

メタクリル酸 = 2,3-エポキシプロピルのマウスを用いた
吸入による13週間毒性試験報告書

試験番号：0771

TABLES

TABLES

TABLE A CONCENTRATIONS OF 2,3-EPOXYPROPYL METHACRYLATE IN
THE INHALATION CHAMBER OF THE 13-WEEK INHALATION
STUDY

TABLE B 1 SURVIVAL ANIMAL NUMBERS: MALE

TABLE B 2 SURVIVAL ANIMAL NUMBERS: FEMALE

TABLE C 1 CLINICAL OBSERVATION: MALE

TABLE C 2 CLINICAL OBSERVATION: FEMALE

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

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

TABLE D 3 BODY WEIGHT CHANGES: MALE

TABLE D 4 BODY WEIGHT CHANGES: FEMALE

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

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

TABLE E 3 FOOD CONSUMPTION CHANGES: MALE

TABLE E 4 FOOD CONSUMPTION CHANGES: FEMALE

TABLE F 1 HEMATOLOGY: MALE

TABLE F 2 HEMATOLOGY: FEMALE

TABLE G 1 BIOCHEMISTRY: MALE

TABLE G 2 BIOCHEMISTRY: FEMALE

TABLES (CONTINUED)

TABLE H 1 URINALYSIS: MALE

TABLE H 2 URINALYSIS: FEMALE

TABLE I 1 GROSS FINDINGS: MALE

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: NON-NEOPLASTIC LESIONS
: MALETABLE L 2 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS
: FEMALE

TABLE A

**CONCENTRATIONS OF 2,3-EPOXYPROPYL METHACRYLATE
IN THE INHALATION CHAMBER
OF THE 13-WEEK INHALATION STUDY**

CONCENTRATIONS OF 2,3-EPOXYPROPYL METHACRYLATE IN THE
INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm)
	Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
1 ppm	1.1 $\pm$ 0.1
2 ppm	2.0 $\pm$ 0.1
5 ppm	5.0 $\pm$ 0.1
10 ppm	10.1 $\pm$ 0.3
20 ppm	19.8 $\pm$ 0.3

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 13
 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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
1ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
2ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
5ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
20ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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(%)															

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1 13
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
1ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
2ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
5ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
10ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
20ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
Number of survival/ Number of effective animals Survival rate(%)															

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 13

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
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	1ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	2ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	5ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	20ppm	10	10	10	10	10	10	10	10	10	10	10	10	10

(HAN190)

BAIS 4

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 2

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
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	1ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	2ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	5ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	20ppm	10	10	10	10	10	10	10	10	10	10	10	10	10

(HAN190)

BAIS 4

TABLE D1

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		1ppm			2ppm			5ppm			10ppm			20ppm		
	Av. Wt.	No. of Surviv. <10>	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	23.2 (10)	10/10	23.2 (10)	100	10/10	23.2 (10)	100	10/10	23.2 (10)	100	10/10	23.2 (10)	100	10/10	23.2 (10)	100	10/10
1-7	24.5 (10)	10/10	24.9 (10)	102	10/10	24.7 (10)	101	10/10	24.7 (10)	101	10/10	24.4 (10)	100	10/10	24.1 (10)	98	10/10
2-7	25.6 (10)	10/10	25.8 (10)	101	10/10	25.3 (10)	99	10/10	25.8 (10)	101	10/10	25.3 (10)	99	10/10	25.0 (10)	98	10/10
3-7	26.2 (10)	10/10	26.1 (10)	100	10/10	25.5 (10)	97	10/10	25.8 (10)	98	10/10	25.7 (10)	98	10/10	25.1 (10)	96	10/10
4-7	26.7 (10)	10/10	26.4 (10)	99	10/10	25.7 (10)	96	10/10	26.2 (10)	98	10/10	26.1 (10)	98	10/10	25.5 (10)	96	10/10
5-7	27.4 (10)	10/10	27.2 (10)	99	10/10	26.5 (10)	97	10/10	26.9 (10)	98	10/10	26.5 (10)	97	10/10	25.8 (10)	94	10/10
6-7	28.3 (10)	10/10	27.9 (10)	99	10/10	26.9 (10)	95	10/10	27.4 (10)	97	10/10	26.7 (10)	94	10/10	26.6 (10)	94	10/10
7-7	29.0 (10)	10/10	28.3 (10)	98	10/10	27.5 (10)	95	10/10	27.9 (10)	96	10/10	27.3 (10)	94	10/10	26.5 (10)	91	10/10
8-7	29.5 (10)	10/10	28.9 (10)	98	10/10	27.8 (10)	94	10/10	28.3 (10)	96	10/10	27.6 (10)	94	10/10	27.1 (10)	92	10/10
9-7	29.9 (10)	10/10	29.6 (10)	99	10/10	28.3 (10)	95	10/10	29.0 (10)	97	10/10	28.2 (10)	94	10/10	27.3 (10)	91	10/10
10-7	30.7 (10)	10/10	30.2 (10)	98	10/10	28.7 (10)	93	10/10	29.7 (10)	97	10/10	28.7 (10)	93	10/10	27.5 (10)	90	10/10
11-7	31.3 (10)	10/10	30.9 (10)	99	10/10	29.3 (10)	94	10/10	29.9 (10)	96	10/10	29.0 (10)	93	10/10	27.7 (10)	88	10/10
12-7	32.0 (10)	10/10	31.4 (10)	98	10/10	29.8 (10)	93	10/10	30.8 (10)	96	10/10	29.1 (10)	91	10/10	28.1 (10)	88	10/10
13-7	32.5 (10)	10/10	31.9 (10)	98	10/10	30.4 (10)	94	10/10	31.3 (10)	96	10/10	29.9 (10)	92	10/10	28.4 (10)	87	10/10

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

(BI0040)

BAIS 4

TABLE D2

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		1ppm		2ppm		5ppm		10ppm		20ppm						
	Av. Wt.	No. of Surviv. <10>	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	19.2 (10)	10/10	19.3 (10)	101	10/10	19.2 (10)	100	10/10	19.2 (10)	100	10/10	19.3 (10)	101	10/10	19.2 (10)	100	10/10
1-7	20.0 (10)	10/10	20.1 (10)	101	10/10	19.7 (10)	99	10/10	20.0 (10)	100	10/10	19.9 (10)	100	10/10	19.5 (10)	98	10/10
2-7	21.1 (10)	10/10	21.1 (10)	100	10/10	21.0 (10)	100	10/10	21.0 (10)	100	10/10	20.9 (10)	99	10/10	20.5 (10)	97	10/10
3-7	21.6 (10)	10/10	21.4 (10)	99	10/10	21.5 (10)	100	10/10	21.6 (10)	100	10/10	20.8 (10)	96	10/10	20.8 (10)	96	10/10
4-7	22.3 (10)	10/10	22.4 (10)	100	10/10	22.2 (10)	100	10/10	22.5 (10)	101	10/10	21.4 (10)	96	10/10	21.4 (10)	96	10/10
5-7	23.2 (10)	10/10	22.5 (10)	97	10/10	22.7 (10)	98	10/10	22.9 (10)	99	10/10	22.1 (10)	95	10/10	22.1 (10)	95	10/10
6-7	24.6 (10)	10/10	23.4 (10)	95	10/10	23.5 (10)	96	10/10	23.7 (10)	96	10/10	22.6 (10)	92	10/10	22.9 (10)	93	10/10
7-7	24.3 (10)	10/10	24.0 (10)	99	10/10	24.0 (10)	99	10/10	24.6 (10)	101	10/10	23.5 (10)	97	10/10	23.8 (10)	98	10/10
8-7	24.5 (10)	10/10	24.1 (10)	98	10/10	24.1 (10)	98	10/10	24.8 (10)	101	10/10	23.8 (10)	97	10/10	23.6 (10)	96	10/10
9-7	24.8 (10)	10/10	24.2 (10)	98	10/10	24.2 (10)	98	10/10	24.8 (10)	100	10/10	23.8 (10)	96	10/10	23.7 (10)	96	10/10
10-7	25.3 (10)	10/10	24.7 (10)	98	10/10	24.5 (10)	97	10/10	25.2 (10)	100	10/10	24.5 (10)	97	10/10	24.0 (10)	95	10/10
11-7	25.7 (10)	10/10	24.9 (10)	97	10/10	24.9 (10)	97	10/10	25.5 (10)	99	10/10	24.6 (10)	96	10/10	24.2 (10)	94	10/10
12-7	26.1 (10)	10/10	25.7 (10)	98	10/10	25.1 (10)	96	10/10	26.4 (10)	101	10/10	25.0 (10)	96	10/10	24.6 (10)	94	10/10
13-7	26.5 (10)	10/10	25.4 (10)	96	10/10	25.6 (10)	97	10/10	26.3 (10)	99	10/10	25.1 (10)	95	10/10	25.0 (10)	94	10/10
< >:No. of effective animals, ():No. of measured animals																	
Av. Wt.: g																	

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

Av. Wt. : g

(B10040)

BATS 4

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day						
	0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	23.2± 0.7	24.5± 0.7	25.6± 0.7	26.2± 0.7	26.7± 0.7	27.4± 0.8	28.3± 0.8
1ppm	23.2± 0.7	24.9± 1.0	25.8± 1.0	26.1± 1.0	26.4± 1.0	27.2± 1.1	27.9± 1.2
2ppm	23.2± 0.7	24.7± 0.8	25.3± 1.2	25.5± 1.4	25.7± 1.4	26.5± 1.5	26.9± 1.6*
5ppm	23.2± 0.7	24.7± 0.7	25.8± 0.7	25.8± 0.9	26.2± 0.9	26.9± 0.9	27.4± 0.9
10ppm	23.2± 0.7	24.4± 0.8	25.3± 0.7	25.7± 0.9	26.1± 1.1	26.5± 1.2	26.7± 1.4*
20ppm	23.2± 0.7	24.1± 1.0	25.0± 1.1	25.1± 0.9	25.5± 1.0	25.8± 1.0*	26.6± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day						
	7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	29.0± 1.0	29.5± 1.0	29.9± 1.1	30.7± 1.3	31.3± 1.3	32.0± 1.7	32.5± 1.7
1ppm	28.3± 1.1	28.9± 1.4	29.6± 1.3	30.2± 1.6	30.9± 1.7	31.4± 1.9	31.9± 2.1
2ppm	27.5± 1.6*	27.8± 1.7*	28.3± 1.7*	28.7± 1.7*	29.3± 2.0*	29.8± 2.1*	30.4± 2.6
5ppm	27.9± 0.8	28.3± 0.9	29.0± 0.9	29.7± 1.2	29.9± 1.1	30.8± 1.3	31.3± 1.5
10ppm	27.3± 1.2**	27.6± 1.5**	28.2± 1.4*	28.7± 1.9*	29.0± 2.0**	29.1± 1.8**	29.9± 1.7*
20ppm	26.5± 1.0**	27.1± 1.0**	27.3± 1.1**	27.5± 1.2**	27.7± 1.5**	28.1± 1.3**	28.4± 1.2**

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

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BAIS 4

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day						
	0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	19.2± 0.7	20.0± 0.7	21.1± 0.9	21.6± 0.6	22.3± 1.0	23.2± 0.7	24.6± 0.9
1ppm	19.3± 0.7	20.1± 0.9	21.1± 0.6	21.4± 0.9	22.4± 0.8	22.5± 0.7	23.4± 0.9*
2ppm	19.2± 0.7	19.7± 1.1	21.0± 0.8	21.5± 0.7	22.2± 0.7	22.7± 0.9	23.5± 0.9*
5ppm	19.2± 0.7	20.0± 1.0	21.0± 0.9	21.6± 1.0	22.5± 0.8	22.9± 0.9	23.7± 0.9
10ppm	19.3± 0.7	19.9± 0.7	20.9± 0.9	20.8± 0.8	21.4± 0.8	22.1± 0.8*	22.6± 0.8**
20ppm	19.2± 0.7	19.5± 0.7	20.5± 1.2	20.8± 0.6	21.4± 0.7*	22.1± 1.0*	22.9± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day						
	7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	24.3± 0.8	24.5± 0.9	24.8± 1.4	25.3± 0.8	25.7± 1.3	26.1± 1.2	26.5± 1.0
1ppm	24.0± 0.9	24.1± 0.6	24.2± 0.8	24.7± 1.1	24.9± 0.7	25.7± 1.4	25.4± 1.2
2ppm	24.0± 0.8	24.1± 0.8	24.2± 0.8	24.5± 0.9	24.9± 0.8	25.1± 1.0	25.6± 1.4
5ppm	24.6± 1.0	24.8± 0.9	24.8± 1.2	25.2± 1.1	25.5± 0.9	26.4± 1.1	26.3± 1.1
10ppm	23.5± 1.1	23.8± 0.8	23.8± 1.1	24.5± 1.2	24.6± 0.9*	25.0± 0.8	25.1± 1.8
20ppm	23.8± 1.3	23.6± 0.5*	23.7± 1.2	24.0± 0.7*	24.2± 0.9**	24.6± 0.8**	25.0± 1.3

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E1

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			1ppm			2ppm			5ppm			10ppm			20ppm		
	Av. FC.	No. of Surviv. <10>		Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	4.4 (10)	10/10		4.6 (10)	105	10/10	4.6 (10)	105	10/10	4.6 (10)	105	10/10	4.3 (10)	98	10/10	4.4 (10)	100	10/10
2-7	4.6 (10)	10/10		4.5 (10)	98	10/10	4.5 (10)	98	10/10	4.7 (10)	102	10/10	4.2 (10)	91	10/10	4.3 (10)	93	10/10
3-7	4.7 (10)	10/10		4.7 (10)	100	10/10	4.6 (10)	98	10/10	4.6 (9)	98	10/10	4.4 (10)	94	10/10	4.1 (10)	87	10/10
4-7	4.8 (10)	10/10		5.1 (8)	106	10/10	4.8 (10)	100	10/10	5.0 (10)	104	10/10	4.5 (10)	94	10/10	4.2 (10)	88	10/10
5-7	4.8 (10)	10/10		4.8 (10)	100	10/10	4.9 (10)	102	10/10	4.8 (10)	100	10/10	4.5 (10)	94	10/10	4.3 (10)	90	10/10
6-7	5.0 (10)	10/10		5.0 (10)	100	10/10	5.1 (10)	102	10/10	4.9 (10)	98	10/10	4.5 (10)	90	10/10	4.4 (10)	88	10/10
7-7	4.9 (10)	10/10		4.6 (10)	94	10/10	4.7 (10)	96	10/10	4.7 (10)	96	10/10	4.4 (10)	90	10/10	4.3 (10)	88	10/10
8-7	4.7 (10)	10/10		4.7 (10)	100	10/10	4.8 (10)	102	10/10	4.8 (10)	102	10/10	4.4 (10)	94	10/10	4.3 (10)	91	10/10
9-7	4.8 (10)	10/10		4.8 (10)	100	10/10	4.8 (10)	100	10/10	4.8 (10)	100	10/10	4.5 (10)	94	10/10	4.3 (10)	90	10/10
10-7	4.9 (10)	10/10		4.8 (10)	98	10/10	4.9 (10)	100	10/10	4.9 (10)	100	10/10	4.5 (10)	92	10/10	4.3 (10)	88	10/10
11-7	4.8 (10)	10/10		4.9 (10)	102	10/10	4.9 (10)	102	10/10	4.8 (10)	100	10/10	4.4 (10)	92	10/10	4.2 (10)	88	10/10
12-7	5.0 (10)	10/10		5.0 (10)	100	10/10	5.0 (10)	100	10/10	5.0 (10)	100	10/10	4.5 (10)	90	10/10	4.3 (10)	86	10/10
13-7	4.8 (10)	10/10		4.9 (10)	102	10/10	4.9 (10)	102	10/10	5.0 (10)	104	10/10	4.6 (10)	96	10/10	4.3 (10)	90	10/10
< >:No. of effective animals, ():No. of measured animals																		
Av. FC. : g																		

(BI0040)

BAIS 4

TABLE E2

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			1ppm			2ppm			5ppm			10ppm			20ppm		
	Av. FC.	No. of Surviv. <10>		Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	3.8 (10)	10/10		3.8 (10)	100	10/10	3.7 (10)	97	10/10	3.7 (10)	97	10/10	3.7 (10)	97	10/10	3.5 (10)	92	10/10
2-7	4.4 (10)	10/10		4.2 (10)	95	10/10	4.2 (10)	95	10/10	4.2 (10)	95	10/10	3.9 (10)	89	10/10	3.9 (10)	89	10/10
3-7	4.6 (10)	10/10		4.4 (10)	96	10/10	4.5 (10)	98	10/10	4.5 (10)	98	10/10	3.9 (10)	85	10/10	4.2 (10)	91	10/10
4-7	5.0 (10)	10/10		4.6 (10)	92	10/10	4.7 (10)	94	10/10	4.7 (10)	94	10/10	4.3 (10)	86	10/10	4.5 (10)	90	10/10
5-7	5.2 (10)	10/10		4.6 (10)	88	10/10	4.8 (10)	92	10/10	4.8 (10)	92	10/10	4.4 (10)	85	10/10	4.6 (10)	88	10/10
6-7	5.3 (10)	10/10		5.0 (10)	94	10/10	5.2 (10)	98	10/10	5.2 (10)	98	10/10	4.7 (10)	89	10/10	4.7 (10)	89	10/10
7-7	5.4 (10)	10/10		4.8 (10)	89	10/10	5.0 (10)	93	10/10	5.1 (10)	94	10/10	4.5 (10)	83	10/10	4.7 (10)	87	10/10
8-7	5.1 (10)	10/10		4.7 (10)	92	10/10	4.9 (10)	96	10/10	5.0 (10)	98	10/10	4.5 (10)	88	10/10	4.5 (10)	88	10/10
9-7	5.1 (10)	10/10		4.7 (10)	92	10/10	4.8 (10)	94	10/10	5.0 (10)	98	10/10	4.5 (10)	88	10/10	4.4 (10)	86	10/10
10-7	5.1 (10)	10/10		4.7 (10)	92	10/10	4.9 (10)	96	10/10	5.2 (10)	102	10/10	4.7 (10)	92	10/10	4.5 (10)	88	10/10
11-7	5.2 (10)	10/10		4.7 (10)	90	10/10	5.0 (10)	96	10/10	5.0 (10)	96	10/10	4.4 (10)	85	10/10	4.4 (10)	85	10/10
12-7	5.3 (10)	10/10		4.9 (10)	92	10/10	5.0 (10)	94	10/10	5.3 (10)	100	10/10	4.6 (10)	87	10/10	4.5 (10)	85	10/10
13-7	5.3 (10)	10/10		4.7 (10)	89	10/10	5.0 (10)	94	10/10	5.3 (10)	100	10/10	4.6 (10)	87	10/10	4.4 (10)	83	10/10

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

(BI0040)

BATS 4

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)		3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
	1-7(7)	2-7(7)					
Control	4.4± 0.2	4.6± 0.2	4.7± 0.2	4.8± 0.3	4.8± 0.3	5.0± 0.2	4.9± 0.3
1ppm	4.6± 0.2	4.5± 0.4	4.7± 0.4	5.1± 0.7	4.8± 0.4	5.0± 0.4	4.6± 0.3
2ppm	4.6± 0.3	4.5± 0.4	4.6± 0.3	4.8± 0.2	4.9± 0.2	5.1± 0.2	4.7± 0.2
5ppm	4.6± 0.2	4.7± 0.1	4.6± 0.2	5.0± 0.8	4.8± 0.3	4.9± 0.2	4.7± 0.2
10ppm	4.3± 0.2	4.2± 0.2*	4.4± 0.3	4.5± 0.3	4.5± 0.2	4.5± 0.3**	4.4± 0.3**
20ppm	4.4± 0.4	4.3± 0.3*	4.1± 0.3**	4.2± 0.3**	4.3± 0.2**	4.4± 0.3**	4.3± 0.4**

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

Test of Dunnett

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration week-day(effective)					
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
Control	4.7± 0.1	4.8± 0.2	4.9± 0.2	4.8± 0.2	5.0± 0.3	4.8± 0.2
1ppm	4.7± 0.3	4.8± 0.3	4.8± 0.3	4.9± 0.3	5.0± 0.4	4.9± 0.4
2ppm	4.8± 0.2	4.8± 0.1	4.9± 0.2	4.9± 0.3	5.0± 0.3	4.9± 0.3
5ppm	4.8± 0.2	4.8± 0.2	4.9± 0.2	4.8± 0.1	5.0± 0.2	5.0± 0.4
10ppm	4.4± 0.2*	4.5± 0.3*	4.5± 0.3**	4.4± 0.3**	4.5± 0.2**	4.6± 0.3
20ppm	4.3± 0.4**	4.3± 0.2**	4.3± 0.3**	4.2± 0.3**	4.3± 0.2**	4.3± 0.3**

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

Test of Dunnett

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.8± 0.3	4.4± 0.4	4.6± 0.2	5.0± 0.4	5.2± 0.2	5.3± 0.6	5.4± 0.4
1ppm	3.8± 0.2	4.2± 0.1	4.4± 0.2	4.6± 0.2	4.6± 0.2**	5.0± 0.1	4.8± 0.2**
2ppm	3.7± 0.4	4.2± 0.3	4.5± 0.3	4.7± 0.3	4.8± 0.4*	5.2± 0.4	5.0± 0.4*
5ppm	3.7± 0.3	4.2± 0.2	4.5± 0.3	4.7± 0.2	4.8± 0.3	5.2± 0.3	5.1± 0.3
10ppm	3.7± 0.3	3.9± 0.3**	3.9± 0.3**	4.3± 0.3**	4.4± 0.3**	4.7± 0.3**	4.5± 0.3**
20ppm	3.5± 0.3	3.9± 0.3**	4.2± 0.5**	4.5± 0.3**	4.6± 0.4**	4.7± 0.4**	4.7± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)					
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
Control	5.1± 0.2	5.1± 0.3	5.1± 0.3	5.2± 0.4	5.3± 0.4	5.3± 0.5
1ppm	4.7± 0.2*	4.7± 0.2*	4.7± 0.2	4.7± 0.2*	4.9± 0.2	4.7± 0.2*
2ppm	4.9± 0.4	4.8± 0.4	4.9± 0.4	5.0± 0.4	5.0± 0.4	5.0± 0.5
5ppm	5.0± 0.4	5.0± 0.4	5.2± 0.5	5.0± 0.5	5.3± 0.3	5.3± 0.7
10ppm	4.5± 0.2**	4.5± 0.3**	4.7± 0.4*	4.4± 0.2**	4.6± 0.5**	4.6± 0.3**
20ppm	4.5± 0.4**	4.4± 0.3**	4.5± 0.2**	4.4± 0.3**	4.5± 0.3**	4.4± 0.3**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0771
 ANIMAL : MOUSE BGD2F1/Cr1j[Crj:BDF1]
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

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	10	11.38±	0.28	16.4±	0.3	51.2±	0.7	45.0±	0.7	14.4±	0.1	31.9±	0.4	1198±	101
1ppm	10	11.14±	0.33	16.2±	0.4	50.5±	1.2	45.4±	0.5	14.6±	0.4	32.1±	0.8	1199±	113
2ppm	10	11.40±	0.40	16.5±	0.5	51.6±	1.8	45.3±	0.5	14.5±	0.3	32.0±	0.6	1193±	91
5ppm	10	11.15±	0.36	16.2±	0.4	50.5±	1.3	45.4±	0.8	14.5±	0.4	32.0±	0.9	1189±	106
10ppm	10	11.30±	0.36	16.4±	0.5	51.2±	1.2	45.4±	0.5	14.5±	0.3	32.0±	0.7	1238±	115
20ppm	10	10.96±	0.49	15.9±	0.4	49.7±	2.1	45.4±	0.7	14.5±	0.4	32.1±	0.8	1196±	130

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	10	2.1±	0.2
1ppm	10	2.1±	0.1
2ppm	10	2.1±	0.2
5ppm	10	2.2±	0.2
10ppm	10	2.3±	0.2
20ppm	10	2.4±	0.1**

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	2.21±	1.07	15±	4	80±	5	2±	1	2±	1	0±	0	1±	1
1ppm	10	2.56±	1.68	14±	5	80±	5	2±	2	2±	1	0±	0	1±	1
2ppm	10	2.57±	1.75	15±	2	79±	2	2±	1	3±	1	0±	0	1±	1
5ppm	10	2.36±	1.43	14±	4	81±	4	2±	1	2±	1	0±	0	1±	1
10ppm	10	2.41±	1.35	14±	3	81±	4	2±	0	2±	1	0±	1	1±	1
20ppm	10	2.23±	1.28	17±	8	77±	9	2±	1	3±	2	1±	1	2±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

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	10	11.41±	0.31	16.9±	0.4	51.8±	1.3	45.4±	0.5	14.8±	0.3	32.7±	0.6	1094±	76
1ppm	10	11.24±	0.21	16.6±	0.1	51.0±	0.9	45.4±	0.5	14.8±	0.3	32.5±	0.6	1126±	115
2ppm	10	11.40±	0.26	16.7±	0.3	52.0±	1.1	45.6±	0.7	14.7±	0.3	32.2±	0.5	1124±	101
5ppm	10	11.15±	0.33	16.5±	0.5	50.7±	1.6	45.5±	0.7	14.8±	0.3	32.5±	1.0	1140±	89
10ppm	10	11.22±	0.47	16.5±	0.5	50.6±	2.1	45.1±	0.4	14.7±	0.2	32.6±	0.6	1069±	92
20ppm	10	11.10±	0.37	16.3±	0.5*	50.6±	1.8	45.6±	0.7	14.7±	0.2	32.2±	0.2	1070±	112

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	10	2.3±	0.5
1ppm	10	2.1±	0.4
2ppm	10	2.1±	0.6
5ppm	10	2.0±	0.5
10ppm	10	2.3±	0.5
20ppm	10	2.5±	0.7

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	2.48±	1.47	16±	5	80±	5	1±	1	2±	1	0±	1	1±	1
1ppm	10	1.19±	0.90	20±	7	75±	8	2±	1	2±	1	1±	1	2±	1
2ppm	10	1.61±	0.80	22±	7	74±	8	2±	2	1±	1	1±	1	1±	1
5ppm	10	1.80±	1.29	21±	15	75±	17	2±	1	2±	1	0±	0	1±	1
10ppm	10	1.98±	1.35	20±	7	76±	8	2±	1	1±	1	0±	1	1±	2
20ppm	10	1.62±	1.14	19±	5	77±	6	2±	1	2±	1	1±	1	1±	1

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

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	10	5.2±	0.1	2.7±	0.1	1.1±	0.1	0.10±	0.01	210±	26	80±	10	26±	11
1ppm	10	5.1±	0.1	2.7±	0.1	1.2±	0.1	0.11±	0.01	194±	27	71±	7	21±	7
2ppm	10	5.1±	0.1	2.7±	0.1	1.1±	0.0	0.10±	0.01	195±	31	75±	10	19±	10
5ppm	10	5.1±	0.2	2.7±	0.1	1.2±	0.1	0.10±	0.01	200±	28	76±	9	23±	12
10ppm	10	5.1±	0.1	2.8±	0.1	1.2±	0.1	0.11±	0.01	206±	23	72±	5	15±	5
20ppm	10	5.1±	0.2	2.7±	0.1	1.2±	0.1	0.10±	0.01	186±	30	71±	13	16±	11

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	10	163±	17	46±	4	15±	2	125±	16	229±	18	1±	1	40±	8
1ppm	10	147±	15	47±	10	17±	2	127±	26	242±	13	1±	0	42±	11
2ppm	10	150±	21	46±	8	17±	2	121±	32	248±	14	1±	1	42±	18
5ppm	10	155±	20	43±	5	16±	2	140±	57	236±	13	0±	0	38±	8
10ppm	10	144±	10	40±	3	16±	3	140±	40	240±	13	1±	1	38±	8
20ppm	10	141±	21	44±	8	17±	3	136±	38	238±	19	0±	0	45±	21

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	10	29.3±	4.1	153±	1	4.4±	0.2	123±	1	8.4±	0.3	6.4±	1.0
1ppm	10	26.9±	3.4	153±	2	4.3±	0.2	122±	1	8.4±	0.2	6.0±	1.0
2ppm	10	27.6±	3.8	153±	1	4.4±	0.3	123±	1	8.3±	0.1	6.1±	0.9
5ppm	10	26.7±	2.3	153±	1	4.2±	0.2	123±	1	8.4±	0.2	6.4±	0.6
10ppm	10	28.1±	3.7	153±	1	4.3±	0.3	123±	1	8.5±	0.2	6.1±	0.9
20ppm	10	26.3±	3.3	152±	1	4.2±	0.2	122±	1	8.4±	0.3	6.3±	0.9

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

Test of Dunnett

(ICL074)

BAIS 4

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	10	5.3±	0.1	3.0±	0.1	1.3±	0.1	0.09±	0.01	173±	19	69±	10	13±	6
1ppm	10	5.3±	0.1	3.1±	0.0	1.4±	0.1	0.10±	0.01	191±	10	70±	13	10±	5
2ppm	10	5.4±	0.1	3.1±	0.1	1.4±	0.1	0.09±	0.01	192±	19	72±	9	12±	7
5ppm	10	5.3±	0.1	3.0±	0.1	1.4±	0.1	0.09±	0.01	195±	24	69±	7	10±	4
10ppm	10	5.3±	0.1	3.1±	0.1	1.4±	0.1	0.10±	0.01	190±	14	74±	9	11±	6
20ppm	10	5.4±	0.2	3.1±	0.1	1.4±	0.1	0.09±	0.01	189±	21	73±	8	11±	4

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	10	133±	19	58±	6	20±	2	124±	13	375±	33	1±	1	61±	18
1ppm	10	125±	24	70±	20	23±	5	185±	79	412±	38	0±	0	88±	42
2ppm	10	134±	18	66±	16	23±	4	170±	55	395±	46	0±	0	68±	18
5ppm	10	129±	21	61±	17	21±	4	145±	41	404±	51	1±	0	70±	30
10ppm	10	134±	19	69±	18	23±	4	169±	34	395±	58	1±	1	85±	32
20ppm	10	138±	16	60±	19	21±	6	168±	73	373±	55	1±	1	76±	50

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	10	22.3±	1.4	152±	1	4.3±	0.2	123±	1	8.6±	0.2	6.4±	0.8
1ppm	10	23.8±	1.9	152±	1	4.2±	0.2	123±	2	8.4±	0.2	5.8±	0.5
2ppm	10	22.7±	1.8	152±	1	4.2±	0.3	123±	2	8.5±	0.2	6.0±	0.5
5ppm	10	23.4±	4.5	151±	1	4.2±	0.4	122±	2	8.5±	0.2	6.6±	0.5
10ppm	10	22.8±	3.2	152±	1	4.4±	0.2	122±	2	8.6±	0.2	5.8±	0.8
20ppm	10	22.2±	3.1	152±	1	4.4±	0.3	122±	2	8.7±	0.2	6.7±	0.6

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Occult blood					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	10	0	0	1	0	0	1	8		0	1	9	0	0	0		10	0	0	0	0	0		2	3	4	1	0	0		10	0	0	0	0	
1ppm	10	0	0	1	1	2	1	5		0	2	7	1	0	0		10	0	0	0	0	0		1	4	4	1	0	0		10	0	0	0	0	
2ppm	10	0	0	3	1	1	1	4		0	4	4	2	0	0		10	0	0	0	0	0		1	4	5	0	0	0		10	0	0	0	0	
5ppm	10	0	0	0	1	2	1	6		0	4	6	0	0	0		10	0	0	0	0	0		1	4	4	1	0	0		10	0	0	0	0	
10ppm	10	0	1	0	2	2	1	4		0	3	6	1	0	0		10	0	0	0	0	0		1	3	5	1	0	0		10	0	0	0	0	
20ppm	10	0	0	2	0	0	1	7		0	4	4	2	0	0		10	0	0	0	0	0		2	0	5	3	0	0		10	0	0	0	0	

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

Test of CHI SQUARE

(ICL101)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	10	10	0	0	0	0	0
1ppm	10	10	0	0	0	0	0
2ppm	10	10	0	0	0	0	0
5ppm	10	10	0	0	0	0	0
10ppm	10	10	0	0	0	0	0
20ppm	10	10	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BATS 4

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 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	Occult blood					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	10	0	0	0	2	3	5	0		0	4	6	0	0	0		10	0	0	0	0	0		1	8	1	0	0	0		10	0	0	0	0	
1ppm	10	0	0	0	2	4	4	0		0	2	7	1	0	0		10	0	0	0	0	0		1	7	1	1	0	0		10	0	0	0	0	
2ppm	10	0	0	0	1	3	5	1		0	4	5	1	0	0		10	0	0	0	0	0		1	8	1	0	0	0		10	0	0	0	0	
5ppm	10	0	0	0	1	1	6	2		0	5	4	1	0	0		10	0	0	0	0	0		2	7	1	0	0	0		10	0	0	0	0	
10ppm	10	0	0	0	0	2	8	0		0	3	7	0	0	0		10	0	0	0	0	0		0	9	1	0	0	0		10	0	0	0	0	
20ppm	10	0	0	0	0	1	8	1		0	4	6	0	0	0		10	0	0	0	0	0		1	7	2	0	0	0		10	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen					CHI
		±	+	2+	3+	4+	
Control	10	10	0	0	0	0	0
1ppm	10	10	0	0	0	0	0
2ppm	10	10	0	0	0	0	0
5ppm	10	10	0	0	0	0	0
10ppm	10	10	0	0	0	0	0
20ppm	10	10	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BATS 4

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		1ppm		2ppm		5ppm	
			10	(%)	10	(%)	10	(%)	10	(%)
kidney	hydronephrosis		0	(0)	0	(0)	1	(10)	1	(10)

(HPT080)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 2

Organ	Findings	Group Name		10ppm		20ppm	
		NO. of Animals	10	(%)	10	(%)	
kidney	hydronephrosis		0	(0)	0	(0)	

(HPT080)

BAIS 4

TABLE I 2

GROSS FINDINGS : FEMALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		1ppm		2ppm		5ppm	
			10	(%)	10	(%)	10	(%)	10	(%)
ovary	cyst		0	(0)	0	(0)	1	(10)	0	(0)

(HPT080)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 4

Organ	Findings	Group Name		10ppm		20ppm	
		NO. of Animals		10	(%)	10	(%)
ovary	cyst			0	(0)	0	(0)

(HPT080)

BA1S 4

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (14W)

PAGE : 1

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	28.6± 1.6	0.032± 0.006	0.013± 0.002	0.203± 0.025	0.154± 0.010	0.142± 0.010
1ppm	10	27.7± 1.9	0.031± 0.004	0.012± 0.003	0.226± 0.035	0.156± 0.007	0.137± 0.003
2ppm	10	26.4± 2.4*	0.031± 0.005	0.013± 0.002	0.231± 0.034	0.154± 0.005	0.137± 0.005
5ppm	10	27.4± 1.3	0.035± 0.004	0.014± 0.004	0.250± 0.021**	0.154± 0.007	0.136± 0.005
10ppm	10	25.9± 1.6**	0.031± 0.005	0.012± 0.003	0.208± 0.022	0.145± 0.009	0.137± 0.008
20ppm	10	24.6± 1.1**	0.031± 0.005	0.012± 0.003	0.228± 0.017	0.138± 0.010**	0.134± 0.007

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (14W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	10	0.468±	0.026	0.055±	0.005	1.124±	0.077	0.437±	0.010
1ppm	10	0.456±	0.019	0.054±	0.008	1.104±	0.082	0.441±	0.009
2ppm	10	0.452±	0.027	0.054±	0.006	1.064±	0.078	0.444±	0.014
5ppm	10	0.551±	0.262	0.055±	0.006	1.117±	0.046	0.444±	0.012
10ppm	10	0.454±	0.027	0.051±	0.003*	1.044±	0.046*	0.444±	0.011
20ppm	10	0.429±	0.028*	0.050±	0.002**	0.992±	0.055**	0.436±	0.014
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett									

(HCL040)

BAIS 4

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (14W)

PAGE : 3

Group Name	NO. of Animals	Body Weight	THYMUS		ADRENALS		OVARIES		HEART		LUNGS	
Control	10	21.9± 0.9	0.040±	0.006	0.017±	0.004	0.034±	0.006	0.135±	0.010	0.144±	0.014
1ppm	10	20.8± 1.2	0.038±	0.006	0.016±	0.003	0.030±	0.005	0.127±	0.006	0.135±	0.005
2ppm	10	20.9± 1.0	0.038±	0.004	0.018±	0.004	0.038±	0.012	0.129±	0.008	0.138±	0.011
5ppm	10	21.4± 1.2	0.039±	0.004	0.018±	0.003	0.031±	0.004	0.130±	0.006	0.133±	0.005
10ppm	10	20.7± 1.2	0.036±	0.005	0.016±	0.002	0.029±	0.004	0.124±	0.007**	0.134±	0.008
20ppm	10	20.7± 1.1	0.037±	0.005	0.016±	0.001	0.030±	0.005	0.122±	0.008**	0.133±	0.008

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	10	0.325±	0.015	0.066±	0.004	0.956±	0.062	0.453±	0.013
1ppm	10	0.313±	0.013	0.064±	0.007	0.881±	0.065	0.454±	0.008
2ppm	10	0.318±	0.020	0.062±	0.007	0.926±	0.089	0.461±	0.016
5ppm	10	0.319±	0.016	0.064±	0.007	0.947±	0.055	0.460±	0.010
10ppm	10	0.314±	0.015	0.064±	0.007	0.884±	0.078	0.451±	0.008
20ppm	10	0.311±	0.010	0.062±	0.011	0.894±	0.076	0.453±	0.013

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	28.6± 1.6	0.113± 0.018	0.045± 0.009	0.713± 0.106	0.538± 0.024	0.498± 0.031
1ppm	10	27.7± 1.9	0.111± 0.018	0.045± 0.014	0.818± 0.142	0.564± 0.038	0.497± 0.037
2ppm	10	26.4± 2.4*	0.116± 0.019	0.051± 0.011	0.883± 0.165*	0.584± 0.040	0.522± 0.057
5ppm	10	27.4± 1.3	0.126± 0.014	0.051± 0.015	0.915± 0.105**	0.565± 0.043	0.496± 0.028
10ppm	10	25.9± 1.6**	0.119± 0.015	0.048± 0.009	0.806± 0.105	0.561± 0.017	0.531± 0.026
20ppm	10	24.6± 1.1**	0.127± 0.023	0.049± 0.010	0.930± 0.087**	0.560± 0.029	0.545± 0.035*

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	1.639± 0.097	0.193± 0.014	3.932± 0.159	1.533± 0.084
1ppm	10	1.651± 0.078	0.193± 0.024	3.983± 0.131	1.597± 0.117
2ppm	10	1.718± 0.123	0.204± 0.023	4.035± 0.128	1.694± 0.167*
5ppm	10	2.004± 0.899	0.201± 0.017	4.081± 0.104	1.626± 0.105
10ppm	10	1.755± 0.084*	0.196± 0.015	4.040± 0.144	1.722± 0.112**
20ppm	10	1.743± 0.083	0.204± 0.013	4.032± 0.097	1.774± 0.100**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (14W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	21.9± 0.9	0.181± 0.027	0.075± 0.017	0.156± 0.022	0.618± 0.043	0.657± 0.053
1ppm	10	20.8± 1.2	0.181± 0.025	0.076± 0.012	0.144± 0.021	0.612± 0.027	0.649± 0.040
2ppm	10	20.9± 1.0	0.180± 0.024	0.084± 0.020	0.185± 0.059	0.616± 0.027	0.660± 0.058
5ppm	10	21.4± 1.2	0.184± 0.013	0.084± 0.014	0.143± 0.014	0.608± 0.038	0.625± 0.033
10ppm	10	20.7± 1.2	0.174± 0.024	0.077± 0.013	0.142± 0.015	0.601± 0.017	0.650± 0.036
20ppm	10	20.7± 1.1	0.181± 0.022	0.079± 0.005	0.143± 0.023	0.592± 0.042	0.644± 0.046

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0771
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	1.483± 0.074	0.303± 0.015	4.362± 0.168	2.070± 0.088
1ppm	10	1.504± 0.064	0.306± 0.026	4.223± 0.135	2.185± 0.108
2ppm	10	1.522± 0.062	0.298± 0.024	4.427± 0.227	2.212± 0.109
5ppm	10	1.496± 0.081	0.302± 0.028	4.435± 0.171	2.157± 0.140
10ppm	10	1.519± 0.049	0.311± 0.027	4.272± 0.166	2.189± 0.125
20ppm	10	1.505± 0.072	0.301± 0.048	4.322± 0.257	2.197± 0.153

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE L1

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE**

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control				1ppm				2ppm				5ppm			
		Grade				10				10				10				10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<10>				<10>				<10>				<10>				<10>			
	inflammatory infiltration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	exudate:neutrophil leukocyte	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:gland	0	0	0	0	2	0	0	0	7	0	0	0	0	0	0	0	10	0	0	0
		(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	regeneration:respiratory epithelium	0	0	0	0	7	0	0	0	10	0	0	0	0	0	0	0	10	0	0	0
		(0)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(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. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study				10ppm				20ppm			
		Grade				10				10			
		1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}													
nasal cavit	inflammatory infiltration	<10>				0	0	0	0	<10>			
		(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	exudate:neutrophil leukocyte	0	0	0	0	4	0	0	0				
		(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)				
	hyperplasia:gland	10	0	0	0 **	2	8	0	0 **				
		(100)	(0)	(0)	(0)	(20)	(80)	(0)	(0)				
	eosinophilic change:respiratory epithelium	5	0	0	0	6	0	0	0				
		(50)	(0)	(0)	(0)	(60)	(0)	(0)	(0)				
	respiratory metaplasia:olfactory epithelium	7	0	0	0 **	10	0	0	0 **				
		(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	respiratory metaplasia:gland	8	0	0	0 **	9	0	0	0 **				
		(80)	(0)	(0)	(0)	(90)	(0)	(0)	(0)				
	atrophy:olfactory gland	10	0	0	0 **	10	0	0	0 **				
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	regeneration:respiratory epithelium	10	0	0	0 **	10	0	0	0 **				
		(100)	(0)	(0)	(0)	(100)	(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. : 0771
 ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control				1ppm				2ppm				5ppm			
			10				10				10				10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	regeneration:olfactory epithelium		<10>				<10>				<10>				<10>			
			0	0	0	0	2	0	0	0	10	0	0	0	10	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	6	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(60)	(10)	(0)	(0)	
	necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Hematopoietic system}																		
spleen	deposit of melanin		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	
{Urinary system}																		
kidney	inflammatory polyp		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(10)	(0)	(0)

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 4

		Group Name				10ppm				20ppm			
		No. of Animals on Study				10				10			
		Grade											
Organ_____	Findings_____	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}													
nasal cavit		<10>				<10>							
	regeneration:olfactory epithelium	10	0	0	0 **	10	0	0	0 **				
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	atrophy:olfactory epithelium	9	0	0	0 **	7	3	0	0 **				
		(90)	(0)	(0)	(0)	(70)	(30)	(0)	(0)				
	necrosis:olfactory epithelium	5	0	0	0 *	6	0	0	0 *				
		(50)	(0)	(0)	(0)	(60)	(0)	(0)	(0)				
	necrosis:respiratory epithelium	4	0	0	0	4	0	0	0				
		(40)	(0)	(0)	(0)	(40)	(0)	(0)	(0)				
{Hematopoietic system}													
spleen		<10>				<10>							
	deposit of melanin	0	0	0	0	0	0	0	0				
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
{Urinary system}													
kidney		<10>				<10>							
	inflammatory polyp	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. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control				1ppm				2ppm				5ppm			
			10				10				10				10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	hydronephrosis		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)
{Endocrine system}																		
adrenal	spindle-cell hyperplasia		<10>				<10>				<10>				<10>			
			3	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
			(30)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Reproductive system}																		
epididymis	spermatogenic granuloma		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BATS4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 6

Organ	Findings	10ppm				20ppm			
		10				10			
		1	2	3	4	1	2	3	4
		Grade				Grade			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}									
kidney		<10>				<10>			
	hydronephrosis	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}									
adrenal		<10>				<10>			
	spindle-cell hyperplasia	2	0	0	0	2	0	0	0
		(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Reproductive system}									
epididymis		<10>				<10>			
	spermatogenic granuloma	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b 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

TABLE L2

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE**

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control				1ppm				2ppm				5ppm			
			10				10				10				10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit	inflammatory infiltration		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	exudate:neutrophil leukocyte		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:gland		0	0	0	0	7	0	0	0 **	10	0	0	0 **	7	3	0	0 **
			(0)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(70)	(30)	(0)	(0)
	eosinophilic change:olfactory epithelium		0	0	0	0	7	0	0	0 **	9	0	0	0 **	8	0	0	0 **
			(0)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		6	0	0	0	10	0	0	0	8	2	0	0 *	9	1	0	0
			(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(80)	(20)	(0)	(0)	(90)	(10)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	2	0	0	0	4	0	0	0	10	0	0	0 **
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	respiratory metaplasia:gland		0	0	0	0	1	0	0	0	3	0	0	0	5	0	0	0 *
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	atrophy:olfactory gland		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 8

Organ_____	Findings_____	Group Name	10ppm				20ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	inflammatory infiltration		0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	exudate:neutrophil leukocyte		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	hyperplasia:gland		8	2	0	0 **	2	8	0	0 **
			(80)	(20)	(0)	(0)	(20)	(80)	(0)	(0)
	eosinophilic change:olfactory epithelium		4	0	0	0	6	0	0	0 *
			(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		9	1	0	0	8	2	0	0 *
		(90)	(10)	(0)	(0)	(80)	(20)	(0)	(0)	
respiratory metaplasia:olfactory epithelium		10	0	0	0 **	10	0	0	0 **	
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	
respiratory metaplasia:gland		10	0	0	0 **	8	1	0	0 **	
		(100)	(0)	(0)	(0)	(80)	(10)	(0)	(0)	
atrophy:olfactory gland		0	0	0	0	6	0	0	0 *	
		(0)	(0)	(0)	(0)	(60)	(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. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control				1ppm				2ppm				5ppm			
			10				10				10				10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	regeneration:respiratory epithelium		<10>				<10>				<10>				<10>			
			0	0	0	0	10	0	0	0 **	5	0	0	0 *	10	0	0	0 **
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	regeneration:olfactory epithelium		0	0	0	0	9	0	0	0 **	10	0	0	0 **	10	0	0	0 **
			(0)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	5	0	0	0 *	6	0	0	0 *	9	0	0	0 **
			(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	necrosis:olfactory epithelium		0	0	0	0	3	0	0	0	4	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
nasopharynx	eosinophilic change		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(10)	(0)	(10)	(10)	(0)	(0)
	regeneration:epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
spleen	deposit of melanin		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(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. : 0771
 ANIMAL : MOUSE B6D2F1/CrIj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 10

Organ	Findings	Group Name		10ppm				20ppm			
		No. of Animals on Study	Grade	10				10			
				1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)											
nasal cavit			<10>				<10>				
	regeneration:respiratory epithelium	10	0	0	0	0 **	10	0	0	0	0 **
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)
	regeneration:olfactory epithelium	10	0	0	0	0 **	10	0	0	0	0 **
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)
	atrophy:olfactory epithelium	10	0	0	0	0 **	3	7	0	0	0 **
		(100)	(0)	(0)	(0)	(0)	(30)	(70)	(0)	(0)	(0)
	necrosis:olfactory epithelium	3	0	0	0		4	0	0	0	
		(30)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)
	necrosis:respiratory epithelium	5	0	0	0	0 *	4	0	0	0	
		(50)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)
nasopharynx			<10>				<10>				
	eosinophilic change	0	0	1	0		4	2	0	0	0 *
		(0)	(0)	(0)	(10)	(0)	(40)	(20)	(0)	(0)	(0)
	regeneration:epithelium	0	0	0	0		0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Hematopoietic system)											
spleen			<10>				<10>				
	deposit of melanin	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. : 0771
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control				1ppm				2ppm				5ppm			
			10				10				10				10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	inflammatory cell nest		<10>				<10>				<10>				<10>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
adrenal	spindle-cell hyperplasia		<10>				<10>				<10>				<10>			
			8	2	0	0	7	3	0	0	9	0	0	0	7	2	0	0
			(80)	(20)	(0)	(0)	(70)	(30)	(0)	(0)	(90)	(0)	(0)	(0)	(70)	(20)	(0)	(0)
{Reproductive system}																		
ovary	cyst		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(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

(IPT150)

BAIS4

STUDY NO. : 0771
 ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study				10ppm				20ppm			
		Grade				10				10			
		1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}													
liver		<10>				<10>				<10>			
	inflammatory cell nest	1	0	0	0	0	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}													
adrenal		<10>				<10>				<10>			
	spindle-cell hyperplasia	9	1	0	0	9	1	0	0	9	1	0	0
		(90)	(10)	(0)	(0)	(90)	(10)	(0)	(0)	(90)	(10)	(0)	(0)
{Reproductive system}													
ovary		<10>				<10>				<10>			
	cyst	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(IPT150)

BAIS4