ジフェニルアミンのラットを用いた
経口投与による13週間毒性試験（混餌試験）報告書

試験番号：0669

TABLES

TABLES

TABLES (CONTINUED)

TABLE A 1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
256 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
640 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1600 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

TABLE A 2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
256 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
640 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1600 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

TABLE B 1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0669
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	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	256 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	2
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	256 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	256 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	256 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	640 ppm	9	9	9	9	9	9	9	9	9	9	9	9	9
	1600 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	4000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10000 ppm	10	10	10	10	10	10	10	10	9	9	9	9	8

TABLE B 2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0669
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
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	256 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1
	10000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	256 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	640 ppm	10	10	10	10	10	9	10	10	10	10	10	10	10
	1600 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	4000 ppm	10	10	10	10	10	10	10	10	9	9	9	9	9
	10000 ppm	10	10	10	10	10	10	10	10	9	9	9	9	9

TABLE C 1

BODY WEIGHT CHANGES

AND SURVIVAL ANIMAL NUMBERS

: MALE

STUDY NO. : 0669
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>	256 ppm Av. Wt.	256 ppm % of cont. <10>	256 ppm No. of Surviv.	640 ppm Av. Wt.	640 ppm % of cont. <10>	640 ppm No. of Surviv.	1600 ppm Av. Wt.	1600 ppm % of cont. <10>	1600 ppm No. of Surviv.	4000 ppm Av. Wt.	4000 ppm % of cont. <10>	4000 ppm No. of Surviv.	10000 ppm Av. Wt.	10000 ppm % of cont. <10>	10000 ppm No. of Surviv.
0-0	126 (10)	10/10	126 (10)	100	10/10	126 (10)	100	10/10	126 (10)	100	10/10	126 (10)	100	10/10	126 (10)	100	10/10
1-7	155 (10)	10/10	156 (10)	101	10/10	153 (10)	99	10/10	153 (10)	99	10/10	149 (10)	96	10/10	133 (10)	86	10/10
2-7	186 (10)	10/10	186 (10)	100	10/10	181 (10)	97	10/10	182 (10)	98	10/10	177 (10)	95	10/10	156 (10)	84	10/10
3-7	212 (10)	10/10	211 (10)	100	10/10	205 (10)	97	10/10	205 (10)	97	10/10	202 (10)	95	10/10	179 (10)	84	10/10
4-7	234 (10)	10/10	234 (10)	100	10/10	225 (10)	96	10/10	223 (10)	95	10/10	220 (10)	94	10/10	199 (10)	85	10/10
5-7	249 (10)	10/10	248 (10)	100	10/10	239 (10)	96	10/10	241 (10)	97	10/10	235 (10)	94	10/10	215 (10)	86	10/10
6-7	262 (10)	10/10	262 (10)	100	10/10	252 (10)	96	10/10	254 (10)	97	10/10	249 (10)	95	10/10	229 (10)	87	10/10
7-7	276 (10)	10/10	276 (10)	100	10/10	266 (10)	96	10/10	267 (10)	97	10/10	258 (10)	93	10/10	240 (10)	87	10/10
8-7	286 (10)	10/10	288 (10)	101	10/10	278 (10)	97	10/10	279 (10)	98	10/10	271 (10)	95	10/10	250 (10)	87	10/10
9-7	299 (10)	10/10	302 (10)	101	10/10	289 (10)	97	10/10	291 (10)	97	10/10	281 (10)	94	10/10	260 (10)	87	10/10
10-7	307 (10)	10/10	310 (10)	101	10/10	299 (10)	97	10/10	301 (10)	98	10/10	291 (10)	95	10/10	269 (10)	88	10/10
11-7	316 (10)	10/10	318 (10)	101	10/10	306 (10)	97	10/10	306 (10)	97	10/10	295 (10)	93	10/10	274 (10)	87	10/10
12-7	323 (10)	10/10	324 (10)	100	10/10	314 (10)	97	10/10	314 (10)	97	10/10	301 (10)	93	10/10	281 (10)	87	10/10
13-7	327 (10)	10/10	331 (10)	101	10/10	317 (10)	97	10/10	317 (10)	97	10/10	304 (10)	93	10/10	283 (10)	87	10/10

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

TABLE C 2

BODY WEIGHT CHANGES

AND SURVIVAL ANIMAL NUMBERS

: FEMALE

STUDY NO. : 0669
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>	256 ppm Av. Wt.	256 ppm % of cont. <10>	256 ppm No. of Surviv.	640 ppm Av. Wt.	640 ppm % of cont. <10>	640 ppm No. of Surviv.	1600 ppm Av. Wt.	1600 ppm % of cont. <10>	1600 ppm No. of Surviv.	4000 ppm Av. Wt.	4000 ppm % of cont. <10>	4000 ppm No. of Surviv.	10000 ppm Av. Wt.	10000 ppm % of cont. <10>	10000 ppm No. of Surviv.
0-0	100 (10)	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10
1-7	113 (10)	10/10	113 (10)	100	10/10	113 (10)	100	10/10	111 (10)	98	10/10	110 (10)	97	10/10	102 (10)	90	10/10
2-7	123 (10)	10/10	125 (10)	102	10/10	124 (10)	101	10/10	122 (10)	99	10/10	120 (10)	98	10/10	115 (10)	93	10/10
3-7	133 (10)	10/10	133 (10)	100	10/10	131 (10)	98	10/10	130 (10)	98	10/10	128 (10)	96	10/10	124 (10)	93	10/10
4-7	139 (10)	10/10	140 (10)	101	10/10	138 (10)	99	10/10	138 (10)	99	10/10	134 (10)	96	10/10	130 (10)	94	10/10
5-7	145 (10)	10/10	146 (10)	101	10/10	144 (10)	99	10/10	145 (10)	100	10/10	139 (10)	96	10/10	135 (10)	93	10/10
6-7	152 (10)	10/10	153 (10)	101	10/10	144 (10)	95	10/10	150 (10)	99	10/10	145 (10)	95	10/10	141 (10)	93	10/10
7-7	155 (10)	10/10	157 (10)	101	10/10	151 (10)	97	10/10	155 (10)	100	10/10	148 (10)	95	10/10	144 (10)	93	10/10
8-7	160 (10)	10/10	160 (10)	100	10/10	155 (10)	97	10/10	158 (10)	99	10/10	151 (10)	94	10/10	148 (10)	93	10/10
9-7	164 (10)	10/10	164 (10)	100	10/10	160 (10)	98	10/10	162 (10)	99	10/10	154 (10)	94	10/10	153 (10)	93	10/10
10-7	169 (10)	10/10	167 (10)	99	10/10	163 (10)	96	10/10	164 (10)	97	10/10	159 (10)	94	10/10	156 (10)	92	10/10
11-7	173 (10)	10/10	170 (10)	98	10/10	166 (10)	96	10/10	166 (10)	96	10/10	161 (10)	93	10/10	159 (10)	92	10/10
12-7	176 (10)	10/10	175 (10)	99	10/10	170 (10)	97	10/10	169 (10)	96	10/10	165 (10)	94	10/10	162 (10)	92	10/10
13-7	177 (10)	10/10	174 (10)	98	10/10	170 (10)	96	10/10	170 (10)	96	10/10	166 (10)	94	10/10	165 (10)	93	10/10

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

TABLE C 3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0669
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	126± 4	155± 7	186± 9	212± 11	234± 13	249± 13	262± 15
256 ppm	126± 4	156± 5	186± 7	211± 9	234± 9	248± 8	262± 11
640 ppm	126± 4	153± 5	181± 5	205± 4	225± 5	239± 6	252± 6
1600 ppm	126± 4	153± 5	182± 6	205± 5	223± 8	241± 7	254± 8
4000 ppm	126± 4	149± 7	177± 9*	202± 10*	220± 12*	235± 12**	249± 13*
10000 ppm	126± 4	133± 3**	156± 3**	179± 5**	199± 5**	215± 6**	229± 5**

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

STUDY NO. : 0669
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± 15	286± 14	299± 17	307± 18	316± 17	323± 18	327± 19
256 ppm	276± 11	288± 11	302± 11	310± 11	318± 13	324± 14	331± 12
640 ppm	266± 7	278± 8	289± 9	299± 11	306± 11	314± 11	317± 12
1600 ppm	267± 9	279± 11	291± 10	301± 11	306± 11	314± 11	317± 12
4000 ppm	258± 14**	271± 17*	281± 17**	291± 17*	295± 18**	301± 19**	304± 17**
10000 ppm	240± 6**	250± 7**	260± 7**	269± 8**	274± 9**	281± 9**	283± 10**

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

TABLE C 4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0669
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	100± 2	113± 3	123± 6	133± 6	139± 8	145± 9	152± 9
256 ppm	100± 2	113± 4	125± 5	133± 5	140± 6	146± 6	153± 7
640 ppm	100± 2	113± 3	124± 5	131± 7	138± 7	144± 9	144± 17
1600 ppm	100± 2	111± 4	122± 5	130± 6	138± 8	145± 7	150± 9
4000 ppm	100± 2	110± 3	120± 4	128± 4	134± 5	139± 5	145± 6
10000 ppm	100± 2	102± 3**	115± 5**	124± 5**	130± 7*	135± 6**	141± 5*

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

STUDY NO. : 0669
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	155± 10	160± 10	164± 10	169± 11	173± 11	176± 12	177± 11
256 ppm	157± 6	160± 8	164± 6	167± 8	170± 8	175± 8	174± 8
640 ppm	151± 9	155± 9	160± 11	163± 13	166± 12	170± 13	170± 12
1600 ppm	155± 9	158± 10	162± 11	164± 11	166± 12	169± 12	170± 12
4000 ppm	148± 5	151± 6	154± 6	159± 7	161± 6*	165± 7	166± 7
10000 ppm	144± 5*	148± 6*	153± 6*	156± 6*	159± 6**	162± 7*	165± 7

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

TABLE D 1

FOOD CONSUMPTION CHANGES

AND SURVIVAL ANIMAL NUMBERS

: MALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[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>	256 ppm Av. FC.	256 ppm % of cont. <10>	256 ppm No. of Surviv.	640 ppm Av. FC.	640 ppm % of cont. <10>	640 ppm No. of Surviv.	1600 ppm Av. FC.	1600 ppm % of cont. <10>	1600 ppm No. of Surviv.	4000 ppm Av. FC.	4000 ppm % of cont. <10>	4000 ppm No. of Surviv.	10000 ppm Av. FC.	10000 ppm % of cont. <10>	10000 ppm No. of Surviv.
1-7	13.2 (10)	10/10	13.1 (10)	99	10/10	12.6 (10)	95	10/10	12.6 (10)	95	10/10	12.1 (10)	92	10/10	9.5 (10)	72	10/10
2-7	14.5 (10)	10/10	14.1 (10)	97	10/10	13.4 (10)	92	10/10	13.6 (10)	94	10/10	13.5 (10)	93	10/10	12.0 (10)	83	10/10
3-7	15.3 (10)	10/10	15.2 (10)	99	10/10	14.5 (10)	95	10/10	14.5 (10)	95	10/10	14.9 (10)	97	10/10	13.0 (10)	85	10/10
4-7	15.9 (10)	10/10	15.5 (10)	97	10/10	14.6 (10)	92	10/10	14.8 (10)	93	10/10	14.8 (10)	93	10/10	13.3 (10)	84	10/10
5-7	15.6 (10)	10/10	15.4 (10)	99	10/10	14.5 (10)	93	10/10	15.0 (10)	96	10/10	14.8 (10)	95	10/10	13.7 (10)	88	10/10
6-7	15.1 (10)	10/10	15.0 (10)	99	10/10	14.4 (10)	95	10/10	14.5 (10)	96	10/10	15.0 (10)	99	10/10	13.6 (10)	90	10/10
7-7	15.6 (10)	10/10	15.3 (10)	98	10/10	14.5 (10)	93	10/10	14.6 (10)	94	10/10	14.8 (10)	95	10/10	13.6 (10)	87	10/10
8-7	15.1 (10)	10/10	15.2 (10)	101	10/10	14.2 (10)	94	10/10	14.4 (10)	95	10/10	14.8 (10)	98	10/10	13.5 (10)	89	10/10
9-7	15.5 (10)	10/10	15.5 (10)	100	10/10	14.5 (10)	94	10/10	14.9 (10)	96	10/10	15.1 (10)	97	10/10	13.8 (10)	89	10/10
10-7	15.0 (10)	10/10	14.8 (10)	99	10/10	14.4 (10)	96	10/10	14.7 (10)	98	10/10	14.8 (10)	99	10/10	13.9 (10)	93	10/10
11-7	15.2 (10)	10/10	15.0 (10)	99	10/10	14.3 (10)	94	10/10	14.4 (10)	95	10/10	14.1 (10)	93	10/10	13.6 (10)	89	10/10
12-7	15.1 (10)	10/10	14.8 (10)	98	10/10	14.5 (10)	96	10/10	14.4 (10)	95	10/10	14.3 (10)	95	10/10	13.5 (10)	89	10/10
13-7	15.2 (10)	10/10	14.8 (10)	97	10/10	14.3 (10)	94	10/10	14.3 (10)	94	10/10	13.9 (10)	91	10/10	13.3 (10)	88	10/10

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

TABLE D 2

FOOD CONSUMPTION CHANGES

AND SURVIVAL ANIMAL NUMBERS

: FEMALE

STUDY NO. : 0669
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>	256 ppm Av. FC.	256 ppm % of cont. <10>	256 ppm No. of Surviv.	640 ppm Av. FC.	640 ppm % of cont. <10>	640 ppm No. of Surviv.	1600 ppm Av. FC.	1600 ppm % of cont. <10>	1600 ppm No. of Surviv.	4000 ppm Av. FC.	4000 ppm % of cont. <10>	4000 ppm No. of Surviv.	10000 ppm Av. FC.	10000 ppm % of cont. <10>	10000 ppm No. of Surviv.
1-7	10.2 (10)	10/10	10.3 (10)	101	10/10	10.0 (10)	98	10/10	9.5 (10)	93	10/10	9.1 (9)	89	10/10	8.3 (10)	81	10/10
2-7	10.3 (10)	10/10	10.2 (10)	99	10/10	9.9 (10)	96	10/10	9.6 (10)	93	10/10	9.4 (10)	91	10/10	8.9 (10)	86	10/10
3-7	10.5 (10)	10/10	10.7 (10)	102	10/10	10.4 (10)	99	10/10	10.1 (10)	96	10/10	10.0 (10)	95	10/10	9.1 (10)	87	10/10
4-7	10.4 (10)	10/10	10.4 (10)	100	10/10	10.2 (10)	98	10/10	10.5 (10)	101	10/10	9.7 (10)	93	10/10	8.7 (10)	84	10/10
5-7	10.2 (10)	10/10	10.3 (10)	101	10/10	10.4 (10)	102	10/10	10.5 (10)	103	10/10	9.7 (10)	95	10/10	8.6 (10)	84	10/10
6-7	10.2 (10)	10/10	10.1 (10)	99	10/10	9.2 (10)	90	10/10	10.2 (10)	100	10/10	9.5 (10)	93	10/10	8.6 (10)	84	10/10
7-7	9.8 (10)	10/10	10.0 (10)	102	10/10	10.0 (10)	102	10/10	10.0 (10)	102	10/10	9.6 (10)	98	10/10	8.6 (10)	88	10/10
8-7	9.6 (10)	10/10	9.6 (10)	100	10/10	9.6 (10)	100	10/10	9.6 (10)	100	10/10	9.4 (10)	98	10/10	8.3 (10)	86	10/10
9-7	9.7 (10)	10/10	9.6 (10)	99	10/10	9.7 (10)	100	10/10	9.9 (10)	102	10/10	9.3 (10)	96	10/10	8.5 (10)	88	10/10
10-7	9.7 (10)	10/10	9.5 (10)	98	10/10	9.6 (10)	99	10/10	9.5 (10)	98	10/10	9.5 (10)	98	10/10	8.5 (10)	88	10/10
11-7	10.0 (10)	10/10	9.6 (10)	96	10/10	9.7 (10)	97	10/10	9.4 (10)	94	10/10	9.4 (10)	94	10/10	8.8 (10)	88	10/10
12-7	10.0 (10)	10/10	9.9 (10)	99	10/10	9.8 (10)	98	10/10	9.8 (10)	98	10/10	9.7 (10)	97	10/10	8.8 (10)	88	10/10
13-7	9.7 (10)	10/10	9.5 (10)	98	10/10	9.3 (10)	96	10/10	9.7 (10)	100	10/10	9.4 (10)	97	10/10	8.8 (10)	91	10/10

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

TABLE D 3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0669
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	13.2± 0.6	14.5± 0.9	15.3± 0.9	15.9± 0.9	15.6± 0.9	15.1± 1.0	15.6± 1.5
256 ppm	13.1± 0.7	14.1± 0.9	15.2± 1.0	15.5± 1.2	15.4± 0.6	15.0± 0.8	15.3± 0.7
640 ppm	12.6± 0.6	13.4± 0.5**	14.5± 0.4*	14.6± 0.5**	14.5± 0.4**	14.4± 0.5	14.5± 0.7
1600 ppm	12.6± 0.4	13.6± 0.6*	14.5± 0.6	14.8± 0.9*	15.0± 0.8	14.5± 0.8	14.6± 0.8
4000 ppm	12.1± 0.5**	13.5± 0.8**	14.9± 1.0	14.8± 0.6*	14.8± 0.6*	15.0± 0.7	14.8± 0.8
10000 ppm	9.5± 0.4**	12.0± 0.3**	13.0± 0.5**	13.3± 0.8**	13.7± 0.4**	13.6± 0.5**	13.6± 0.4**

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

STUDY NO. : 0669
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	15.1± 0.8	15.5± 1.1	15.0± 1.2	15.2± 1.0	15.1± 1.0	15.2± 1.3
256 ppm	15.2± 0.7	15.5± 0.5	14.8± 0.7	15.0± 0.9	14.8± 0.7	14.8± 0.5
640 ppm	14.2± 0.4	14.5± 0.6*	14.4± 0.5	14.3± 0.6	14.5± 0.5	14.3± 0.7
1600 ppm	14.4± 1.0	14.9± 0.8	14.7± 0.8	14.4± 0.7	14.4± 0.6	14.3± 0.7
4000 ppm	14.8± 1.1	15.1± 0.7	14.8± 0.7	14.1± 1.0*	14.3± 0.9	13.9± 0.7**
10000 ppm	13.5± 0.6**	13.8± 0.6**	13.9± 0.7	13.6± 0.7**	13.5± 0.7**	13.3± 0.5**

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

TABLE D 4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0669
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	10.2± 0.5	10.3± 0.6	10.5± 0.5	10.4± 0.6	10.2± 1.3	10.2± 0.6	9.8± 0.7
256 ppm	10.3± 0.5	10.2± 0.6	10.7± 0.6	10.4± 0.7	10.3± 0.8	10.1± 0.7	10.0± 0.7
640 ppm	10.0± 0.4	9.9± 0.8	10.4± 0.7	10.2± 0.6	10.4± 0.6	9.2± 2.7	10.0± 0.8
1600 ppm	9.5± 0.4*	9.6± 0.5	10.1± 0.6	10.5± 0.6	10.5± 0.8	10.2± 0.8	10.0± 0.8
4000 ppm	9.1± 0.3**	9.4± 0.5*	10.0± 0.6	9.7± 0.6	9.7± 0.5	9.5± 0.5	9.6± 0.4
10000 ppm	8.3± 1.6**	8.9± 0.7**	9.1± 0.6**	8.7± 0.8**	8.6± 0.6**	8.6± 0.6**	8.6± 0.7**

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

STUDY NO. : 0669
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	9.6± 0.7	9.7± 0.6	9.7± 0.5	10.0± 0.5	10.0± 0.6	9.7± 0.6
256 ppm	9.6± 0.5	9.6± 0.4	9.5± 0.7	9.6± 0.6	9.9± 0.7	9.5± 0.6
640 ppm	9.6± 1.0	9.7± 0.9	9.6± 1.0	9.7± 0.8	9.8± 0.6	9.3± 0.8
1600 ppm	9.6± 0.7	9.9± 0.8	9.5± 0.8	9.4± 1.0	9.8± 1.0	9.7± 0.8
4000 ppm	9.4± 0.5	9.3± 0.5	9.5± 0.5	9.4± 0.5	9.7± 0.6	9.4± 0.6
10000 ppm	8.3± 0.5**	8.5± 0.6**	8.5± 0.5**	8.8± 0.6**	8.8± 0.6**	8.8± 0.5

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

TABLE E 1

CHEMICAL INTAKE CHANGES : MALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 13
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
256 ppm	22±	1	20±	1	18±	1	17±	1	16±	0	15±	0	14±	0
640 ppm	53±	1	48±	1	45±	1	42±	1	39±	1	37±	1	35±	2
1600 ppm	133±	3	120±	3	113±	3	106±	4	99±	4	92±	3	87±	3
4000 ppm	324±	11	304±	10	295±	9	268±	10	251±	6	241±	6	229±	6
10000 ppm	711±	32	770±	23	728±	24	669±	33	637±	21	594±	24	568±	12

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 13
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 8		9		10		11		12		13	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
256 ppm	14±	1	13±	0	12±	1	12±	1	12±	1	12±	1
640 ppm	33±	1	32±	1	31±	1	30±	1	30±	1	29±	1
1600 ppm	83±	3	82±	3	78±	2	75±	2	73±	2	72±	2
4000 ppm	219±	6	215±	10	204±	5	191±	8	190±	7	183±	5
10000 ppm	541±	22	530±	16	517±	17	498±	23	481±	15	471±	14

TABLE E 2

CHEMICAL INTAKE CHANGES : FEMALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg／kg／d a y
REPORT TYPE : A1 13
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
256 ppm	23±	1	21±	1	21±	1	19±	1	18±	1	17±	1	16±	1
640 ppm	57±	2	51±	2	51±	2	48±	1	46±	2	40±	10	42±	4
1600 ppm	137±	4	127±	4	124±	4	122±	5	117±	6	109±	4	103±	4
4000 ppm	331±	15	314±	13	314±	15	289±	11	279±	10	264±	6	260±	11
10000 ppm	813±	168	773±	37	735±	24	666±	41	637±	29	608±	30	595±	34

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 13
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 8		9		10		11		12		13	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
256 ppm	15±	0	15±	0	14±	1	14±	1	15±	1	14±	1
640 ppm	40±	4	39±	2	38±	2	37±	1	37±	2	35±	2
1600 ppm	97±	4	98±	3	92±	3	91±	5	92±	4	91±	3
4000 ppm	249±	12	242±	10	240±	8	234±	9	235±	11	228±	11
10000 ppm	563±	19	558±	30	546±	18	551±	32	542±	29	537±	24

TABLE F 1

HEMATOLOGY : MALE

STUDY NO. : 0669
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 fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	10	9.31± 0.18	16.3± 0.3	42.8± 0.7	46.0± 0.4	17.5± 0.2	38.1± 0.3	718± 65
256 ppm	10	9.29± 0.18	16.2± 0.3	43.0± 0.8	46.3± 0.2	17.5± 0.2	37.8± 0.4	704± 73
640 ppm	10	8.98± 0.10**	15.9± 0.2*	42.0± 0.5	46.8± 0.3**	17.7± 0.2	37.9± 0.4	704± 42
1600 ppm	10	8.53± 0.26**	15.5± 0.4**	41.3± 1.1**	48.4± 0.4**	18.2± 0.3**	37.6± 0.3	678± 52
4000 ppm	10	7.92± 0.19**	14.9± 0.3**	40.3± 0.8**	50.8± 0.5**	18.8± 0.3**	36.9± 0.4**	653± 75
10000 ppm	10	7.33± 0.14**	14.6± 0.3**	39.9± 0.8**	54.5± 0.6**	19.9± 0.5**	36.5± 0.6**	525± 38**

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

(HCL070)

STUDY NO. : 0669
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 %	METHEMOGLOBIN %
Control	10	1.9± 0.1	0.6± 0.1
256 ppm	10	1.9± 0.2	0.8± 0.2
640 ppm	10	2.4± 0.2**	1.0± 0.2**
1600 ppm	10	3.3± 0.5**	1.0± 0.2**
4000 ppm	10	4.7± 0.4**	2.5± 0.5**
10000 ppm	10	6.9± 0.5**	4.1± 1.0**

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

STUDY NO. : 0669
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	6.49± 1.04	0± 0	18± 3	1± 1	0± 0	3± 1	78± 3	0± 0
256 ppm	10	7.07± 1.04	0± 0	20± 5	1± 1	0± 0	3± 1	76± 5	0± 0
640 ppm	10	7.09± 1.06	0± 0	20± 3	1± 1	0± 0	2± 0	77± 3	0± 0
1600 ppm	10	8.00± 1.33*	1± 1	17± 4	1± 1	0± 0	3± 1	79± 3	0± 1
4000 ppm	10	7.84± 1.60*	0± 0	14± 2	1± 1	0± 0	2± 1	83± 2*	0± 0
10000 ppm	10	5.78± 0.68	1± 1	14± 4	1± 1	0± 0	2± 1	83± 5	0± 0

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

TABLE F 2

HEMATOLOGY : FEMALE

STUDY NO. : 0669
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 fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	10	8.68± 0.27	16.3± 0.4	41.9± 0.9	48.3± 0.8	18.8± 0.4	38.8± 0.4	772± 38
256 ppm	10	8.20± 0.09**	15.7± 0.2**	40.7± 0.3**	49.6± 0.4**	19.1± 0.2*	38.6± 0.3	826± 22**
640 ppm	10	8.12± 0.20**	15.8± 0.3**	40.8± 0.8**	50.2± 0.4**	19.4± 0.2**	38.6± 0.3	804± 37
1600 ppm	10	7.58± 0.14**	14.8± 0.2**	38.8± 0.7**	51.3± 0.5**	19.6± 0.2**	38.2± 0.3**	823± 40**
4000 ppm	10	7.32± 0.15**	14.6± 0.3**	38.5± 0.6**	52.6± 0.6**	20.0± 0.2**	38.0± 0.3**	793± 33
10000 ppm	10	6.65± 0.19**	14.0± 0.2**	37.5± 0.5**	56.4± 1.0**	21.1± 0.5**	37.4± 0.4**	579± 32**

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

STUDY NO. : 0669
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 %	METHEMOGLOBIN %
Control	10	1.7± 0.3	0.6± 0.1
256 ppm	10	2.3± 0.3**	0.9± 0.2**
640 ppm	10	2.3± 0.3**	0.9± 0.1**
1600 ppm	10	3.3± 0.5**	1.3± 0.2**
4000 ppm	10	4.7± 1.0**	2.8± 0.4**
10000 ppm	10	8.4± 1.0**	4.4± 0.5**

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

STUDY NO. : 0669
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	4.44± 0.90	1± 1	19± 6	1± 1	0± 0	2± 1	78± 6	0± 0
256 ppm	10	4.68± 0.54	0± 0	14± 3*	1± 1	0± 0	2± 1	83± 2*	0± 0
640 ppm	10	4.72± 1.19	1± 1	16± 2	1± 1	0± 0	2± 1	81± 2	0± 0
1600 ppm	10	5.17± 1.49	0± 1	14± 3*	1± 1	0± 0	2± 1	83± 4*	0± 1
4000 ppm	10	5.37± 1.08	0± 0	12± 3**	1± 1	0± 0	2± 1	85± 3**	0± 0
10000 ppm	10	4.94± 1.02	0± 1	12± 3**	1± 1	0± 0	2± 1	85± 3**	0± 0

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

TABLE G 1

BIOCHEMISTRY : MALE

STUDY NO. : 0669
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	6.4±	0.1	3.6±	0.1	1.2±	0.1	0.10±	0.01	183±	6	60±	3	58±	16
256 ppm	10	6.4±	0.1	3.6±	0.1	1.3±	0.1	0.10±	0.01	187±	12	58±	3	67±	17
640 ppm	10	6.3±	0.1	3.6±	0.1	1.3±	0.1*	0.11±	0.01	181±	10	59±	4	60±	22
1600 ppm	10	6.4±	0.1	3.7±	0.1**	1.4±	0.1**	0.12±	0.01**	188±	7	63±	4	77±	18
4000 ppm	10	6.6±	0.1**	4.0±	0.1**	1.5±	0.1**	0.12±	0.01**	180±	6	81±	7**	67±	19
10000 ppm	10	6.5±	0.1*	4.0±	0.1**	1.6±	0.1**	0.16±	0.01**	168±	8**	85±	4**	55±	18

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

STUDY NO. : 0669
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	115± 5	81± 20	45± 8	185± 64	256± 9	1± 0	107± 14
256 ppm	10	113± 10	95± 27	52± 13	192± 61	266± 21	1± 0	102± 17
640 ppm	10	115± 7	98± 25	52± 10	176± 60	264± 20	1± 1	94± 16
1600 ppm	10	125± 4**	117± 50	62± 25*	202± 72	277± 21	1± 1	87± 14**
4000 ppm	10	152± 12**	104± 27	58± 15*	188± 59	272± 20	1± 0	76± 6**
10000 ppm	10	158± 8**	97± 41	45± 14	193± 96	268± 19	1± 0	73± 8**

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

STUDY NO. : 0669
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	19.0± 1.1	0.6± 0.1	143± 2	3.7± 0.3	105± 1	10.4± 0.1	5.7± 0.5
256 ppm	10	18.6± 1.3	0.5± 0.0	143± 1	3.5± 0.1	105± 1	10.4± 0.2	5.5± 0.6
640 ppm	10	19.0± 1.4	0.5± 0.0	143± 1	3.5± 0.2	106± 1	10.2± 0.2	5.3± 0.6
1600 ppm	10	19.4± 1.2	0.5± 0.0	143± 1	3.5± 0.2	105± 1	10.3± 0.2	5.2± 0.7
4000 ppm	10	20.5± 2.2	0.5± 0.0	143± 2	3.6± 0.2	105± 1	10.3± 0.2	5.2± 0.6
10000 ppm	10	21.3± 1.9**	0.5± 0.0	142± 1	3.8± 0.2	105± 1	10.3± 0.2	5.5± 0.6

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

TABLE G 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0669
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	6.0± 0.2	3.5± 0.1	1.4± 0.1	0.11± 0.01	144± 7	67± 4	12± 4
256 ppm	10	6.1± 0.1	3.6± 0.1*	1.4± 0.1	0.12± 0.01*	140± 8	68± 3	10± 3
640 ppm	10	6.2± 0.1	3.7± 0.1**	1.5± 0.1	0.12± 0.01	151± 10	71± 3	11± 3
1600 ppm	10	6.3± 0.1**	3.8± 0.1**	1.6± 0.1**	0.13± 0.01**	153± 12	70± 6	11± 3
4000 ppm	10	6.5± 0.1**	4.0± 0.1**	1.6± 0.1**	0.15± 0.01**	153± 11	79± 5**	11± 2
10000 ppm	10	6.4± 0.1**	4.0± 0.1**	1.6± 0.1**	0.18± 0.02**	147± 7	90± 6**	13± 3

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

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	129± 8	69± 10	34± 6	94± 17	190± 15	2± 1	82± 9
256 ppm	10	132± 6	73± 20	37± 13	99± 31	188± 18	1± 0	77± 9
640 ppm	10	134± 4	70± 9	33± 3	120± 53	205± 14	2± 1	79± 15
1600 ppm	10	130± 9	73± 18	34± 8	149± 75	209± 18	2± 1	83± 22
4000 ppm	10	141± 7**	76± 15	34± 7	159± 68*	202± 13	1± 1	82± 20
10000 ppm	10	155± 9**	86± 18	34± 6	204± 69**	244± 21**	2± 1	83± 27

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

STUDY NO. : 0669
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	17.8± 1.4	0.5± 0.1	143± 1	3.6± 0.4	107± 1	10.0± 0.1	4.6± 1.2
256 ppm	10	17.4± 1.7	0.5± 0.0	143± 2	3.6± 0.2	107± 1	10.1± 0.1	4.9± 1.0
640 ppm	10	18.0± 2.8	0.5± 0.1	143± 0	3.6± 0.2	107± 1	10.0± 0.2	4.5± 0.9
1600 ppm	10	18.3± 1.6	0.5± 0.0	143± 1	3.7± 0.3	107± 1	10.1± 0.1	4.7± 1.2
4000 ppm	10	20.0± 1.9	0.5± 0.0	144± 1	3.7± 0.3	107± 1	10.2± 0.1	4.9± 0.7
10000 ppm	10	22.0± 2.6**	0.5± 0.0	142± 1	4.0± 0.3*	106± 1	10.1± 0.2	5.1± 0.7

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

TABLE H 1

URINALYSIS : MALE

STUDY NO. : 0669
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
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	Bilirubin −	+	2+	3+	CHI
Control	10	0	0	0	0	0	4	6		0	0	2	8	0	0		10	0	0	0	0	0		0	8	2	0	0	0		10	0	0	0	
256 ppm	10	0	0	0	0	0	5	5		0	0	2	8	0	0		10	0	0	0	0	0		0	9	1	0	0	0		10	0	0	0	
640 ppm	10	0	0	0	0	0	5	5		0	0	1	9	0	0		10	0	0	0	0	0		0	10	0	0	0	0		10	0	0	0	
1600 ppm	10	0	0	0	0	0	6	4		0	0	2	7	1	0		10	0	0	0	0	0		0	10	0	0	0	0		10	0	0	0	
4000 ppm	10	0	0	0	0	0	7	3		0	0	2	8	0	0		10	0	0	0	0	0		−	−	−	−	−	−		−	−	−	−	
10000 ppm	10	0	0	0	0	0	9	1	*	0	0	1	9	0	0		10	0	0	0	0	0		−	−	−	−	−	−		−	−	−	−	

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

STUDY NO. : 0669 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	
256 ppm	10	10	0	0	0	0		10	0	0	0	0	
640 ppm	10	10	0	0	0	0		10	0	0	0	0	
1600 ppm	10	10	0	0	0	0		10	0	0	0	0	
4000 ppm	10	10	0	0	0	0		10	0	0	0	0	
10000 ppm	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. : 0669 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	8	2		0	2	6	2	0	0		10	0	0	0	0	0		4	6	0	0	0	0		10	0	0	0	
256 ppm	10	0	0	0	0	0	6	4		0	2	6	2	0	0		10	0	0	0	0	0		6	4	0	0	0	0		10	0	0	0	
640 ppm	10	0	0	0	0	0	5	5		0	4	5	1	0	0		10	0	0	0	0	0		4	6	0	0	0	0		10	0	0	0	
1600 ppm	10	0	0	0	0	0	8	2		0	4	6	0	0	0		10	0	0	0	0	0		6	3	0	0	0	0		9	0	0	0	
4000 ppm	10	0	0	0	0	0	7	3		1	5	4	0	0	0		10	0	0	0	0	0		−	−	−	−	−	−		−	−	−	−	
10000 ppm	10	0	0	0	0	0	7	3		0	2	8	0	0	0		10	0	0	0	0	0		−	−	−	−	−	−		−	−	−	−	

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

STUDY NO. : 0669 URINALYSIS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE 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	
256 ppm	10	10	0	0	0	0		10	0	0	0	0	
640 ppm	10	10	0	0	0	0		10	0	0	0	0	
1600 ppm	10	10	0	0	0	0		10	0	0	0	0	
4000 ppm	10	10	0	0	0	0		10	0	0	0	0	
10000 ppm	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 :

ALL ANIMALS

STUDY NO. : 0669
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 (%)	256 ppm 10 (%)	640 ppm 10 (%)	1600 ppm 10 (%)
spleen	enlarged		0 (0)	0 (0)	0 (0)	0 (0)
	rough		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		1 (10)	1 (10)	0 (0)	1 (10)
eye	turbid		0 (0)	0 (0)	1 (10)	0 (0)

Organ	Findings	Group Name NO. of Animals	4000 ppm 10 (%)	10000 ppm 10 (%)
spleen	enlarged		10 (100)	10 (100)
	rough		10 (100)	10 (100)
liver	herniation		1 (10)	0 (0)
eye	turbid		0 (0)	0 (0)

TABLE I 2

GROSS FINDINGS : FEMALE :

ALL ANIMALS

Organ	Findings	Group Name / NO. of Animals	Control 10 (%)	256 ppm 10 (%)	640 ppm 10 (%)	1600 ppm 10 (%)
spleen	enlarged		0 (0)	0 (0)	0 (0)	0 (0)
	rough		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		2 (20)	0 (0)	1 (10)	1 (10)

Organ	Findings	Group Name	4000 ppm	10000 ppm
		NO. of Animals	10 (%)	10 (%)
spleen	enlarged		0 (0)	10 (100)
	rough		0 (0)	10 (100)
liver	herniation		1 (10)	1 (10)

TABLE J 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0669
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	306± 18	0.201± 0.030	0.051± 0.003	3.162± 0.109	0.914± 0.066	0.998± 0.050
256 ppm	10	310± 13	0.201± 0.021	0.051± 0.003	3.104± 0.146	0.920± 0.027	0.984± 0.037
640 ppm	10	298± 11	0.192± 0.018	0.050± 0.005	3.123± 0.098	0.880± 0.039	0.979± 0.016
1600 ppm	10	298± 10	0.183± 0.018	0.049± 0.007	3.117± 0.212	0.885± 0.074	0.974± 0.058
4000 ppm	10	284± 16**	0.179± 0.019	0.048± 0.005	3.140± 0.137	0.898± 0.070	0.950± 0.079*
10000 ppm	10	264± 9**	0.182± 0.015	0.050± 0.005	3.101± 0.121	0.854± 0.041*	0.910± 0.053**

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

STUDY NO. : 0669
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	1.886± 0.091	0.588± 0.055	7.513± 0.480	1.923± 0.028
256 ppm	10	1.869± 0.070	0.581± 0.029	7.657± 0.438	1.901± 0.034
640 ppm	10	1.831± 0.078	0.592± 0.030	7.490± 0.413	1.904± 0.043
1600 ppm	10	1.847± 0.088	0.711± 0.058**	8.342± 0.410**	1.905± 0.044
4000 ppm	10	1.925± 0.161	1.013± 0.065**	9.823± 0.559**	1.884± 0.065
10000 ppm	10	1.979± 0.088	1.586± 0.098**	10.061± 0.546**	1.865± 0.023**

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

TABLE J 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0669
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	164± 11	0.163± 0.007	0.055± 0.007	0.095± 0.011	0.577± 0.026	0.697± 0.030
256 ppm	10	163± 8	0.157± 0.021	0.055± 0.006	0.093± 0.009	0.591± 0.034	0.689± 0.038
640 ppm	10	158± 12	0.162± 0.026	0.055± 0.004	0.091± 0.012	0.573± 0.051	0.692± 0.037
1600 ppm	10	159± 12	0.162± 0.016	0.055± 0.003	0.095± 0.006	0.589± 0.039	0.699± 0.037
4000 ppm	10	154± 6	0.165± 0.019	0.050± 0.002	0.090± 0.007	0.574± 0.030	0.680± 0.039
10000 ppm	10	152± 6*	0.162± 0.028	0.045± 0.003**	0.078± 0.008**	0.566± 0.047	0.662± 0.046

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

STUDY NO. : 0669
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	1.089± 0.062	0.368± 0.022	3.770± 0.228	1.766± 0.033
256 ppm	10	1.124± 0.061	0.394± 0.026	3.869± 0.186	1.751± 0.037
640 ppm	10	1.114± 0.043	0.391± 0.026	3.948± 0.251	1.739± 0.047
1600 ppm	10	1.115± 0.057	0.456± 0.037**	4.378± 0.304**	1.756± 0.030
4000 ppm	10	1.112± 0.036	0.636± 0.043**	4.922± 0.217**	1.749± 0.043
10000 ppm	10	1.180± 0.063**	1.063± 0.050**	5.490± 0.305**	1.731± 0.048

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

TABLE K 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0669
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	306± 18	0.066± 0.010	0.017± 0.001	1.036± 0.071	0.299± 0.014	0.326± 0.018
256 ppm	10	310± 13	0.065± 0.005	0.016± 0.001	1.003± 0.057	0.297± 0.013	0.317± 0.010
640 ppm	10	298± 11	0.064± 0.006	0.017± 0.002	1.051± 0.038	0.296± 0.010	0.330± 0.013
1600 ppm	10	298± 10	0.062± 0.007	0.016± 0.002	1.047± 0.068	0.297± 0.015	0.327± 0.014
4000 ppm	10	284± 16**	0.063± 0.007	0.017± 0.002	1.107± 0.049*	0.316± 0.014*	0.334± 0.016
10000 ppm	10	264± 9**	0.069± 0.006	0.019± 0.002*	1.178± 0.059**	0.324± 0.015**	0.345± 0.019*

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

STUDY NO. : 0669
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	0.617± 0.023	0.192± 0.011	2.453± 0.065	0.630± 0.038
256 ppm	10	0.604± 0.021	0.188± 0.008	2.470± 0.070	0.614± 0.024
640 ppm	10	0.615± 0.015	0.199± 0.012	2.517± 0.079	0.641± 0.023
1600 ppm	10	0.620± 0.022	0.239± 0.015**	2.801± 0.101**	0.640± 0.014
4000 ppm	10	0.677± 0.026**	0.357± 0.019**	3.460± 0.116**	0.664± 0.022*
10000 ppm	10	0.751± 0.015**	0.602± 0.030**	3.817± 0.120**	0.709± 0.022**

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

TABLE K 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0669
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	164± 11	0.099± 0.004	0.033± 0.003	0.058± 0.006	0.352± 0.018	0.426± 0.022
256 ppm	10	163± 8	0.096± 0.010	0.034± 0.004	0.057± 0.006	0.363± 0.018	0.423± 0.021
640 ppm	10	158± 12	0.102± 0.013	0.035± 0.004	0.058± 0.006	0.363± 0.016	0.439± 0.027
1600 ppm	10	159± 12	0.102± 0.009	0.035± 0.002	0.060± 0.005	0.372± 0.029	0.440± 0.018
4000 ppm	10	154± 6	0.107± 0.009	0.032± 0.002	0.059± 0.005	0.373± 0.018	0.442± 0.016
10000 ppm	10	152± 6*	0.106± 0.015	0.029± 0.002*	0.051± 0.004	0.371± 0.028	0.434± 0.021

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

STUDY NO. : 0669
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	0.664± 0.026	0.224± 0.011	2.300± 0.096	1.081± 0.076
256 ppm	10	0.690± 0.029	0.242± 0.014**	2.374± 0.075	1.077± 0.057
640 ppm	10	0.707± 0.047*	0.247± 0.008**	2.499± 0.075**	1.105± 0.089
1600 ppm	10	0.702± 0.032*	0.287± 0.009**	2.754± 0.104**	1.108± 0.076
4000 ppm	10	0.723± 0.019**	0.414± 0.022**	3.200± 0.071**	1.139± 0.037
10000 ppm	10	0.775± 0.032**	0.698± 0.025**	3.602± 0.131**	1.137± 0.033

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

TABLE L 1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE :

ALL ANIMALS

Organ	Findings	Group Name	Control				256 ppm				640 ppm				1600 ppm			
		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:gland		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<10>				<10>				<10>				<10>			
	increased hematopoiesis		0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0 *
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
spleen			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	extramedullary hematopoiesis		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)	(100)	(0)	(0)	(0)
	engorgement of erythrocyte		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)	(100)	(0)	(0)	(0)
	capsule hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	respiratory metaplasia:gland		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	increased hematopoiesis		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
spleen			<10>				<10>			
	deposit of hemosiderin		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	extramedullary hematopoiesis		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	engorgement of erythrocyte		10	0	0	0 **	0	10	0	0 **
			(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	capsule hyperplasia		10	0	0	0 **	1	9	0	0 **
			(100)	(0)	(0)	(0)	(10)	(90)	(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				256 ppm 10				640 ppm 10				1600 ppm 10			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	herniation		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hepatocellular hypertrophy:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			<10>				<10>			
	herniation		1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		6	0	0	0 *	10	0	0	0 **
			(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Urinary system}										
kidney			<10>				<10>			
	deposit of hemosiderin		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	eosinophilic body		10	0	0	0	10	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b 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				256 ppm				640 ppm				1600 ppm			
		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>			
	degeneration:tubule		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<10>				<10>				<10>				<10>			
	Rathke pouch		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
testis			<10>				<10>				<10>				<10>			
	germ cell necrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)
prostate			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<10>				<10>				<10>				<10>			
	retinal atrophy		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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}										
kidney			<10>				<10>			
	degeneration:tubule		0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Endocrine system}										
pituitary			<10>				<10>			
	Rathke pouch		2	0	0	0	2	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Reproductive system}										
testis			<10>				<10>			
	germ cell necrosis		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate			<10>				<10>			
	lymphocytic infiltration		0	1	0	0	0	0	0	0
			(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			<10>				<10>			
	retinal 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

Organ	Findings	Group Name	Control				256 ppm				640 ppm				1600 ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage)																		
eye			<10>				<10>				<10>				<10>			
	mineralization:cornea		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)
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(20)	(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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}										
eye			<10>				<10>			
	mineralization:cornea		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<10>				<10>			
	lymphocytic infiltration		1	0	0	0	6	3	0	0 **
			(10)	(0)	(0)	(0)	(60)	(30)	(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 :

ALL ANIMALS

Organ	Findings	Group Name	Control				256 ppm				640 ppm				1600 ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<10>				<10>				<10>				<10>			
	granulation		0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	increased hematopoiesis		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)
spleen			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		0	0	0	0	0	0	0	0	10	0	0	0 **	10	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	extramedullary hematopoiesis		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)	(100)	(0)	(0)	(0)
	engorgement of erythrocyte		0	0	0	0	0	0	0	0	9	0	0	0 **	10	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	capsule hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	herniation		2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(0)	(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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	granulation		0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	increased hematopoiesis		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
spleen			<10>				<10>			
	deposit of hemosiderin		10	0	0	0 **	7	0	0	0 **
			(100)	(0)	(0)	(0)	(70)	(0)	(0)	(0)
	extramedullary hematopoiesis		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	engorgement of erythrocyte		10	0	0	0 **	0	10	0	0 **
			(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	capsule hyperplasia		10	0	0	0 **	0	10	0	0 **
			(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
{Digestive system}										
liver			<10>				<10>			
	herniation		1	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(20)	(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				256 ppm				640 ppm				1600 ppm			
		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>			
	deposit of hemosiderin		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		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)
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:cortico-medullary junction		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)
{Endocrine system}																		
pituitary			<10>				<10>				<10>				<10>			
	Rathke pouch		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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			<10>				<10>			
	deposit of hemosiderin		7	0	0	0 **	10	0	0	0 **
			(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	granulation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		10	0	0	0 **	4	6	0	0 **
			(100)	(0)	(0)	(0)	(40)	(60)	(0)	(0)
{Urinary system}										
kidney			<10>				<10>			
	deposit of hemosiderin		10	0	0	0 **	10	0	0	0 **
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	mineralization:cortico-medullary junction		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				256 ppm				640 ppm				1600 ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		2	1	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			(20)	(10)	(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	4000 ppm				10000 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}										
Harder gl			<10>				<10>			
	lymphocytic infiltration		2	0	0	0	4	3	1	0
			(20)	(0)	(0)	(0)	(40)	(30)	(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