メタクリル酸ブチ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：0830

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF BUTYL METHACRYLATE IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

CONCENTRATIONS OF BUTYL METHACRYLATE
IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
31 ppm	31.1 ± 0.1
63 ppm	63.0 ± 0.3
125 ppm	125.0 ± 0.5
250 ppm	250.2 ± 0.4
500 ppm	499.5 ± 1.6

TABLE B 1

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	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
31ppm	10	10/10	10/10	10/10	10/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
		100.0	100.0	100.0	100.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
63ppm	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
125ppm	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
250ppm	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
500ppm	10	10/10	10/10	10/10	10/10	9/10	8/10	8/10	8/10	8/10	8/10	8/10	8/10	8/10	8/10
		100.0	100.0	100.0	100.0	90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

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

TABLE B 2

SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	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
31ppm	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
63ppm	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
125ppm	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
250ppm	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
500ppm	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 C 1

CLINICAL OBSERVATION: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	31ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	63ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	31ppm	0	0	0	1	1	1	1	1	1	1	1	1	1
	63ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	31ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	63ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	1	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	31ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	63ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	1	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
	31ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	63ppm	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
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	1	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
	31ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	63ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	125ppm	0	0	1	1	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	1	0	0	0	0	0	0	0	0	0

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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
	31ppm	10	10	10	9	9	9	9	9	9	9	9	9	9
	63ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	125ppm	10	10	9	9	10	10	10	10	10	9	9	9	9
	250ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	500ppm	10	10	10	8	8	8	8	8	8	8	8	8	8

TABLE C 2

CLINICAL OBSERVATION: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

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
	31ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	63ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	125ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	250ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	500ppm	10	10	10	10	10	10	10	10	10	10	10	10	10

TABLE D 1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. <10>	31ppm Av. Wt.	31ppm % of cont. <10>	31ppm No. of Surviv.	63ppm Av. Wt.	63ppm % of cont. <10>	63ppm No. of Surviv.	125ppm Av. Wt.	125ppm % of cont. <10>	125ppm No. of Surviv.	250ppm Av. Wt.	250ppm % of cont. <10>	250ppm No. of Surviv.	500ppm Av. Wt.	500ppm % of cont. <10>	500ppm No. of Surviv.
0-0	24.1 (10)	10/10	24.1 (10)	100	10/10	24.1 (10)	100	10/10	24.1 (10)	100	10/10	24.1 (10)	100	10/10	24.1 (10)	100	10/10
1-7	25.4 (10)	10/10	25.3 (10)	100	10/10	25.1 (10)	99	10/10	25.2 (10)	99	10/10	25.3 (10)	100	10/10	24.5 (10)	96	10/10
2-7	25.9 (10)	10/10	25.0 (10)	97	10/10	25.5 (10)	98	10/10	24.8 (10)	96	10/10	25.1 (10)	97	10/10	24.0 (10)	93	10/10
3-7	26.5 (10)	10/10	25.0 (10)	94	10/10	25.6 (10)	97	10/10	24.4 (10)	92	10/10	24.3 (10)	92	10/10	24.0 (10)	91	10/10
4-7	27.0 (10)	10/10	25.6 (9)	95	9/10	25.9 (10)	96	10/10	24.6 (10)	91	10/10	24.4 (10)	90	10/10	23.8 (9)	88	9/10
5-7	27.7 (10)	10/10	26.7 (9)	96	9/10	26.2 (10)	95	10/10	25.7 (10)	93	10/10	25.5 (10)	92	10/10	25.8 (8)	93	8/10
6-7	27.7 (10)	10/10	27.3 (9)	99	9/10	26.7 (10)	96	10/10	25.9 (10)	94	10/10	26.0 (10)	94	10/10	25.5 (8)	92	8/10
7-7	28.5 (10)	10/10	27.4 (9)	96	9/10	27.4 (10)	96	10/10	26.6 (10)	93	10/10	26.9 (10)	94	10/10	26.4 (8)	93	8/10
8-7	29.1 (10)	10/10	27.8 (9)	96	9/10	27.9 (10)	96	10/10	26.5 (10)	91	10/10	27.1 (10)	93	10/10	26.1 (8)	90	8/10
9-7	29.5 (10)	10/10	28.0 (9)	95	9/10	28.7 (10)	97	10/10	27.0 (10)	92	10/10	27.2 (10)	92	10/10	26.3 (8)	89	8/10
10-7	29.8 (10)	10/10	28.6 (9)	96	9/10	28.9 (10)	97	10/10	26.7 (10)	90	10/10	27.1 (10)	91	10/10	26.4 (8)	89	8/10
11-7	30.4 (10)	10/10	28.9 (9)	95	9/10	29.7 (10)	98	10/10	27.5 (10)	90	10/10	27.3 (10)	90	10/10	26.5 (8)	87	8/10
12-7	31.2 (10)	10/10	29.0 (9)	93	9/10	29.9 (10)	96	10/10	28.1 (10)	90	10/10	27.8 (10)	89	10/10	27.2 (8)	87	8/10
13-7	31.9 (10)	10/10	30.0 (9)	94	9/10	31.1 (10)	97	10/10	28.3 (10)	89	10/10	27.5 (10)	86	10/10	26.7 (8)	84	8/10

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

TABLE D 2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. <10>	31ppm Av. Wt.	31ppm % of cont. <10>	31ppm No. of Surviv.	63ppm Av. Wt.	63ppm % of cont. <10>	63ppm No. of Surviv.	125ppm Av. Wt.	125ppm % of cont. <10>	125ppm No. of Surviv.	250ppm Av. Wt.	250ppm % of cont. <10>	250ppm No. of Surviv.	500ppm Av. Wt.	500ppm % of cont. <10>	500ppm No. of Surviv.
0-0	20.5 (10)	10/10	20.5 (10)	100	10/10	20.5 (10)	100	10/10	20.5 (10)	100	10/10	20.5 (10)	100	10/10	20.5 (10)	100	10/10
1-7	21.1 (10)	10/10	20.9 (10)	99	10/10	20.6 (10)	98	10/10	21.2 (10)	100	10/10	21.3 (10)	101	10/10	21.4 (10)	101	10/10
2-7	21.8 (10)	10/10	21.6 (10)	99	10/10	21.4 (10)	98	10/10	21.4 (10)	98	10/10	21.4 (10)	98	10/10	20.9 (10)	96	10/10
3-7	22.0 (10)	10/10	22.1 (10)	100	10/10	22.0 (10)	100	10/10	21.7 (10)	99	10/10	21.8 (10)	99	10/10	21.3 (10)	97	10/10
4-7	22.9 (10)	10/10	22.4 (10)	98	10/10	22.1 (10)	97	10/10	21.9 (10)	96	10/10	21.6 (10)	94	10/10	21.0 (10)	92	10/10
5-7	23.3 (10)	10/10	23.6 (10)	101	10/10	23.0 (10)	99	10/10	23.1 (10)	99	10/10	22.1 (10)	95	10/10	21.7 (10)	93	10/10
6-7	24.1 (10)	10/10	24.0 (10)	100	10/10	24.0 (10)	100	10/10	23.4 (10)	97	10/10	23.2 (10)	96	10/10	22.0 (10)	91	10/10
7-7	24.9 (10)	10/10	24.9 (10)	100	10/10	24.8 (10)	100	10/10	24.8 (10)	100	10/10	23.5 (10)	94	10/10	22.8 (10)	92	10/10
8-7	25.5 (10)	10/10	25.6 (10)	100	10/10	24.7 (10)	97	10/10	24.7 (10)	97	10/10	23.9 (10)	94	10/10	23.3 (10)	91	10/10
9-7	25.4 (10)	10/10	25.3 (10)	100	10/10	24.4 (10)	96	10/10	25.4 (10)	100	10/10	24.9 (10)	98	10/10	23.8 (10)	94	10/10
10-7	25.4 (10)	10/10	25.6 (10)	101	10/10	25.3 (10)	100	10/10	25.6 (10)	101	10/10	24.6 (10)	97	10/10	24.2 (10)	95	10/10
11-7	25.9 (10)	10/10	26.0 (10)	100	10/10	25.7 (10)	99	10/10	26.0 (10)	100	10/10	24.7 (10)	95	10/10	23.9 (10)	92	10/10
12-7	26.3 (10)	10/10	26.7 (10)	102	10/10	25.8 (10)	98	10/10	26.1 (10)	99	10/10	25.4 (10)	97	10/10	25.1 (10)	95	10/10
13-7	26.4 (10)	10/10	27.2 (10)	103	10/10	25.7 (10)	97	10/10	25.9 (10)	98	10/10	25.6 (10)	97	10/10	25.1 (10)	95	10/10

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

TABLE D 3

BODY WEIGHT CHANGES: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	24.1± 0.8	25.4± 0.9	25.9± 1.6	26.5± 1.6	27.0± 1.1	27.7± 0.9	27.7± 1.0
31ppm	24.1± 0.8	25.3± 0.9	25.0± 1.5	25.0± 1.3	25.6± 0.9	26.7± 0.9	27.3± 1.0
63ppm	24.1± 0.8	25.1± 0.7	25.5± 1.4	25.6± 1.3	25.9± 1.2	26.2± 0.9*	26.7± 1.1
125ppm	24.1± 0.8	25.2± 0.6	24.8± 1.5	24.4± 2.6	24.6± 2.7*	25.7± 1.9**	25.9± 2.3*
250ppm	24.1± 0.8	25.3± 1.8	25.1± 1.9	24.3± 2.1	24.4± 1.4**	25.5± 1.0**	26.0± 0.9**
500ppm	24.1± 0.8	24.5± 1.9	24.0± 1.5	24.0± 2.3	23.8± 2.6**	25.8± 0.8**	25.5± 0.6**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	28.5± 0.9	29.1± 1.2	29.5± 1.0	29.8± 1.1	30.4± 0.9	31.2± 1.1	31.9± 1.1
31ppm	27.4± 1.1	27.8± 1.1	28.0± 1.6	28.6± 1.6	28.9± 1.8	29.0± 1.8*	30.0± 1.9
63ppm	27.4± 1.3	27.9± 1.3	28.7± 1.7	28.9± 1.6	29.7± 1.7	29.9± 2.0	31.1± 2.0
125ppm	26.6± 2.2*	26.5± 2.4**	27.0± 2.7**	26.7± 3.3**	27.5± 2.7**	28.1± 2.6**	28.3± 2.6**
250ppm	26.9± 0.8**	27.1± 1.1**	27.2± 1.1**	27.1± 1.1**	27.3± 1.2**	27.8± 1.4**	27.5± 1.5**
500ppm	26.4± 0.7**	26.1± 0.6**	26.3± 0.5**	26.4± 0.4**	26.5± 0.7**	27.2± 0.8**	26.7± 0.8**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE D 4

BODY WEIGHT CHANGES: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	20.5± 0.5	21.1± 0.8	21.8± 0.9	22.0± 0.7	22.9± 1.1	23.3± 1.0	24.1± 1.0
31ppm	20.5± 0.6	20.9± 1.0	21.6± 0.9	22.1± 1.2	22.4± 1.3	23.6± 1.1	24.0± 1.0
63ppm	20.5± 0.5	20.6± 0.6	21.4± 0.7	22.0± 0.4	22.1± 0.5	23.0± 0.5	24.0± 0.8
125ppm	20.5± 0.6	21.2± 0.5	21.4± 0.9	21.7± 0.7	21.9± 1.1	23.1± 0.9	23.4± 1.0
250ppm	20.5± 0.6	21.3± 1.2	21.4± 1.0	21.8± 0.9	21.6± 0.9*	22.1± 0.9*	23.2± 1.3
500ppm	20.5± 0.5	21.4± 0.9	20.9± 0.5	21.3± 0.6	21.0± 0.6**	21.7± 0.6**	22.0± 0.5**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 7-7	8-7	9-7	10-7	11-7	12-7	13-7
Control	24.9± 1.0	25.5± 1.0	25.4± 1.1	25.4± 1.0	25.9± 1.6	26.3± 0.9	26.4± 1.3
31ppm	24.9± 0.8	25.6± 1.0	25.3± 1.1	25.6± 0.9	26.0± 1.2	26.7± 1.1	27.2± 1.9
63ppm	24.8± 1.0	24.7± 1.0	24.4± 1.1	25.3± 0.9	25.7± 1.0	25.8± 0.9	25.7± 0.9
125ppm	24.8± 1.1	24.7± 0.7	25.4± 0.7	25.6± 0.7	26.0± 1.1	26.1± 0.8	25.9± 0.7
250ppm	23.5± 0.8**	23.9± 0.8**	24.9± 1.6	24.6± 0.8	24.7± 0.8	25.4± 1.1	25.6± 1.1
500ppm	22.8± 0.8**	23.3± 0.8**	23.8± 0.9**	24.2± 0.6*	23.9± 0.7**	25.1± 0.6*	25.1± 0.5**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE E 1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <10>	31ppm Av. FC.	31ppm % of cont. <10>	31ppm No. of Surviv.	63ppm Av. FC.	63ppm % of cont. <10>	63ppm No. of Surviv.	125ppm Av. FC.	125ppm % of cont. <10>	125ppm No. of Surviv.	250ppm Av. FC.	250ppm % of cont. <10>	250ppm No. of Surviv.	500ppm Av. FC.	500ppm % of cont. <10>	500ppm No. of Surviv.
1-7	4.3 (10)	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10	4.0 (10)	93	10/10
2-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.3 (10)	102	10/10	4.2 (10)	100	10/10	4.4 (10)	105	10/10	4.2 (10)	100	10/10
3-7	4.3 (10)	10/10	4.0 (10)	93	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10	4.1 (10)	95	10/10	4.0 (10)	93	10/10
4-7	4.2 (10)	10/10	4.3 (9)	102	9/10	4.3 (10)	102	10/10	4.6 (10)	110	10/10	4.3 (10)	102	10/10	3.8 (9)	90	9/10
5-7	4.3 (10)	10/10	4.5 (9)	105	9/10	4.4 (10)	102	10/10	4.7 (10)	109	10/10	4.4 (10)	102	10/10	4.3 (8)	100	8/10
6-7	4.3 (10)	10/10	4.5 (9)	105	9/10	4.5 (10)	105	10/10	4.7 (10)	109	10/10	4.4 (10)	102	10/10	4.1 (8)	95	8/10
7-7	4.4 (10)	10/10	4.5 (9)	102	9/10	4.5 (10)	102	10/10	4.6 (10)	105	10/10	4.3 (10)	98	10/10	4.2 (8)	95	8/10
8-7	4.5 (10)	10/10	4.6 (9)	102	9/10	4.6 (10)	102	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10	4.0 (8)	89	8/10
9-7	4.5 (10)	10/10	4.4 (9)	98	9/10	4.7 (10)	104	10/10	4.6 (10)	102	10/10	4.3 (10)	96	10/10	4.2 (8)	93	8/10
10-7	4.5 (10)	10/10	4.7 (9)	104	9/10	4.7 (10)	104	10/10	4.4 (10)	98	10/10	4.3 (10)	96	10/10	4.1 (8)	91	8/10
11-7	4.6 (10)	10/10	4.6 (9)	100	9/10	4.9 (10)	107	10/10	4.9 (10)	107	10/10	4.5 (10)	98	10/10	4.3 (8)	93	8/10
12-7	4.6 (10)	10/10	4.5 (9)	98	9/10	4.6 (10)	100	10/10	4.5 (10)	98	10/10	4.3 (10)	93	10/10	4.1 (8)	89	8/10
13-7	4.5 (10)	10/10	4.5 (9)	100	9/10	4.6 (10)	102	10/10	4.4 (10)	98	10/10	4.0 (10)	89	10/10	3.9 (8)	87	8/10

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

TABLE E 2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <10>	31ppm Av. FC.	31ppm % of cont. <10>	31ppm No. of Surviv.	63ppm Av. FC.	63ppm % of cont. <10>	63ppm No. of Surviv.	125ppm Av. FC.	125ppm % of cont. <10>	125ppm No. of Surviv.	250ppm Av. FC.	250ppm % of cont. <10>	250ppm No. of Surviv.	500ppm Av. FC.	500ppm % of cont. <10>	500ppm No. of Surviv.
1-7	3.8 (10)	10/10	3.8 (10)	100	10/10	3.7 (10)	97	10/10	3.9 (10)	103	10/10	3.8 (10)	100	10/10	3.8 (10)	100	10/10
2-7	4.0 (10)	10/10	4.5 (10)	113	10/10	4.2 (10)	105	10/10	4.1 (10)	103	10/10	4.1 (10)	103	10/10	3.9 (10)	98	10/10
3-7	4.1 (10)	10/10	4.8 (10)	117	10/10	4.4 (10)	107	10/10	4.3 (10)	105	10/10	4.0 (10)	98	10/10	4.0 (10)	98	10/10
4-7	4.5 (10)	10/10	4.7 (9)	104	10/10	5.0 (10)	111	10/10	4.6 (10)	102	10/10	4.1 (10)	91	10/10	4.0 (10)	89	10/10
5-7	4.5 (10)	10/10	5.2 (10)	116	10/10	5.5 (10)	122	10/10	4.8 (10)	107	10/10	4.5 (10)	100	10/10	4.4 (10)	98	10/10
6-7	4.7 (10)	10/10	5.1 (10)	109	10/10	5.8 (10)	123	10/10	4.9 (10)	104	10/10	4.6 (10)	98	10/10	4.4 (10)	94	10/10
7-7	5.0 (10)	10/10	5.6 (10)	112	10/10	5.8 (10)	116	10/10	5.2 (10)	104	10/10	4.6 (10)	92	10/10	4.7 (10)	94	10/10
8-7	5.1 (10)	10/10	5.5 (10)	108	10/10	6.0 (10)	118	10/10	5.2 (10)	102	10/10	5.0 (10)	98	10/10	4.8 (10)	94	10/10
9-7	4.9 (10)	10/10	5.8 (10)	118	10/10	5.8 (9)	118	10/10	5.6 (10)	114	10/10	5.1 (10)	104	10/10	4.9 (10)	100	10/10
10-7	4.9 (10)	10/10	5.7 (10)	116	10/10	5.7 (10)	116	10/10	5.4 (10)	110	10/10	4.9 (10)	100	10/10	4.7 (10)	96	10/10
11-7	5.0 (10)	10/10	5.8 (10)	116	10/10	5.4 (10)	108	10/10	5.4 (10)	108	10/10	5.1 (10)	102	10/10	4.9 (10)	98	10/10
12-7	4.9 (10)	10/10	5.7 (10)	116	10/10	5.2 (10)	106	10/10	5.0 (10)	102	10/10	5.0 (10)	102	10/10	4.7 (10)	96	10/10
13-7	4.9 (10)	10/10	5.7 (10)	116	10/10	5.2 (10)	106	10/10	5.0 (10)	102	10/10	5.0 (10)	102	10/10	4.8 (10)	98	10/10

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

TABLE E 3

FOOD CONSUMPTION CHANGES: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day (effective) 1-7 (7)	2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	4.3± 0.2	4.2± 0.4	4.3± 0.2	4.2± 0.3	4.3± 0.2	4.3± 0.3	4.4± 0.2
31ppm	4.4± 0.2	4.1± 0.6	4.0± 0.6	4.3± 0.2	4.5± 0.2	4.5± 0.3	4.5± 0.2
63ppm	4.4± 0.2	4.3± 0.4	4.4± 0.3	4.3± 0.2	4.4± 0.3	4.5± 0.2	4.5± 0.2
125ppm	4.4± 0.2	4.2± 0.5	4.4± 0.5	4.6± 0.7	4.7± 0.5	4.7± 1.0	4.6± 0.4
250ppm	4.4± 0.5	4.4± 0.4	4.1± 0.5	4.3± 0.4	4.4± 0.4	4.4± 0.5	4.3± 0.3
500ppm	4.0± 0.5	4.2± 0.4	4.0± 0.7	3.8± 1.0	4.3± 0.4	4.1± 0.3	4.2± 0.2

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day (effective) 8-7 (7)	9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)
Control	4.5± 0.3	4.5± 0.2	4.5± 0.2	4.6± 0.2	4.6± 0.2	4.5± 0.3
31ppm	4.6± 0.3	4.4± 0.5	4.7± 0.3	4.6± 0.3	4.5± 0.3	4.5± 0.3
63ppm	4.6± 0.1	4.7± 0.3	4.7± 0.3	4.9± 0.3	4.6± 0.3	4.6± 0.4
125ppm	4.5± 0.3	4.6± 0.4	4.4± 0.3	4.9± 0.3	4.5± 0.3	4.4± 0.2
250ppm	4.3± 0.5	4.3± 0.4	4.3± 0.4	4.5± 0.4	4.3± 0.4	4.0± 0.4**
500ppm	4.0± 0.2**	4.2± 0.4	4.1± 0.4*	4.3± 0.3	4.1± 0.3*	3.9± 0.3**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE E 4

FOOD CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day (effective) 1-7 (7)	2-7 (7)	3-7 (7)	4-7 (7)	5-7 (7)	6-7 (7)	7-7 (7)
Control	3.8± 0.3	4.0± 0.3	4.1± 0.3	4.5± 0.3	4.5± 0.2	4.7± 0.2	5.0± 0.3
31ppm	3.8± 0.4	4.5± 0.4**	4.8± 1.3	4.7± 0.5	5.2± 1.0*	5.1± 0.5	5.6± 1.4
63ppm	3.7± 0.3	4.2± 0.3	4.4± 0.4	5.0± 0.7	5.5± 1.3**	5.8± 2.0	5.8± 1.4
125ppm	3.9± 0.3	4.1± 0.2	4.3± 0.4	4.6± 0.3	4.8± 0.3	4.9± 0.4	5.2± 0.5
250ppm	3.8± 0.3	4.1± 0.4	4.0± 0.4	4.1± 0.3*	4.5± 0.4	4.6± 0.4	4.6± 0.4
500ppm	3.8± 0.2	3.9± 0.3	4.0± 0.4	4.0± 0.3**	4.4± 0.4	4.4± 0.4	4.7± 0.9

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day (effective) 8-7 (7)	9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)
Control	5.1± 0.3	4.9± 0.2	4.9± 0.2	5.0± 0.3	4.9± 0.1	4.9± 0.4
31ppm	5.5± 0.9	5.8± 1.4**	5.7± 1.3*	5.8± 1.4	5.7± 1.6	5.7± 1.1
63ppm	6.0± 1.9	5.8± 1.5**	5.7± 1.2*	5.4± 0.4	5.2± 0.5	5.2± 0.6
125ppm	5.2± 0.4	5.6± 0.5**	5.4± 0.4*	5.4± 0.5	5.0± 0.4	5.0± 0.3
250ppm	5.0± 0.4	5.1± 0.3	4.9± 0.4	5.1± 0.4	5.0± 0.4	5.0± 0.4
500ppm	4.8± 0.9	4.9± 0.7	4.7± 0.6	4.9± 0.8	4.7± 0.4	4.8± 0.6

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE F 1

HEMATOLOGY: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	10	11.05± 0.22	15.7± 0.5	48.8± 1.5	44.2± 0.5	14.3± 0.2	32.3± 0.3	1375± 79
31ppm	9	10.86± 0.39	15.6± 0.7	47.9± 1.9	44.0± 0.5	14.3± 0.2	32.5± 0.5	1319± 38
63ppm	10	10.86± 0.24	15.5± 0.4	48.0± 1.1	44.2± 0.3	14.2± 0.2	32.2± 0.5	1319± 45
125ppm	10	10.83± 0.72	15.2± 1.5	47.1± 3.9	43.4± 1.5	14.0± 0.7	32.1± 0.8	1361± 130
250ppm	10	10.89± 0.41	15.1± 0.6	46.8± 1.3*	43.0± 1.0**	13.9± 0.4	32.3± 0.5	1347± 125
500ppm	8	10.50± 0.23**	15.0± 0.6	46.2± 1.2**	44.0± 0.5	14.3± 0.3	32.5± 0.7	1411± 71

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

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	10	2.0± 0.3
31ppm	9	2.0± 0.2
63ppm	10	1.9± 0.2
125ppm	10	1.8± 0.3
250ppm	10	1.6± 0.3**
500ppm	8	1.3± 0.2**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	2.52±	0.78	18±	7	78±	10	3±	3	2±	1	0±	0	0±	1
31ppm	9	1.62±	1.22	15±	3	81±	4	2±	1	1±	1	1±	1	0±	1
63ppm	10	1.34±	0.67*	17±	4	79±	5	2±	1	2±	1	0±	0	0±	1
125ppm	10	1.30±	0.96*	22±	15	73±	17	3±	2	2±	1	1±	1	1±	1
250ppm	10	1.04±	0.88**	18±	5	77±	5	2±	1	2±	1	0±	0	1±	1
500ppm	8	1.20±	0.79*	19±	4	76±	3	3±	1	2±	1	0±	1	1±	1

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

TABLE F 2

HEMATOLOGY: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	9	11.00± 0.34	15.9± 0.3	49.0± 0.9	44.5± 0.7	14.5± 0.2	32.5± 0.3	1220± 69
31ppm	10	11.04± 0.30	15.9± 0.7	49.4± 1.3	44.7± 0.5	14.4± 0.5	32.1± 1.1	1208± 55
63ppm	10	10.74± 0.27	15.5± 0.6	48.4± 1.6	45.0± 0.7	14.5± 0.3	32.1± 0.6	1201± 59
125ppm	10	10.71± 0.24	15.5± 0.4	47.9± 1.2	44.7± 0.4	14.5± 0.3	32.4± 0.6	1255± 86
250ppm	10	10.73± 0.17	15.6± 0.5	48.0± 0.9	44.7± 0.5	14.5± 0.4	32.4± 0.8	1237± 79
500ppm	10	10.67± 0.22*	15.3± 0.3	47.5± 0.8*	44.5± 0.4	14.4± 0.2	32.3± 0.4	1192± 43

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

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	9	2.2± 0.5
31ppm	10	2.2± 0.8
63ppm	10	1.9± 0.3
125ppm	10	1.5± 0.2**
250ppm	10	1.6± 0.2**
500ppm	10	1.7± 0.2**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	9	1.10±	0.85	23±	15	72±	15	2±	1	2±	1	0±	0	0±	1
31ppm	10	1.02±	0.50	28±	16	67±	17	2±	2	2±	1	0±	0	0±	0
63ppm	10	0.88±	0.46	24±	12	71±	14	4±	3	1±	1	0±	0	1±	1
125ppm	10	0.91±	0.68	21±	8	75±	9	2±	2	2±	2	0±	0	1±	1
250ppm	10	0.93±	0.35	19±	10	75±	15	3±	4	2±	1	1±	1	1±	1
500ppm	10	0.94±	0.34	22±	7	74±	7	2±	1	2±	1	0±	0	0±	1

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE G 1

BIOCHEMISTRY: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	5.0± 0.2	2.7± 0.1	1.2± 0.1	0.06± 0.01	216± 43	87± 6	51± 12
31ppm	9	5.0± 0.2	2.7± 0.1	1.2± 0.1	0.07± 0.02	177± 38	80± 15	33± 10**
63ppm	10	5.0± 0.2	2.8± 0.1	1.3± 0.1	0.06± 0.01	187± 32	83± 7	38± 12*
125ppm	10	5.2± 0.4	2.8± 0.2	1.2± 0.1	0.06± 0.02	191± 45	88± 27	28± 9**
250ppm	10	5.1± 0.3	2.8± 0.2	1.2± 0.2	0.06± 0.01	187± 32	81± 15	23± 11**
500ppm	8	5.0± 0.2	3.0± 0.1**	1.4± 0.1**	0.09± 0.02**	208± 34	75± 9	17± 6**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	10	186± 13	40± 4	14± 3	134± 47	215± 13	0.1± 0.1	42± 18
31ppm	9	170± 36	47± 14	17± 4	140± 43	229± 16	0.2± 0.2	58± 38
63ppm	10	172± 15	44± 10	15± 5	137± 36	230± 23	0.2± 0.2	66± 47
125ppm	10	167± 26	48± 18	17± 5	153± 49	264± 78	0.2± 0.2	121± 155
250ppm	10	154± 23**	48± 11	19± 6	174± 56	248± 59*	0.2± 0.2	99± 64
500ppm	8	144± 13**	37± 8	16± 2	131± 44	268± 49**	0.1± 0.1	48± 25

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	27.6± 6.5	151± 2	4.2± 0.2	131± 3	8.7± 0.3	5.6± 0.5
31ppm	9	25.6± 2.5	153± 2	4.1± 0.4	132± 4	8.8± 0.4	6.0± 0.9
63ppm	10	26.9± 6.8	152± 2	4.2± 0.3	132± 4	8.7± 0.3	5.9± 0.6
125ppm	10	40.0± 37.1	153± 2	4.3± 0.5	132± 3	9.0± 0.4	6.9± 2.2
250ppm	10	25.6± 4.8	154± 2	4.1± 0.3	132± 3	8.8± 0.3	6.8± 0.6**
500ppm	8	20.9± 2.5*	154± 2	4.5± 0.3	132± 3	8.8± 0.2	6.4± 1.4

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE G 2

BIOCHEMISTRY: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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± 0.2	3.1± 0.1	1.5± 0.1	0.06± 0.02	196± 31	79± 9	21± 10
31ppm	10	5.3± 0.2	3.1± 0.1	1.4± 0.1	0.06± 0.02	199± 42	78± 10	18± 7
63ppm	10	5.3± 0.2	3.1± 0.1	1.4± 0.1	0.06± 0.01	196± 32	71± 8	15± 5
125ppm	10	5.2± 0.2	3.1± 0.1	1.5± 0.1	0.05± 0.00	191± 32	76± 7	20± 5
250ppm	10	5.2± 0.2	3.2± 0.1	1.5± 0.0	0.06± 0.01	202± 30	76± 5	19± 8
500ppm	10	5.1± 0.2	3.1± 0.1	1.6± 0.1	0.06± 0.01	204± 25	75± 5	21± 7

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	10	148± 21	66± 27	22± 8	191± 121	365± 49	0.3± 0.3	165± 287
31ppm	10	143± 16	84± 44	29± 15	233± 134	386± 70	0.2± 0.2	139± 146
63ppm	10	131± 15	86± 45	27± 10	207± 91	420± 41	0.2± 0.2	147± 163
125ppm	10	141± 11	64± 21	22± 8	198± 69	370± 51	0.2± 0.1	118± 67
250ppm	10	140± 13	71± 41	25± 11	209± 134	389± 66	0.1± 0.1	149± 219
500ppm	10	145± 12	63± 39	22± 10	190± 102	363± 27	0.2± 0.2	127± 146

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

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	25.6± 4.0	153± 2	3.5± 0.3	135± 3	8.9± 0.2	6.7± 1.3
31ppm	10	25.4± 4.2	154± 2	3.4± 0.1	136± 4	9.0± 0.2	5.9± 0.5
63ppm	10	25.6± 3.3	154± 2	3.3± 0.1	136± 4	9.0± 0.3	5.9± 0.8
125ppm	10	23.4± 3.3	153± 2	3.4± 0.3	136± 3	9.0± 0.2	6.5± 0.9
250ppm	10	23.9± 2.9	153± 2	3.6± 0.3	136± 4	8.9± 0.2	6.6± 0.6
500ppm	10	22.6± 2.4	153± 2	3.6± 0.3	136± 5	8.9± 0.1	6.7± 0.7

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE H 1

URINALYSIS: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH 5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	Protein −	±	+	2+	3+	4+	CHI	Glucose −	±	+	2+	3+	4+	CHI	Ketone body −	±	+	2+	3+	4+	CHI	Occult blood −	±	+	2+	3+	CHI
Control	10	0	0	0	0	0	5	5		0	6	4	0	0	0		10	0	0	0	0	0		0	4	6	0	0	0		10	0	0	0	0	
31ppm	9	0	0	0	0	5	1	3	*	0	5	3	1	0	0		9	0	0	0	0	0		0	2	4	3	0	0		9	0	0	0	0	
63ppm	10	0	0	1	2	2	0	5	*	2	6	1	1	0	0		10	0	0	0	0	0		2	3	4	1	0	0		10	0	0	0	0	
125ppm	10	0	0	1	0	2	2	5		1	4	4	1	0	0		10	0	0	0	0	0		2	3	3	1	1	0		10	0	0	0	0	
250ppm	10	0	0	1	0	1	1	7		2	4	3	1	0	0		10	0	0	0	0	0		4	3	2	1	0	0		10	0	0	0	0	
500ppm	8	0	0	0	1	2	2	3		0	4	3	1	0	0		8	0	0	0	0	0		0	2	4	2	0	0		8	0	0	0	0	

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of CHI SQUARE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	Urobilinogen ±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0	
31ppm	9	9	0	0	0	0	
63ppm	10	10	0	0	0	0	
125ppm	10	10	0	0	0	0	
250ppm	10	10	0	0	0	0	
500ppm	8	8	0	0	0	0	

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of CHI SQUARE

TABLE H 2

URINALYSIS: FEMALE

STUDY NO. : 0830 URINALYSIS
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

Group Name	NO. of Animals	pH 5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	Protein −	±	+	2+	3+	4+	CHI	Glucose −	±	+	2+	3+	4+	CHI	Ketone body −	±	+	2+	3+	4+	CHI	Occult blood −	±	+	2+	3+	CHI
Control	10	0	0	0	0	0	5	5		0	8	2	0	0	0		10	0	0	0	0	0		0	10	0	0	0	0		10	0	0	0	0	
31ppm	10	0	0	0	1	1	8	0		0	10	0	0	0	0		10	0	0	0	0	0		1	8	1	0	0	0		10	0	0	0	0	
63ppm	10	0	0	0	0	0	6	4		1	7	2	0	0	0		10	0	0	0	0	0		1	7	2	0	0	0		10	0	0	0	0	
125ppm	10	0	0	1	1	0	6	2		0	9	1	0	0	0		10	0	0	0	0	0		2	8	0	0	0	0		10	0	0	0	0	
250ppm	10	0	0	0	0	1	8	1		1	8	1	0	0	0		10	0	0	0	0	0		2	7	1	0	0	0		10	0	0	0	0	
500ppm	10	0	0	0	0	0	7	3		1	9	0	0	0	0		10	0	0	0	0	0		3	7	0	0	0	0		10	0	0	0	0	

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of CHI SQUARE

STUDY NO. : 0830 URINALYSIS
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

Group Name	NO. of Animals	Urobilinogen ±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0	
31ppm	10	10	0	0	0	0	
63ppm	10	10	0	0	0	0	
125ppm	10	10	0	0	0	0	
250ppm	10	10	0	0	0	0	
500ppm	10	10	0	0	0	0	

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of CHI SQUARE

TABLE I 1

GROSS FINDINGS: MALE:

ALL ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	31ppm 10	(%)	63ppm 10	(%)	125ppm 10	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	1	(10)
spleen	atrophic		0	(0)	0	(0)	0	(0)	0	(0)
	black zone		0	(0)	0	(0)	0	(0)	0	(0)
cecum	red zone		0	(0)	1	(10)	0	(0)	0	(0)
kidney	white zone		0	(0)	0	(0)	0	(0)	0	(0)
	hydronephrosis		1	(10)	4	(40)	2	(20)	4	(40)
urin bladd	urine:marked retention		0	(0)	1	(10)	0	(0)	0	(0)

Organ	Findings	Group Name / NO. of Animals	250ppm 10	(%)	500ppm 10	(%)
thymus	atrophic		0	(0)	1	(10)
spleen	atrophic		0	(0)	1	(10)
	black zone		0	(0)	1	(10)
cecum	red zone		0	(0)	0	(0)
kidney	white zone		0	(0)	1	(10)
	hydronephrosis		3	(30)	2	(20)
urin bladd	urine:marked retention		0	(0)	0	(0)

TABLE I 2

GROSS FINDINGS: MALE:

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 14W)

Organ	Findings	Group Name / NO. of Animals	Control 0	(%)	31ppm 1	(%)	63ppm 0	(%)	125ppm 0	(%)
thymus	atrophic		-	(-)	0	(0)	-	(-)	-	(-)
spleen	atrophic		-	(-)	0	(0)	-	(-)	-	(-)
cecum	red zone		-	(-)	1	(100)	-	(-)	-	(-)
kidney	white zone		-	(-)	0	(0)	-	(-)	-	(-)
	hydronephrosis		-	(-)	1	(100)	-	(-)	-	(-)
urin bladd	urine:marked retention		-	(-)	1	(100)	-	(-)	-	(-)

Organ	Findings	Group Name / NO. of Animals	250ppm 0 (%)	500ppm 2 (%)
thymus	atrophic		- (-)	1 (50)
spleen	atrophic		- (-)	1 (50)
cecum	red zone		- (-)	0 (0)
kidney	white zone		- (-)	1 (50)
	hydronephrosis		- (-)	1 (50)
urin bladd	urine:marked retention		- (-)	0 (0)

TABLE I 3

GROSS FINDINGS: MALE:

SACRIFICED ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	31ppm 9	(%)	63ppm 10	(%)	125ppm 10	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	1	(10)
spleen	black zone		0	(0)	0	(0)	0	(0)	0	(0)
kidney	hydronephrosis		1	(10)	3	(33)	2	(20)	4	(40)

Organ	Findings	Group Name / NO. of Animals	250ppm 10	(%)	500ppm 8	(%)
thymus	atrophic		0	(0)	0	(0)
spleen	black zone		0	(0)	1	(13)
kidney	hydronephrosis		3	(30)	1	(13)

TABLE I 4

GROSS FINDINGS: FEMALE

ALL ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

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

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	31ppm 10	(%)	63ppm 10	(%)	125ppm 10	(%)
kidney	hydronephrosis		0	(0)	1	(10)	0	(0)	0	(0)

Organ	Findings	Group Name	250ppm		500ppm	
		NO. of Animals	10	(%)	10	(%)
kidney	hydronephrosis		0	(0)	0	(0)

TABLE J 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	27.7± 1.2	0.029± 0.004	0.011± 0.003	0.286± 0.012	0.160± 0.008	0.153± 0.011
31ppm	9	25.9± 1.7	0.029± 0.005	0.012± 0.003	0.284± 0.026	0.155± 0.010	0.151± 0.014
63ppm	10	26.6± 2.1	0.031± 0.006	0.010± 0.002	0.281± 0.012	0.155± 0.011	0.150± 0.015
125ppm	10	24.3± 2.5**	0.024± 0.008	0.011± 0.002	0.271± 0.033	0.157± 0.016	0.143± 0.018
250ppm	10	24.2± 1.3**	0.029± 0.004	0.011± 0.002	0.265± 0.020	0.140± 0.008**	0.135± 0.009*
500ppm	8	23.6± 0.5**	0.030± 0.004	0.010± 0.001	0.264± 0.012*	0.132± 0.007**	0.140± 0.010

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.510± 0.130	0.055± 0.003	1.066± 0.053	0.464± 0.010
31ppm	9	0.619± 0.355	0.060± 0.012	1.017± 0.067	0.474± 0.022
63ppm	10	0.518± 0.119	0.055± 0.007	1.028± 0.090	0.474± 0.014
125ppm	10	0.698± 0.405	0.052± 0.010	0.924± 0.108**	0.461± 0.023
250ppm	10	0.679± 0.660	0.054± 0.008	0.873± 0.069**	0.455± 0.020
500ppm	8	0.439± 0.109*	0.045± 0.005*	0.852± 0.035**	0.454± 0.016

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE J 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	22.0± 1.1	0.039± 0.005	0.015± 0.002	0.040± 0.007	0.135± 0.012	0.147± 0.008
31ppm	10	22.0± 1.4	0.039± 0.009	0.016± 0.002	0.044± 0.009	0.136± 0.012	0.151± 0.012
63ppm	10	21.1± 0.6	0.033± 0.005	0.015± 0.002	0.036± 0.006	0.132± 0.007	0.147± 0.009
125ppm	10	21.7± 0.9	0.037± 0.004	0.015± 0.002	0.039± 0.007	0.132± 0.005	0.145± 0.014
250ppm	10	21.1± 1.0	0.036± 0.004	0.015± 0.001	0.039± 0.006	0.125± 0.006*	0.146± 0.011
500ppm	10	20.9± 0.6	0.036± 0.004	0.015± 0.002	0.039± 0.005	0.123± 0.009*	0.143± 0.010

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.314± 0.015	0.068± 0.011	0.949± 0.097	0.492± 0.024
31ppm	10	0.383± 0.218	0.069± 0.015	0.953± 0.123	0.493± 0.021
63ppm	10	0.316± 0.017	0.059± 0.009	0.895± 0.066	0.493± 0.020
125ppm	10	0.318± 0.014	0.061± 0.008	0.911± 0.045	0.487± 0.010
250ppm	10	0.314± 0.014	0.058± 0.007	0.875± 0.049*	0.485± 0.016
500ppm	10	0.312± 0.017	0.056± 0.006*	0.866± 0.051*	0.476± 0.013

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE K 1

ORGAN WEIGHT, RELATIVE: MALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	27.7± 1.2	0.104± 0.013	0.039± 0.010	1.036± 0.053	0.578± 0.024	0.554± 0.031
31ppm	9	25.9± 1.7	0.111± 0.018	0.047± 0.012	1.096± 0.082	0.599± 0.023	0.583± 0.052
63ppm	10	26.6± 2.1	0.115± 0.016	0.039± 0.006	1.061± 0.076	0.581± 0.022	0.563± 0.025
125ppm	10	24.3± 2.5**	0.097± 0.027	0.046± 0.011	1.113± 0.058	0.658± 0.143	0.590± 0.053
250ppm	10	24.2± 1.3**	0.118± 0.013	0.045± 0.007	1.094± 0.086	0.578± 0.030	0.559± 0.029
500ppm	8	23.6± 0.5**	0.128± 0.020*	0.040± 0.004	1.122± 0.045	0.560± 0.028	0.595± 0.048

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	1.844± 0.473	0.201± 0.010	3.854± 0.102	1.681± 0.095
31ppm	9	2.361± 1.258	0.232± 0.039	3.929± 0.178	1.835± 0.087**
63ppm	10	1.964± 0.539	0.206± 0.024	3.859± 0.151	1.786± 0.113
125ppm	10	3.015± 2.079	0.214± 0.035	3.801± 0.170	1.910± 0.126**
250ppm	10	2.819± 2.745	0.224± 0.040	3.603± 0.217**	1.880± 0.092**
500ppm	8	1.864± 0.472	0.189± 0.023	3.616± 0.120*	1.927± 0.058**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE K 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	22.0± 1.1	0.175± 0.021	0.067± 0.011	0.181± 0.026	0.616± 0.042	0.671± 0.042
31ppm	10	22.0± 1.4	0.175± 0.034	0.071± 0.009	0.200± 0.028	0.617± 0.037	0.686± 0.039
63ppm	10	21.1± 0.6	0.158± 0.022	0.072± 0.009	0.169± 0.028	0.628± 0.030	0.697± 0.043
125ppm	10	21.7± 0.9	0.169± 0.019	0.069± 0.009	0.181± 0.026	0.611± 0.030	0.668± 0.061
250ppm	10	21.1± 1.0	0.170± 0.013	0.070± 0.005	0.185± 0.024	0.593± 0.035	0.690± 0.060
500ppm	10	20.9± 0.6	0.174± 0.018	0.070± 0.008	0.186± 0.023	0.589± 0.043	0.686± 0.041

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

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	1.427± 0.053	0.306± 0.038	4.311± 0.307	2.242± 0.128
31ppm	10	1.723± 0.918	0.309± 0.054	4.312± 0.332	2.243± 0.138
63ppm	10	1.503± 0.094	0.281± 0.038	4.251± 0.293	2.343± 0.113
125ppm	10	1.471± 0.082	0.281± 0.032	4.204± 0.088	2.251± 0.102
250ppm	10	1.487± 0.083	0.274± 0.026	4.142± 0.181	2.299± 0.139
500ppm	10	1.492± 0.075	0.268± 0.026	4.149± 0.222	2.281± 0.082

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: MALE

ALL ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	eosinophilic change:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	respiratory metaplasia:gland		0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0 *
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	regeneration:olfactory epithelium		0	0	0	0	0	0	0	0	8	0	0	0 **	9	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(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)	(10)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
nasopharynx			<10>				<10>				<10>				<10>			
	eosinophilic change		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)

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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	eosinophilic change:olfactory epithelium		7 (70)	0 (0)	0 (0)	0 ** (0)	7 (70)	0 (0)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium		9 (90)	0 (0)	0 (0)	0 ** (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	respiratory metaplasia:olfactory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		2 (20)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)
	regeneration:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	necrosis:olfactory epithelium		6 (60)	0 (0)	0 (0)	0 * (0)	3 (30)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				<10>			
	eosinophilic change		6 (60)	0 (0)	0 (0)	0 * (0)	9 (90)	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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
thymus			<10>				<10>				<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
spleen			<10>				<10>				<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<10>				<10>				<10>				<10>			
	inflammatory cell nest		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
liver			<10>				<10>				<10>				<10>			
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)										
thymus			<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)
spleen			<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
(Circulatory system)										
heart			<10>				<10>			
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)										
liver			<10>				<10>			
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)																		
kidney			<10>				<10>				<10>				<10>			
	papillomatous polyp		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
	hydronephrosis		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	3 (30)	1 (10)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	3 (30)	1 (10)	0 (0)
	nephrosclerosis		0 (0)	0 (0)	0 (0)	0 (0)	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			<10>				<10>				<10>				<10>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Reproductive system)																		
testis			<10>				<10>				<10>				<10>			
	tubular atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
epididymis			<10>				<10>				<10>				<10>			
	debris of spermatic elements		0 (0)	0 (0)	0 (0)	0 (0)	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

Organ	Findings	Group Name / No. of Animals on Study / Grade	250ppm 10 1+ (%)	250ppm 10 2+ (%)	250ppm 10 3+ (%)	250ppm 10 4+ (%)	500ppm 10 1+ (%)	500ppm 10 2+ (%)	500ppm 10 3+ (%)	500ppm 10 4+ (%)
(Urinary system)										
kidney			<10>				<10>			
	papillomatous polyp		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
	hydronephrosis		0 (0)	3 (30)	0 (0)	0 (0)	1 (10)	1 (10)	1 (10)	0 (0)
	nephrosclerosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
urin bladd			<10>				<10>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Reproductive system)										
testis			<10>				<10>			
	tubular atrophy		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
epididymis			<10>				<10>			
	debris of spermatic elements		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	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

TABLE L 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: MALE

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 14W)

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	0				1				0				0			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<0>				<1>				<0>				<0>			
	eosinophilic change:respiratory epithelium		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	regeneration:olfactory epithelium		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:olfactory epithelium		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
nasopharynx			<0>				<1>				<0>				<0>			
	eosinophilic change		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
(Hematopoietic system)																		
thymus			<0>				<1>				<0>				<0>			
	atrophy		-	-	-	-	0	1	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(100)	(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
? : Significant test is not applied, because No. of data in this group is less than 3.

Organ	Findings	Group Name	250ppm				500ppm				
		No. of Animals on Study	0				2				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
(Respiratory system)											
nasal cavit			< 0>				< 2>				
	eosinophilic change:respiratory epithelium		-	-	-	-	1	0	0	0	?
			(-)	(-)	(-)	(-)	(50)	(0)	(0)	(0)	
	regeneration:olfactory epithelium		-	-	-	-	2	0	0	0	?
			(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)	
	atrophy:olfactory epithelium		-	-	-	-	2	0	0	0	?
			(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)	
	necrosis:olfactory epithelium		-	-	-	-	1	0	0	0	?
			(-)	(-)	(-)	(-)	(50)	(0)	(0)	(0)	
nasopharynx			< 0>				< 2>				
	eosinophilic change		-	-	-	-	1	0	0	0	?
			(-)	(-)	(-)	(-)	(50)	(0)	(0)	(0)	
(Hematopoietic system)											
thymus			< 0>				< 2>				
	atrophy		-	-	-	-	0	0	1	0	?
			(-)	(-)	(-)	(-)	(0)	(0)	(50)	(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
? : Significant test is not applied, because No. of data in this group is less than 3.

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	0				1				0				0			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<0>				<1>				<0>				<0>			
	atrophy		-	-	-	-	0	1	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Urinary system}																		
kidney			<0>				<1>				<0>				<0>			
	hydronephrosis		-	-	-	-	0	0	1	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(100)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	nephrosclerosis		-	-	-	-	0	0	0	0 ?	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Reproductive system}																		
testis			<0>				<1>				<0>				<0>			
	tubular atrophy		-	-	-	-	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
? : Significant test is not applied, because No. of data in this group is less than 3.

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	0				2			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)										
spleen			< 0>				< 2>			
	atrophy		-	-	-	-	0	0	1	0 ?
			(-)	(-)	(-)	(-)	(0)	(0)	(50)	(0)
(Urinary system)										
kidney			< 0>				< 2>			
	hydronephrosis		-	-	-	-	1	0	1	0 ?
			(-)	(-)	(-)	(-)	(50)	(0)	(50)	(0)
	nephrosclerosis		-	-	-	-	0	1	0	0 ?
			(-)	(-)	(-)	(-)	(0)	(50)	(0)	(0)
(Reproductive system)										
testis			< 0>				< 2>			
	tubular atrophy		-	-	-	-	1	0	0	0 ?
			(-)	(-)	(-)	(-)	(50)	(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
? : Significant test is not applied, because No. of data in this group is less than 3.

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	0				1				0				0			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}																		
epididymis			< 0>				< 1>				< 0>				< 0>			
	debris of spermatic elements		- (-)	- (-)	- (-)	- (-)	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
? : Significant test is not applied, because No. of data in this group is less than 3.

Organ	Findings	Group Name		250ppm				500ppm				
		No. of Animals on Study		0				2				
		Grade		1+	2+	3+	4+	1+	2+	3+	4+	
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Reproductive system)												
epididymis			< a >	< 0>				< 2>				
	debris of spermatic elements		b	-	-	-	-	0	1	0	0	?
			(c)	(-)	(-)	(-)	(-)	(0)	(50)	(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
? : Significant test is not applied, because No. of data in this group is less than 3.

TABLE L 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: MALE

SACRIFICED ANIMALS

STUDY NO. : 0830
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				9				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<10>				< 9>				<10>				<10>			
	eosinophilic change: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)	3 (30)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	5 (50)	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)	8 (80)	0 (0)	0 (0)	0 ** (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
	necrosis:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				< 9>				<10>				<10>			
	eosinophilic 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)	3 (30)	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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				8			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				< 8>			
	eosinophilic change:olfactory epithelium		7 (70)	0 (0)	0 (0)	0 (0) **	7 (88)	0 (0)	0 (0)	0 (0) **
	eosinophilic change:respiratory epithelium		9 (90)	0 (0)	0 (0)	0 (0) **	8 (100)	0 (0)	0 (0)	0 (0) **
	respiratory metaplasia:olfactory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		2 (20)	0 (0)	0 (0)	0 (0)	5 (63)	0 (0)	0 (0)	0 (0) *
	regeneration:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	8 (100)	0 (0)	0 (0)	0 (0) **
	atrophy:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	8 (100)	0 (0)	0 (0)	0 (0) **
	necrosis:olfactory epithelium		6 (60)	0 (0)	0 (0)	0 (0) *	2 (25)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				< 8>			
	eosinophilic change		6 (60)	0 (0)	0 (0)	0 (0) *	8 (100)	0 (0)	0 (0)	0 (0) **

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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				9				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)																		
thymus			<10>				< 9>				<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
spleen			<10>				< 9>				<10>				<10>			
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<10>				< 9>				<10>				<10>			
	inflammatory cell nest		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)																		
liver			<10>				< 9>				<10>				<10>			
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	2 (22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney			<10>				< 9>				<10>				<10>			
	papillomatous polyp		0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	2 (22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				8			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Hematopoietic system)										
thymus			<10>				< 8>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen			<10>				< 8>			
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
(Circulatory system)										
heart			<10>				< 8>			
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Digestive system)										
liver			<10>				< 8>			
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)
(Urinary system)										
kidney			<10>				< 8>			
	papillomatous polyp		0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (13)	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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				9				10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<10>				< 9>				<10>				<10>			
	hydronephrosis		0	1	0	0	0	3	0	0	0	2	0	0	0	3	1	0
			(0)	(10)	(0)	(0)	(0)	(33)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(30)	(10)	(0)
urin bladd			<10>				< 9>				<10>				<10>			
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				8			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)										
kidney			<10>				< 8>			
	hydronephrosis		0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)
urin bladd			<10>				< 8>			
	inflammatory infiltration		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

TABLE L 4

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: FEMALE

ALL ANIMALS

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	eosinophilic change:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	9 (90)	1 (10)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	8 (80)	2 (20)	0 (0)	0 ** (0)
	respiratory metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	regeneration:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	necrosis:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				<10>				<10>				<10>			
	eosinophilic change		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)	9 (90)	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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	eosinophilic change:olfactory epithelium		9 (90)	1 (10)	0 (0)	0 (0) **	6 (60)	4 (40)	0 (0)	0 (0) **
	eosinophilic change:respiratory epithelium		8 (80)	2 (20)	0 (0)	0 (0) **	9 (90)	1 (10)	0 (0)	0 (0) **
	respiratory metaplasia:olfactory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		8 (80)	0 (0)	0 (0)	0 (0) **	8 (80)	0 (0)	0 (0)	0 (0) **
	regeneration:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	10 (100)	0 (0)	0 (0)	0 (0) **
	atrophy:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	10 (100)	0 (0)	0 (0)	0 (0) **
	necrosis:olfactory epithelium		6 (60)	0 (0)	0 (0)	0 (0) *	3 (30)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				<10>			
	eosinophilic change		8 (80)	2 (20)	0 (0)	0 (0) **	7 (70)	3 (30)	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

Organ	Findings	Group Name	Control				31ppm				63ppm				125ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)																		
liver			<10>				<10>				<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
(Urinary system)																		
kidney			<10>				<10>				<10>				<10>			
	hyaline cast		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	papillomatous polyp		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hydronephrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	tubular necrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	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)	1 (10)	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

Organ	Findings	Group Name	250ppm				500ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Digestive system)										
liver			<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		3 (30)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
(Urinary system)										
kidney			<10>				<10>			
	hyaline cast		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	papillomatous polyp		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hydronephrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	tubular necrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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