アクリル酸のマウスを用いた
吸入による 13 週間毒性試験報告書

試験番号：0678

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF ACRYLIC ACID IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

CONCENTRATIONS OF ACRYKIC ACID IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
3.6 ppm	3.5 ± 0.2
10.7 ppm	10.3 ± 0.2
32 ppm	31.4 ± 0.4
96 ppm	95.3 ± 0.8
180 ppm	178.0 ± 1.1

TABLE B 1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0678

SURVIVAL ANIMAL NUMBERS

ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]

REPORT TYPE : A1 13

SEX : MALE

Group Name	Animals At start	Administration (Weeks) 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
		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
3.6ppm	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
10.7ppm	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
32ppm	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
96ppm	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	9/10
		100.0	100.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
180ppm	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

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

TABLE B 2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0678
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 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
		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
3.6ppm	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
10.7ppm	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
32ppm	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
96ppm	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
180ppm	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

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

TABLE C 1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0678
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
		1	1	1	1	1	1	1	1	1	1	1	1	1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	3.6ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.7ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	32ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	96ppm	0	0	1	1	1	1	1	1	1	1	1	1	1
	180ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	1	1	0	0	0	0	0	0	0	0	0
	3.6ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.7ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	32ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	96ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	180ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	3.6ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.7ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	32ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	96ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	180ppm	1	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	3.6ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.7ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	32ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	96ppm	0	0	3	3	4	4	2	1	0	0	0	0	0
	180ppm	1	0	5	5	4	4	2	1	0	0	0	0	0
INTERNAL MASS	Control	0	2	2	2	2	2	2	2	2	2	2	2	2
	3.6ppm	0	0	1	1	1	0	0	1	1	1	1	1	1
	10.7ppm	0	0	0	0	1	1	1	1	1	1	1	1	1
	32ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	96ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	180ppm	0	0	0	0	0	1	1	1	1	1	2	2	2
NON REMARKABLE	Control	10	8	8	8	8	8	8	8	8	8	8	8	8
	3.6ppm	10	10	9	9	9	10	10	9	9	9	9	9	9
	10.7ppm	10	10	10	10	9	9	9	9	9	9	9	9	9
	32ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	96ppm	10	10	6	6	5	5	7	8	9	9	9	9	9
	180ppm	9	10	5	5	6	5	7	8	9	9	8	8	8

TABLE C 2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0678
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 1	2-7 1	3-7 1	4-7 1	5-7 1	6-7 1	7-7 1	8-7 1	9-7 1	10-7 1	11-7 1	12-7 1	13-7 1
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	3.6ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10.7ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	32ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	96ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	180ppm	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. : 0678
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>	3.6ppm Av. Wt.	3.6ppm % of cont. <10>	3.6ppm No. of Surviv.	10.7ppm Av. Wt.	10.7ppm % of cont. <10>	10.7ppm No. of Surviv.	32ppm Av. Wt.	32ppm % of cont. <10>	32ppm No. of Surviv.	96ppm Av. Wt.	96ppm % of cont. <10>	96ppm No. of Surviv.	180ppm Av. Wt.	180ppm % of cont. <10>	180ppm No. of Surviv.
0-0	23.9 (10)	10/10	24.0 (10)	100	10/10	24.0 (10)	100	10/10	24.0 (10)	100	10/10	24.0 (10)	100	10/10	24.0 (10)	100	10/10
1-7	24.8 (10)	10/10	24.5 (10)	99	10/10	24.7 (10)	100	10/10	24.6 (10)	99	10/10	24.8 (10)	100	10/10	22.9 (10)	92	10/10
2-7	26.1 (10)	10/10	24.9 (10)	95	10/10	25.6 (10)	98	10/10	24.9 (10)	95	10/10	25.6 (10)	98	10/10	24.0 (10)	92	10/10
3-7	27.0 (10)	10/10	25.4 (10)	94	10/10	26.5 (10)	98	10/10	25.7 (10)	95	10/10	26.3 (9)	97	9/10	25.1 (10)	93	10/10
4-7	27.2 (10)	10/10	25.9 (10)	95	10/10	26.9 (10)	99	10/10	26.0 (10)	96	10/10	26.6 (9)	98	9/10	25.3 (10)	93	10/10
5-7	28.4 (10)	10/10	26.9 (10)	95	10/10	28.0 (10)	99	10/10	26.9 (10)	95	10/10	27.1 (9)	95	9/10	26.1 (10)	92	10/10
6-7	28.8 (10)	10/10	27.5 (10)	95	10/10	28.8 (10)	100	10/10	27.2 (10)	94	10/10	27.8 (9)	97	9/10	26.5 (10)	92	10/10
7-7	29.7 (10)	10/10	27.9 (10)	94	10/10	29.7 (10)	100	10/10	27.7 (10)	93	10/10	28.2 (9)	95	9/10	26.9 (10)	91	10/10
8-7	30.7 (10)	10/10	28.7 (10)	93	10/10	30.1 (10)	98	10/10	28.4 (10)	93	10/10	28.6 (9)	93	9/10	27.5 (10)	90	10/10
9-7	31.5 (10)	10/10	29.9 (10)	95	10/10	30.8 (10)	98	10/10	29.0 (10)	92	10/10	29.4 (9)	93	9/10	28.1 (10)	89	10/10
10-7	32.1 (10)	10/10	30.7 (10)	96	10/10	31.5 (10)	98	10/10	29.5 (10)	92	10/10	29.7 (9)	93	9/10	28.3 (10)	88	10/10
11-7	33.0 (10)	10/10	31.5 (10)	95	10/10	32.6 (10)	99	10/10	30.4 (10)	92	10/10	30.5 (9)	92	9/10	28.9 (10)	88	10/10
12-7	34.1 (10)	10/10	32.5 (10)	95	10/10	33.5 (10)	98	10/10	30.9 (10)	91	10/10	31.1 (9)	91	9/10	29.3 (10)	86	10/10
13-7	34.6 (10)	10/10	32.7 (10)	95	10/10	33.9 (10)	98	10/10	31.3 (10)	90	10/10	31.0 (9)	90	9/10	29.5 (10)	85	10/10

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

TABLE D 2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0678
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>	3.6ppm Av. Wt.	3.6ppm % of cont. <10>	3.6ppm No. of Surviv.	10.7ppm Av. Wt.	10.7ppm % of cont. <10>	10.7ppm No. of Surviv.	32ppm Av. Wt.	32ppm % of cont. <10>	32ppm No. of Surviv.	96ppm Av. Wt.	96ppm % of cont. <10>	96ppm No. of Surviv.	180ppm Av. Wt.	180ppm % of cont. <10>	180ppm No. of Surviv.
0-0	19.3 (10)	10/10	19.3 (10)	100	10/10	19.2 (10)	99	10/10	19.2 (10)	99	10/10	19.2 (10)	99	10/10	19.3 (10)	100	10/10
1-7	20.1 (10)	10/10	19.7 (10)	98	10/10	20.2 (10)	100	10/10	19.5 (10)	97	10/10	20.0 (10)	100	10/10	19.5 (10)	97	10/10
2-7	20.7 (10)	10/10	20.5 (10)	99	10/10	20.6 (10)	100	10/10	20.3 (10)	98	10/10	20.6 (10)	100	10/10	19.5 (10)	94	10/10
3-7	21.6 (10)	10/10	21.1 (10)	98	10/10	21.5 (10)	100	10/10	21.2 (10)	98	10/10	21.3 (10)	99	10/10	20.8 (10)	96	10/10
4-7	22.2 (10)	10/10	21.6 (10)	97	10/10	22.2 (10)	100	10/10	21.7 (10)	98	10/10	21.9 (10)	99	10/10	20.9 (10)	94	10/10
5-7	22.5 (10)	10/10	22.3 (10)	99	10/10	23.2 (10)	103	10/10	22.6 (10)	100	10/10	22.8 (10)	101	10/10	21.3 (10)	95	10/10
6-7	23.1 (10)	10/10	23.1 (10)	100	10/10	23.7 (10)	103	10/10	23.1 (10)	100	10/10	23.1 (10)	100	10/10	22.0 (10)	95	10/10
7-7	23.5 (10)	10/10	23.4 (10)	100	10/10	24.0 (10)	102	10/10	23.7 (10)	101	10/10	23.6 (10)	100	10/10	22.3 (10)	95	10/10
8-7	24.5 (10)	10/10	24.0 (10)	98	10/10	24.4 (10)	100	10/10	24.0 (10)	98	10/10	23.9 (10)	98	10/10	23.2 (10)	95	10/10
9-7	24.7 (10)	10/10	24.5 (10)	99	10/10	24.5 (10)	99	10/10	24.1 (10)	98	10/10	24.4 (10)	99	10/10	23.4 (10)	95	10/10
10-7	25.0 (10)	10/10	25.1 (10)	100	10/10	25.3 (10)	101	10/10	24.7 (10)	99	10/10	24.9 (10)	100	10/10	23.9 (10)	96	10/10
11-7	24.8 (10)	10/10	25.4 (10)	102	10/10	25.5 (10)	103	10/10	24.6 (10)	99	10/10	25.1 (10)	101	10/10	23.8 (10)	96	10/10
12-7	25.5 (10)	10/10	25.7 (10)	101	10/10	26.0 (10)	102	10/10	25.2 (10)	99	10/10	25.5 (10)	100	10/10	24.2 (10)	95	10/10
13-7	26.3 (10)	10/10	25.8 (10)	98	10/10	26.2 (10)	100	10/10	25.2 (10)	96	10/10	26.1 (10)	99	10/10	24.2 (10)	92	10/10

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

TABLE D 3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0678
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	23.9± 0.9	24.8± 1.3	26.1± 1.1	27.0± 2.0	27.2± 3.3	28.4± 1.8	28.8± 2.9
3.6ppm	24.0± 0.9	24.5± 1.1	24.9± 1.0	25.4± 1.6	25.9± 1.3*	26.9± 1.2	27.5± 1.4
10.7ppm	24.0± 0.9	24.7± 1.0	25.6± 1.3	26.5± 1.6	26.9± 1.7	28.0± 1.9	28.8± 2.1
32ppm	24.0± 0.8	24.6± 1.1	24.9± 1.1	25.7± 1.4	26.0± 1.6*	26.9± 1.6	27.2± 1.9
96ppm	24.0± 0.9	24.8± 1.0	25.6± 1.0	26.3± 1.4	26.6± 1.3	27.1± 1.4	27.8± 1.5
180ppm	24.0± 0.8	22.9± 2.8	24.0± 1.1**	25.1± 1.2	25.3± 1.3**	26.1± 1.3**	26.5± 1.4

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

STUDY NO. : 0678
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	29.7± 2.4	30.7± 2.6	31.5± 2.7	32.1± 2.8	33.0± 2.9	34.1± 2.8	34.6± 2.9
3.6ppm	27.9± 1.4	28.7± 1.6	29.9± 2.1	30.7± 2.4	31.5± 2.3	32.5± 2.5	32.7± 2.4
10.7ppm	29.7± 2.2	30.1± 2.5	30.8± 2.6	31.5± 3.1	32.6± 3.1	33.5± 3.3	33.9± 3.0
32ppm	27.7± 1.9	28.4± 1.7	29.0± 1.9	29.5± 2.2	30.4± 2.4	30.9± 2.9*	31.3± 3.4*
96ppm	28.2± 1.5	28.6± 1.8	29.4± 2.1	29.7± 2.1	30.5± 2.0	31.1± 2.0	31.0± 1.8*
180ppm	26.9± 1.3**	27.5± 1.5**	28.1± 1.5**	28.3± 1.7**	28.9± 1.9**	29.3± 1.9**	29.5± 2.2**

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

TABLE D 4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0678
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	19.3± 0.6	20.1± 0.9	20.7± 0.9	21.6± 0.9	22.2± 0.9	22.5± 0.8	23.1± 0.9
3.6ppm	19.3± 0.6	19.7± 0.8	20.5± 1.3	21.1± 1.1	21.6± 1.1	22.3± 1.1	23.1± 0.9
10.7ppm	19.2± 0.7	20.2± 0.7	20.6± 0.5	21.5± 0.5	22.2± 0.6	23.2± 0.6	23.7± 0.8
32ppm	19.2± 0.7	19.5± 0.8	20.3± 0.8	21.2± 0.9	21.7± 0.9	22.6± 0.9	23.1± 0.6
96ppm	19.2± 0.8	20.0± 1.0	20.6± 0.9	21.3± 0.9	21.9± 1.2	22.8± 1.2	23.1± 0.9
180ppm	19.3± 0.6	19.5± 0.6	19.5± 0.6*	20.8± 0.7	20.9± 0.5**	21.3± 0.5*	22.0± 0.7*

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

STUDY NO. : 0678
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	23.5± 1.3	24.5± 1.0	24.7± 1.0	25.0± 1.3	24.8± 1.3	25.5± 1.1	26.3± 1.2
3.6ppm	23.4± 1.0	24.0± 1.1	24.5± 1.0	25.1± 1.2	25.4± 0.6	25.7± 0.9	25.8± 1.0
10.7ppm	24.0± 0.7	24.4± 0.8	24.5± 1.0	25.3± 1.1	25.5± 0.9	26.0± 0.9	26.2± 0.9
32ppm	23.7± 0.8	24.0± 1.2	24.1± 0.9	24.7± 0.7	24.6± 0.8	25.2± 1.0	25.2± 1.0
96ppm	23.6± 0.7	23.9± 1.2	24.4± 1.4	24.9± 1.2	25.1± 1.2	25.5± 1.3	26.1± 1.5
180ppm	22.3± 0.8*	23.2± 0.6	23.4± 0.8	23.9± 0.9	23.8± 1.1	24.2± 0.7*	24.2± 1.0**

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

TABLE E 1

FOOD CONSUMPTION CHANGES AND SURVIVAL

ANIMAL NUMBERS · MALE

STUDY NO. : 0678
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>	3.6ppm Av. FC.	3.6ppm % of cont. <10>	3.6ppm No. of Surviv.	10.7ppm Av. FC.	10.7ppm % of cont. <10>	10.7ppm No. of Surviv.	32ppm Av. FC.	32ppm % of cont. <10>	32ppm No. of Surviv.	96ppm Av. FC.	96ppm % of cont. <10>	96ppm No. of Surviv.	180ppm Av. FC.	180ppm % of cont. <10>	180ppm No. of Surviv.
1-7	4.0 (10)	10/10	4.0 (10)	100	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10	4.1 (10)	103	10/10	3.5 (10)	88	10/10
2-7	4.1 (10)	10/10	3.8 (10)	93	10/10	4.0 (10)	98	10/10	3.9 (10)	95	10/10	4.0 (10)	98	10/10	3.9 (10)	95	10/10
3-7	4.5 (10)	10/10	4.2 (10)	93	10/10	4.2 (10)	93	10/10	4.0 (10)	89	10/10	3.7 (10)	82	9/10	3.8 (10)	84	10/10
4-7	4.3 (10)	10/10	4.1 (10)	95	10/10	4.6 (10)	107	10/10	4.3 (10)	100	10/10	4.1 (9)	95	9/10	3.8 (10)	88	10/10
5-7	4.5 (10)	10/10	4.3 (10)	96	10/10	4.4 (10)	98	10/10	4.2 (10)	93	10/10	4.1 (9)	91	9/10	3.9 (10)	87	10/10
6-7	4.5 (10)	10/10	4.4 (10)	98	10/10	4.4 (10)	98	10/10	4.2 (10)	93	10/10	4.2 (9)	93	9/10	3.9 (10)	87	10/10
7-7	4.5 (10)	10/10	4.4 (10)	98	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10	4.2 (9)	93	9/10	3.9 (10)	87	10/10
8-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.4 (10)	98	10/10	4.3 (10)	96	10/10	4.2 (9)	93	9/10	4.0 (10)	89	10/10
9-7	4.4 (10)	10/10	4.5 (10)	102	10/10	4.6 (10)	105	10/10	4.2 (10)	95	10/10	4.2 (9)	95	9/10	3.9 (10)	89	10/10
10-7	4.4 (10)	10/10	4.5 (10)	102	10/10	4.5 (10)	102	10/10	4.3 (10)	98	10/10	4.2 (9)	95	9/10	3.8 (10)	86	10/10
11-7	4.4 (10)	10/10	4.6 (10)	105	10/10	4.6 (10)	105	10/10	4.4 (10)	100	10/10	4.4 (9)	100	9/10	3.9 (10)	89	10/10
12-7	4.6 (10)	10/10	4.6 (10)	100	10/10	4.5 (10)	98	10/10	4.3 (10)	93	10/10	4.4 (9)	96	9/10	3.9 (10)	85	10/10
13-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10	4.3 (9)	96	9/10	3.9 (10)	87	10/10

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

TABLE E 2

FOOD CONSUMPTION CHANGES AND SURVIVAL

ANIMAL NUMBERS : FEMALE

STUDY NO. : 0678
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>	3.6ppm Av. FC.	3.6ppm % of cont. <10>	3.6ppm No. of Surviv.	10.7ppm Av. FC.	10.7ppm % of cont. <10>	10.7ppm No. of Surviv.	32ppm Av. FC.	32ppm % of cont. <10>	32ppm No. of Surviv.	96ppm Av. FC.	96ppm % of cont. <10>	96ppm No. of Surviv.	180ppm Av. FC.	180ppm % of cont. <10>	180ppm No. of Surviv.
1-7	3.4 (10)	10/10	3.3 (10)	97	10/10	3.5 (10)	103	10/10	3.4 (10)	100	10/10	3.4 (10)	100	10/10	3.1 (10)	91	10/10
2-7	3.6 (10)	10/10	3.6 (10)	100	10/10	3.7 (10)	103	10/10	3.6 (10)	100	10/10	3.5 (10)	97	10/10	3.1 (10)	86	10/10
3-7	3.9 (10)	10/10	4.0 (10)	103	10/10	3.9 (10)	100	10/10	3.9 (10)	100	10/10	3.7 (10)	95	10/10	3.4 (10)	87	10/10
4-7	4.1 (10)	10/10	4.2 (10)	102	10/10	4.3 (10)	105	10/10	4.0 (10)	98	10/10	3.9 (10)	95	10/10	3.5 (10)	85	10/10
5-7	4.2 (10)	10/10	4.2 (10)	100	10/10	4.5 (10)	107	10/10	4.2 (10)	100	10/10	4.0 (10)	95	10/10	3.6 (10)	86	10/10
6-7	4.3 (10)	10/10	4.4 (10)	102	10/10	4.8 (10)	112	10/10	4.3 (10)	100	10/10	4.0 (10)	93	10/10	3.7 (10)	86	10/10
7-7	4.5 (10)	10/10	4.7 (9)	104	10/10	4.7 (10)	104	10/10	4.4 (10)	98	10/10	4.2 (10)	93	10/10	3.8 (10)	84	10/10
8-7	4.5 (10)	10/10	4.8 (10)	107	10/10	5.0 (10)	111	10/10	4.4 (10)	98	10/10	4.3 (10)	96	10/10	3.9 (10)	87	10/10
9-7	4.4 (10)	10/10	5.0 (10)	114	10/10	4.9 (10)	111	10/10	4.3 (10)	98	10/10	4.3 (10)	98	10/10	3.8 (10)	86	10/10
10-7	4.4 (10)	10/10	4.8 (10)	109	10/10	4.8 (10)	109	10/10	4.4 (10)	100	10/10	4.3 (10)	98	10/10	3.9 (10)	89	10/10
11-7	4.5 (10)	10/10	4.7 (10)	104	10/10	5.0 (10)	111	10/10	4.4 (10)	98	10/10	4.2 (10)	93	10/10	3.8 (10)	84	10/10
12-7	4.5 (10)	10/10	4.6 (10)	102	10/10	4.7 (10)	104	10/10	4.5 (10)	100	10/10	4.2 (10)	93	10/10	3.9 (10)	87	10/10
13-7	4.5 (10)	10/10	4.6 (10)	102	10/10	4.7 (10)	104	10/10	4.4 (10)	98	10/10	4.5 (10)	100	10/10	3.9 (10)	87	10/10

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

TABLE E 3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0678
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	4.0± 0.3	4.1± 0.5	4.5± 0.6	4.3± 0.2	4.5± 0.8	4.5± 0.3	4.5± 0.5
3.6ppm	4.0± 0.3	3.8± 0.2	4.2± 0.6	4.1± 0.4	4.3± 0.2	4.4± 0.2	4.4± 0.2
10.7ppm	4.0± 0.3	4.0± 0.2	4.2± 0.2	4.6± 0.8	4.4± 0.4	4.4± 0.3	4.5± 0.3
32ppm	3.9± 0.3	3.9± 0.2	4.0± 0.3*	4.3± 0.7	4.2± 0.2	4.2± 0.4	4.3± 0.4
96ppm	4.1± 0.3	4.0± 0.5	4.1± 0.4	4.1± 0.4	4.1± 0.4	4.2± 0.4	4.2± 0.4
180ppm	3.5± 0.7	3.9± 0.5	3.8± 0.2**	3.8± 0.3*	3.9± 0.3**	3.9± 0.3**	3.9± 0.2**

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

STUDY NO. : 0678
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± 0.2	4.4± 0.2	4.4± 0.2	4.4± 0.4	4.6± 0.3	4.5± 0.3
3.6ppm	4.5± 0.2	4.5± 0.3	4.5± 0.3	4.6± 0.3	4.6± 0.2	4.5± 0.3
10.7ppm	4.4± 0.3	4.6± 0.4	4.5± 0.3	4.6± 0.6	4.5± 0.3	4.5± 0.3
32ppm	4.3± 0.3	4.2± 0.3	4.3± 0.4	4.4± 0.3	4.3± 0.3	4.3± 0.3
96ppm	4.2± 0.4	4.2± 0.5	4.2± 0.4	4.4± 0.4	4.4± 0.3	4.3± 0.4
180ppm	4.0± 0.2**	3.9± 0.3**	3.8± 0.3**	3.9± 0.3*	3.9± 0.2**	3.9± 0.3**

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

TABLE E 4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0678
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	3.4± 0.3	3.6± 0.3	3.9± 0.4	4.1± 0.4	4.2± 0.4	4.3± 0.5	4.5± 0.5
3.6ppm	3.3± 0.3	3.6± 0.4	4.0± 0.8	4.2± 0.9	4.2± 0.4	4.4± 0.4	4.7± 0.5
10.7ppm	3.5± 0.3	3.7± 0.2	3.9± 0.2	4.3± 0.3	4.5± 0.3	4.8± 0.7**	4.7± 0.2
32ppm	3.4± 0.2	3.6± 0.2	3.9± 0.2	4.0± 0.3	4.2± 0.2	4.3± 0.2	4.4± 0.2
96ppm	3.4± 0.2	3.5± 0.2	3.7± 0.2	3.9± 0.2	4.0± 0.2	4.0± 0.1	4.2± 0.2
180ppm	3.1± 0.2	3.1± 0.1**	3.4± 0.2**	3.5± 0.2**	3.6± 0.2**	3.7± 0.2**	3.8± 0.3**

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

STUDY NO. : 0678
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	4.5± 0.3	4.4± 0.3	4.4± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4
3.6ppm	4.8± 0.9	5.0± 1.0	4.8± 0.5*	4.7± 0.5	4.6± 0.4	4.6± 0.5
10.7ppm	5.0± 0.9	4.9± 0.7	4.8± 0.3*	5.0± 0.8	4.7± 0.5	4.7± 0.4
32ppm	4.4± 0.2	4.3± 0.3	4.4± 0.2	4.4± 0.2	4.5± 0.4	4.4± 0.3
96ppm	4.3± 0.3	4.3± 0.2	4.3± 0.1	4.2± 0.2	4.2± 0.2	4.5± 0.2
180ppm	3.9± 0.3**	3.8± 0.2**	3.9± 0.1**	3.8± 0.2**	3.9± 0.2**	3.9± 0.2**

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

TABLE F 1

HEMATOLOGY : MALE

STUDY NO. : 0678
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 f ℓ	MCH p g	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	10	10.47± 0.73	15.7± 1.5	45.3± 3.8	43.3± 0.9	15.0± 0.5	34.7± 0.5	1293± 117
3.6ppm	10	10.80± 0.27	16.3± 0.5	47.1± 1.5	43.6± 0.6	15.1± 0.2	34.6± 0.6	1248± 137
10.7ppm	10	10.71± 0.25	16.2± 0.4	46.5± 0.8	43.4± 0.6	15.1± 0.3	34.8± 0.5	1250± 85
32ppm	10	10.98± 0.29	16.4± 0.5	47.5± 1.6	43.3± 1.5	15.0± 0.5	34.5± 0.5	1284± 93
96ppm	9	10.99± 0.40	16.6± 0.6	47.7± 1.4	43.5± 0.7	15.1± 0.1	34.7± 0.4	1285± 153
180ppm	10	11.09± 0.49	16.5± 0.5	47.7± 1.6	43.1± 0.9	14.9± 0.3	34.6± 0.6	1259± 90

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

STUDY NO. : 0678
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	2.4± 0.7
3.6ppm	10	2.2± 0.2
10.7ppm	10	2.1± 0.2
32ppm	10	2.2± 0.3
96ppm	9	2.1± 0.2
180ppm	10	2.1± 0.2

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

STUDY NO. : 0678
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 (%) N-BAND	N-SEG	EOSINO	BASO	MONO	LYMPHO	OTHER
Control	10	2.53± 0.72	0± 0	16± 4	2± 1	0± 0	2± 1	80± 4	0± 0
3.6ppm	10	3.58± 1.72	0± 1	14± 3	2± 1	0± 0	2± 2	81± 4	0± 0
10.7ppm	10	2.73± 1.27	1± 1	15± 5	2± 2	0± 0	3± 2	80± 7	0± 0
32ppm	10	3.44± 1.47	1± 1	15± 5	3± 2	0± 0	2± 1	80± 6	0± 0
96ppm	9	2.96± 1.70	0± 0	14± 4	2± 2	0± 0	3± 2	82± 5	0± 0
180ppm	10	3.56± 2.17	1± 1	15± 4	2± 2	0± 0	2± 1	81± 5	0± 0

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

TABLE F 2

HEMATOLOGY : FEMALE

STUDY NO. : 0678
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 f ℓ	MCH p g	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	10	10.86± 0.28	16.7± 0.6	47.3± 1.5	43.5± 0.5	15.3± 0.2	35.2± 0.5	1172± 50
3.6ppm	9	10.92± 0.25	16.7± 0.4	47.5± 1.1	43.5± 0.9	15.3± 0.1	35.2± 0.5	1145± 77
10.7ppm	10	10.96± 0.22	16.8± 0.3	47.5± 0.8	43.3± 0.6	15.3± 0.2	35.4± 0.3	1190± 43
32ppm	10	10.88± 0.28	16.7± 0.4	47.1± 1.0	43.3± 0.6	15.4± 0.2	35.5± 0.5	1157± 78
96ppm	10	11.02± 0.27	16.9± 0.5	48.0± 1.2	43.5± 0.4	15.4± 0.1	35.3± 0.4	1178± 79
180ppm	7	11.01± 0.36	16.7± 0.5	47.8± 1.6	43.4± 0.3	15.2± 0.2	35.0± 0.5	1111± 69

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

Group Name	NO. of Animals	RETICULOCYTE %
Control	10	2.4± 0.4
3.6ppm	9	2.1± 0.4
10.7ppm	10	2.4± 0.2
32ppm	10	2.3± 0.3
96ppm	10	2.6± 0.7
180ppm	7	2.0± 0.3

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

STUDY NO. : 0678
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 (%) N-BAND	N-SEG	EOSINO	BASO	MONO	LYMPHO	OTHER
Control	10	3.32± 1.95	0± 0	16± 5	2± 1	0± 0	2± 1	80± 5	0± 0
3.6ppm	9	2.51± 1.75	1± 1	22± 8	1± 1	0± 0	2± 1	75± 8	0± 0
10.7ppm	10	3.29± 2.03	1± 1	14± 5	2± 1	0± 0	1± 1	83± 6	0± 0
32ppm	10	3.14± 1.55	0± 1	16± 7	2± 1	0± 0	1± 1	81± 8	0± 0
96ppm	10	3.83± 1.63	1± 1	15± 4	2± 1	0± 0	1± 1	81± 5	0± 0
180ppm	7	3.56± 1.79	0± 1	16± 3	2± 1	0± 0	1± 1	81± 4	0± 0

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

TABLE G 1

BIOCHEMISTRY : MALE

STUDY NO. : 0678
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	5.2± 0.2	2.8± 0.1	1.1± 0.1	0.13± 0.01	238± 31	89± 11	45± 19
3.6ppm	10	5.0± 0.1	2.7± 0.1	1.1± 0.0	0.13± 0.01	189± 27*	82± 9	40± 10
10.7ppm	10	5.1± 0.2	2.7± 0.1	1.2± 0.1	0.14± 0.01	203± 45	81± 10	43± 20
32ppm	10	5.1± 0.3	2.7± 0.2	1.1± 0.1	0.14± 0.02	189± 39*	80± 11	41± 20
96ppm	9	5.1± 0.2	2.8± 0.2	1.2± 0.1	0.14± 0.01	197± 33	73± 10**	32± 8
180ppm	10	5.2± 0.2	2.8± 0.1	1.2± 0.1	0.14± 0.01	227± 31	74± 8**	31± 14

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

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	175± 18	45± 8	16± 2	249± 75	167± 40	1± 1	45± 12
3.6ppm	10	165± 16	47± 5	16± 1	253± 52	164± 21	0± 0	48± 12
10.7ppm	10	163± 18	46± 8	17± 2	270± 112	158± 9	0± 1	48± 19
32ppm	10	162± 20	56± 32	19± 4	331± 172	159± 30	1± 1	136± 151
96ppm	9	151± 18	46± 9	17± 3	257± 51	158± 14	0± 1	44± 12
180ppm	10	155± 18	41± 4	14± 1	250± 54	162± 14	0± 1	56± 34

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

STUDY NO. : 0678
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	30.9± 9.9	152± 1	4.3± 0.3	121± 2	8.9± 0.4	6.5± 0.6
3.6ppm	10	26.2± 2.8	152± 1	4.3± 0.3	121± 2	8.7± 0.3	6.4± 0.6
10.7ppm	10	27.2± 2.4	152± 1	4.4± 0.3	121± 1	8.7± 0.3	6.2± 1.1
32ppm	10	26.8± 3.3	151± 1	4.4± 0.3	120± 2	8.7± 0.2	6.6± 0.9
96ppm	9	25.4± 3.7	152± 1	4.4± 0.3	121± 2	8.6± 0.2	6.2± 0.8
180ppm	10	27.2± 6.9	151± 1	4.4± 0.4	119± 2	8.7± 0.3	6.1± 0.6

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

TABLE G 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0678
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± 0.1	3.0± 0.1	1.4± 0.1	0.12± 0.01	183± 31	77± 8	26± 11
3.6ppm	10	5.4± 0.2	3.1± 0.2	1.4± 0.1	0.12± 0.01	173± 27	81± 13	23± 11
10.7ppm	10	5.3± 0.1	3.0± 0.1	1.4± 0.1	0.12± 0.01	168± 21	74± 7	20± 5
32ppm	10	5.2± 0.1	3.0± 0.1	1.4± 0.1	0.12± 0.01	167± 26	74± 9	21± 10
96ppm	10	5.2± 0.2	3.1± 0.2	1.4± 0.1	0.13± 0.01	186± 25	78± 9	23± 9
180ppm	9	5.1± 0.2	3.1± 0.1	1.5± 0.1	0.13± 0.01**	195± 22	72± 10	19± 6

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

STUDY NO. : 0678
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 IU/ℓ	ALT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CK IU/ℓ
Control	10	153± 22	54± 9	19± 2	248± 57	234± 25	1± 1	67± 40
3.6ppm	10	155± 26	69± 18	23± 5	345± 74**	265± 46	0± 0	105± 46*
10.7ppm	10	149± 16	53± 6	19± 2	294± 43	244± 17	0± 0	64± 14
32ppm	10	143± 15	54± 7	21± 1	284± 89	242± 18	0± 0	73± 45
96ppm	10	152± 17	51± 10	19± 5	292± 55	226± 32	0± 0	78± 15
180ppm	9	138± 20	47± 7	17± 2	259± 67	241± 16	0± 1	57± 10

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

STUDY NO. : 0678
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	23.0± 2.1	151± 2	4.2± 0.5	120± 2	8.7± 0.1	5.8± 1.0
3.6ppm	10	26.0± 5.8	151± 1	4.5± 0.4	121± 2	8.7± 0.2	6.4± 0.8
10.7ppm	10	21.2± 2.1	152± 1	4.4± 0.4	121± 2	8.7± 0.1	5.8± 1.0
32ppm	10	22.0± 2.3	152± 2	4.4± 0.3	121± 2	8.8± 0.2	5.8± 0.9
96ppm	10	21.8± 2.7	150± 1	4.5± 0.4	120± 2	8.8± 0.2	5.6± 0.8
180ppm	9	22.8± 2.5	151± 2	4.5± 0.3	120± 1	8.7± 0.2	5.1± 0.7

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

TABLE H 1

URINALYSIS : MALE

STUDY NO. : 0678
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	1	1	1	0	1	6		0	4	6	0	0	0		10	0	0	0	0	0		3	5	2	0	0	0		10	0	0	0	0	
3.6ppm	10	0	0	2	1	3	1	3		0	3	6	1	0	0		10	0	0	0	0	0		4	5	1	0	0	0		10	0	0	0	0	
10.7ppm	10	0	0	0	1	2	2	5		0	0	7	3	0	0	*	10	0	0	0	0	0		1	2	6	1	0	0		10	0	0	0	0	
32ppm	10	0	1	1	1	3	2	2		0	2	6	2	0	0		10	0	0	0	0	0		4	3	1	2	0	0		9	1	0	0	0	
96ppm	9	0	0	1	0	1	4	3		0	1	3	5	0	0	*	9	0	0	0	0	0		0	2	3	3	1	0		9	0	0	0	0	
180ppm	10	0	0	0	0	2	1	7		0	1	8	1	0	0		10	0	0	0	0	0		2	4	4	0	0	0		10	0	0	0	0	

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

Group Name	NO. of Animals	Urobilinogen ±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0	
3.6ppm	10	10	0	0	0	0	
10.7ppm	10	10	0	0	0	0	
32ppm	10	10	0	0	0	0	
96ppm	9	9	0	0	0	0	
180ppm	10	10	0	0	0	0	

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

TABLE H 2

URINALYSIS : FEMALE

STUDY NO. : 0678
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
MEASURE. TIME : 1
SEX : FEMALE 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	1	2	6	1		0	1	6	3	0	0		10	0	0	0	0	0		1	9	0	0	0	0		10	0	0	0	0	
3.6ppm	10	0	0	1	1	3	4	1		0	1	8	1	0	0		10	0	0	0	0	0		3	7	0	0	0	0		10	0	0	0	0	
10.7ppm	10	0	0	0	1	2	5	2		0	3	5	2	0	0		10	0	0	0	0	0		2	6	2	0	0	0		10	0	0	0	0	
32ppm	10	0	0	1	0	2	6	1		0	1	6	3	0	0		10	0	0	0	0	0		0	10	0	0	0	0		10	0	0	0	0	
96ppm	10	0	0	0	0	1	7	2		0	2	6	2	0	0		10	0	0	0	0	0		2	8	0	0	0	0		10	0	0	0	0	
180ppm	10	0	0	0	0	0	7	3		0	4	6	0	0	0		10	0	0	0	0	0		2	8	0	0	0	0		10	0	0	0	0	

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

STUDY NO. : 0678 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	
3.6ppm	10	10	0	0	0	0	
10.7ppm	10	10	0	0	0	0	
32ppm	10	10	0	0	0	0	
96ppm	10	10	0	0	0	0	
180ppm	10	10	0	0	0	0	

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

TABLE I 1

GROSS FINDINGS : MALE

: SACRIFICED ANIMALS

STUDY NO. : 0678
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name	Control	3.6ppm	10.7ppm	32ppm
		NO. of Animals	10 (%)	10 (%)	10 (%)	10 (%)
kidney	hydronephrosis		2 (20)	2 (20)	1 (10)	1 (10)

STUDY NO. : 0678
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name	96ppm	180ppm
		NO. of Animals	9 (%)	10 (%)
kidney	hydronephrosis		0 (0)	2 (20)

TABLE I 2

GROSS FINDINGS : FEMALE

: SACRIFICED ANIMALS

STUDY NO. : 0678
ANIMAL : MOUSE B6D2F1/Crlj[Crj:BDF1]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name / NO. of Animals	Control 10 (%)	3.6ppm 10 (%)	10.7ppm 10 (%)	32ppm 10 (%)
kidney	hydronephrosis		0 (0)	1 (10)	0 (0)	0 (0)

Organ	Findings	Group Name	96ppm		180ppm	
		NO. of Animals	10	(%)	10	(%)
kidney	hydronephrosis		0	(0)	0	(0)

TABLE J 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0678
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	31.0± 3.0	0.041± 0.005	0.011± 0.002	0.234± 0.024	0.157± 0.015	0.150± 0.013
3.6ppm	10	29.4± 2.4	0.041± 0.006	0.012± 0.003	0.229± 0.033	0.160± 0.010	0.151± 0.010
10.7ppm	10	30.4± 2.7	0.041± 0.006	0.011± 0.002	0.225± 0.024	0.157± 0.012	0.148± 0.003
32ppm	10	27.6± 3.4*	0.036± 0.008	0.011± 0.002	0.201± 0.045	0.151± 0.009	0.149± 0.011
96ppm	9	27.8± 1.6*	0.035± 0.004	0.012± 0.003	0.212± 0.028	0.154± 0.014	0.150± 0.011
180ppm	10	26.0± 2.2**	0.033± 0.006*	0.012± 0.002	0.232± 0.021	0.149± 0.009	0.145± 0.006

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

STUDY NO. : 0678
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	0.653± 0.430	0.058± 0.016	1.155± 0.073	0.444± 0.009
3.6ppm	10	0.529± 0.154	0.057± 0.009	1.112± 0.059	0.452± 0.008
10.7ppm	10	0.493± 0.143	0.054± 0.007	1.133± 0.087	0.445± 0.009
32ppm	10	0.551± 0.366	0.057± 0.013	1.075± 0.106	0.440± 0.012
96ppm	9	0.448± 0.031	0.049± 0.003	1.078± 0.082	0.444± 0.014
180ppm	10	0.744± 0.739	0.050± 0.007	1.011± 0.064**	0.444± 0.012

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

TABLE J 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0678
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± 0.8	0.043± 0.006	0.016± 0.002	0.024± 0.002	0.133± 0.009	0.147± 0.005
3.6ppm	10	21.4± 0.8	0.040± 0.006	0.016± 0.002	0.027± 0.003	0.130± 0.007	0.145± 0.007
10.7ppm	10	21.9± 0.7	0.042± 0.005	0.016± 0.001	0.026± 0.004	0.129± 0.009	0.146± 0.011
32ppm	10	21.4± 1.0	0.041± 0.005	0.018± 0.005	0.025± 0.002	0.125± 0.010	0.147± 0.006
96ppm	10	22.0± 1.5	0.042± 0.006	0.017± 0.002	0.027± 0.004	0.134± 0.010	0.151± 0.009
180ppm	10	20.4± 0.6**	0.040± 0.004	0.016± 0.002	0.026± 0.003	0.124± 0.008	0.143± 0.006

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

STUDY NO. : 0678
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	0.306± 0.010	0.062± 0.004	0.949± 0.039	0.459± 0.009
3.6ppm	10	0.367± 0.183	0.065± 0.005	0.939± 0.065	0.460± 0.015
10.7ppm	10	0.308± 0.014	0.062± 0.005	0.942± 0.060	0.459± 0.010
32ppm	10	0.300± 0.014	0.056± 0.005	0.910± 0.056	0.462± 0.013
96ppm	10	0.312± 0.021	0.063± 0.009	0.948± 0.082	0.455± 0.012
180ppm	10	0.295± 0.018	0.055± 0.004*	0.853± 0.059**	0.454± 0.011

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

TABLE K 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0678
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	31.0± 3.0	0.133± 0.020	0.036± 0.007	0.758± 0.098	0.511± 0.071	0.487± 0.053
3.6ppm	10	29.4± 2.4	0.139± 0.024	0.042± 0.012	0.783± 0.125	0.547± 0.053	0.515± 0.041
10.7ppm	10	30.4± 2.7	0.134± 0.016	0.035± 0.008	0.745± 0.106	0.518± 0.046	0.492± 0.047
32ppm	10	27.6± 3.4*	0.129± 0.024	0.041± 0.012	0.734± 0.177	0.553± 0.053	0.545± 0.055*
96ppm	9	27.8± 1.6*	0.126± 0.014	0.044± 0.011	0.765± 0.100	0.556± 0.051	0.539± 0.030
180ppm	10	26.0± 2.2**	0.125± 0.019	0.046± 0.008	0.897± 0.103	0.577± 0.046	0.563± 0.052**

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

STUDY NO. : 0678
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	2.211± 1.742	0.191± 0.074	3.736± 0.177	1.445± 0.152
3.6ppm	10	1.815± 0.562	0.196± 0.035	3.796± 0.196	1.547± 0.112
10.7ppm	10	1.633± 0.495	0.179± 0.027	3.739± 0.183	1.474± 0.137
32ppm	10	2.012± 1.337	0.210± 0.064	3.905± 0.184	1.617± 0.205
96ppm	9	1.614± 0.120	0.177± 0.009	3.884± 0.287	1.603± 0.113
180ppm	10	2.878± 2.820	0.192± 0.029	3.898± 0.195	1.718± 0.159**

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

TABLE K 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0678
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± 0.8	0.197± 0.023	0.073± 0.009	0.110± 0.010	0.607± 0.029	0.668± 0.032
3.6ppm	10	21.4± 0.8	0.185± 0.027	0.073± 0.006	0.124± 0.012	0.609± 0.033	0.677± 0.020
10.7ppm	10	21.9± 0.7	0.191± 0.024	0.073± 0.005	0.118± 0.018	0.588± 0.031	0.667± 0.052
32ppm	10	21.4± 1.0	0.190± 0.018	0.082± 0.021	0.115± 0.011	0.583± 0.035	0.690± 0.025
96ppm	10	22.0± 1.5	0.191± 0.021	0.076± 0.009	0.125± 0.024	0.611± 0.037	0.692± 0.059
180ppm	10	20.4± 0.6**	0.196± 0.023	0.076± 0.008	0.128± 0.016	0.605± 0.035	0.702± 0.026

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

STUDY NO. : 0678
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	1.396± 0.031	0.282± 0.016	4.328± 0.173	2.092± 0.095
3.6ppm	10	1.727± 0.913	0.301± 0.018	4.378± 0.204	2.150± 0.106
10.7ppm	10	1.405± 0.057	0.282± 0.023	4.298± 0.188	2.094± 0.053
32ppm	10	1.404± 0.068	0.263± 0.021	4.261± 0.195	2.165± 0.119
96ppm	10	1.421± 0.059	0.284± 0.032	4.314± 0.152	2.079± 0.137
180ppm	10	1.443± 0.059	0.267± 0.019	4.172± 0.236	2.225± 0.110*

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

TABLE L 1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0678
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				3.6ppm				10.7ppm				32ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	squamous cell metaplasia:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

Organ	Findings	Group Name	96ppm				180ppm			
		No. of Animals on Study	1				0			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)										
nasal cavit			< 1>				< 0>			
	squamous cell metaplasia:respiratory epithelium		0	1	0	0	-	-	-	-
			(0)	(100)	(0)	(0)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		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

TABLE L 2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

: SACRIFICED ANIMALS

Organ	Findings	Group Name	Control				3.6ppm				10.7ppm				32ppm			
		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		1	0	0	0	2	0	0	0	7	0	0	0 *	8	0	0	0 **
			(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		0	0	0	0	3	0	0	0	8	0	0	0 **	9	1	0	0 **
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(90)	(10)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	3	0	0	0	5	0	0	0 *	9	0	0	0 **
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	respiratory metaplasia:gland		0	0	0	0	1	0	0	0	2	0	0	0	8	1	0	0 **
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(80)	(10)	(0)	(0)
	squamous cell metaplasia: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)
	atrophy:olfactory nerve		0	0	0	0	0	0	0	0	5	0	0	0 *	7	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(70)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	5	1	0	0 *	4	5	0	0 **	2	8	0	0 **
			(0)	(0)	(0)	(0)	(50)	(10)	(0)	(0)	(40)	(50)	(0)	(0)	(20)	(80)	(0)	(0)
	atrophy: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)

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	96ppm				180ppm			
		No. of Animals on Study	9				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 9>				<10>			
	eosinophilic change:olfactory epithelium		8	0	0	0 **	8	0	0	0 **
			(89)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		6	2	0	0 **	8	2	0	0 **
			(67)	(22)	(0)	(0)	(80)	(20)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		8	0	0	0 **	8	0	0	0 **
			(89)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	respiratory metaplasia:gland		8	0	0	0 **	10	0	0	0 **
			(89)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		3	3	0	0 **	4	5	0	0 **
			(33)	(33)	(0)	(0)	(40)	(50)	(0)	(0)
	atrophy:olfactory nerve		9	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	9	0	0 **	0	10	0	0 **
			(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)
	atrophy:respiratory epithelium		0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10				3.6ppm 10				10.7ppm 10				32ppm 10			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	necrosis: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)
	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			<10>				<10>				<10>				<10>			
	eosinophilic change		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)	3 (30)	0 (0)	0 (0) **
{Hematopoietic system}																		
thymus			<10>				<10>				<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)	0 (0)	0 (0)	0 (0)
{Circulatory system}																		
artery/aort			<10>				<10>				<10>				<10>			
	arthritis		0 (0)	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)

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	96ppm				180ppm			
		No. of Animals on Study	9				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 9>				<10>			
	necrosis:olfactory epithelium		2	0	0	0	7	0	0	0 **
			(22)	(0)	(0)	(0)	(70)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
nasopharynx			< 9>				<10>			
	eosinophilic change		3	4	0	0 **	8	1	0	0 **
			(33)	(44)	(0)	(0)	(80)	(10)	(0)	(0)
{Hematopoietic system}										
thymus			< 9>				<10>			
	atrophy		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Circulatory system}										
artery/aort			< 9>				<10>			
	arthritis		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	Control				3.6ppm				10.7ppm				32ppm			
		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>			
	inflammatory cell nest		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
pancreas			<10>				<10>				<10>				<10>			
	necrosis:focal		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	inflammatory polyp		0	2	0	0	0	1	1	0	0	0	1	0	0	1	0	0
			(0)	(20)	(0)	(0)	(0)	(10)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(10)	(0)	(0)
	hydronephrosis		0	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0
			(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)
{Endocrine system}																		
parathyroid			<10>				<10>				<10>				<10>			
	cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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 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	96ppm				180ppm			
		No. of Animals on Study	9				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			< 9>				<10>			
	inflammatory cell nest		2	0	0	0	0	0	0	0
			(22)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			< 9>				<10>			
	necrosis:focal		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}										
kidney			< 9>				<10>			
	inflammatory polyp		0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(10)	(10)	(0)	(0)
	hydronephrosis		0	0	0	0	0	0	2	0
			(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)
{Endocrine system}										
parathyroid			< 9>				<10>			
	cyst		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	Control				3.6ppm				10.7ppm				32ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis			<10>				<10>				<10>				<10>			
	atrophy		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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	96ppm				180ppm			
		No. of Animals on Study	9				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system)										
testis			< 9>				<10>			
	atrophy		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 3

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

: SACRIFICED ANIMALS

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10 1 (%)	Control 10 2 (%)	Control 10 3 (%)	Control 10 4 (%)	3.6ppm 10 1 (%)	3.6ppm 10 2 (%)	3.6ppm 10 3 (%)	3.6ppm 10 4 (%)	10.7ppm 10 1 (%)	10.7ppm 10 2 (%)	10.7ppm 10 3 (%)	10.7ppm 10 4 (%)	32ppm 10 1 (%)	32ppm 10 2 (%)	32ppm 10 3 (%)	32ppm 10 4 (%)
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	eosinophilic change:olfactory epithelium		2 (20)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	8 (80)	0 (0)	0 (0)	0 * (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	eosinophilic change:respiratory epithelium		4 (40)	0 (0)	0 (0)	0 (0)	6 (60)	3 (30)	0 (0)	0 * (0)	2 (20)	8 (80)	0 (0)	0 ** (0)	3 (30)	7 (70)	0 (0)	0 ** (0)
	respiratory metaplasia:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	8 (80)	2 (20)	0 (0)	0 ** (0)
	respiratory metaplasia:gland		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)	4 (40)	0 (0)	0 (0)	0 (0)	7 (70)	2 (20)	0 (0)	0 ** (0)
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cuboidal 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)	0 (0)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory nerve		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)	8 (80)	2 (20)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	4 (40)	4 (40)	0 (0)	0 ** (0)	1 (10)	9 (90)	0 (0)	0 ** (0)	0 (0)	10 (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

Organ	Findings	Group Name	96ppm				180ppm			
		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		6	3	0	0 **	5	3	0	0 *
			(60)	(30)	(0)	(0)	(50)	(30)	(0)	(0)
	eosinophilic change:respiratory epithelium		2	8	0	0 **	5	5	0	0 **
			(20)	(80)	(0)	(0)	(50)	(50)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		8	2	0	0 **	7	3	0	0 **
			(80)	(20)	(0)	(0)	(70)	(30)	(0)	(0)
	respiratory metaplasia:gland		6	4	0	0 **	8	2	0	0 **
			(60)	(40)	(0)	(0)	(80)	(20)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		3	4	0	0 **	4	5	0	0 **
			(30)	(40)	(0)	(0)	(40)	(50)	(0)	(0)
	cuboidal change:respiratory epithelium		3	0	0	0	1	0	0	0
			(30)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	atrophy:olfactory nerve		8	2	0	0 **	5	5	0	0 **
			(80)	(20)	(0)	(0)	(50)	(50)	(0)	(0)
	atrophy:olfactory epithelium		0	10	0	0 **	0	10	0	0 **
			(0)	(100)	(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

Organ	Findings	Group Name	Control				3.6ppm				10.7ppm				32ppm			
		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>			
	atrophy: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)
	necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0 *
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
nasopharynx			<10>				<10>				<10>				<10>			
	eosinophilic change		2	1	0	0	0	2	0	0	6	3	0	0 *	4	5	0	0 *
			(20)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(60)	(30)	(0)	(0)	(40)	(50)	(0)	(0)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	inflammatory cell nest		1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	inflammatory polyp		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)	(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	96ppm				180ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	atrophy:respiratory epithelium		0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	necrosis:olfactory epithelium		3	0	0	0	5	0	0	0 *
			(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
nasopharynx			<10>				<10>			
	eosinophilic change		8	2	0	0 **	5	5	0	0 **
			(80)	(20)	(0)	(0)	(50)	(50)	(0)	(0)
{Digestive system}										
liver			<10>				<10>			
	inflammatory cell nest		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 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				3.6ppm				10.7ppm				32ppm			
		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>			
	hydronephrosis		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)	(0)	(0)
{Endocrine system}																		
parathyroid			<10>				<10>				<10>				<10>			
	cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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	96ppm				180ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}										
kidney			<10>				<10>			
	hydronephrosis		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}										
parathyroid			<10>				<10>			
	cyst		1	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 b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Chi Square