.0	88.0	86.0	82.0	82.0
125ppm	50	42/50	42/50	41/50	41/50	39/50	38/50	36/50
		84.0	84.0	82.0	82.0	78.0	76.0	72.0
500ppm	50	35/50	35/50	33/50	31/50	30/50	30/50	28/50
		70.0	70.0	66.0	62.0	60.0	60.0	56.0

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

(HAN360)

BAIS5

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 9

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
30ppm	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
125ppm	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
500ppm	50	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0	50/50 100.0
Number of survival/ Number of effective animals Survival rate (%)															

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STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 12

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group Name	Animals At start	Administration (Weeks)		58	59	60	61	62	63	64	65	66	67	68	69
		56	57												
Control	50	49/50	49/50	49/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	46/50
		98.0	98.0	98.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	92.0
30ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0
500ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0

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

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	45/50
		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	90.0
30ppm	50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	48/50	48/50	47/50	47/50	47/50	46/50	46/50
		100.0	100.0	100.0	100.0	98.0	98.0	98.0	96.0	96.0	94.0	94.0	94.0	92.0	92.0
125ppm	50	49/50	48/50	48/50	48/50	48/50	47/50	47/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50
		98.0	96.0	96.0	96.0	96.0	94.0	94.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0
500ppm	50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	46/50
		98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	92.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 15

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	45/50	45/50	45/50	45/50	44/50	44/50	44/50	42/50	42/50	42/50	42/50	42/50	42/50	42/50
		90.0	90.0	90.0	90.0	88.0	88.0	88.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
30ppm	50	45/50	45/50	44/50	44/50	42/50	42/50	42/50	41/50	41/50	41/50	41/50	41/50	41/50	41/50
		90.0	90.0	88.0	88.0	84.0	84.0	84.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
125ppm	50	45/50	45/50	45/50	44/50	44/50	43/50	43/50	43/50	43/50	43/50	43/50	43/50	43/50	41/50
		90.0	90.0	90.0	88.0	88.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	82.0
500ppm	50	46/50	45/50	45/50	45/50	45/50	44/50	44/50	44/50	43/50	42/50	42/50	42/50	42/50	42/50
		92.0	90.0	90.0	90.0	90.0	88.0	88.0	88.0	86.0	84.0	84.0	84.0	84.0	84.0
Number of survival/ Number of effective animals															
Survival rate(%)															

(HAN360)

BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 16

Group Name	Animals At start	Administration (Weeks)		100	101	102	103	104
		98	99					
Control	50	42/50 84.0	42/50 84.0	41/50 82.0	40/50 80.0	40/50 80.0	39/50 78.0	39/50 78.0
30ppm	50	40/50 80.0	39/50 78.0	39/50 78.0	39/50 78.0	39/50 78.0	39/50 78.0	38/50 76.0
125ppm	50	40/50 80.0	39/50 78.0	39/50 78.0	37/50 74.0	37/50 74.0	37/50 74.0	37/50 74.0
500ppm	50	41/50 82.0	41/50 82.0	40/50 80.0	38/50 76.0	38/50 76.0	37/50 74.0	37/50 74.0
Number of survival/ Number of effective animals Survival rate(%)								

(HAN360)

BAIS5

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	125ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	500ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
MORBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	1	1	2	3	3	3	4	4	4	4
	30ppm	0	0	0	0	0	0	0	0	1	1	1	2	3	3
	125ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	0	0	1	1	2	2	2

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	125ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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	0
	30ppm	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	125ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	4	4	6	7	7	7	7	7	7	6	6	7	6	7
	30ppm	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	125ppm	1	1	1	0	0	0	0	0	1	1	1	1	1	1
	500ppm	2	2	3	3	3	4	4	5	6	6	6	6	6	6

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1-104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
DEATH	Control	2	2	2	2	2	2	2	2	3	3	3	3	4	4
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	500ppm	1	1	1	1	1	2	2	2	2	3	3	4	5	5
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	4
	30ppm	1	1	1	1	1	1	1	1	1	1	2	2	3	3
	125ppm	1	1	1	2	2	2	3	3	3	3	3	4	4	5
	500ppm	2	2	4	4	4	5	6	6	6	6	7	7	8	10
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	500ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	30ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	500ppm	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
	30ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	125ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	500ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	7	4	4	4	4	5	5	5	4	5	5	5	5	5
	30ppm	4	6	6	6	6	6	5	5	5	5	7	7	7	7
	125ppm	1	1	0	0	1	1	0	0	1	1	1	3	3	3
	500ppm	5	5	5	7	7	6	6	6	6	5	5	5	5	4

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	4	4	4	4	4	4
	30ppm	0	0	0	0	1	1
	125ppm	3	3	3	3	3	4
	500ppm	5	5	5	5	5	7
MORIBUND SACRIFICE	Control	4	5	5	6	8	8
	30ppm	3	4	6	7	8	8
	125ppm	5	6	6	8	9	10
	500ppm	10	12	14	15	15	15
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	1	0	0	0	0	0
	500ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	30ppm	0	1	0	0	0	0
	125ppm	0	0	0	1	0	0
	500ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	1	1	1	0	0	0
	500ppm	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0
	30ppm	2	2	2	2	1	1
	125ppm	2	2	2	1	1	1
	500ppm	2	2	2	2	2	2
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	5	6	6	6	8	8
	30ppm	7	9	7	7	6	6
	125ppm	3	3	3	3	3	4
	500ppm	5	4	4	4	4	4

STUDY NO. : 0849
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
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 10

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
M. PERI-MOUTH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 11

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	1	1	1	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 13

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	1	2	2	2	3	3	3	3
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
M. ANTERIOR DORSUM	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	1	1	1	2	3	3
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 14

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
M. ABDOMEN	Control	3	3	3	4	4	4	4	4	4	3	3	3	2	3
	30ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	2
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANTERIOR DORSUM	Control	1	1	3	3	3	3	3	3	3	3	3	4	4	4
	30ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	125ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1	0	0	0	0	0	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 15

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	2	2	2	1	1	1	1	1	1	1	1	1
M. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1	3	3	3	3	3	3	3	3	3	2	2
M. ABDOMEN	Control	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	2	2	2	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	500ppm	1	1	1	1	1	1	1	2	2	1	1	1	1	1
M. ANTERIOR DORSUM	Control	4	4	4	4	4	5	5	5	4	4	4	4	4	4
	30ppm	3	3	3	3	3	3	2	2	2	2	3	3	3	3
	125ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	500ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	125ppm	1	1	0	0	0	0	0	0	0	0	0	1	1	1
	500ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. PERI-MOUTH	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	1	0	0	0	0	0
M. HEAD	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	1	1	1	1	1
	30ppm	0	1	1	1	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	1	1
	30ppm	1	1	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	2	2	2	2	2	2
M. ABDOMEN	Control	0	0	0	0	0	0
	30ppm	1	1	1	1	0	0
	125ppm	0	0	0	0	0	0
	500ppm	2	2	2	2	2	2
M. ANTERIOR DORSUM	Control	4	4	4	4	4	4
	30ppm	3	4	4	4	5	5
	125ppm	1	1	1	1	1	2
	500ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	1	1
	30ppm	1	1	1	1	1	1
	125ppm	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	30ppm	1	1	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0

STUDY NO. : 0849
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			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 18

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 20

Clinical sign	Group Name	Administration Week-day			46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	2	0	0	0	0	0	0	0	0	0	0	0	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 22

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	500ppm	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	1	2	1	1	1	1	2	1
	30ppm	1	1	1	0	1	1	1	1	1	1	1	1	1	1
	125ppm	1	2	1	0	0	0	0	0	0	0	0	3	3	3
	500ppm	0	0	0	0	1	1	0	0	0	0	1	3	3	1
JAUNDICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	125ppm	0	0	1	0	0	0	0	0	0	1	1	0	2	2
	500ppm	1	0	0	0	0	0	0	0	0	0	1	2	1	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 24

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. GENITALIA	Control	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
ANEMIA	Control	2	1	1	1	0	0
	30ppm	2	1	1	3	1	1
	125ppm	4	3	3	5	5	5
	500ppm	1	1	0	2	2	5
JAUNDICE	Control	1	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	1	1	1
CRUSTA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
SWELLING	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	1	1	1	0	0
	30ppm	1	0	1	1	0	0
	125ppm	2	1	1	0	1	1
	500ppm	2	1	0	1	1	1
DEEP BREATHING	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
SALIVATION	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 25

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	49	49	49	49
	30ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	125ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	500ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 26

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	30ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	125ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	500ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 27

Clinical sign	Group Name	Administration Week-day		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
NON REMARKABLE	Control	49	48	48	49	49	49	49	49	49	49	49	49	49	49	49	49
	30ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	125ppm	50	49	49	49	49	49	49	48	48	46	46	46	46	46	46	46
	500ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 28

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	30ppm	50	50	50	50	50	50	50	50	50	50	49	49	49	49
	125ppm	45	45	46	46	45	46	46	45	45	45	45	45	45	44
	500ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49

(HAN190)

BAIS 5

STUDY NO. : 0849
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
NON REMARKABLE	Control	49	49	49	49	47	48	47	46	46	46	45	45	44	44
	30ppm	49	49	49	49	49	49	49	49	48	48	48	47	46	46
	125ppm	44	44	44	45	45	45	45	45	45	45	45	45	45	45
	500ppm	49	49	49	49	49	49	49	49	49	48	47	46	46	46

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
NON REMARKABLE	Control	44	44	42	41	41	41	41	41	41	41	41	40	41	40
	30ppm	46	46	46	46	46	46	44	44	44	44	44	44	44	43
	125ppm	45	45	45	45	45	45	45	44	43	43	43	43	42	42
	500ppm	46	46	44	44	44	43	43	42	41	41	41	41	41	41

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
NON REMARKABLE	Control	40	43	43	43	43	42	41	41	41	40	40	38	36	36
	30ppm	43	40	40	41	41	41	40	40	40	40	38	38	38	38
	125ppm	42	41	43	43	43	43	42	42	41	40	40	36	36	34
	500ppm	40	41	39	37	36	35	35	35	34	34	32	30	28	28

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
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
NON REMARKABLE	Control	35	34	34	33	30	30
	30ppm	37	36	36	34	33	33
	125ppm	33	33	33	30	29	26
	500ppm	26	26	25	22	22	18

(HAN190)

BAIS 5

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 34

Clinical sign	Group Name	Administration		Week-day												
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7	
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	500ppm	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	
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	125ppm	0	1	1	1	1	2	2	2	2	2	2	2	2	2	
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
DEATH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	1	1	1		1	1	1	1	1	1	2	2	2	2	2
	125ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	500ppm	0	0	0		0	1	1	2	2	2	2	2	2	2	2

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	125ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	500ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
DEATH	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	1	1	1	1	1	1	1	2	2	2
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	125ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	500ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	3	3
	30ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	2
	125ppm	2	2	2	2	3	3	4	4	4	4	5	5	5	5
	500ppm	1	1	1	1	2	2	2	3	3	3	3	3	4	4
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	30ppm	0	0	0	0	0	0	1	1	2	2	2	3	3	3
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
CATARACT	Control	2	2	2	2	3	3	3	3	3	3	3	3	3	3
	30ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	125ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	500ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
DEATH	Control	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	30ppm	2	3	3	4	4	4	4	4	4	4	4	4	4	4
	125ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	6
	500ppm	5	5	5	5	6	6	6	7	7	7	7	7	7	8
MORIBUND SACRIFICE	Control	2	2	2	3	3	3	5	5	5	5	5	5	5	5
	30ppm	3	3	3	4	4	4	5	5	5	5	5	5	5	6
	125ppm	0	0	1	1	2	2	2	2	2	2	2	2	4	4
	500ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	125ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	500ppm	2	2	2	2	2	2	3	3	3	3	3	3	3	3

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	3	3	4	4	4	4
	30ppm	4	4	4	4	4	5
	125ppm	7	7	7	7	7	7
	500ppm	8	9	10	10	11	11
MORIBUND SACRIFICE	Control	5	6	6	6	7	7
	30ppm	7	7	7	7	7	7
	125ppm	4	4	6	6	6	6
	500ppm	1	1	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	30ppm	0	0	0	1	2	2
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
TRAUMA	Control	1	1	1	1	2	2
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
CATARACT	Control	3	3	3	3	3	3
	30ppm	3	3	3	3	3	3
	125ppm	3	3	2	2	2	2
	500ppm	3	3	3	3	3	3

STUDY NO. : 0849
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				4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7												
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	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	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		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
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 43

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 44

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	2	2
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 45

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	30ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI Crij [F344/DuCrI]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 46

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	30ppm	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	125ppm	0	1	1	1	1	1	1	1	1	2	2	1	1	1	2
	500ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	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	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	500ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 47

Clinical sign	Group Name	Administration Week-day				88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7												
ANTERIOR CHAMBER OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	1	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		1	1	1	1	1	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3		3	3	4	4	4	4	4	4	5	5	6
	30ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	3
	125ppm	2	2	2		3	3	3	3	3	3	3	3	3	3	3
	500ppm	1	1	1		1	1	1	1	1	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0		0	1	1	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	1	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	1	1	1		1	1	1	1	1	0	0	0	0	0	0
M. NECK	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1		2	2	3	3	3	3	3	3	3	3	3
	30ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1		1	1	1	1	1	1	1	1	1	2	2
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 48

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	6	7	6	6	6	6
	30ppm	3	3	3	3	4	5
	125ppm	3	5	5	5	5	6
	500ppm	0	0	1	1	2	5
INTERNAL MASS	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	1	1	1	1	1
	500ppm	0	0	0	0	0	0
M. BREAST	Control	3	4	4	4	4	4
	30ppm	2	2	2	2	3	3
	125ppm	0	0	0	0	0	0
	500ppm	0	0	1	1	2	3
M. ABDOMEN	Control	1	1	1	1	1	1
	30ppm	0	0	0	0	0	1
	125ppm	2	2	2	2	2	2
	500ppm	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 49

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7	3-7											
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 50

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
M. ANTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Crlj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 51

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
M. ANTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 54

Clinical sign	Group Name	Administration Week-day				74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7												
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	30ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	125ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1
	30ppm	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 55

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	1	0	0	0	0	0	0	0	0	1	1	2
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	1	1	1	2	2	2	2	2	2	2	2	2	1	1
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	1	1	1	1	1	1	0	0	0	0	0	0	0	1
	30ppm	1	1	1	0	1	1	0	0	0	0	1	1	1	0
	125ppm	0	1	0	1	0	1	1	1	2	2	4	4	2	3
	500ppm	0	0	0	0	0	0	0	0	0	0	0	2	2	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	500ppm	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
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	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
	30ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	1	0	0	0	0	0	0	0	1
	30ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMATURIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 56

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0
	30ppm	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	1	1	1	1
	500ppm	0	0	0	0	0	1
M. GENITALIA	Control	2	2	1	1	1	1
	30ppm	0	0	0	0	0	0
	125ppm	1	2	1	1	1	2
	500ppm	0	0	0	0	0	0
ANEMIA	Control	2	1	0	1	0	1
	30ppm	0	0	0	1	1	1
	125ppm	2	2	1	1	1	1
	500ppm	1	1	1	2	2	3
CRUSTA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	1	1	1	1	1	1
	500ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	1
	500ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	30ppm	1	1	1	1	1	1
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	2	0	0	0	0	0
	30ppm	0	0	0	0	1	1
	125ppm	1	1	0	0	0	0
	500ppm	0	1	0	0	0	1
HEMATURIA	Control	0	0	0	0	0	0
	30ppm	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [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
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	30ppm	50	50	50	50	50	50	50	49	49	49	49	49	49	49
	125ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	500ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 58

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
NON REMARKABLE	Control	50	50	50	50	50	50	49	49	49	49	49	49	49	49
	30ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	125ppm	50	49	49	49	49	48	48	48	48	48	48	48	48	48
	500ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
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
NON REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	30ppm	49	49	49	48	48	48	48	48	48	47	47	47	47	47
	125ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	500ppm	50	50	50	50	49	49	48	48	48	48	48	48	48	48

(HAN190)

BAIS 5

STUDY NO. : 0849
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
NON REMARKABLE	Control	49	49	48	48	48	48	47	47	47	47	47	47	45	45
	30ppm	47	47	47	47	47	47	47	47	47	47	46	46	46	46
	125ppm	48	47	47	47	47	47	47	47	47	47	47	47	47	47
	500ppm	48	48	48	48	48	48	48	47	47	47	47	47	47	47

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 61

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
NON REMARKABLE	Control	44	43	42	42	42	42	42	42	42	42	42	42	41	42
	30ppm	46	46	46	46	46	46	46	46	46	46	46	45	44	45
	125ppm	47	47	47	47	47	47	47	45	46	46	46	46	45	46
	500ppm	47	47	47	47	47	47	47	46	46	46	46	46	46	46

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day			74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
		71-7	72-7	73-7											
NON REMARKABLE	Control	41	41	41	41	41	41	41	40	39	40	40	39	38	38
	30ppm	45	45	45	44	43	43	44	44	42	42	42	42	41	40
	125ppm	45	44	44	44	43	43	42	42	41	41	41	41	41	40
	500ppm	46	46	46	46	45	45	45	43	43	43	43	43	43	43

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
NON REMARKABLE	Control	38	38	38	37	36	35	36	36	36	36	36	35	35	34
	30ppm	39	38	38	37	36	36	35	35	36	35	35	35	35	34
	125ppm	40	39	39	38	38	38	38	38	38	38	37	37	36	34
	500ppm	42	42	42	42	41	41	40	39	39	39	39	37	37	37

(HAN190)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
NON REMARKABLE	Control	33	32	32	31	30	29
	30ppm	34	34	34	32	31	29
	125ppm	34	32	30	30	30	30
	500ppm	37	35	33	32	30	26

(HAN190)

BAIS 5

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		30ppm		125ppm		500ppm				
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	124 (50)	50/50	124 (50)	100	50/50	124 (50)	100	50/50	124 (50)	100	50/50
1-7	155 (50)	50/50	154 (50)	99	50/50	154 (50)	99	50/50	149 (50)	96	50/50
2-7	185 (50)	50/50	185 (50)	100	50/50	185 (50)	100	50/50	178 (50)	96	50/50
3-7	208 (50)	50/50	208 (50)	100	50/50	208 (50)	100	50/50	202 (50)	97	50/50
4-7	227 (50)	50/50	229 (50)	101	50/50	229 (50)	101	50/50	222 (50)	98	50/50
5-7	243 (50)	50/50	245 (50)	101	50/50	245 (50)	101	50/50	238 (50)	98	50/50
6-7	257 (50)	50/50	258 (50)	100	50/50	257 (50)	100	50/50	251 (50)	98	50/50
7-7	268 (50)	50/50	271 (50)	101	50/50	270 (50)	101	50/50	263 (50)	98	50/50
8-7	279 (50)	50/50	283 (50)	101	50/50	282 (50)	101	50/50	275 (50)	99	50/50
9-7	288 (50)	50/50	291 (50)	101	50/50	292 (50)	101	50/50	282 (50)	98	50/50
10-7	295 (50)	50/50	299 (50)	101	50/50	300 (50)	102	50/50	291 (50)	99	50/50
11-7	300 (50)	50/50	304 (50)	101	50/50	307 (50)	102	50/50	297 (50)	99	50/50
12-7	306 (50)	50/50	312 (50)	102	50/50	313 (50)	102	50/50	302 (50)	99	50/50
13-7	312 (50)	50/50	316 (50)	101	50/50	320 (50)	103	50/50	307 (50)	98	50/50
14-7	317 (50)	50/50	323 (50)	102	50/50	325 (50)	103	50/50	314 (50)	99	50/50
18-7	334 (50)	50/50	340 (50)	102	50/50	342 (50)	102	50/50	330 (50)	99	50/50
22-7	346 (50)	50/50	354 (50)	102	50/50	356 (50)	103	50/50	344 (50)	99	50/50
26-7	358 (50)	50/50	365 (50)	102	50/50	369 (50)	103	50/50	356 (50)	99	50/50
30-7	368 (50)	50/50	375 (50)	102	50/50	380 (50)	103	50/50	363 (50)	99	50/50
34-7	377 (50)	50/50	385 (50)	102	50/50	389 (50)	103	50/50	373 (50)	99	50/50
38-7	385 (50)	50/50	393 (50)	102	50/50	395 (49)	103	49/50	378 (50)	98	50/50
42-7	391 (50)	50/50	397 (50)	102	50/50	402 (49)	103	49/50	384 (50)	98	50/50
46-7	397 (50)	50/50	404 (50)	102	50/50	408 (49)	103	49/50	390 (50)	98	50/50
50-7	403 (50)	50/50	409 (50)	101	50/50	414 (49)	103	49/50	394 (50)	98	50/50
54-7	408 (50)	50/50	413 (50)	101	50/50	421 (48)	103	48/50	397 (50)	97	50/50
58-7	409 (50)	50/50	414 (50)	101	50/50	423 (48)	103	48/50	401 (50)	98	50/50
62-7	414 (50)	50/50	417 (50)	101	50/50	425 (48)	103	48/50	403 (50)	97	50/50
66-7	418 (50)	50/50	421 (50)	101	50/50	429 (48)	103	48/50	407 (50)	97	50/50
70-7	423 (49)	49/50	424 (50)	100	50/50	431 (48)	102	48/50	407 (49)	96	49/50
74-7	424 (49)	49/50	427 (50)	101	50/50	433 (47)	102	47/50	407 (49)	96	49/50
78-7	424 (49)	49/50	427 (50)	101	50/50	430 (46)	101	46/50	407 (48)	96	48/50
82-7	424 (48)	48/50	426 (50)	100	50/50	431 (46)	102	46/50	408 (48)	96	48/50
86-7	424 (47)	47/50	424 (49)	100	49/50	428 (46)	101	46/50	404 (47)	95	47/50
90-7	422 (47)	47/50	420 (49)	100	49/50	422 (45)	100	45/50	394 (43)	93	43/50
94-7	416 (46)	46/50	412 (49)	99	49/50	419 (44)	101	44/50	391 (41)	94	41/50
98-7	410 (42)	42/50	410 (47)	100	47/50	410 (42)	100	42/50	386 (35)	94	35/50
102-7	401 (40)	40/50	402 (43)	100	43/50	399 (39)	100	39/50	381 (30)	95	30/50
104-7	400 (38)	38/50	397 (41)	99	41/50	397 (36)	99	36/50	377 (28)	94	28/50
< >:No. of effective animals. ():No. of measured animals											
Av. Wt.: g											

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

Av. Wt. : g

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		30ppm			125ppm			500ppm		
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	97 (50)	50/50	97 (50)	100	50/50	97 (50)	100	50/50	97 (50)	100	50/50
1-7	111 (50)	50/50	110 (50)	99	50/50	111 (50)	100	50/50	107 (50)	96	50/50
2-7	123 (50)	50/50	123 (50)	100	50/50	124 (50)	101	50/50	120 (50)	98	50/50
3-7	132 (50)	50/50	132 (50)	100	50/50	134 (50)	102	50/50	129 (50)	98	50/50
4-7	140 (50)	50/50	140 (50)	100	50/50	142 (50)	101	50/50	138 (50)	99	50/50
5-7	146 (50)	50/50	146 (50)	100	50/50	150 (50)	103	50/50	143 (50)	98	50/50
6-7	151 (50)	50/50	152 (50)	101	50/50	154 (50)	102	50/50	148 (50)	98	50/50
7-7	155 (50)	50/50	156 (50)	101	50/50	159 (50)	103	50/50	153 (50)	99	50/50
8-7	158 (50)	50/50	160 (50)	101	50/50	164 (50)	104	50/50	158 (50)	100	50/50
9-7	161 (50)	50/50	163 (50)	101	50/50	167 (50)	104	50/50	160 (50)	99	50/50
10-7	164 (50)	50/50	166 (50)	101	50/50	172 (50)	105	50/50	164 (50)	100	50/50
11-7	166 (50)	50/50	169 (50)	102	50/50	175 (50)	105	50/50	167 (50)	101	50/50
12-7	169 (50)	50/50	173 (50)	102	50/50	177 (50)	105	50/50	169 (50)	100	50/50
13-7	173 (50)	50/50	174 (50)	101	50/50	180 (50)	104	50/50	173 (50)	100	50/50
14-7	173 (50)	50/50	177 (50)	102	50/50	182 (50)	105	50/50	175 (50)	101	50/50
18-7	181 (50)	50/50	184 (50)	102	50/50	189 (50)	104	50/50	180 (50)	99	50/50
22-7	185 (50)	50/50	190 (50)	103	50/50	195 (50)	105	50/50	183 (50)	99	50/50
26-7	190 (50)	50/50	194 (50)	102	50/50	199 (50)	105	50/50	187 (50)	98	50/50
30-7	194 (50)	50/50	198 (50)	102	50/50	203 (50)	105	50/50	191 (50)	98	50/50
34-7	198 (50)	50/50	201 (50)	102	50/50	206 (50)	104	50/50	197 (50)	99	50/50
38-7	203 (50)	50/50	207 (50)	102	50/50	211 (50)	104	50/50	198 (50)	98	50/50
42-7	207 (50)	50/50	211 (50)	102	50/50	216 (50)	104	50/50	199 (50)	96	50/50
46-7	211 (50)	50/50	214 (50)	101	50/50	218 (50)	103	50/50	203 (50)	96	50/50
50-7	216 (49)	49/50	220 (50)	102	50/50	225 (50)	104	50/50	207 (50)	96	50/50
54-7	219 (49)	49/50	225 (50)	103	50/50	227 (50)	104	50/50	210 (50)	96	50/50
58-7	222 (49)	49/50	228 (50)	103	50/50	231 (50)	104	50/50	213 (50)	96	50/50
62-7	228 (47)	47/50	231 (50)	101	50/50	234 (50)	103	50/50	215 (50)	94	50/50
66-7	236 (47)	47/50	237 (50)	100	50/50	240 (49)	102	49/50	221 (49)	94	49/50
70-7	236 (46)	46/50	242 (50)	103	50/50	245 (49)	104	49/50	222 (49)	94	49/50
74-7	242 (46)	46/50	249 (49)	103	49/50	252 (48)	104	48/50	226 (49)	93	49/50
78-7	247 (46)	46/50	251 (48)	102	48/50	256 (46)	104	46/50	232 (47)	94	47/50
82-7	251 (46)	46/50	254 (46)	101	46/50	262 (45)	104	45/50	235 (47)	94	47/50
86-7	257 (45)	45/50	257 (44)	100	44/50	267 (45)	104	45/50	237 (45)	92	45/50
90-7	256 (44)	44/50	259 (42)	101	42/50	271 (43)	106	43/50	239 (44)	93	44/50
94-7	260 (42)	42/50	263 (41)	101	41/50	275 (43)	106	43/50	242 (42)	93	42/50
98-7	263 (42)	42/50	264 (40)	100	40/50	272 (40)	103	40/50	245 (41)	93	41/50
102-7	262 (40)	40/50	260 (39)	99	39/50	272 (37)	104	37/50	244 (38)	93	38/50
104-7	264 (39)	39/50	260 (38)	98	38/50	275 (37)	104	37/50	244 (37)	92	37/50

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

Av. Wt.: g

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day									
	0-0		1-7		2-7		3-7		4-7		5-7	
Control	124±	5	155±	7	185±	8	208±	9	227±	10	243±	11
30ppm	124±	5	154±	7	185±	8	208±	9	229±	9	245±	10
125ppm	124±	5	154±	8	185±	9	208±	9	229±	10	245±	11
500ppm	124±	5	149±	8**	178±	10**	202±	11**	222±	11*	238±	12

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day									
	7-7		8-7		9-7		10-7		11-7		12-7	
Control	268±	13	279±	13	288±	14	295±	15	300±	16	306±	16
30ppm	271±	11	283±	12	291±	12	299±	13	304±	13	312±	14
125ppm	270±	13	282±	13	292±	14	300±	15	307±	14	313±	16
500ppm	263±	13	275±	14	282±	14	291±	14	297±	15	302±	16

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	38-7
Control	317± 16		334± 19		346± 21		358± 22		368± 23		377± 24	385± 25
30ppm	323± 14		340± 16		354± 19		365± 21		375± 22		385± 23	393± 24
125ppm	325± 16*		342± 16		356± 18*		369± 20*		380± 21*		389± 22*	395± 24
500ppm	314± 17		330± 18		344± 20		356± 22		363± 23		373± 24	378± 25

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	391±	26	397±	27	403±	29	408±	28	409±	29	414±	31
30ppm	397±	25	404±	27	409±	26	413±	26	414±	27	417±	28
125ppm	402±	24	408±	24	414±	28	421±	26*	423±	27*	425±	27
500ppm	384±	25	390±	26	394±	26	397±	25	401±	25	403±	25

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	423±	26	424±	26	424±	26	424±	26	424±	26	422±	29
30ppm	424±	28	427±	30	427±	29	426±	30	424±	30	420±	31
125ppm	431±	26	433±	26	430±	25	431±	25	428±	26	422±	28
500ppm	407±	26*	407±	26**	407±	29**	408±	35*	404±	25**	394±	28**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration		week-day			
	98-7		102-7		104-7	
Control	410±	33	401±	39	400±	37
30ppm	410±	28	402±	26	397±	29
125ppm	410±	30	399±	31	397±	31
500ppm	386±	27**	381±	37*	377±	53**

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	97±	3	111±	3	123±	4	132±	5	140±	6	146±	6	151±	6
30ppm	97±	3	110±	4	123±	5	132±	5	140±	7	146±	7	152±	7
125ppm	97±	3	111±	4	124±	5	134±	6	142±	6	150±	6**	154±	6*
500ppm	97±	3	107±	4**	120±	4*	129±	5*	138±	5	143±	6*	148±	6

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration		week-day											
	7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	155±	8	158±	8	161±	9	164±	9	166±	10	169±	9	173±	9
30ppm	156±	8	160±	9	163±	9	166±	9	169±	10	173±	10	174±	10
125ppm	159±	7**	164±	7**	167±	7**	172±	8**	175±	9**	177±	9**	180±	9**
500ppm	153±	6	158±	7	160±	7	164±	8	167±	7	169±	7	173±	7

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day											
	14-7		18-7		22-7		26-7		30-7		34-7		38-7	
Control	173±	10	181±	11	185±	10	190±	12	194±	12	198±	13	203±	13
30ppm	177±	10	184±	10	190±	10	194±	11	198±	11	201±	11	207±	13
125ppm	182±	9**	189±	9**	195±	9**	199±	10**	203±	10**	206±	11**	211±	11**
500ppm	175±	7	180±	7	183±	7	187±	8	191±	8	197±	10	198±	10
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett														
(HAN260)													BAIS 5	

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	207±	14	211±	16	216±	16	219±	18	222±	22	228±	28
30ppm	211±	13	214±	13	220±	13	225±	16	228±	16	231±	16
125ppm	216±	12**	218±	14*	225±	14**	227±	15*	231±	18**	234±	20
500ppm	199±	10**	203±	12*	207±	11**	210±	12*	213±	13*	215±	13**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	236 ±	24	242 ±	24	247 ±	26	251 ±	29	257 ±	32	256 ±	26
30ppm	242 ±	20	249 ±	20	251 ±	21	254 ±	22	257 ±	23	259 ±	22
125ppm	245 ±	24	252 ±	22	256 ±	20	262 ±	20*	267 ±	23	271 ±	23*
500ppm	222 ±	15**	226 ±	16**	232 ±	16**	235 ±	19**	237 ±	20**	239 ±	22**

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	263±	24	262±	27	264±	31
30ppm	264±	27	260±	32	260±	35
125ppm	272±	21	272±	22	275±	23
500ppm	245±	20**	244±	20**	244±	21**

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

Test of Dunnett

(HAN260)

BAIS 5

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		30ppm		125ppm		500ppm				
	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	16.3 (50)	50/50	16.1 (50)	99	50/50	16.0 (50)	98	50/50	15.5 (50)	95	50/50
2-7	18.5 (50)	50/50	18.3 (50)	99	50/50	18.0 (50)	97	50/50	17.9 (50)	97	50/50
3-7	18.8 (50)	50/50	18.8 (50)	100	50/50	18.6 (50)	99	50/50	18.4 (50)	98	50/50
4-7	19.0 (50)	50/50	18.6 (50)	98	50/50	18.7 (50)	98	50/50	18.3 (50)	96	50/50
5-7	18.3 (50)	50/50	17.9 (50)	98	50/50	18.1 (50)	99	50/50	17.8 (50)	97	50/50
6-7	18.3 (50)	50/50	18.1 (50)	99	50/50	18.0 (50)	98	50/50	17.6 (50)	96	50/50
7-7	17.7 (50)	50/50	17.7 (50)	100	50/50	17.6 (50)	99	50/50	17.2 (50)	97	50/50
8-7	18.0 (50)	50/50	18.1 (50)	101	50/50	17.9 (50)	99	50/50	17.5 (50)	97	50/50
9-7	17.6 (50)	50/50	17.6 (50)	100	50/50	17.8 (50)	101	50/50	17.1 (50)	97	50/50
10-7	17.6 (50)	50/50	17.6 (50)	100	50/50	17.8 (50)	101	50/50	17.2 (50)	98	50/50
11-7	17.1 (50)	50/50	17.2 (50)	101	50/50	17.5 (50)	102	50/50	16.8 (50)	98	50/50
12-7	17.1 (50)	50/50	17.3 (50)	101	50/50	17.5 (50)	102	50/50	16.8 (50)	98	50/50
13-7	16.9 (50)	50/50	17.2 (50)	102	50/50	17.4 (50)	103	50/50	16.8 (50)	99	50/50
14-7	16.7 (50)	50/50	16.9 (50)	101	50/50	16.9 (50)	101	50/50	16.6 (50)	99	50/50
18-7	16.7 (50)	50/50	17.0 (50)	102	50/50	16.8 (50)	101	50/50	16.4 (50)	98	50/50
22-7	16.7 (50)	50/50	17.3 (50)	104	50/50	17.3 (50)	104	50/50	16.9 (50)	101	50/50
26-7	17.0 (50)	50/50	17.5 (50)	103	50/50	17.8 (50)	105	50/50	16.7 (50)	98	50/50
30-7	17.9 (50)	50/50	18.2 (50)	102	50/50	18.4 (50)	103	50/50	17.5 (50)	98	50/50
34-7	17.6 (50)	50/50	18.2 (50)	103	50/50	18.3 (50)	104	50/50	17.8 (50)	101	50/50
38-7	17.8 (50)	50/50	17.9 (50)	101	50/50	18.1 (49)	102	49/50	17.3 (50)	97	50/50
42-7	18.0 (50)	50/50	18.1 (50)	101	50/50	18.4 (49)	102	49/50	17.5 (50)	97	50/50
46-7	18.1 (50)	50/50	18.3 (50)	101	50/50	18.5 (49)	102	49/50	17.7 (50)	98	50/50
50-7	18.2 (50)	50/50	18.3 (50)	101	50/50	18.5 (49)	102	49/50	17.8 (50)	98	50/50
54-7	18.2 (50)	50/50	18.2 (50)	100	50/50	18.8 (48)	103	48/50	18.0 (50)	99	50/50
58-7	18.1 (50)	50/50	18.2 (50)	101	50/50	18.8 (48)	104	48/50	18.0 (50)	99	50/50
62-7	18.3 (50)	50/50	18.3 (50)	100	50/50	18.8 (48)	103	48/50	17.8 (50)	97	50/50
66-7	18.2 (50)	50/50	18.3 (50)	101	50/50	18.7 (48)	103	48/50	18.0 (50)	99	50/50
70-7	18.1 (49)	49/50	18.2 (50)	101	50/50	18.4 (48)	102	48/50	17.7 (49)	98	49/50
74-7	18.0 (49)	49/50	18.3 (50)	102	50/50	18.4 (47)	102	47/50	17.5 (49)	97	49/50
78-7	18.1 (49)	49/50	18.3 (50)	101	50/50	18.0 (46)	99	46/50	17.5 (48)	97	48/50
82-7	17.9 (48)	48/50	18.1 (50)	101	50/50	18.0 (46)	101	46/50	17.3 (48)	97	48/50
86-7	18.0 (47)	47/50	18.0 (49)	100	49/50	18.1 (46)	101	46/50	17.5 (47)	97	47/50
90-7	17.4 (47)	47/50	17.4 (49)	100	49/50	17.3 (45)	99	45/50	16.2 (43)	93	43/50
94-7	17.7 (46)	46/50	17.3 (49)	98	49/50	17.9 (44)	101	44/50	16.8 (41)	95	41/50
98-7	18.0 (42)	42/50	18.0 (47)	100	47/50	17.9 (42)	99	42/50	17.2 (35)	96	35/50
102-7	17.3 (40)	40/50	18.2 (43)	105	43/50	17.2 (39)	99	39/50	17.2 (30)	99	30/50
104-7	17.7 (38)	38/50	17.9 (41)	101	41/50	18.2 (36)	103	36/50	17.5 (28)	99	28/50

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

Av. FC. : g

TABLE E2

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		30ppm		125ppm		500ppm				
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	11. 8 (50)	50/50	12. 0 (50)	102	50/50	12. 1 (50)	103	50/50	11. 4 (50)	97	50/50
2-7	12. 0 (50)	50/50	12. 5 (50)	104	50/50	12. 9 (50)	108	50/50	12. 7 (50)	106	50/50
3-7	12. 2 (50)	50/50	12. 5 (50)	102	50/50	12. 6 (50)	103	50/50	12. 7 (50)	104	50/50
4-7	12. 2 (50)	50/50	11. 9 (50)	98	50/50	12. 9 (50)	106	50/50	12. 3 (50)	101	50/50
5-7	12. 0 (50)	50/50	12. 2 (50)	102	50/50	12. 6 (50)	105	50/50	12. 1 (50)	101	50/50
6-7	11. 8 (50)	50/50	12. 2 (50)	103	50/50	12. 4 (50)	105	50/50	11. 9 (50)	101	50/50
7-7	11. 3 (50)	50/50	11. 6 (50)	103	50/50	11. 8 (50)	104	50/50	11. 3 (50)	100	50/50
8-7	11. 5 (50)	50/50	12. 0 (50)	104	50/50	12. 0 (50)	104	50/50	11. 9 (49)	103	50/50
9-7	11. 4 (50)	50/50	11. 5 (50)	101	50/50	11. 8 (50)	104	50/50	11. 3 (48)	99	50/50
10-7	11. 3 (50)	50/50	11. 6 (50)	103	50/50	12. 1 (50)	107	50/50	11. 6 (50)	103	50/50
11-7	11. 3 (48)	50/50	11. 7 (50)	104	50/50	12. 0 (50)	106	50/50	11. 3 (50)	100	50/50
12-7	11. 4 (50)	50/50	11. 7 (50)	103	50/50	12. 3 (50)	108	50/50	11. 6 (50)	102	50/50
13-7	11. 5 (50)	50/50	11. 8 (50)	103	50/50	12. 2 (49)	106	50/50	11. 8 (49)	103	50/50
14-7	11. 4 (50)	50/50	11. 6 (50)	102	50/50	11. 9 (49)	104	50/50	11. 6 (50)	102	50/50
18-7	11. 2 (50)	50/50	11. 6 (50)	104	50/50	12. 0 (50)	107	50/50	11. 4 (50)	102	50/50
22-7	11. 1 (50)	50/50	11. 7 (50)	105	50/50	12. 1 (50)	109	50/50	11. 1 (50)	100	50/50
26-7	11. 3 (49)	50/50	11. 5 (49)	102	50/50	11. 5 (48)	102	50/50	10. 9 (46)	96	50/50
30-7	11. 8 (50)	50/50	12. 2 (50)	103	50/50	12. 7 (50)	108	50/50	11. 8 (50)	100	50/50
34-7	11. 6 (50)	50/50	12. 3 (50)	106	50/50	12. 5 (50)	108	50/50	12. 4 (50)	107	50/50
38-7	12. 2 (50)	50/50	12. 4 (50)	102	50/50	12. 4 (50)	102	50/50	11. 3 (50)	93	50/50
42-7	12. 1 (50)	50/50	12. 6 (50)	104	50/50	12. 7 (50)	105	50/50	11. 5 (50)	95	50/50
46-7	12. 2 (50)	50/50	12. 8 (50)	105	50/50	13. 2 (50)	108	50/50	12. 1 (50)	99	50/50
50-7	12. 2 (49)	49/50	12. 7 (50)	104	50/50	12. 9 (50)	106	50/50	12. 2 (50)	100	50/50
54-7	12. 4 (49)	49/50	13. 0 (50)	105	50/50	12. 9 (50)	104	50/50	12. 1 (50)	98	50/50
58-7	12. 3 (49)	49/50	12. 6 (50)	102	50/50	13. 0 (50)	106	50/50	12. 2 (50)	99	50/50
62-7	12. 8 (47)	47/50	12. 8 (50)	100	50/50	12. 6 (50)	98	50/50	11. 8 (50)	92	50/50
66-7	12. 9 (47)	47/50	13. 1 (50)	102	50/50	12. 8 (49)	99	49/50	12. 5 (49)	97	49/50
70-7	12. 8 (46)	46/50	13. 2 (50)	103	50/50	13. 1 (49)	102	49/50	12. 2 (49)	95	49/50
74-7	12. 9 (46)	46/50	13. 0 (49)	101	49/50	13. 2 (48)	102	48/50	12. 2 (49)	95	49/50
78-7	12. 9 (46)	46/50	13. 2 (48)	102	48/50	13. 1 (46)	102	46/50	12. 5 (47)	97	47/50
82-7	13. 2 (46)	46/50	13. 3 (46)	101	46/50	13. 3 (45)	101	45/50	12. 4 (47)	94	47/50
86-7	13. 1 (45)	45/50	13. 4 (44)	102	44/50	13. 5 (45)	103	45/50	13. 1 (45)	100	45/50
90-7	12. 6 (44)	44/50	13. 0 (42)	103	42/50	13. 0 (43)	103	43/50	12. 1 (44)	96	44/50
94-7	13. 2 (42)	42/50	13. 4 (41)	102	41/50	14. 0 (43)	106	43/50	12. 6 (42)	95	42/50
98-7	13. 4 (42)	42/50	13. 6 (40)	101	40/50	13. 7 (40)	102	40/50	13. 0 (41)	97	41/50
102-7	13. 1 (40)	40/50	12. 9 (39)	98	39/50	13. 2 (37)	101	37/50	12. 3 (38)	94	38/50
104-7	13. 6 (39)	39/50	13. 6 (38)	100	38/50	14. 3 (37)	105	37/50	12. 8 (37)	94	37/50

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

Av. FC. :g

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7 (7)	week-day(effective) 2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	16.3± 1.4	18.5± 1.7	18.8± 1.7	19.0± 1.7	18.3± 1.3	18.3± 1.6	17.7± 1.5
30ppm	16.1± 1.1	18.3± 1.5	18.8± 1.3	18.6± 1.4	17.9± 1.2	18.1± 1.3	17.7± 1.2
125ppm	16.0± 1.4	18.0± 1.8	18.6± 1.8	18.7± 1.6	18.1± 1.5	18.0± 1.4	17.6± 1.3
500ppm	15.5± 1.3*	17.9± 1.5	18.4± 1.6	18.3± 1.5	17.8± 1.3	17.6± 1.2	17.2± 1.3

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	18.0± 1.4	17.6± 1.3	17.6± 1.3	17.1± 1.2	17.1± 1.2	16.9± 1.2	16.7± 1.0
30ppm	18.1± 1.4	17.6± 1.0	17.6± 1.1	17.2± 1.2	17.3± 1.2	17.2± 1.2	16.9± 1.0
125ppm	17.9± 1.3	17.8± 1.1	17.8± 1.1	17.5± 1.0	17.5± 1.0	17.4± 1.1	16.9± 1.0
500ppm	17.5± 1.4	17.1± 1.2	17.2± 1.2	16.8± 1.2	16.8± 1.2	16.8± 1.2	16.6± 1.2

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

Test of Dunnett

(HAN260)

BAIS 5

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	16.7 ±	1.2	16.7 ±	1.2	17.0 ±	1.3	17.9 ±	1.1	17.6 ±	1.2	17.8 ±	1.1	18.0 ±	1.2				
30ppm	17.0 ±	1.0	17.3 ±	1.2	17.5 ±	1.3	18.2 ±	1.3	18.2 ±	1.2	17.9 ±	1.2	18.1 ±	1.3				
125ppm	16.8 ±	0.9	17.3 ±	1.1*	17.8 ±	1.1*	18.4 ±	1.0	18.3 ±	1.1**	18.1 ±	1.2	18.4 ±	1.1				
500ppm	16.4 ±	1.2	16.9 ±	1.2	16.7 ±	1.2	17.5 ±	1.1	17.8 ±	1.2	17.3 ±	1.2	17.5 ±	1.0				

Test of Dunnett

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 46-7 (7)	week-day (effective) 50-7 (7)	54-7 (7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	18.1 ± 1.2	18.2 ± 1.3	18.2 ± 1.2	18.1 ± 1.3	18.3 ± 1.3	18.2 ± 1.3	18.1 ± 1.0
30ppm	18.3 ± 1.2	18.3 ± 1.1	18.2 ± 1.1	18.2 ± 1.3	18.3 ± 1.4	18.3 ± 1.3	18.2 ± 1.2
125ppm	18.5 ± 1.1	18.5 ± 2.2*	18.8 ± 1.1*	18.8 ± 1.1*	18.8 ± 1.0	18.7 ± 1.0	18.4 ± 1.0
500ppm	17.7 ± 1.1	17.8 ± 1.0	18.0 ± 1.1	18.0 ± 1.2	17.8 ± 1.1	18.0 ± 1.1	17.7 ± 1.2

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 74-7 (7)	week-day (effective) 78-7 (7)	82-7 (7)	86-7 (7)	90-7 (7)	94-7 (7)	98-7 (7)
Control	18.0± 1.3	18.1± 1.1	17.9± 1.2	18.0± 1.1	17.4± 1.3	17.7± 1.5	18.0± 3.1
30ppm	18.3± 1.4	18.3± 1.1	18.1± 1.3	18.0± 1.3	17.4± 1.4	17.3± 2.1	18.0± 2.0
125ppm	18.4± 1.0	18.0± 1.0	18.0± 1.1	18.1± 1.4	17.3± 1.4	17.9± 1.8	17.9± 2.0
500ppm	17.5± 1.1	17.5± 1.2*	17.3± 1.6**	17.5± 1.2	16.2± 2.3**	16.8± 1.5*	17.2± 1.6*

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

Test of Dunnett

(HAN260)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration		week-day (effective)	
	102-7 (7)		104-7 (7)	
Control	17.3±	3.1	17.7±	1.7
30ppm	18.2±	2.6	17.9±	1.8
125ppm	17.2±	2.7	18.2±	2.3
500ppm	17.2±	2.1	17.5±	2.5
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett				
(HAN260)				BAIS 5

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration 1-7 (7)	week-day (effective) 2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	11.8± 0.6	12.0± 0.6	12.2± 0.8	12.2± 0.8	12.0± 0.9	11.8± 0.9	11.3± 1.0
30ppm	12.0± 0.8	12.5± 1.0*	12.5± 1.0	11.9± 2.2	12.2± 0.9	12.2± 1.1	11.6± 0.9
125ppm	12.1± 0.8	12.9± 1.1**	12.6± 1.4	12.9± 1.2*	12.6± 1.1*	12.4± 1.4*	11.8± 1.3
500ppm	11.4± 0.8*	12.7± 1.2**	12.7± 1.2	12.3± 1.3	12.1± 1.6	11.9± 1.5	11.3± 1.1

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

Test of Dunnett

(HAN260)

BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration 8-7 (7)	week-day (effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)	14-7 (7)
Control	11.5± 1.1	11.4± 1.2	11.3± 0.9	11.3± 0.7	11.4± 0.8	11.5± 0.9	11.4± 0.8
30ppm	12.0± 1.0*	11.5± 1.0	11.6± 1.0	11.7± 1.0	11.7± 1.1	11.8± 1.4	11.6± 0.9
125ppm	12.0± 1.0*	11.8± 1.0	12.1± 1.2**	12.0± 1.0**	12.3± 1.1**	12.2± 1.2**	11.9± 1.0**
500ppm	11.9± 1.2	11.3± 1.2	11.6± 1.2	11.3± 1.0	11.6± 1.1	11.8± 1.6	11.6± 1.0

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

Test of Dunnett

(HAN260)

BAIS 5

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	11.2 ± 0.8		11.1 ± 0.7		11.3 ± 0.9		11.8 ± 1.0		11.6 ± 0.8		12.2 ± 1.1		12.1 ± 1.2							
30ppm	11.6 ± 1.1		11.7 ± 0.8**		11.5 ± 1.0		12.2 ± 0.8		12.3 ± 1.2*		12.4 ± 1.6		12.6 ± 1.0*							
125ppm	12.0 ± 1.1**		12.1 ± 1.4**		11.5 ± 0.9		12.7 ± 1.0**		12.5 ± 1.2**		12.4 ± 1.4		12.7 ± 1.1*							
500ppm	11.4 ± 1.7		11.1 ± 0.7		10.9 ± 0.8		11.8 ± 1.1		12.4 ± 1.6*		11.3 ± 1.0**		11.5 ± 0.8**							

Test of Dunnett

BAIS 5

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	12.2 ± 1.2		12.2 ± 1.0		12.4 ± 1.2		12.3 ± 1.4		12.8 ± 1.5		12.9 ± 2.0		12.8 ± 1.2			
30ppm	12.8 ± 1.2		12.7 ± 0.9*		13.0 ± 1.2		12.6 ± 0.9		12.8 ± 1.1		13.1 ± 1.1		13.2 ± 1.3			
125ppm	13.2 ± 1.5**		12.9 ± 1.1**		12.9 ± 1.4		13.0 ± 1.1*		12.6 ± 1.1		12.8 ± 1.4		13.1 ± 1.2			
500ppm	12.1 ± 1.4		12.2 ± 1.4		12.1 ± 1.1		12.2 ± 1.2		11.8 ± 1.0**		12.5 ± 1.0		12.2 ± 0.9**			

Test of Dunnett

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration 74-7 (7)	week-day (effective) 78-7 (7)	82-7 (7)	86-7 (7)	90-7 (7)	94-7 (7)	98-7 (7)
Control	12.9± 1.0	12.9± 1.2	13.2± 1.4	13.1± 1.3	12.6± 2.3	13.2± 1.0	13.4± 1.3
30ppm	13.0± 1.0	13.2± 1.0	13.3± 1.1	13.4± 1.4	13.0± 1.2	13.4± 1.2	13.6± 1.5
125ppm	13.2± 1.2	13.1± 0.9	13.3± 1.2	13.5± 1.9	13.0± 1.1	14.0± 1.6	13.7± 1.7
500ppm	12.2± 1.0**	12.5± 1.1	12.4± 1.0**	13.1± 1.7	12.1± 0.8**	12.6± 1.2*	13.0± 1.2

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

Test of Dunnett

(HAN260)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrI]
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration		week-day (effective)	
	102-7 (7)		104-7 (7)	
Control	13.1 ±	2.2	13.6 ±	2.3
30ppm	12.9 ±	2.5	13.6 ±	1.7
125ppm	13.2 ±	1.2	14.3 ±	1.5
500ppm	12.3 ±	0.9**	12.8 ±	1.9
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett				
(HAN260)				BAIS 5

TABLE F1

URINALYSIS : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	40	0	1	2	3	15	9	10		1	1	5	8	22	3		40	0	0	0	0	0		28	9	1	1	0	1		38	1	0	1	
30ppm	42	0	2	4	9	12	6	9		1	1	5	8	26	1		42	0	0	0	0	0		29	11	2	0	0	0		39	1	0	2	
125ppm	38	0	4	4	2	12	9	7		0	1	2	7	28	0		38	0	0	0	0	0		22	15	1	0	0	0		35	2	0	1	
500ppm	30	0	1	2	5	7	8	7		0	2	1	5	21	1		30	0	0	0	0	0		17	13	0	0	0	0		27	1	1	1	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	40	36	1	0	0	3		39	1	0	0	0	
30ppm	42	38	0	2	0	2		41	1	0	0	0	
125ppm	38	32	1	1	3	1		38	0	0	0	0	
500ppm	30	28	0	1	0	1		29	1	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE F2

URINALYSIS : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	39	0	0	0	2	4	12	21		1	4	15	13	6	0		39	0	0	0	0	0		7	26	6	0	0	0		38	0	1	0	
30ppm	39	0	1	0	1	4	20	13		3	7	10	12	6	1		39	0	0	0	0	0		12	22	5	0	0	0		39	0	0	0	
125ppm	37	0	0	1	2	9	12	13		2	4	10	7	14	0		37	0	0	0	0	0		16	15	6	0	0	0	*	35	0	2	0	
500ppm	37	0	1	0	5	4	10	17		0	6	15	8	7	1		37	0	0	0	0	0		11	24	2	0	0	0		36	0	0	1	

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

Test of CHI SQUARE

(HCL101)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	39	39	0	0	0	0	0	39	0	0	0	0	0
30ppm	39	39	0	0	0	0	0	39	0	0	0	0	0
125ppm	37	34	1	0	1	1	1	36	1	0	0	0	0
500ppm	37	35	0	0	1	1	1	37	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE G1

HEMATOLOGY : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	37	8.09±	0.95	13.7±	1.5	40.8±	3.9	50.7±	2.7	16.9±	0.8	33.4±	0.8	729±	131
30ppm	41	7.52±	1.72	12.4±	2.7	37.8±	6.8	52.0±	10.3	16.8±	2.6	32.5±	1.8*	817±	260
125ppm	35	7.15±	1.54*	11.8±	2.6**	36.0±	6.8**	51.3±	7.2	16.6±	2.1	32.4±	1.6**	807±	246
500ppm	27	6.82±	1.96**	11.2±	3.1**	34.7±	8.2**	53.0±	11.5	16.8±	2.9	31.9±	2.0**	824±	290

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

Test of Dunnett

(HCL070)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
MEASURE TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	37	4.2±	2.9
30ppm	41	6.0±	6.5
125ppm	35	6.2±	3.8*
500ppm	27	7.4±	5.2*

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr(Cr)j [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	37	5.59±	6.38	49±	14	44±	14	4±	1	2±	1	0±	0	1±	1
30ppm	41	6.16±	6.84	50±	14	43±	13	4±	1	1±	1	0±	1	2±	1
125ppm	35	5.97±	9.12	48±	13	44±	12	4±	1	1±	1	0±	1	2±	2*
500ppm	27	6.40±	7.46	47±	15	45±	13	4±	1	1±	1**	0±	1	2±	3*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE G2

HEMATOLOGY : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	39	7.57±	1.40	14.1±	2.3	40.6±	6.0	54.9±	7.9	18.9±	1.9	34.7±	1.2	606±	143
30ppm	36	7.75±	1.24	14.3±	2.0	40.9±	5.2	54.0±	9.2	18.7±	2.4	34.8±	1.1	614±	137
125ppm	37	7.47±	1.26	13.8±	2.1	40.0±	5.3	54.1±	4.8	18.7±	1.8	34.5±	1.6	598±	182
500ppm	37	7.42±	1.78	13.6±	3.2	39.3±	8.2	55.0±	10.5	18.5±	2.4	33.9±	2.9	585±	149

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	39	4.0±	3.9
30ppm	36	2.9±	1.4
125ppm	37	4.3±	4.7
500ppm	37	4.9±	9.4

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

Test of Dunnett

(HCL070)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
MEASURE TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		10 ³ /μl		NEUTRO		LYMPHO									
Control	39	2.61±	3.35	44±	11	49±	11	4±	1	2±	1	0±	1	1±	1
30ppm	36	3.41±	5.83	43±	12	50±	13	4±	1	2±	1	0±	0	1±	1
125ppm	37	8.22±	25.69	40±	15	48±	17	4±	2	2±	1	0±	1	6±	22
500ppm	37	5.32±	11.57	38±	13	55±	14	3±	1	2±	4	0±	1	1±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 5

TABLE H1

BIOCHEMISTRY : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	37	6.7±	0.4	3.1±	0.2	0.9±	0.1	0.13±	0.09	173±	24	174±	51	99±	83
30ppm	41	6.5±	0.4*	2.9±	0.3	0.8±	0.1	0.56±	2.57	164±	29	173±	50	99±	73
125ppm	35	6.6±	0.5	2.9±	0.3	0.8±	0.1	0.20±	0.47	160±	33	174±	36	97±	53
500ppm	27	6.4±	0.3**	2.8±	0.3**	0.8±	0.1	0.52±	1.58	161±	25	147±	26*	81±	53

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	37	245±	79	111±	41	44±	13	169±	54	334±	118	10.0±	6.1	126±	43
30ppm	41	252±	91	142±	139	51±	39	165±	73	409±	186	12.2±	8.3	187±	397
125ppm	35	251±	46	194±	500	55±	108	199±	210	409±	241	12.5±	10.0	152±	117
500ppm	27	221±	32	129±	110	42±	23	184±	104	458±	231	11.3±	5.9	209±	345

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	37	17.0±	2.0	0.34±	0.05	143±	2	3.8±	0.3	105±	2	10.3±	0.3	3.9±	0.4
30ppm	41	18.2±	5.5	0.37±	0.13	143±	2	3.9±	0.3	106±	2	10.3±	0.3	4.1±	0.6
125ppm	35	18.6±	3.2**	0.35±	0.03	142±	1	3.9±	0.4	106±	1	10.3±	0.3	4.1±	0.6
500ppm	27	19.0±	2.9**	0.35±	0.04	142±	1*	4.2±	0.4**	107±	1**	10.2±	0.2	4.3±	0.5**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

TABLE H2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	39	6.8±	0.4	3.7±	0.3	1.2±	0.1	0.37±	1.92	154±	21	149±	25	73±	38
30ppm	38	6.8±	0.6	3.7±	0.4	1.2±	0.1	0.38±	1.98	143±	31	151±	31	64±	39
125ppm	37	6.9±	0.4	3.7±	0.3	1.2±	0.2	0.12±	0.31	153±	22	153±	35	98±	72
500ppm	36	6.8±	0.5	3.6±	0.3	1.1±	0.1	0.20±	0.80	157±	28	156±	35	77±	97

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	39	261±	43	163±	236	61±	76	261±	549	233±	177	2.6±	2.0	114±	56
30ppm	38	264±	72	163±	184	60±	36	210±	184	203±	94	2.8±	2.7	126±	77
125ppm	37	265±	51	138±	96	48±	22	185±	84	201±	121	3.0±	3.2	114±	50
500ppm	36	275±	59	168±	242	58±	69**	284±	754	223±	133	3.0±	2.4	118±	73

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	39	17.4±	3.0	0.30±	0.03	142±	2	3.6±	0.3	104±	2	10.3±	0.3	3.6±	0.8
30ppm	38	17.7±	3.5	0.30±	0.04	142±	2	3.6±	0.3	104±	3	10.3±	0.4	3.8±	0.7
125ppm	37	16.5±	2.2	0.30±	0.04	141±	1	3.7±	0.4	103±	2	10.3±	0.3	3.6±	0.6
500ppm	36	18.7±	6.0	0.31±	0.04	141±	1	3.8±	0.3	104±	2	10.4±	0.4	3.8±	0.7

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS5

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		3	(6)	3	(6)	1	(2)	0	(0)
subcutis	jaundice		5	(10)	2	(4)	0	(0)	4	(8)
	mass		5	(10)	7	(14)	6	(12)	9	(18)
lung	red		1	(2)	0	(0)	1	(2)	0	(0)
	white zone		2	(4)	1	(2)	2	(4)	3	(6)
	red zone		2	(4)	2	(4)	2	(4)	0	(0)
	black zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		2	(4)	2	(4)	2	(4)	3	(6)
	voluminous		0	(0)	0	(0)	0	(0)	2	(4)
lymph node	enlarged		2	(4)	1	(2)	4	(8)	5	(10)
	red		0	(0)	0	(0)	1	(2)	0	(0)
thymus	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
spleen	enlarged		12	(24)	10	(20)	14	(28)	19	(38)
	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	1	(2)	1	(2)
	deformed		1	(2)	1	(2)	0	(0)	1	(2)
heart	white zone		1	(2)	1	(2)	1	(2)	2	(4)
oral cavity	food		1	(2)	0	(0)	1	(2)	1	(2)
tongue	nodule		0	(0)	1	(2)	0	(0)	0	(0)
stomach	gas		1	(2)	0	(0)	0	(0)	0	(0)
	forestomach:ulcer		1	(2)	1	(2)	2	(4)	1	(2)
	glandular stomach:ulcer		0	(0)	0	(0)	1	(2)	0	(0)

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
stomach	glandular stomach:erosion		2	(4)	0	(0)	2	(4)	0	(0)
	glandular stomach:thick		1	(2)	0	(0)	0	(0)	0	(0)
small intes	nodule		1	(2)	0	(0)	2	(4)	0	(0)
large intes	gas		1	(2)	0	(0)	0	(0)	0	(0)
liver	enlarged		4	(8)	2	(4)	5	(10)	5	(10)
	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	red zone		0	(0)	0	(0)	0	(0)	1	(2)
	nodule		3	(6)	2	(4)	4	(8)	1	(2)
	rough		5	(10)	9	(18)	7	(14)	2	(4)
	granular		0	(0)	0	(0)	0	(0)	1	(2)
	herniation		4	(8)	11	(22)	3	(6)	8	(16)
pancreas	nodule		0	(0)	0	(0)	1	(2)	0	(0)
kidney	enlarged		0	(0)	0	(0)	0	(0)	1	(2)
	white zone		0	(0)	1	(2)	2	(4)	1	(2)
	nodule		0	(0)	0	(0)	0	(0)	1	(2)
	granular		4	(8)	3	(6)	2	(4)	1	(2)
urin bladd	urine:marked retention		0	(0)	0	(0)	2	(4)	0	(0)
	urine:red		0	(0)	0	(0)	1	(2)	0	(0)
pituitary	enlarged		6	(12)	2	(4)	8	(16)	2	(4)
	red zone		2	(4)	3	(6)	2	(4)	3	(6)
	nodule		0	(0)	0	(0)	1	(2)	2	(4)
	cyst		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
thyroid	enlarged		4	(8)	5	(10)	2	(4)	4	(8)
	nodule		2	(4)	1	(2)	0	(0)	0	(0)
adrenal	enlarged		4	(8)	0	(0)	1	(2)	2	(4)
testis	nodule		43	(86)	45	(90)	39	(78)	44	(88)
brain	red zone		0	(0)	0	(0)	1	(2)	2	(4)
spinal cord	red zone		1	(2)	1	(2)	0	(0)	1	(2)
	deformed		1	(2)	0	(0)	0	(0)	0	(0)
eye	white		1	(2)	2	(4)	1	(2)	2	(4)
	red		0	(0)	0	(0)	1	(2)	0	(0)
Zymbal gl	nodule		0	(0)	0	(0)	0	(0)	2	(4)
muscle	nodule		0	(0)	0	(0)	0	(0)	1	(2)
bone	nodule		1	(2)	0	(0)	0	(0)	0	(0)
pleura	nodule		0	(0)	1	(2)	0	(0)	1	(2)
	adhesion		0	(0)	0	(0)	1	(2)	0	(0)
mediastinum	mass		0	(0)	1	(2)	0	(0)	0	(0)
peritoneum	nodule		1	(2)	0	(0)	2	(4)	1	(2)
retroperit	cyst		0	(0)	0	(0)	1	(2)	0	(0)
abdominal c	hemorrhage		2	(4)	0	(0)	0	(0)	0	(0)
	ascites		1	(2)	0	(0)	2	(4)	1	(2)
thoracic ca	pleural fluid		3	(6)	4	(8)	2	(4)	8	(16)
other	hindlimb:nodule		0	(0)	0	(0)	1	(2)	1	(2)
whole body	anemic		0	(0)	1	(2)	4	(8)	3	(6)

TABLE I 2

GROSS FINDINGS : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
skin/app	nodule		0	(0)	0	(0)	1	(2)	0	(0)
subcutis	jaundice		1	(2)	2	(4)	2	(4)	0	(0)
	mass		7	(14)	6	(12)	6	(12)	8	(16)
lung	white zone		3	(6)	2	(4)	4	(8)	13	(26)
	red zone		2	(4)	0	(0)	1	(2)	0	(0)
	nodule		1	(2)	0	(0)	1	(2)	1	(2)
lymph node	enlarged		0	(0)	1	(2)	1	(2)	1	(2)
thymus	enlarged		0	(0)	0	(0)	1	(2)	0	(0)
spleen	enlarged		8	(16)	8	(16)	11	(22)	6	(12)
	nodular		0	(0)	0	(0)	0	(0)	1	(2)
heart	white zone		0	(0)	0	(0)	1	(2)	1	(2)
oral cavity	nodule		1	(2)	1	(2)	0	(0)	0	(0)
	food		2	(4)	2	(4)	5	(10)	6	(12)
tongue	white zone		0	(0)	1	(2)	0	(0)	1	(2)
stomach	forestomach:ulcer		2	(4)	2	(4)	0	(0)	1	(2)
	forestomach:erosion		1	(2)	0	(0)	0	(0)	0	(0)
	glandular stomach:ulcer		2	(4)	0	(0)	1	(2)	0	(0)
	glandular stomach:erosion		0	(0)	2	(4)	0	(0)	0	(0)
liver	enlarged		1	(2)	0	(0)	1	(2)	0	(0)
	white zone		1	(2)	0	(0)	3	(6)	2	(4)
	red zone		0	(0)	1	(2)	1	(2)	0	(0)
	nodule		0	(0)	1	(2)	1	(2)	1	(2)

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
liver	rough		3	(6)	4	(8)	4	(8)	2	(4)
	herniation		8	(16)	12	(24)	8	(16)	11	(22)
kidney	white zone		1	(2)	0	(0)	0	(0)	0	(0)
	cyst		0	(0)	0	(0)	1	(2)	0	(0)
urin bladd	urine:marked retention		1	(2)	0	(0)	0	(0)	0	(0)
pituitary	enlarged		5	(10)	9	(18)	6	(12)	9	(18)
	red zone		11	(22)	8	(16)	4	(8)	6	(12)
	black zone		0	(0)	1	(2)	0	(0)	0	(0)
	nodule		2	(4)	1	(2)	1	(2)	0	(0)
	cyst		0	(0)	0	(0)	1	(2)	1	(2)
thyroid	enlarged		2	(4)	0	(0)	4	(8)	4	(8)
	nodule		0	(0)	1	(2)	1	(2)	2	(4)
ovary	cyst		3	(6)	0	(0)	0	(0)	1	(2)
uterus	nodule		7	(14)	3	(6)	2	(4)	2	(4)
	cyst		1	(2)	0	(0)	0	(0)	0	(0)
	dilated lumen		0	(0)	2	(4)	0	(0)	1	(2)
	fluid:red		0	(0)	0	(0)	0	(0)	1	(2)
mammary gl	nodule		1	(2)	0	(0)	2	(4)	2	(4)
prep/cli gl	nodule		1	(2)	0	(0)	0	(0)	0	(0)
brain	red zone		0	(0)	1	(2)	0	(0)	1	(2)
spinal cord	red zone		0	(0)	1	(2)	0	(0)	0	(0)
	brown zone		0	(0)	0	(0)	0	(0)	1	(2)

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control		30ppm		125ppm		500ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
eye	white		3	(6)	3	(6)	3	(6)	3	(6)
muscle	nodule		1	(2)	0	(0)	0	(0)	0	(0)
peritoneum	nodule		1	(2)	1	(2)	0	(0)	0	(0)
retroperit	mass		0	(0)	1	(2)	0	(0)	0	(0)
abdominal c	ascites		1	(2)	0	(0)	0	(0)	1	(2)
adipose	nodule		0	(0)	0	(0)	1	(2)	0	(0)
thoracic ca	pleural fluid		1	(2)	1	(2)	1	(2)	3	(6)
other	lower jaw:nodule		0	(0)	0	(0)	0	(0)	1	(2)
whole body	anemic		1	(2)	0	(0)	2	(4)	2	(4)

(HPT080)

BAIS 5

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	37	377± 37	0.110± 0.204	3.888± 1.439	1.163± 0.102	1.370± 0.169	2.522± 0.223
30ppm	41	372± 30	0.075± 0.015	3.496± 1.358	1.168± 0.105	1.494± 0.383	2.592± 0.231
125ppm	35	371± 30	0.073± 0.011	3.746± 1.275	1.188± 0.093	1.445± 0.226	2.645± 0.190*
500ppm	27	346± 24**	0.073± 0.021	3.618± 1.300	1.196± 0.150	1.511± 0.343	3.067± 2.294*

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

Test of Dunnett

(HCL040)

BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	37	1.447±	1.303	10.419±	1.652	2.074±	0.051
30ppm	41	1.694±	2.069	10.930±	1.599	2.091±	0.039
125ppm	35	1.919±	2.281	11.649±	3.024	2.097±	0.043
500ppm	27	1.979±	2.567	10.945±	1.907	2.063±	0.039

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

Test of Dunnett

(HCL040)

BAIS 5

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	39	246± 30	0.071± 0.010	0.168± 0.109	0.820± 0.057	0.968± 0.225	1.640± 0.104
30ppm	38	242± 33	0.072± 0.016	0.132± 0.030	0.815± 0.093	0.958± 0.227	1.665± 0.118
125ppm	37	257± 21	0.072± 0.012	0.139± 0.025	0.842± 0.066	0.998± 0.181	1.760± 0.137**
500ppm	37	229± 21**	0.066± 0.010	0.129± 0.029	0.813± 0.085	0.979± 0.213	1.726± 0.127**

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

Test of Dunnett

(HCL040)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	39	0.745±	0.854	5.994±	0.979	1.883±	0.035
30ppm	38	0.908±	1.581	6.065±	1.135	1.887±	0.047
125ppm	37	1.098±	1.523	6.721±	1.519	1.896±	0.036
500ppm	37	1.250±	3.126	6.279±	1.289	1.875±	0.041

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

Test of Dunnett

(HCL040)

BAIS 5

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	37	377± 37	0.029± 0.051	1.032± 0.379	0.310± 0.034	0.366± 0.055	0.673± 0.080
30ppm	41	372± 30	0.020± 0.004	0.942± 0.372	0.316± 0.039	0.407± 0.126	0.702± 0.089
125ppm	35	371± 30	0.020± 0.003	1.007± 0.337	0.321± 0.025	0.393± 0.080	0.715± 0.056**
500ppm	27	346± 24**	0.021± 0.007	1.043± 0.353	0.347± 0.046**	0.439± 0.105**	0.900± 0.727**

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	37	0.387± 0.350	2.766± 0.396	0.555± 0.066
30ppm	41	0.469± 0.635	2.961± 0.538	0.566± 0.049
125ppm	35	0.539± 0.714	3.163± 0.963**	0.569± 0.051
500ppm	27	0.579± 0.771	3.173± 0.568**	0.599± 0.039**

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

Test of Dunnett

(HCL042)

BAIS5

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	39	246± 30	0.029± 0.004	0.070± 0.045	0.337± 0.039	0.398± 0.107	0.673± 0.067
30ppm	38	242± 33	0.030± 0.009	0.054± 0.011	0.340± 0.047	0.404± 0.127	0.699± 0.111
125ppm	37	257± 21	0.028± 0.004	0.054± 0.009	0.330± 0.032	0.390± 0.070	0.689± 0.065
500ppm	37	229± 21**	0.029± 0.005	0.057± 0.014	0.358± 0.051	0.433± 0.119*	0.758± 0.074**

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

Test of Dunnett

(HCL042)

BAIS 5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	39	0.315± 0.403	2.437± 0.243	0.776± 0.088
30ppm	38	0.396± 0.770	2.509± 0.346	0.799± 0.166
125ppm	37	0.425± 0.576	2.624± 0.581	0.744± 0.059
500ppm	37	0.584± 1.510	2.766± 0.669**	0.825± 0.068**

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

Test of Dunnett

(HCL042)

BAIS5

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrIj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	1 (2%)	1 (2%)	0 (0%)
	keratoacanthoma		4 (8%)	0 (0%)	1 (2%)	0 (0%)
	squamous cell carcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	trichoepithelioma:malignant		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	basal cell carcinoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		4 (8%)	5 (10%)	3 (6%)	6 (12%)
	lipoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	osteosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	sarcoma:NOS		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Respiratory system)						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		3 (6%)	3 (6%)	3 (6%)	3 (6%)
	bronchiolar-alveolar carcinoma		0 (0%)	2 (4%)	0 (0%)	1 (2%)
(Hematopoietic system)						
spleen			<50>	<50>	<50>	<50>
	mononuclear cell leukemia		8 (16%)	8 (16%)	11 (22%)	14 (28%)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Hematopoietic system)						
spleen	hemangiosarcoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Circulatory system)						
heart	schwannoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)
(Digestive system)						
small intes	adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	leiomyosarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
liver	hepatocellular adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)	<50> 2 (4%)
	Ito-cell tumor:benign		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	hepatocellular carcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
pancreas	islet cell adenoma		<50> 5 (10%)	<50> 6 (12%)	<50> 3 (6%)	<50> 4 (8%)
	islet cell adenocarcinoma		<50> 0 (0%)	<50> 2 (4%)	<50> 4 (8%)	<50> 1 (2%)
(Urinary system)						
kidney	transitional cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Urinary system)						
kidney			<50>	<50>	<50>	<50>
	mesenchymoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)
urin bladd			<50>	<50>	<50>	<50>
	transitional cell papilloma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Endocrine system)						
pituitary			<50>	<50>	<50>	<50>
	adenoma		11 (22%)	5 (10%)	10 (20%)	4 (8%)
thyroid			<50>	<50>	<50>	<50>
	C-cell adenoma		7 (14%)	9 (18%)	4 (8%)	8 (16%)
	follicular adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	C-cell carcinoma		4 (8%)	4 (8%)	2 (4%)	3 (6%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		5 (10%)	4 (8%)	3 (6%)	4 (8%)
	pheochromocytoma:malignant		2 (4%)	0 (0%)	0 (0%)	0 (0%)
	cortical adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Reproductive system)						
testis			<50>	<50>	<50>	<50>
	interstitial cell tumor		43 (86%)	48 (96%)	44 (88%)	48 (96%)
prostate			<50>	<50>	<50>	<50>
	adenoma		3 (6%)	1 (2%)	0 (0%)	2 (4%)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Reproductive system)						
mammary gl			<50>	<50>	<50>	<50>
	fibroadenoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		0 (0%)	1 (2%)	0 (0%)	1 (2%)
(Nervous system)						
brain			<50>	<50>	<50>	<50>
	glioma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
	glioblastoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
(Special sense organs/appendage)						
Harder gl			<50>	<50>	<50>	<50>
	adenocarcinoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
Zymbal gl			<50>	<50>	<50>	<50>
	Zymbal gland tumor:malignant		0 (0%)	0 (0%)	1 (2%)	2 (4%)
(Musculoskeletal system)						
muscle			<50>	<50>	<50>	<50>
	fibroma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
bone			<50>	<50>	<50>	<50>
	osteosarcoma		2 (4%)	0 (0%)	1 (2%)	0 (0%)
vertebra			<50>	<50>	<50>	<50>
	chordoma:malignant		0 (0%)	0 (0%)	0 (0%)	1 (2%)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Body cavities)						
pleura			<50>	<50>	<50>	<50>
	mesothelioma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
peritoneum			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	liposarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	leiomyosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	mesothelioma		0 (0%)	0 (0%)	1 (2%)	1 (2%)

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

(HPT085)

BAIS5

TABLE L2

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Integumentary system/appandage)						
skin/app	basal cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
subcutis	fibroma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	fibrosarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	schwannoma:malignant		0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Respiratory system)						
nasal cavit	adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
lung	bronchiolar-alveolar adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 3 (6%)
(Hematopoietic system)						
spleen	hemangioma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	mononuclear cell leukemia		5 (10%)	8 (16%)	9 (18%)	6 (12%)
(Circulatory system)						
heart	schwannoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Digestive system)						
oral cavity	squamous cell papilloma		<50> 1 (2%)	<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. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Digestive system)						
tooth	squamous cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
stomach	squamous cell papilloma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
liver	hepatocellular adenoma		<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 1 (2%)
pancreas	islet cell adenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)
	islet cell adenocarcinoma		<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)	<50> 0 (0%)
(Urinary system)						
urin bladd	transitional cell papilloma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
(Endocrine system)						
pituitary	adenoma		<50> 8 (16%)	<50> 9 (18%)	<50> 7 (14%)	<50> 9 (18%)
	adenocarcinoma		<50> 1 (2%)	<50> 3 (6%)	<50> 1 (2%)	<50> 3 (6%)
thyroid	C-cell adenoma		<50> 4 (8%)	<50> 3 (6%)	<50> 9 (18%)	<50> 6 (12%)
	follicular adenoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	C-cell carcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 2 (4%)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Endocrine system)						
thyroid	follicular adenocarcinoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
parathyroid	adenoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
adrenal	pheochromocytoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
(Reproductive system)						
uterus	leiomyoma		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	endometrial stromal polyp		10 (20%)	3 (6%)	4 (8%)	6 (12%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	endometrial stromal sarcoma		1 (2%)	1 (2%)	0 (0%)	1 (2%)
mammary gl	fibroadenoma		<50> 6 (12%)	<50> 4 (8%)	<50> 6 (12%)	<50> 9 (18%)
	adenocarcinoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
prep/cli gl	adenoma		<50> 3 (6%)	<50> 0 (0%)	<50> 2 (4%)	<50> 0 (0%)
(Special sense organs/appendage)						
eye	schwannoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 9

Organ	Findings	Group Name No. of animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
(Body cavities)						
peritoneum	leiomyosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
retroperit	neuroendocrine cell tumor:benign		<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
adipose	liposarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)

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

(HPT085)

BA1S5

TABLE M1

NEOPLASTIC LESIONS-INCIDENCE
AND STATISTICAL ANALYSIS : MALE

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	30ppm	125ppm	500ppm
SITE : skin/appendage TUMOR : keratoacanthoma				
Tumor rate				
Overall rates(a)	4/50 (8.0)	0/50 (0.0)	1/50 (2.0)	0/50 (0.0)
Adjusted rates(b)	10.53	0.0	2.78	0.0
Terminal rates(c)	4/38 (10.5)	0/41 (0.0)	1/36 (2.8)	0/28 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9422			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1153			
Fisher Exact test(e)		P = 0.0587	P = 0.1811	P = 0.0587
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	4/50 (8.0)	5/50 (10.0)	3/50 (6.0)	6/50 (12.0)
Adjusted rates(b)	7.89	11.11	8.33	10.71
Terminal rates(c)	3/38 (7.9)	3/41 (7.3)	3/36 (8.3)	3/28 (10.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0264*			
Prevalence method(d)	P = 0.4523			
Combined analysis(d)	P = 0.1269			
Cochran-Armitage test(e)	P = 0.4746			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3703
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50 (6.0)	3/50 (6.0)	3/50 (6.0)	3/50 (6.0)
Adjusted rates(b)	7.89	6.00	8.33	7.69
Terminal rates(c)	3/38 (7.9)	2/41 (4.9)	3/36 (8.3)	2/28 (7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4185			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 1.0000			
Fisher Exact test(e)		P = 0.6611	P = 0.6611	P = 0.6611

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	30ppm	125ppm	500ppm
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50 (6.0)	5/50 (10.0)	3/50 (6.0)	4/50 (8.0)
Adjusted rates(b)	7.89	10.00	8.33	9.52
Terminal rates(c)	3/38 (7.9)	3/41 (7.3)	3/36 (8.3)	2/28 (7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4474			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9263			
Fisher Exact test(e)		P = 0.3575	P = 0.6611	P = 0.5000
SITE : spleen				
TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	8/50 (16.0)	8/50 (16.0)	11/50 (22.0)	14/50 (28.0)
Adjusted rates(b)	7.89	12.20	13.89	10.71
Terminal rates(c)	3/38 (7.9)	5/41 (12.2)	5/36 (13.9)	3/28 (10.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0050**			
Prevalence method(d)	P = 0.4434			
Combined analysis(d)	P = 0.0146*			
Cochran-Armitage test(e)	P = 0.0951			
Fisher Exact test(e)		P = 0.6071	P = 0.3055	P = 0.1135
SITE : pancreas				
TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	5/50 (10.0)	6/50 (12.0)	3/50 (6.0)	4/50 (8.0)
Adjusted rates(b)	13.16	12.20	7.69	11.76
Terminal rates(c)	5/38 (13.2)	5/41 (12.2)	2/36 (5.6)	2/28 (7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5741			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6270			
Fisher Exact test(e)		P = 0.5000	P = 0.3575	P = 0.5000

STUDY No. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	30ppm	125ppm	500ppm
SITE : pancreas TUMOR : islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	0/50 (0.0)	2/50 (4.0)	4/50 (8.0)	1/50 (2.0)
Adjusted rates(b)	0.0	2.17	11.11	3.57
Terminal rates(c)	0/38 (0.0)	0/41 (0.0)	4/36 (11.1)	1/28 (3.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4698			
Prevalence method(d)	P = 0.3174			
Combined analysis(d)	P = 0.4173			
Cochran-Armitage test(e)	P = 0.8679			
Fisher Exact test(e)		P = 0.2475	P = 0.0587	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	5/50 (10.0)	8/50 (16.0)	7/50 (14.0)	5/50 (10.0)
Adjusted rates(b)	13.16	14.29	17.95	14.71
Terminal rates(c)	5/38 (13.2)	5/41 (12.2)	6/36 (16.7)	3/28 (10.7)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4698			
Prevalence method(d)	P = 0.5004			
Combined analysis(d)	P = 0.5545			
Cochran-Armitage test(e)	P = 0.6080			
Fisher Exact test(e)		P = 0.2768	P = 0.3798	P = 0.6297
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	11/50 (22.0)	5/50 (10.0)	10/50 (20.0)	4/50 (8.0)
Adjusted rates(b)	24.39	9.09	19.57	14.29
Terminal rates(c)	8/38 (21.1)	3/41 (7.3)	7/36 (19.4)	4/28 (14.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7852			
Prevalence method(d)	P = 0.8447			
Combined analysis(d)	P = 0.8970			
Cochran-Armitage test(e)	P = 0.1333			
Fisher Exact test(e)		P = 0.0857	P = 0.5000	P = 0.0453*

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	30ppm	125ppm	500ppm
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	7/50 (14.0)	9/50 (18.0)	4/50 (8.0)	8/50 (16.0)
Adjusted rates(b)	16.28	18.00	11.11	21.43
Terminal rates(c)	4/38 (10.5)	7/41 (17.1)	4/36 (11.1)	6/28 (21.4)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4004			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8501			
Fisher Exact test(e)		P = 0.3929	P = 0.2623	P = 0.5000
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	4/50 (8.0)	4/50 (8.0)	2/50 (4.0)	3/50 (6.0)
Adjusted rates(b)	7.89	9.76	5.56	8.57
Terminal rates(c)	3/38 (7.9)	4/41 (9.8)	2/36 (5.6)	2/28 (7.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.3942			
Combined analysis(d)	P = 0.4860			
Cochran-Armitage test(e)	P = 0.7099			
Fisher Exact test(e)		P = 0.6425	P = 0.3389	P = 0.5000
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	11/50 (22.0)	13/50 (26.0)	6/50 (12.0)	10/50 (20.0)
Adjusted rates(b)	23.26	26.83	16.67	25.00
Terminal rates(c)	7/38 (18.4)	11/41 (26.8)	6/36 (16.7)	7/28 (25.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.5053			
Combined analysis(d)	P = 0.5599			
Cochran-Armitage test(e)	P = 0.7164			
Fisher Exact test(e)		P = 0.4076	P = 0.1434	P = 0.5000

STUDY No. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	30ppm	125ppm	500ppm
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates (a)	5/50 (10.0)	4/50 (8.0)	3/50 (6.0)	4/50 (8.0)
Adjusted rates (b)	13.16	9.76	7.89	8.33
Terminal rates (c)	5/38 (13.2)	4/41 (9.8)	2/36 (5.6)	1/28 (3.6)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.4733			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.8703			
Fisher Exact test (e)		P = 0.5000	P = 0.3575	P = 0.5000
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates (a)	7/50 (14.0)	4/50 (8.0)	3/50 (6.0)	4/50 (8.0)
Adjusted rates (b)	15.79	9.76	7.89	8.33
Terminal rates (c)	6/38 (15.8)	4/41 (9.8)	2/36 (5.6)	1/28 (3.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 1.0000 ?			
Prevalence method (d)	P = 0.5483			
Combined analysis (d)	P = 0.6278			
Cochran-Armitage test (e)	P = 0.5753			
Fisher Exact test (e)		P = 0.2623	P = 0.1589	P = 0.2623
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates (a)	43/50 (86.0)	48/50 (96.0)	44/50 (88.0)	48/50 (96.0)
Adjusted rates (b)	94.74	97.78	94.74	97.96
Terminal rates (c)	36/38 (94.7)	40/41 (97.6)	34/36 (94.4)	27/28 (96.4)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0316*			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.2160			
Fisher Exact test (e)		P = 0.0798	P = 0.5000	P = 0.0798

STUDY No. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	30ppm	125ppm	500ppm
SITE : prostate TUMOR : adenoma				
Tumor rate				
Overall rates (a)	3/50 (6.0)	1/50 (2.0)	0/50 (0.0)	2/50 (4.0)
Adjusted rates (b)	7.89	2.44	0.0	7.14
Terminal rates (c)	3/38 (7.9)	1/41 (2.4)	0/36 (0.0)	2/28 (7.1)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.3047			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.9214			
Fisher Exact test (e)		P = 0.3087	P = 0.1212	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 M2

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

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	30ppm	125ppm	500ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates (a)	2/50 (4.0)	0/50 (0.0)	1/50 (2.0)	3/50 (6.0)
Adjusted rates (b)	5.13	0.0	2.70	6.52
Terminal rates (c)	2/39 (5.1)	0/38 (0.0)	1/37 (2.7)	2/37 (5.4)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.1080			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.1820			
Fisher Exact test (e)		P = 0.2475	P = 0.5000	P = 0.5000
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates (a)	5/50 (10.0)	8/50 (16.0)	9/50 (18.0)	6/50 (12.0)
Adjusted rates (b)	5.13	7.89	10.81	10.81
Terminal rates (c)	2/39 (5.1)	3/38 (7.9)	4/37 (10.8)	4/37 (10.8)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8073			
Prevalence method (d)	P = 0.2304			
Combined analysis (d)	P = 0.5595			
Cochran-Armitage test (e)	P = 0.8222			
Fisher Exact test (e)		P = 0.2768	P = 0.1940	P = 0.5000
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates (a)	8/50 (16.0)	9/50 (18.0)	7/50 (14.0)	9/50 (18.0)
Adjusted rates (b)	20.51	15.79	18.92	17.07
Terminal rates (c)	8/39 (20.5)	6/38 (15.8)	7/37 (18.9)	6/37 (16.2)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.2694			
Prevalence method (d)	P = 0.4853			
Combined analysis (d)	P = 0.3896			
Cochran-Armitage test (e)	P = 0.8178			
Fisher Exact test (e)		P = 0.5000	P = 0.5000	P = 0.5000

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	30ppm	125ppm	500ppm
SITE : pituitary gland TUMOR : adenocarcinoma				
Tumor rate				
Overall rates (a)	1/50 (2.0)	3/50 (6.0)	1/50 (2.0)	3/50 (6.0)
Adjusted rates (b)	0.0	5.26	2.70	5.41
Terminal rates (c)	0/39 (0.0)	2/38 (5.3)	1/37 (2.7)	2/37 (5.4)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.4143			
Prevalence method (d)	P = 0.1957			
Combined analysis (d)	P = 0.2250			
Cochran-Armitage test (e)	P = 0.4639			
Fisher Exact test (e)		P = 0.3087	P = 0.7525	P = 0.3087
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	3/50 (6.0)	9/50 (18.0)	6/50 (12.0)
Adjusted rates (b)	10.26	7.89	23.08	16.22
Terminal rates (c)	4/39 (10.3)	3/38 (7.9)	8/37 (21.6)	6/37 (16.2)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.2134			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.4879			
Fisher Exact test (e)		P = 0.5000	P = 0.1168	P = 0.3703
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates (a)	4/50 (8.0)	3/50 (6.0)	11/50 (22.0)	8/50 (16.0)
Adjusted rates (b)	10.26	7.89	28.21	21.62
Terminal rates (c)	4/39 (10.3)	3/38 (7.9)	10/37 (27.0)	8/37 (21.6)
Statistical analysis				
Peto test				
Standard method (d)	P = -----			
Prevalence method (d)	P = 0.0855			
Combined analysis (d)	P = -----			
Cochran-Armitage test (e)	P = 0.2032			
Fisher Exact test (e)		P = 0.5000	P = 0.0453*	P = 0.1783

STUDY No. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	30ppm	125ppm	500ppm
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates (a)	10/50 (20.0)	3/50 (6.0)	4/50 (8.0)	6/50 (12.0)
Adjusted rates (b)	20.93	7.89	10.26	13.16
Terminal rates (c)	8/39 (20.5)	3/38 (7.9)	3/37 (8.1)	4/37 (10.8)
Statistical analysis				
Peto test				
Standard method (d)	P = 1.0000 ?			
Prevalence method (d)	P = 0.4998			
Combined analysis (d)	P = 0.5703			
Cochran-Armitage test (e)	P = 0.8448			
Fisher Exact test (e)		P = 0.0357*	P = 0.0739	P = 0.2070
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates (a)	6/50 (12.0)	4/50 (8.0)	6/50 (12.0)	9/50 (18.0)
Adjusted rates (b)	10.26	10.53	11.11	21.62
Terminal rates (c)	4/39 (10.3)	4/38 (10.5)	4/37 (10.8)	8/37 (21.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8542			
Prevalence method (d)	P = 0.0349*			
Combined analysis (d)	P = 0.0918			
Cochran-Armitage test (e)	P = 0.1715			
Fisher Exact test (e)		P = 0.3703	P = 0.6202	P = 0.2883
SITE : mammary gland TUMOR : fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates (a)	6/50 (12.0)	4/50 (8.0)	6/50 (12.0)	9/50 (18.0)
Adjusted rates (b)	10.26	10.53	11.11	21.62
Terminal rates (c)	4/39 (10.3)	4/38 (10.5)	4/37 (10.8)	8/37 (21.6)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.8542			
Prevalence method (d)	P = 0.0349*			
Combined analysis (d)	P = 0.0918			
Cochran-Armitage test (e)	P = 0.1715			
Fisher Exact test (e)		P = 0.3703	P = 0.6202	P = 0.2883

STUDY No. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	30ppm	125ppm	500ppm
SITE : preputial/clitoral gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50 (6.0)	0/50 (0.0)	2/50 (4.0)	0/50 (0.0)
Adjusted rates(b)	7.32	0.0	2.70	0.0
Terminal rates(c)	2/39 (5.1)	0/38 (0.0)	1/37 (2.7)	0/37 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3357			
Prevalence method(d)	P = 0.9231			
Combined analysis(d)	P = 0.9060			
Cochran-Armitage test(e)	P = 0.1967			
Fisher Exact test(e)		P = 0.1212	P = 0.5000	P = 0.1212

(HPT360A)

BA1S5

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

TABLE N1

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

TABLE N 1 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN
JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Subcutis Fibroma	649	75	11.6	6 - 16
Spleen Mononuclear cell leukemia	649	61	9.4	4 - 14
Testis Interstitial cell tumor	649	531	81.8	72 - 98

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

Study No. : 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794, 0800, 0816, 0831

TABLE N2

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

TABLE N 2 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN
JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j FEMALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Mammary gland Fibroadenoma	650	75	11.5	6 - 20
Thyroid C-cell adenoma+C-cell carcinoma	650	84	12.9	2 - 26

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

Study No. : 0560, 0610, 0667, 0675, 0686, 0704, 0731, 0753, 0774, 0794, 0800, 0816, 0831

TABLE O1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<50>				<50>				<50>				<50>			
	scar		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)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	thrombus		4	1	0	0	4	0	0	0	3	0	0	0	6	3	0	0
			(8)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(12)	(6)	(0)	(0)
	deposit of pigment		0	0	0	0	41	0	0	0 **	47	0	0	0 **	48	0	0	0 **
			(0)	(0)	(0)	(0)	(82)	(0)	(0)	(0)	(94)	(0)	(0)	(0)	(96)	(0)	(0)	(0)
	mineralization		29	0	0	0	23	0	0	0	26	0	0	0	27	0	0	0
			(58)	(0)	(0)	(0)	(46)	(0)	(0)	(0)	(52)	(0)	(0)	(0)	(54)	(0)	(0)	(0)
	goblet cell hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	eosinophilic change:olfactory epithelium		34	11	2	0	40	7	0	0	35	8	0	0	38	2	0	0 **
			(68)	(22)	(4)	(0)	(80)	(14)	(0)	(0)	(70)	(16)	(0)	(0)	(76)	(4)	(0)	(0)
	eosinophilic change:respiratory epithelium		5	0	0	0	3	0	0	0	5	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(10)	(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. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit																		
	inflammation:foreign body		16 (32)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	7 (14)	2 (4)	0 (0)	0 * (0)
	inflammation:respiratory epithelium		9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	3 (6)	0 (0)	0 (0)	16 (32)	2 (4)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)
	inflammation:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		6 (12)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		39 (78)	0 (0)	0 (0)	0 (0)	41 (82)	0 (0)	0 (0)	0 (0)	41 (82)	0 (0)	0 (0)	0 (0)	38 (76)	0 (0)	0 (0)	0 (0)
	basal cell hyperplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 * (0)
	squamous cell metaplasia:respiratory epithelium		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	13 (26)	3 (6)	0 (0)	0 ** (0)
	ulcer:respiratory epithelium		0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	regeneration:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(18)	(0)	(0)	(0)
	atrophy:olfactory epithelium		6	0	0	0	35	1	0	0 **	40	0	0	0 **	38	10	0	0 **
			(12)	(0)	(0)	(0)	(70)	(2)	(0)	(0)	(80)	(0)	(0)	(0)	(76)	(20)	(0)	(0)
	necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
nasopharynx			<50>				<50>				<50>				<50>			
	inflammation:foreign body		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx			<50>				<50>				<50>				<50>			
	ulcer		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)
	inflammation		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)
	inflammation:foreign body		2	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : 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. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
lung	congestion		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage		1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	edema		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
	granulation		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		4 (8)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	interstitial pneumonia		0 (0)	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)
	bronchiolar-alveolar cell hyperplasia		2 (4)	2 (4)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
lung			<50>				<50>				<50>				<50>			
	thickening:alveolar wall		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)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	granulation		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)
	increased hematopoiesis		3	2	0	0	8	5	0	0	10	9	0	0 **	12	7	0	0 **
			(6)	(4)	(0)	(0)	(16)	(10)	(0)	(0)	(20)	(18)	(0)	(0)	(24)	(14)	(0)	(0)
lymph node			<50>				<50>				<50>				<50>			
	lymphadenitis		0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(2)	(0)	(0)	(0)
spleen			<50>				<50>				<50>				<50>			
	atrophy		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)
	congestion		3	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0
			(6)	(0)	(0)	(0)	(6)	(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. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 6

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	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)	1 (2)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	atrophy:focal		3 (6)	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)
	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)
	fibrosis:focal		1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)
	proliferation:histiocyte		0 (0)	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)
	extramedullary hematopoiesis		9 (18)	1 (2)	1 (2)	0 (0)	13 (26)	2 (4)	1 (2)	0 (0)	10 (20)	1 (2)	0 (0)	0 (0)	11 (22)	5 (10)	2 (4)	0 (0)
	follicular 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 b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 7

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Circulatory system)																			
heart	thrombus		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	4 (8)	1 (2)	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)	1 (2)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		17 (34)	1 (2)	0 (0)	0 (0)	9 (18)	2 (4)	0 (0)	0 (0)	11 (22)	1 (2)	0 (0)	0 (0)	16 (32)	3 (6)	0 (0)	0 (0)	0 (0)
	endocardial hyperplasia		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)
	hyperplasia:Schwann cell		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

(Digestive system)

tongue	squamous cell hyperplasia		<50>				<50>				<50>				<50>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : 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. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
stomach	ulcer:forestomach		<50>				<50>				<50>				<50>			
		1 (2)	1 (2)	1 (2)	0 (0)	2 (4)	2 (4)	1 (2)	0 (0)	4 (8)	0 (0)	1 (2)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	
	hyperplasia:forestomach		3 (6)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	4 (8)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation: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)
			5 (10)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
stomach	ulcer:glandular stomach		2 (4)	1 (2)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)
			2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:glandular stomach		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			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)
	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
large intes	ulcer		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : 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. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 9

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm				
		No. of Animals on Study	50				50				50				50				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Digestive system)																			
liver	herniation		5 (10)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)
	necrosis:central		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)	0 (0)	2 (4)	1 (2)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	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)	0 (0)
	inflammatory cell nest		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)
	clear 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)	1 (2)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		16 (32)	2 (4)	0 (0)	0 (0)	14 (28)	9 (18)	3 (6)	0 * (0)	11 (22)	6 (12)	4 (8)	0 (0)	9 (18)	3 (6)	2 (4)	0 (0)	0 (0)
	basophilic cell focus		5 (10)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 10

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	spongiosis hepatis		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	bile duct hyperplasia		49 (98)	0 (0)	0 (0)	0 (0)	48 (96)	1 (2)	0 (0)	0 (0)	43 (86)	2 (4)	0 (0)	0 (0)	47 (94)	1 (2)	0 (0)	0 (0)
	cholangiofibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change		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)	1 (2)	0 (0)	0 (0)
	vacuolic change:peripheral		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
pancreas			<50>				<50>				<50>				<50>			
	atrophy		7 (14)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		3 (6)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	necrosis:focal		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)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney	inflammatory infiltration		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	scar	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
		fatty metamorphosis	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)
	chronic nephropathy		27 (54)	12 (24)	4 (8)	1 (2)	28 (56)	10 (20)	6 (12)	2 (4)	24 (48)	15 (30)	4 (8)	0 (0)	29 (58)	6 (12)	2 (4)	0 (0)
		tubular necrosis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	mineralization:cortico-medullary junction		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
urothelial hyperplasia:pelvis		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urin bladd	dilatation		<50>				<50>				<50>				<50>		
0 (0)			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 12

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
urin bladd			<50>				<50>				<50>				<50>			
	ulcer		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)
	hemorrhage		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)
	papillary and/or nodular 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)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	hyperplasia		10 (20)	7 (14)	0 (0)	0 (0)	6 (12)	6 (12)	2 (4)	0 (0)	5 (10)	7 (14)	4 (8)	0 (0)	9 (18)	4 (8)	3 (6)	0 (0)
	Rathke pouch		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)
thyroid			<50>				<50>				<50>				<50>			
	follicular hyperplasia		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)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 13

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
thyroid			<50>				<50>				<50>				<50>			
	C-cell hyperplasia		10 (20)	2 (4)	0 (0)	0 (0)	6 (12)	2 (4)	1 (2)	0 (0)	9 (18)	4 (8)	1 (2)	0 (0)	10 (20)	1 (2)	0 (0)	0 (0)
parathyroid			<50>				<50>				<50>				<50>			
	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)
adrenal			<50>				<50>				<50>				<50>			
	ectopic tissue		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:cortical cell		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	1 (2)	2 (4)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla		3 (6)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	1 (2)	0 (0)
	accessory cortical nodule		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	focal fatty change:cortex		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)

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

(HPT150)

BAIS5

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 14

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
testis	mineralization		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	interstitial cell hyperplasia	2 (4)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
semin ves	inflammation		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
prostate	inflammation		<50>				<50>				<50>				<50>			
		5 (10)	1 (2)	0 (0)	0 (0)	6 (12)	2 (4)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia	4 (8)	0 (0)	0 (0)	0 (0)	9 (18)	3 (6)	0 (0)	0 (0)	4 (8)	4 (8)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	0 (0)
(Nervous system)																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	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. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Nervous system)																		
brain	gliosis		<50>				<50>				<50>				<50>			
			0	0	0	0	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)
spinal cord	atrophy		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Special sense organs/appendage)																		
eye	cataract		<50>				<50>				<50>				<50>			
			1	0	0	0	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)
	retinal atrophy		1	0	1	0	1	1	0	0	1	1	1	0	0	1	1	0
			(2)	(0)	(2)	(0)	(2)	(2)	(0)	(0)	(2)	(2)	(2)	(0)	(0)	(2)	(2)	(0)
	keratitis		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	iritis		0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 16

		Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
{Special sense organs/appendage}																		
Harder gl			<50>				<50>				<50>				<50>			
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	hyperplasia		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)
{Musculoskeletal system}																		
muscle			<50>				<50>				<50>				<50>			
	atrophy		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)
	inflammatory infiltration		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)	
bone			<50>				<50>				<50>				<50>			
	osteosclerosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)
{Body cavities}																		
pleura			<50>				<50>				<50>				<50>			
	mesothelial 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 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Body cavities}

peritoneum	lymphocytic infiltration	<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BAIS5

TABLE O2

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 18

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	congestion		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)
	thrombus		3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)
	deposit of pigment		0 (0)	0 (0)	0 (0)	0 (0)	43 (86)	0 (0)	0 (0)	0 (0)	0 ** (0)	45 (90)	0 (0)	0 (0)	0 (0)	0 ** (100)	0 (0)	0 (0)
	mineralization		9 (18)	0 (0)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0)	17 (34)	0 (0)	0 (0)
	goblet cell hyperplasia		4 (8)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		11 (22)	32 (64)	4 (8)	0 (0)	11 (22)	37 (74)	1 (2)	0 (0)	0 (0)	24 (48)	24 (48)	0 (0)	0 * (0)	45 (90)	3 (6)	0 (0)
	eosinophilic change:respiratory epithelium		9 (18)	0 (0)	1 (2)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 ** (0)
	inflammation:foreign body		4 (8)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				30ppm 50				125ppm 50				500ppm 50			
		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>				<50>			
	inflammation:respiratory epithelium	9 (18)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	8 (16)	1 (2)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	45 (90)	1 (2)	0 (0)	0 (0)	45 (90)	4 (8)	0 (0)	0 (0)	41 (82)	5 (10)	0 (0)	0 (0)	39 (78)	6 (12)	0 (0)	0 (0)	39 (78)	6 (12)	0 (0)	0 (0)
	basal cell hyperplasia:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 (0)	14 (28)	0 (0)	0 (0)	0 ** (0)
	squamous cell metaplasia:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 * (0)	8 (16)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 ** (0)
	ulcer:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regeneration: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)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium	9 (18)	0 (0)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)	0 ** (0)	22 (44)	0 (0)	0 (0)	0 ** (0)	20 (40)	29 (58)	0 (0)	0 ** (0)	20 (40)	29 (58)	0 (0)	0 ** (0)

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 20

Organ	Findings	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit	necrosis:olfactory epithelium		<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)	
nasopharynx	goblet cell hyperplasia		<50>				<50>				<50>				<50>			
		6	0	0	0	11	0	0	0	5	0	0	0	2	0	0	0	
			(12)	(0)	(0)	(0)	(22)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	inflammation:foreign body		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	
larynx	ulcer		<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		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	inflammation:foreign body		1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
lung	congestion		<50>				<50>				<50>				<50>			
		2	0	0	0	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)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : 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. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
lung			<50>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	edema		2	0	0	0	2	0	0	0	4	0	0	0	6	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	inflammatory infiltration		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)
	granulation		0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	accumulation of foamy cells		13	1	0	0	8	2	0	0	10	0	0	0	18	0	0	0
			(26)	(2)	(0)	(0)	(16)	(4)	(0)	(0)	(20)	(0)	(0)	(0)	(36)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	1	0	0	1	1	0	0	1	0	0	0	0	1	0	0
			(2)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	granulation		3	1	0	0	3	0	0	0	2	2	0	0	3	2	0	0
			(6)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(6)	(4)	(0)	(0)

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

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

b b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
bone marrow	increased hematopoiesis		<50>				<50>				<50>				<50>			
		8 (16)	2 (4)	0 (0)	0 (0)	4 (8)	2 (4)	0 (0)	0 (0)	6 (12)	4 (8)	0 (0)	0 (0)	9 (18)	1 (2)	0 (0)	0 (0)	
	myelofibrosis		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)	
lymph node	lymphadenitis		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
spleen	vacuolic change		<50>				<50>				<50>				<50>			
		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	deposit of hemosiderin		9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	15 (30)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		17 (34)	11 (22)	4 (8)	0 (0)	21 (42)	7 (14)	1 (2)	0 (0)	19 (38)	10 (20)	3 (6)	0 (0)	24 (48)	5 (10)	2 (4)	0 (0)
(Circulatory system)																		
heart	thrombus		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	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. : 0849
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 23

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	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)	1 (2)	0 (0)	0 (0)
	myocardial fibrosis		5 (10)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
(Digestive system)																		
oral cavity			<50>				<50>				<50>				<50>			
	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)	1 (2)	0 (0)	0 (0)
tooth			<50>				<50>				<50>				<50>			
	inflammation		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)
tongue			<50>				<50>				<50>				<50>			
	squamous cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
stomach			<50>				<50>				<50>				<50>			
	ulcer:forestomach		1 (2)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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. : 0849
ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
stomach			<50>				<50>				<50>				<50>			
	hyperplasia:forestomach		2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach		2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	ulcer:glandular stomach		1 (2)	1 (2)	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)
small intes			<50>				<50>				<50>				<50>			
	dilatation		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver			<50>				<50>				<50>				<50>			
	herniation		9 (18)	0 (0)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)
	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)
	necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	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. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 25

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver			<50>				<50>				<50>				<50>			
	necrosis:focal		3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	3 (6)	0 (0)	0 (0)
	inflammatory cell nest		8 (16)	0 (0)	1 (2)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	2 (4)	0 (0)	5 (10)	2 (4)	1 (2)	0 (0)
	extramedullary hematopoiesis		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		3 (6)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	2 (4)	0 (0)
	basophilic cell focus		12 (24)	10 (20)	0 (0)	0 (0)	17 (34)	2 (4)	0 (0)	0 (0)	20 (40)	5 (10)	0 (0)	0 (0)	19 (38)	4 (8)	0 (0)	0 (0)
	bile duct hyperplasia		1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	focal fatty change		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	vacuolic change:peripheral		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 26

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
pancreas			<50>				<50>				<50>				<50>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	islet cell hyperplasia		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney			<50>				<50>				<50>				<50>			
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	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)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	chronic nephropathy		9 (18)	0 (0)	2 (4)	0 (0)	13 (26)	1 (2)	3 (6)	0 (0)	15 (30)	2 (4)	2 (4)	0 (0)	12 (24)	2 (4)	2 (4)	0 (0)
	mineralization:cortico-medullary junction		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 27

		Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
(Urinary system)																		
kidney	mineralization:pelvis		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilated pelvis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd	dilatation		<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	papillary and/or nodular hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Endocrine system)																		
pituitary	angiectasis		<50>				<50>				<50>				<50>			
		4	1	0	0	1	0	0	0	2	0	0	0	3	0	0	0	
		(8)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	cyst	5	0	0	0	5	0	0	0	8	0	0	0	9	0	0	0	
		(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(18)	(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. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 28

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
pituitary			<50>				<50>				<50>				<50>			
	hyperplasia		10 (20)	3 (6)	0 (0)	0 (0)	5 (10)	1 (2)	4 (8)	0 (0)	9 (18)	3 (6)	1 (2)	0 (0)	6 (12)	4 (8)	1 (2)	0 (0)
	aberrant craniopharyngeal tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	
thyroid			<50>				<50>				<50>				<50>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	ultimobranchial body remanet		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	C-cell hyperplasia		8 (16)	1 (2)	2 (4)	0 (0)	7 (14)	5 (10)	0 (0)	0 (0)	8 (16)	4 (8)	1 (2)	0 (0)	6 (12)	2 (4)	0 (0)	
adrenal			<50>				<50>				<50>				<50>			
	angiectasis		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	
	extramedullary hematopoiesis		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)	

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : 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. : 0849
 ANIMAL : RAT F344/DuCrj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 29

Organ_____	Findings_____	Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Endocrine system)																		
adrenal		<50>				<50>				<50>				<50>				
	hyperplasia:cortical cell	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	
	hyperplasia:medulla	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)	
	focal fatty change:cortex	5 (10)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	
(Reproductive system)																		
ovary		<50>				<50>				<50>				<50>				
	cyst	3 (6)	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)	
uterus		<50>				<50>				<50>				<50>				
	stromal 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)	
	cystic endometrial hyperplasia	1 (2)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	4 (8)	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

(HPT150)

BAIS5

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 30

		Group Name	Control				30ppm				125ppm				500ppm			
		No. of Animals on Study	50				50				50				50			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
mammary gl			<50>				<50>				<50>				<50>			
	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
(Nervous system)																		
spinal cord			<50>				<50>				<50>				<50>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
(Special sense organs/appendage)																		
eye			<50>				<50>				<50>				<50>			
	cataract		3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)
	retinal atrophy		1 (2)	1 (2)	1 (2)	0 (0)	2 (4)	1 (2)	1 (2)	0 (0)	1 (2)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)
Harder gl			<50>				<50>				<50>				<50>			
	degeneration:focal		2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 31

Organ	Findings	Group Name No. of Animals on Study Grade	Control				30ppm				125ppm				500ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																		
Harder gl	inflammatory infiltration		<50>				<50>				<50>				<50>			
			4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(8)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Musculoskeletal system)																		
bone	osteosclerosis		<50>				<50>				<50>				<50>			
			6	3	2	0	3	2	0	0	3	3	0	0	6	1	2	0
			(12)	(6)	(4)	(0)	(6)	(4)	(0)	(0)	(6)	(6)	(0)	(0)	(12)	(2)	(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

(HPT150)

BAIS5

TABLE P1

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

MALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Group Name No. of Animals on Study		Control 50	30ppm 50	125ppm 50	500ppm 50
Organ	Findings				
(Respiratory system)					
nasal cavit		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	1
lung		<50>	<50>	<50>	<50>
	leukemic cell infiltration	8	6	8	13
	metastasis:adrenal tumor	1	0	0	0
	metastasis:peritoneum tumor	1	0	1	0
	metastasis:bone tumor	1	0	0	0
	metastasis:mammary gland tumor	0	0	0	1
	metastasis:vertebra tumor	0	0	0	1
	metastasis:skin/appendage tumor	0	0	1	0
	metastasis:pleura tumor	0	1	0	0
(Hematopoietic system)					
bone marrow		<50>	<50>	<50>	<50>
	leukemic cell infiltration	6	5	4	11
lymph node		<50>	<50>	<50>	<50>
	leukemic cell infiltration	4	1	6	8
	metastasis:peritoneum tumor	1	0	0	0
	metastasis:mammary gland tumor	0	0	0	1
	metastasis:Zymbal gland tumor	0	0	1	0
	metastasis:skin/appendage tumor	0	0	1	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Group Name No. of Animals on Study		Control 50	30ppm 50	125ppm 50	500ppm 50
Organ	Findings				
(Hematopoietic system)					
thymus	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
spleen	metastasis:peritoneum tumor	<50> 0	<50> 0	<50> 1	<50> 0
(Circulatory system)					
heart	leukemic cell infiltration	<50> 1	<50> 2	<50> 1	<50> 2
	metastasis:vertebra tumor	0	0	0	1
(Digestive system)					
tongue	metastasis:skin/appendage tumor	<50> 0	<50> 0	<50> 1	<50> 0
small intes	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:peritoneum tumor	1	0	0	0
large intes	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
liver	leukemic cell infiltration	<50> 7	<50> 5	<50> 7	<50> 9
	metastasis:peritoneum tumor	1	0	1	0
	metastasis:mammary gland tumor	0	0	0	1
pancreas	leukemic cell infiltration	<50> 0	<50> 0	<50> 3	<50> 1
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrIj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Group Name No. of Animals on Study		Control 50	30ppm 50	125ppm 50	500ppm 50
Organ	Findings				
(Digestive system)					
pancreas	metastasis:peritoneum tumor	<50> 1	<50> 0	<50> 1	<50> 0
	metastasis:mammary gland tumor	0	0	0	1
	metastasis:pleura tumor	0	1	0	0
(Urinary system)					
kidney	leukemic cell infiltration	<50> 2	<50> 2	<50> 2	<50> 4
	metastasis:peritoneum tumor	0	0	1	0
	metastasis:mammary gland tumor	0	0	0	1
	metastasis:skin/appendage tumor	0	0	1	0
urin bladd	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
(Endocrine system)					
pituitary	leukemic cell infiltration	<50> 0	<50> 1	<50> 0	<50> 0
adrenal	leukemic cell infiltration	<50> 1	<50> 1	<50> 2	<50> 0
	metastasis:skin/appendage tumor	0	0	1	0
(Nervous system)					
brain	leukemic cell infiltration	<50> 1	<50> 1	<50> 1	<50> 3

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

STUDY NO. : 0849
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 4

		Group Name	Control	30ppm	125ppm	500ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
(Nervous system)						
brain	metastasis:mammary gland tumor		<50> 0	<50> 0	<50> 0	<50> 1
spinal cord	leukemic cell infiltration		<50> 1	<50> 2	<50> 0	<50> 2
(Special sense organs/appendage)						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 2
(Body cavities)						
pleura	metastasis:mammary gland tumor		<50> 0	<50> 0	<50> 0	<50> 1
mediastinum	metastasis:pleura 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)

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TABLE P2

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR :

FEMALE

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 5

Group Name No. of Animals on Study		Control 50	30ppm 50	125ppm 50	500ppm 50
Organ	Findings				
(Respiratory system)					
nasal cavit		<50>	<50>	<50>	<50>
	leukemic cell infiltration	0	1	0	0
lung		<50>	<50>	<50>	<50>
	leukemic cell infiltration	5	8	8	3
(Hematopoietic system)					
bone marrow		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	5	4	0
lymph node		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	2	4	1
	metastasis:thyroid tumor	0	0	0	1
(Circulatory system)					
heart		<50>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	0	1
(Digestive system)					
stomach		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	0
liver		<50>	<50>	<50>	<50>
	leukemic cell infiltration	5	7	8	4
pancreas		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	1	0
(Urinary system)					
kidney		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	2	1	1

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

STUDY NO. : 0849
 ANIMAL : RAT F344/DuCrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

		Group Name No. of Animals on Study	Control 50	30ppm 50	125ppm 50	500ppm 50
Organ	Findings					
(Urinary system)						
urin bladd	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
(Endocrine system)						
pituitary	leukemic cell infiltration		<50> 0	<50> 0	<50> 1	<50> 0
adrenal	leukemic cell infiltration		<50> 1	<50> 0	<50> 1	<50> 0
(Nervous system)						
brain	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 1
	metastasis:pituitary tumor		0	2	0	1
spinal cord	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 1
(Special sense organs/appendage)						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 1
(Body cavities)						
peritoneum	leukemic cell infiltration		<50> 0	<50> 1	<50> 0	<50> 0
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : MALE

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

PAGE : 1

Group Name	Control	30ppm	125ppm	500ppm
Number of Dead and Moribund Animal	12	9	14	22
no microscop confirm	0	2	1	0
urinary sy les	0	0	1	0
pneumonia	0	0	0	1
urinary retention	0	0	1	0
deglutition disorder	1	0	1	1
tumor d:leukemia	5	3	6	11
tumor d:skin/app	0	0	1	0
tumor d:subcutis	1	0	0	4
tumor d:small intes	0	0	1	0
tumor d:pancreas	0	1	0	0
tumor d:pituitary	1	1	1	0
tumor d:thyroid	1	0	0	0
tumor d:adrenal	1	0	0	1
tumor d:mammary gl	0	0	0	1
tumor d:prep/cli gl	0	1	0	0
tumor d:brain	0	0	0	1
tumor d:Zymbal gl	0	0	0	2
tumor d:bone	1	0	0	0
tumor d:pleura	0	1	0	0
tumor d:peritoneum	1	0	1	0

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TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0849
ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]
SEX : FEMALE

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

PAGE : 2

Group Name	Control	30ppm	125ppm	500ppm
Number of Dead and Moribund Animal	11	12	13	13
no microscop confirm	0	1	1	0
cardiovascular les	0	0	0	1
deglutition disorder	2	1	5	5
tumor d:leukemia	3	5	5	2
tumor d:subcutis	0	1	0	1
tumor d:tooth	0	0	0	1
tumor d:pituitary	1	4	0	3
tumor d:uterus	2	0	0	0
tumor d:mammary gl	2	0	1	0
tumor d:prep/cli gl	0	0	1	0
tumor d:peritoneum	1	0	0	0

(B10120)

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