アクリル酸のラットを用いた
吸入による 13 週間毒性試験報告書

試験番号：0677

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

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

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

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
10 ppm	9.9 ± 0.2
24 ppm	23.8 ± 0.2
60 ppm	59.5 ± 0.5
150 ppm	148.5 ± 0.7
200 ppm	198.6 ± 0.8

TABLE B 1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

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
10ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
24ppm	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
60ppm	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
150ppm	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
200ppm	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. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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
10ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
24ppm	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
60ppm	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
150ppm	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
200ppm	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. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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
	10ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	24ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	60ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	150ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	200ppm	10	10	10	10	10	10	10	10	10	10	10	10	10

TABLE C 2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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
		1	1	1	1	1	1	1	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	24ppm	0	0	0	1	1	1	1	1	1	1	1	1	1
	60ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	1	1	1	1	1
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	24ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	60ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	150ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	9	9	9	9	9
	10ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	24ppm	10	10	10	9	9	9	9	9	9	9	9	9	9
	60ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	150ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	200ppm	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. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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>	10ppm Av. Wt.	10ppm % of cont. <10>	10ppm No. of Surviv.	24ppm Av. Wt.	24ppm % of cont. <10>	24ppm No. of Surviv.	60ppm Av. Wt.	60ppm % of cont. <10>	60ppm No. of Surviv.	150ppm Av. Wt.	150ppm % of cont. <10>	150ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. <10>	200ppm No. of Surviv.
1-7	157 (10)	10/10	157 (10)	100	10/10	157 (10)	100	10/10	156 (10)	99	10/10	152 (10)	97	10/10	147 (10)	94	10/10
2-7	189 (10)	10/10	187 (10)	99	10/10	186 (10)	98	10/10	185 (10)	98	10/10	179 (10)	95	10/10	171 (10)	90	10/10
3-7	214 (10)	10/10	214 (10)	100	10/10	212 (10)	99	10/10	211 (10)	99	10/10	205 (10)	96	10/10	197 (10)	92	10/10
4-7	234 (10)	10/10	235 (10)	100	10/10	231 (10)	99	10/10	230 (10)	98	10/10	222 (10)	95	10/10	212 (10)	91	10/10
5-7	250 (10)	10/10	252 (10)	101	10/10	249 (10)	100	10/10	245 (10)	98	10/10	238 (10)	95	10/10	227 (10)	91	10/10
6-7	265 (10)	10/10	262 (10)	99	10/10	258 (10)	97	10/10	255 (10)	96	10/10	250 (10)	94	10/10	237 (10)	89	10/10
7-7	276 (10)	10/10	270 (10)	98	10/10	271 (10)	98	10/10	266 (10)	96	10/10	263 (10)	95	10/10	250 (10)	91	10/10
8-7	287 (10)	10/10	280 (10)	98	10/10	282 (10)	98	10/10	276 (10)	96	10/10	272 (10)	95	10/10	260 (10)	91	10/10
9-7	298 (10)	10/10	290 (10)	97	10/10	291 (10)	98	10/10	284 (10)	95	10/10	280 (10)	94	10/10	269 (10)	90	10/10
10-7	306 (10)	10/10	295 (10)	96	10/10	298 (10)	97	10/10	290 (10)	95	10/10	287 (10)	94	10/10	275 (10)	90	10/10
11-7	313 (10)	10/10	301 (10)	96	10/10	305 (10)	97	10/10	297 (10)	95	10/10	294 (10)	94	10/10	281 (10)	90	10/10
12-7	317 (10)	10/10	304 (10)	96	10/10	312 (10)	98	10/10	303 (10)	96	10/10	299 (10)	94	10/10	284 (10)	90	10/10
13-7	321 (10)	10/10	308 (10)	96	10/10	315 (10)	98	10/10	307 (10)	96	10/10	303 (10)	94	10/10	288 (10)	90	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. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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>	10ppm Av. Wt.	10ppm % of cont. <10>	10ppm No. of Surviv.	24ppm Av. Wt.	24ppm % of cont. <10>	24ppm No. of Surviv.	60ppm Av. Wt.	60ppm % of cont. <10>	60ppm No. of Surviv.	150ppm Av. Wt.	150ppm % of cont. <10>	150ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. <10>	200ppm No. of Surviv.
1-7	112 (10)	10/10	114 (10)	102	10/10	114 (10)	102	10/10	113 (10)	101	10/10	111 (10)	99	10/10	108 (10)	96	10/10
2-7	125 (10)	10/10	127 (10)	102	10/10	128 (10)	102	10/10	127 (10)	102	10/10	124 (10)	99	10/10	120 (10)	96	10/10
3-7	136 (10)	10/10	139 (10)	102	10/10	139 (10)	102	10/10	137 (10)	101	10/10	135 (10)	99	10/10	131 (10)	96	10/10
4-7	142 (10)	10/10	146 (10)	103	10/10	147 (10)	104	10/10	145 (10)	102	10/10	141 (10)	99	10/10	140 (10)	99	10/10
5-7	148 (10)	10/10	154 (10)	104	10/10	155 (10)	105	10/10	152 (10)	103	10/10	149 (10)	101	10/10	146 (10)	99	10/10
6-7	153 (10)	10/10	158 (10)	103	10/10	160 (10)	105	10/10	155 (10)	101	10/10	153 (10)	100	10/10	151 (10)	99	10/10
7-7	156 (10)	10/10	162 (10)	104	10/10	164 (10)	105	10/10	160 (10)	103	10/10	159 (10)	102	10/10	156 (10)	100	10/10
8-7	161 (10)	10/10	167 (10)	104	10/10	169 (10)	105	10/10	164 (10)	102	10/10	164 (10)	102	10/10	160 (10)	99	10/10
9-7	164 (10)	10/10	171 (10)	104	10/10	171 (10)	104	10/10	169 (10)	103	10/10	167 (10)	102	10/10	164 (10)	100	10/10
10-7	169 (10)	10/10	175 (10)	104	10/10	173 (10)	102	10/10	171 (10)	101	10/10	171 (10)	101	10/10	166 (10)	98	10/10
11-7	171 (10)	10/10	178 (10)	104	10/10	177 (10)	104	10/10	174 (10)	102	10/10	174 (10)	102	10/10	169 (10)	99	10/10
12-7	172 (10)	10/10	181 (10)	105	10/10	179 (10)	104	10/10	176 (10)	102	10/10	176 (10)	102	10/10	171 (10)	99	10/10
13-7	172 (10)	10/10	181 (10)	105	10/10	181 (10)	105	10/10	178 (10)	103	10/10	176 (10)	102	10/10	172 (10)	100	10/10

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

TABLE D 3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	127± 5	157± 8	189± 9	214± 8	234± 9	250± 10	265± 11
10ppm	128± 5	157± 8	187± 9	214± 9	235± 10	252± 11	262± 11
24ppm	127± 5	157± 9	186± 11	212± 13	231± 15	249± 15	258± 16
60ppm	127± 5	156± 5	185± 9	211± 10	230± 12	245± 11	255± 13
150ppm	128± 5	152± 5	179± 7	205± 8	222± 10	238± 9	250± 10
200ppm	128± 5	147± 8*	171± 11**	197± 13**	212± 14**	227± 15**	237± 17**

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	276± 11	287± 12	298± 13	306± 14	313± 16	317± 15	321± 17
10ppm	270± 12	280± 11	290± 12	295± 13	301± 12	304± 14	308± 13
24ppm	271± 15	282± 17	291± 17	298± 17	305± 17	312± 18	315± 20
60ppm	266± 14	276± 14	284± 13	290± 15	297± 14	303± 14	307± 16
150ppm	263± 12	272± 13	280± 12*	287± 14*	294± 13*	299± 14	303± 13
200ppm	250± 18**	260± 20**	269± 22**	275± 21**	281± 22**	284± 21**	288± 22**

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

TABLE D 4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	99± 3	112± 5	125± 6	136± 9	142± 9	148± 9	153± 10
10ppm	99± 3	114± 5	127± 6	139± 9	146± 8	154± 8	158± 9
24ppm	100± 3	114± 4	128± 6	139± 6	147± 7	155± 6	160± 8
60ppm	100± 3	113± 4	127± 6	137± 8	145± 8	152± 8	155± 9
150ppm	99± 3	111± 5	124± 7	135± 6	141± 7	149± 7	153± 7
200ppm	99± 3	108± 5	120± 6	131± 6	140± 6	146± 6	151± 6

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	156± 11	161± 12	164± 13	169± 15	171± 15	172± 16	172± 13
10ppm	162± 9	167± 10	171± 12	175± 12	178± 15	181± 13	181± 13
24ppm	164± 9	169± 9	171± 8	173± 8	177± 9	179± 9	181± 10
60ppm	160± 9	164± 10	169± 10	171± 10	174± 10	176± 10	178± 11
150ppm	159± 11	164± 10	167± 10	171± 10	174± 10	176± 10	176± 10
200ppm	156± 6	160± 6	164± 7	166± 7	169± 7	171± 8	172± 8

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

TABLE E 1

FOOD CONSUMPTION CHANGES AND SURVIVAL

ANIMAL NUMBERS : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
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>	10ppm Av. FC.	10ppm % of cont. <10>	10ppm No. of Surviv.	24ppm Av. FC.	24ppm % of cont. <10>	24ppm No. of Surviv.	60ppm Av. FC.	60ppm % of cont. <10>	60ppm No. of Surviv.	150ppm Av. FC.	150ppm % of cont. <10>	150ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <10>	200ppm No. of Surviv.
1-7	14.6 (10)	10/10	14.2 (10)	97	10/10	14.0 (10)	96	10/10	13.9 (10)	95	10/10	13.0 (10)	89	10/10	12.6 (10)	86	10/10
2-7	16.7 (10)	10/10	15.7 (10)	94	10/10	15.9 (10)	95	10/10	15.7 (10)	94	10/10	15.1 (10)	90	10/10	13.8 (10)	83	10/10
3-7	16.8 (10)	10/10	16.3 (10)	97	10/10	16.0 (10)	95	10/10	16.1 (10)	96	10/10	16.1 (10)	96	10/10	15.0 (10)	89	10/10
4-7	17.0 (10)	10/10	16.4 (10)	96	10/10	16.3 (10)	96	10/10	16.3 (10)	96	10/10	15.9 (10)	94	10/10	14.9 (10)	88	10/10
5-7	17.0 (10)	10/10	16.4 (10)	96	10/10	16.2 (10)	95	10/10	16.2 (10)	95	10/10	15.7 (10)	92	10/10	14.9 (10)	88	10/10
6-7	16.6 (10)	10/10	16.3 (10)	98	10/10	16.1 (10)	97	10/10	16.0 (10)	96	10/10	15.4 (10)	93	10/10	14.7 (10)	89	10/10
7-7	16.9 (10)	10/10	15.9 (10)	94	10/10	16.2 (10)	96	10/10	15.6 (10)	92	10/10	15.0 (10)	89	10/10	14.8 (10)	88	10/10
8-7	16.2 (10)	10/10	15.5 (10)	96	10/10	15.7 (10)	97	10/10	15.6 (10)	96	10/10	15.0 (10)	93	10/10	14.6 (10)	90	10/10
9-7	16.1 (10)	10/10	15.1 (10)	94	10/10	15.3 (10)	95	10/10	15.3 (10)	95	10/10	15.0 (10)	93	10/10	15.0 (10)	93	10/10
10-7	16.6 (5)	10/10	14.8 (10)	89	10/10	15.3 (10)	92	10/10	14.7 (10)	89	10/10	14.8 (10)	89	10/10	14.6 (10)	88	10/10
11-7	16.3 (10)	10/10	15.4 (10)	94	10/10	15.2 (10)	93	10/10	15.3 (10)	94	10/10	14.8 (10)	91	10/10	14.8 (10)	91	10/10
12-7	15.9 (10)	10/10	15.1 (10)	95	10/10	15.1 (10)	95	10/10	14.8 (10)	93	10/10	14.6 (10)	92	10/10	13.9 (10)	87	10/10
13-7	15.3 (10)	10/10	14.6 (10)	95	10/10	14.9 (10)	97	10/10	14.6 (10)	95	10/10	14.3 (10)	93	10/10	13.9 (10)	91	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. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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>	10ppm Av. FC.	10ppm % of cont. <10>	10ppm No. of Surviv.	24ppm Av. FC.	24ppm % of cont. <10>	24ppm No. of Surviv.	60ppm Av. FC.	60ppm % of cont. <10>	60ppm No. of Surviv.	150ppm Av. FC.	150ppm % of cont. <10>	150ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <10>	200ppm No. of Surviv.
1-7	10.4 (10)	10/10	11.0 (10)	106	10/10	10.8 (10)	104	10/10	10.4 (10)	100	10/10	9.6 (10)	92	10/10	9.7 (10)	93	10/10
2-7	11.2 (10)	10/10	11.5 (10)	103	10/10	11.5 (10)	103	10/10	10.9 (10)	97	10/10	10.6 (10)	95	10/10	10.3 (10)	92	10/10
3-7	11.1 (10)	10/10	11.4 (10)	103	10/10	11.4 (10)	103	10/10	11.2 (10)	101	10/10	10.9 (10)	98	10/10	10.9 (10)	98	10/10
4-7	10.7 (10)	10/10	11.0 (10)	103	10/10	11.3 (10)	106	10/10	10.7 (10)	100	10/10	10.5 (10)	98	10/10	11.0 (10)	103	10/10
5-7	10.6 (10)	10/10	11.2 (10)	106	10/10	11.5 (10)	108	10/10	11.1 (10)	105	10/10	10.9 (10)	103	10/10	11.0 (10)	104	10/10
6-7	10.5 (10)	10/10	10.7 (10)	102	10/10	10.8 (10)	103	10/10	10.5 (10)	100	10/10	10.5 (10)	100	10/10	10.5 (10)	100	10/10
7-7	10.7 (10)	10/10	10.8 (9)	101	10/10	10.8 (10)	101	10/10	10.7 (10)	100	10/10	10.4 (10)	97	10/10	10.6 (10)	99	10/10
8-7	9.9 (10)	10/10	10.5 (10)	106	10/10	10.5 (10)	106	10/10	10.6 (10)	107	10/10	10.2 (10)	103	10/10	10.4 (10)	105	10/10
9-7	10.5 (10)	10/10	10.6 (10)	101	10/10	10.1 (10)	96	10/10	10.6 (10)	101	10/10	10.4 (10)	99	10/10	10.5 (10)	100	10/10
10-7	10.5 (10)	10/10	10.4 (10)	99	10/10	10.0 (10)	95	10/10	10.1 (10)	96	10/10	10.0 (10)	95	10/10	10.0 (10)	95	10/10
11-7	10.3 (10)	10/10	10.6 (10)	103	10/10	10.4 (10)	101	10/10	10.2 (10)	99	10/10	10.0 (10)	97	10/10	10.2 (10)	99	10/10
12-7	10.0 (10)	10/10	10.8 (10)	108	10/10	10.2 (10)	102	10/10	9.8 (10)	98	10/10	9.7 (10)	97	10/10	9.9 (10)	99	10/10
13-7	9.9 (10)	10/10	10.2 (10)	103	10/10	10.2 (10)	103	10/10	10.3 (10)	104	10/10	9.7 (10)	98	10/10	9.7 (10)	98	10/10

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

TABLE E 3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	14.6± 1.2	16.7± 1.5	16.8± 1.5	17.0± 1.3	17.0± 1.2	16.6± 1.3	16.9± 1.1
10ppm	14.2± 0.9	15.7± 0.9	16.3± 0.8	16.4± 0.6	16.4± 0.5	16.3± 0.6	15.9± 0.6
24ppm	14.0± 0.7	15.9± 0.8	16.0± 1.0	16.3± 1.1	16.2± 0.9	16.1± 0.8	16.2± 1.3
60ppm	13.9± 0.9	15.7± 1.2	16.1± 1.3	16.3± 1.2	16.2± 0.9	16.0± 1.3	15.6± 1.2*
150ppm	13.0± 0.5**	15.1± 0.6**	16.1± 0.8	15.9± 0.9	15.7± 0.6**	15.4± 0.6	15.0± 0.5**
200ppm	12.6± 0.7**	13.8± 1.0**	15.0± 1.3**	14.9± 1.0**	14.9± 0.8**	14.7± 0.9**	14.8± 1.0**

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	16.2± 1.1	16.1± 1.4	16.6± 0.9	16.3± 1.5	15.9± 1.3	15.3± 1.0
10ppm	15.5± 0.6	15.1± 0.7	14.8± 0.7**	15.4± 0.7	15.1± 0.8	14.6± 0.5
24ppm	15.7± 0.9	15.3± 0.7	15.3± 0.7*	15.2± 1.0	15.1± 0.7	14.9± 1.1
60ppm	15.6± 1.1	15.3± 0.9	14.7± 0.7**	15.3± 0.9	14.8± 0.9*	14.6± 0.7
150ppm	15.0± 0.9*	15.0± 0.7	14.8± 0.7**	14.8± 0.8**	14.6± 0.7*	14.3± 0.6*
200ppm	14.6± 1.1**	15.0± 1.1	14.6± 1.2**	14.8± 1.1**	13.9± 0.9**	13.9± 1.1**

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

TABLE E 4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	10.4± 0.3	11.2± 0.8	11.1± 1.0	10.7± 0.9	10.6± 0.9	10.5± 0.9	10.7± 0.9
10ppm	11.0± 0.5	11.5± 0.9	11.4± 1.0	11.0± 0.7	11.2± 0.7	10.7± 0.4	10.8± 0.9
24ppm	10.8± 0.7	11.5± 1.1	11.4± 0.7	11.3± 0.7	11.5± 0.7	10.8± 0.7	10.8± 0.8
60ppm	10.4± 0.5	10.9± 0.7	11.2± 1.0	10.7± 0.9	11.1± 0.8	10.5± 0.6	10.7± 0.6
150ppm	9.6± 0.5*	10.6± 0.7	10.9± 1.1	10.5± 0.7	10.9± 0.7	10.5± 0.8	10.4± 0.9
200ppm	9.7± 0.9	10.3± 0.8	10.9± 0.6	11.0± 0.8	11.0± 0.8	10.5± 0.8	10.6± 0.6

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	9.9± 0.9	10.5± 1.1	10.5± 1.5	10.3± 1.2	10.0± 1.2	9.9± 1.3
10ppm	10.5± 0.9	10.6± 1.0	10.4± 1.0	10.6± 0.8	10.8± 0.8	10.2± 0.8
24ppm	10.5± 0.8	10.1± 0.8	10.0± 0.6	10.4± 0.5	10.2± 0.5	10.2± 0.7
60ppm	10.6± 0.7	10.6± 0.8	10.1± 0.8	10.2± 0.5	9.8± 0.7	10.3± 0.6
150ppm	10.2± 0.9	10.4± 0.9	10.0± 0.8	10.0± 0.8	9.7± 0.7	9.7± 0.7
200ppm	10.4± 0.7	10.5± 0.7	10.0± 0.7	10.2± 0.5	9.9± 0.7	9.7± 0.6

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

TABLE F 1

HEMATOLOGY : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	9.49± 0.17	16.7± 0.3	43.4± 0.8	45.7± 0.4	17.6± 0.2	38.4± 0.5	720± 42
10ppm	10	9.49± 0.17	16.7± 0.3	43.5± 0.9	45.9± 0.4	17.6± 0.3	38.4± 0.3	726± 67
24ppm	10	9.52± 0.17	16.7± 0.4	43.6± 0.5	45.8± 0.5	17.6± 0.3	38.4± 0.4	730± 46
60ppm	10	9.44± 0.19	16.7± 0.4	43.3± 0.9	45.9± 0.3	17.7± 0.2	38.5± 0.3	725± 35
150ppm	10	9.37± 0.10	16.6± 0.3	43.1± 0.5	46.1± 0.3	17.7± 0.2	38.5± 0.3	713± 40
200ppm	10	9.44± 0.20	16.6± 0.4	43.4± 0.8	46.0± 0.4	17.6± 0.4	38.2± 0.6	718± 30

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RETICULOCYTE %	PROTHROMBIN TIME sec	APTT sec
Control	10	1.8± 0.2	14.2± 1.3	24.2± 1.6
10ppm	10	1.9± 0.1	13.2± 1.5	23.3± 1.7
24ppm	10	1.8± 0.2	12.7± 0.6**	22.8± 0.8
60ppm	10	1.9± 0.2	13.2± 1.0	23.0± 1.5
150ppm	10	1.8± 0.1	13.4± 0.5	24.0± 1.0
200ppm	10	1.8± 0.1	13.3± 1.5	23.6± 2.1

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	6.81± 1.40	1± 1	22± 4	1± 1	0± 0	3± 1	73± 5	0± 0
10ppm	10	6.35± 1.95	0± 1	24± 6	2± 1	0± 0	3± 1	71± 6	0± 0
24ppm	10	6.77± 1.76	1± 1	21± 5	1± 0	0± 0	3± 1	74± 5	0± 0
60ppm	10	6.46± 1.39	0± 1	22± 6	1± 0	0± 0	3± 1	74± 6	0± 0
150ppm	10	6.19± 1.24	0± 1	21± 3	2± 1	0± 0	3± 1	75± 4	0± 0
200ppm	10	6.13± 1.26	1± 1	20± 5	1± 1	0± 0	3± 1	75± 5	0± 0

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

TABLE F 2

HEMATOLOGY : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	8.66±	0.23	16.5±	0.3	41.9±	0.9	48.4±	0.4	19.0±	0.2	39.3±	0.4	757±	43
10ppm	10	8.93±	0.25	17.0±	0.5	43.1±	1.1	48.3±	0.3	19.0±	0.2	39.4±	0.3	785±	38
24ppm	10	8.83±	0.19	16.8±	0.4	42.7±	0.8	48.3±	0.3	19.0±	0.2	39.2±	0.3	788±	39
60ppm	10	8.74±	0.22	16.7±	0.4	42.4±	1.1	48.5±	0.4	19.1±	0.3	39.4±	0.5	779±	46
150ppm	10	8.84±	0.16	16.7±	0.4	42.7±	0.8	48.3±	0.2	18.9±	0.2	39.2±	0.4	770±	30
200ppm	10	8.87±	0.16	16.8±	0.4	42.8±	0.8	48.3±	0.4	18.9±	0.2	39.2±	0.5	757±	65

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RETICULOCYTE %	PROTHROMBIN TIME sec	APTT sec
Control	10	1.9± 0.3	12.2± 0.5	18.1± 1.1
10ppm	10	1.8± 0.2	12.0± 0.3	17.6± 0.8
24ppm	10	1.9± 0.4	11.9± 0.4	18.0± 0.6
60ppm	10	1.8± 0.2	11.9± 0.4	18.1± 0.7
150ppm	10	1.8± 0.3	12.0± 0.6	18.1± 1.0
200ppm	10	1.8± 0.3	12.2± 0.4	18.2± 0.7

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	3.65± 1.07	0± 1	25± 6	2± 1	0± 0	3± 1	70± 6	0± 0
10ppm	10	3.94± 1.30	1± 1	19± 3*	1± 0	0± 0	3± 1	75± 3*	0± 0
24ppm	10	3.86± 1.71	1± 1	23± 4	2± 1	0± 0	3± 1	72± 5	0± 0
60ppm	10	3.91± 1.04	0± 0	20± 4	2± 1	0± 0	3± 1	75± 4*	0± 0
150ppm	10	3.99± 1.23	0± 1	19± 4*	2± 1	0± 0	3± 1	75± 4*	0± 0
200ppm	10	3.80± 1.18	0± 0	19± 2**	2± 1	0± 0	3± 1	77± 3**	0± 0

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

TABLE G 1

BIOCHEMISTRY : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	6.5± 0.1	3.5± 0.1	1.2± 0.1	0.12± 0.01	208± 10	58± 3	66± 17
10ppm	10	6.5± 0.2	3.5± 0.0	1.2± 0.1	0.12± 0.01	212± 24	58± 5	56± 26
24ppm	10	6.5± 0.1	3.5± 0.1	1.2± 0.1	0.12± 0.01	220± 15	60± 5	73± 22
60ppm	10	6.5± 0.1	3.5± 0.1	1.2± 0.1	0.11± 0.01	207± 13	61± 5	53± 12
150ppm	10	6.4± 0.2	3.5± 0.1	1.2± 0.1*	0.12± 0.01	209± 17	59± 3	57± 17
200ppm	10	6.3± 0.2**	3.5± 0.2	1.2± 0.1*	0.11± 0.01	207± 14	54± 3	40± 11*

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE 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	111± 5	84± 14	50± 9	144± 38	243± 14	1± 0	97± 15
10ppm	10	110± 9	83± 24	47± 10	148± 52	250± 23	1± 0	100± 20
24ppm	10	113± 8	85± 24	49± 10	146± 61	251± 14	1± 0	102± 26
60ppm	10	111± 6	77± 19	43± 10	130± 46	241± 19	1± 0	94± 14
150ppm	10	109± 6	79± 13	44± 6	125± 30	244± 12	1± 0	98± 10
200ppm	10	102± 6*	70± 8	39± 3**	124± 42	245± 25	1± 0	98± 13

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg/dl	CREATININE mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	10	17.8± 1.0	0.6± 0.0	142± 1	3.2± 0.1	104± 1	10.2± 0.2	5.4± 0.7
10ppm	10	18.6± 0.5	0.6± 0.0	143± 1	3.1± 0.2	104± 1	10.2± 0.2	5.5± 0.6
24ppm	10	19.1± 1.1*	0.6± 0.1	142± 1	3.1± 0.1	104± 1	10.3± 0.3	5.4± 0.8
60ppm	10	18.5± 1.0	0.6± 0.1	142± 1	3.1± 0.1	104± 1	10.2± 0.1	5.5± 0.6
150ppm	10	19.3± 1.3**	0.6± 0.0	142± 1	3.1± 0.2	104± 1	10.2± 0.2	5.7± 0.7
200ppm	10	19.3± 0.4**	0.6± 0.0	142± 1	3.2± 0.2	104± 1	10.1± 0.2	5.8± 0.8

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

TABLE G 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	6.2±	0.2	3.5±	0.2	1.2±	0.1	0.12±	0.01	144±	18	61±	6	13±	4
10ppm	10	6.3±	0.2	3.6±	0.1	1.3±	0.1	0.12±	0.01	146±	17	68±	8	12±	3
24ppm	10	6.3±	0.2	3.5±	0.1	1.3±	0.1	0.12±	0.01	158±	16	80±	5**	15±	6
60ppm	10	6.3±	0.1	3.5±	0.1	1.3±	0.1	0.12±	0.00	155±	10	69±	5	14±	3
150ppm	10	6.2±	0.2	3.5±	0.1	1.3±	0.1	0.12±	0.01	147±	19	68±	7	12±	2
200ppm	10	6.1±	0.2	3.5±	0.1	1.3±	0.1	0.13±	0.01	146±	15	65±	9	13±	2

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	119± 9	71± 6	33± 4	169± 82	205± 32	1± 1	108± 31
10ppm	10	132± 13	68± 4	33± 5	150± 45	183± 16	1± 1	100± 13
24ppm	10	151± 12**	72± 6	37± 6	162± 76	190± 13	2± 1	107± 28
60ppm	10	134± 9*	70± 8	37± 13	166± 53	190± 25	1± 0	135± 77
150ppm	10	129± 13	72± 6	39± 13	186± 85	192± 20	1± 0	127± 56
200ppm	10	126± 14	68± 5	32± 4	196± 109	204± 22	2± 1	115± 39

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg/dl	CREATININE mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	10	18.7± 1.3	0.6± 0.1	142± 1	3.4± 0.3	107± 1	9.8± 0.2	5.2± 1.2
10ppm	10	18.3± 1.0	0.6± 0.0	142± 1	3.3± 0.2	106± 2	9.9± 0.2	5.3± 1.0
24ppm	10	20.1± 1.6	0.7± 0.1	142± 1	3.2± 0.2	106± 1	10.0± 0.1	5.1± 0.9
60ppm	10	19.0± 1.4	0.7± 0.1	142± 1	3.2± 0.2	106± 1	10.0± 0.2	5.0± 0.8
150ppm	10	19.6± 1.9	0.7± 0.1	142± 1	3.4± 0.1	106± 1	9.9± 0.2	5.5± 0.6
200ppm	10	18.7± 2.0	0.6± 0.0	142± 2	3.4± 0.2	106± 1	9.9± 0.2	5.6± 0.5

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

TABLE H 1

URINALYSIS : MALE

STUDY NO. : 0677 URINALYSIS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE 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	Bilirubin −	+	2+	3+	CHI
Control	10	0	0	0	1	2	5	2		0	6	4	0	0	0		10	0	0	0	0	0		8	2	0	0	0	0		10	0	0	0	
10ppm	10	0	0	0	1	3	5	1		0	6	4	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
24ppm	10	0	0	0	0	4	5	1		0	4	3	3	0	0		10	0	0	0	0	0		6	3	1	0	0	0		10	0	0	0	
60ppm	10	0	0	0	0	3	5	2		0	2	6	2	0	0		10	0	0	0	0	0		6	3	1	0	0	0		10	0	0	0	
150ppm	10	0	0	1	0	4	4	1		0	6	4	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
200ppm	10	0	0	0	0	1	8	1		0	3	4	3	0	0		10	0	0	0	0	0		5	3	2	0	0	0		10	0	0	0	

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

STUDY NO. : 0677 URINALYSIS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

Group Name	NO. of Animals	Occult blood −	±	+	2+	3+	CHI	Urobilinogen ±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0		10	0	0	0	0	
10ppm	10	10	0	0	0	0		10	0	0	0	0	
24ppm	10	10	0	0	0	0		10	0	0	0	0	
60ppm	10	10	0	0	0	0		10	0	0	0	0	
150ppm	10	10	0	0	0	0		10	0	0	0	0	
200ppm	10	10	0	0	0	0		10	0	0	0	0	

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

TABLE H 2

URINALYSIS : FEMALE

STUDY NO. : 0677 URINALYSIS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	Bilirubin −	+	2+	3+	CHI
Control	10	0	0	0	0	0	3	7		3	7	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
10ppm	10	0	0	0	0	3	4	3		3	5	2	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
24ppm	10	0	0	0	2	2	2	4		1	8	1	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
60ppm	10	0	0	1	0	1	5	3		5	3	2	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
150ppm	10	0	0	0	0	2	5	3		6	2	2	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
200ppm	10	0	0	0	0	2	5	3		6	4	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	

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

Group Name	NO. of Animals	Occult blood −	±	+	2+	3+	CHI	Urobilinogen ±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0		10	0	0	0	0	
10ppm	10	10	0	0	0	0		10	0	0	0	0	
24ppm	10	10	0	0	0	0		10	0	0	0	0	
60ppm	10	10	0	0	0	0		10	0	0	0	0	
150ppm	10	10	0	0	0	0		10	0	0	0	0	
200ppm	10	10	0	0	0	0		10	0	0	0	0	

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

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	10ppm 10	(%)	24ppm 10	(%)	60ppm 10	(%)
liver	herniation		1	(10)	3	(30)	0	(0)	1	(10)

Organ	Findings	Group Name	150ppm		200ppm	
		NO. of Animals	10	(%)	10	(%)
liver	herniation		0	(0)	0	(0)

TABLE I 2

GROSS FINDINGS : FEMALE

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	10ppm 10	(%)	24ppm 10	(%)	60ppm 10	(%)
liver	herniation		0	(0)	1	(10)	0	(0)	2	(20)
eye	enlarged		0	(0)	0	(0)	1	(10)	0	(0)
	white		1	(10)	0	(0)	0	(0)	0	(0)

Organ	Findings	Group Name / NO. of Animals	150ppm 10	(%)	200ppm 10	(%)
liver	herniation		3	(30)	2	(20)
eye	enlarged		0	(0)	0	(0)
	white		0	(0)	0	(0)

TABLE J 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	301± 15	0.249± 0.044	0.058± 0.006	3.142± 0.109	0.917± 0.071	0.990± 0.042
10ppm	10	289± 12	0.218± 0.037	0.057± 0.006	3.128± 0.095	0.897± 0.061	0.961± 0.056
24ppm	10	295± 17	0.205± 0.034*	0.053± 0.007	3.128± 0.138	0.925± 0.094	0.954± 0.075
60ppm	10	287± 13	0.216± 0.023	0.054± 0.007	3.074± 0.213	0.877± 0.045	0.959± 0.055
150ppm	10	282± 13*	0.199± 0.029**	0.055± 0.006	3.105± 0.078	0.891± 0.064	0.945± 0.049
200ppm	10	267± 20**	0.186± 0.019**	0.055± 0.007	2.881± 0.481	0.867± 0.080	0.919± 0.061

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	1.786± 0.092	0.561± 0.035	7.203± 0.300	1.909± 0.041
10ppm	10	1.731± 0.065	0.532± 0.034	6.886± 0.349	1.908± 0.053
24ppm	10	1.750± 0.135	0.538± 0.042	7.151± 0.655	1.908± 0.065
60ppm	10	1.704± 0.081	0.528± 0.031	6.842± 0.307	1.887± 0.052
150ppm	10	1.695± 0.060	0.531± 0.014	6.646± 0.310**	1.890± 0.049
200ppm	10	1.665± 0.115	0.509± 0.045	6.344± 0.631**	1.880± 0.045

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

TABLE J 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	159± 14	0.172± 0.029	0.058± 0.006	0.089± 0.010	0.590± 0.043	0.677± 0.041
10ppm	10	168± 14	0.181± 0.026	0.058± 0.004	0.094± 0.008	0.601± 0.042	0.691± 0.029
24ppm	10	167± 9	0.188± 0.024	0.056± 0.007	0.090± 0.009	0.616± 0.049	0.692± 0.063
60ppm	10	164± 9	0.178± 0.013	0.057± 0.008	0.097± 0.011	0.618± 0.061	0.701± 0.034
150ppm	10	162± 9	0.182± 0.027	0.056± 0.004	0.088± 0.006	0.598± 0.041	0.686± 0.032
200ppm	10	158± 7	0.175± 0.019	0.059± 0.008	0.091± 0.008	0.597± 0.037	0.669± 0.038

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	1.031± 0.046	0.355± 0.022	3.669± 0.344	1.733± 0.062
10ppm	10	1.068± 0.066	0.352± 0.021	3.778± 0.244	1.723± 0.035
24ppm	10	1.060± 0.070	0.355± 0.027	3.781± 0.177	1.761± 0.055
60ppm	10	1.077± 0.053	0.354± 0.020	3.879± 0.182	1.749± 0.019
150ppm	10	1.047± 0.055	0.356± 0.020	3.769± 0.208	1.759± 0.027
200ppm	10	1.032± 0.043	0.345± 0.022	3.781± 0.187	1.724± 0.063

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

TABLE K 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	301± 15	0.083± 0.014	0.019± 0.002	1.045± 0.033	0.305± 0.011	0.330± 0.016
10ppm	10	289± 12	0.076± 0.012	0.020± 0.003	1.084± 0.045	0.310± 0.013	0.333± 0.019
24ppm	10	295± 17	0.070± 0.011*	0.018± 0.002	1.064± 0.045	0.314± 0.021	0.324± 0.017
60ppm	10	287± 13	0.075± 0.008	0.019± 0.002	1.071± 0.050	0.306± 0.018	0.335± 0.020
150ppm	10	282± 13*	0.070± 0.009*	0.019± 0.002	1.103± 0.031**	0.317± 0.019	0.335± 0.012
200ppm	10	267± 20**	0.070± 0.005*	0.021± 0.002	1.078± 0.153*	0.325± 0.010	0.345± 0.012

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.594± 0.018	0.187± 0.012	2.397± 0.074	0.636± 0.026
10ppm	10	0.600± 0.020	0.184± 0.011	2.383± 0.058	0.661± 0.021
24ppm	10	0.594± 0.023	0.183± 0.006	2.425± 0.092	0.649± 0.023
60ppm	10	0.594± 0.023	0.184± 0.011	2.386± 0.061	0.659± 0.023
150ppm	10	0.602± 0.028	0.189± 0.006	2.359± 0.071	0.671± 0.021*
200ppm	10	0.625± 0.020*	0.191± 0.004	2.376± 0.080	0.708± 0.039**

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

TABLE K 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	159± 14	0.108± 0.014	0.036± 0.004	0.056± 0.008	0.373± 0.030	0.427± 0.020
10ppm	10	168± 14	0.108± 0.019	0.034± 0.003	0.056± 0.007	0.358± 0.021	0.412± 0.026
24ppm	10	167± 9	0.113± 0.014	0.033± 0.004	0.054± 0.006	0.369± 0.022	0.414± 0.026
60ppm	10	164± 9	0.109± 0.005	0.035± 0.005	0.059± 0.005	0.378± 0.027	0.430± 0.022
150ppm	10	162± 9	0.113± 0.017	0.035± 0.003	0.055± 0.005	0.370± 0.017	0.425± 0.019
200ppm	10	158± 7	0.110± 0.009	0.037± 0.005	0.058± 0.005	0.377± 0.021	0.423± 0.016

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

STUDY NO. : 0677
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.652± 0.041	0.224± 0.015	2.313± 0.151	1.097± 0.079
10ppm	10	0.636± 0.020	0.210± 0.012*	2.247± 0.099	1.029± 0.084
24ppm	10	0.635± 0.031	0.212± 0.009	2.264± 0.048	1.056± 0.054
60ppm	10	0.659± 0.028	0.217± 0.010	2.373± 0.066	1.073± 0.071
150ppm	10	0.648± 0.016	0.220± 0.006	2.333± 0.056	1.091± 0.053
200ppm	10	0.653± 0.011	0.218± 0.010	2.393± 0.091	1.092± 0.046

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

TABLE L 1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

Organ	Findings	Group Name	Control				10ppm				24ppm				60ppm			
		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>			
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory 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)
	squamous cell 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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory nerve		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	7	2	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(70)	(20)	(0)	(0)
	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)	(0)	(0)	(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)
lung			<10>				<10>				<10>				<10>			
	ossification		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	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		2	6	0	0 **	0	9	0	0 **
			(20)	(60)	(0)	(0)	(0)	(90)	(0)	(0)
	squamous cell metaplasia:olfactory epithelium		10	0	0	0 **	9	1	0	0 **
			(100)	(0)	(0)	(0)	(90)	(10)	(0)	(0)
	atrophy:olfactory nerve		10	0	0	0 **	9	1	0	0 **
			(100)	(0)	(0)	(0)	(90)	(10)	(0)	(0)
	atrophy:olfactory epithelium		1	9	0	0 **	0	10	0	0 **
			(10)	(90)	(0)	(0)	(0)	(100)	(0)	(0)
	necrosis:olfactory epithelium		1	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
lung			<10>				<10>			
	ossification		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				10ppm				24ppm				60ppm			
		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}																		
lung			<10>				<10>				<10>				<10>			
	accumulation of foamy cells		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
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}																		
heart			<10>				<10>				<10>				<10>			
	inflammatory cell nest		0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	herniation		0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

Organ	Findings	Group Name	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
lung			<10>				<10>			
	accumulation of foamy cells		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}										
thymus			<10>				<10>			
	atrophy		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Circulatory system}										
heart			<10>				<10>			
	inflammatory cell nest		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}										
liver			<10>				<10>			
	herniation		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	Control 10				10ppm 10				24ppm 10				60ppm 10			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Urinary system}																		
kidney		<10>																
	eosinophilic body		1 (10)	9 (90)	0 (0)	0 (0)	1 (10)	8 (80)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)
	regeneration:proximal tubule		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
{Endocrine system}																		
thyroid		<10>																
	ultimibranchial body remanet		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Reproductive system}																		
testis		<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)	2 (20)	0 (0)	0 (0)	0 (0)
epididymis		<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	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}										
kidney			<10>				<10>			
	eosinophilic body		0	10	0	0	0	10	0	0
			(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)
	regeneration:proximal tubule		2	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Endocrine system}										
thyroid			<10>				<10>			
	ultimibranchial body remanet		1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}										
testis			<10>				<10>			
	atrophy		0	0	0	0	1	0	1	0
			(0)	(0)	(0)	(0)	(10)	(0)	(10)	(0)
epididymis			<10>				<10>			
	debris of spermatic elements		0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(10)	(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				10ppm				24ppm				60ppm			
		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}																		
prostate			<10>				<10>				<10>				<10>			
	inflammation		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)
{Special sense organs/appendage}																		
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

Organ	Findings	Group Name	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}										
prostate			<10>				<10>			
	inflammation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
Harder gl			<10>				<10>			
	lymphocytic infiltration		3	0	0	0	1	0	0	0
			(30)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

TABLE L 2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

Organ	Findings	Group Name	Control				10ppm				24ppm				60ppm			
		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>			
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	squamous cell 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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory nerve		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	6	0	0	0 *	8	1	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(80)	(10)	(0)	(0)
lung			<10>				<10>				<10>				<10>			
	ossification		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)
	accumulation of foamy cells		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<10>				<10>				<10>				<10>			
	granulation		1	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0
			(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(10)	(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	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	squamous cell metaplasia:respiratory epithelium		7	0	0	0 **	6	1	0	0 **
			(70)	(0)	(0)	(0)	(60)	(10)	(0)	(0)
	squamous cell metaplasia:olfactory epithelium		5	0	0	0 *	10	0	0	0 **
			(50)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:olfactory nerve		9	0	0	0 **	10	0	0	0 **
			(90)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:olfactory epithelium		3	7	0	0 **	0	10	0	0 **
			(30)	(70)	(0)	(0)	(0)	(100)	(0)	(0)
lung			<10>				<10>			
	ossification		1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	granulation		2	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

Organ	Findings	Group Name	Control				10ppm				24ppm				60ppm			
		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>			
	herniation		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	inflammatory cell nest		3	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
			(30)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	mineralization:cortico-medullary junction		2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	regeneration:proximal tubule		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<10>				<10>				<10>				<10>			
	Rathke pouch		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	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			<10>				<10>			
	herniation		3	0	0	0	2	0	0	0
			(30)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	inflammatory cell nest		2	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Urinary system}										
kidney			<10>				<10>			
	mineralization:cortico-medullary junction		3	0	0	0	2	0	0	0
			(30)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	regeneration:proximal tubule		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}										
pituitary			<10>				<10>			
	Rathke pouch		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				10ppm				24ppm				60ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<10>				<10>				<10>				<10>			
	ultimibranchial body remanet		1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<10>				<10>				<10>				<10>			
	cataract		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)	(0)	(0)
	retinal atrophy		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		5	0	0	0	4	1	0	0	4	0	0	0	6	0	0	0
			(50)	(0)	(0)	(0)	(40)	(10)	(0)	(0)	(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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	150ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}										
thyroid			<10>				<10>			
	ultimibranchial body remanet		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			<10>				<10>			
	cataract		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	retinal atrophy		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<10>				<10>			
	lymphocytic infiltration		6	0	0	0	3	0	0	0
			(60)	(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