アクロレイン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：0782

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF ACROLEIN IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

CONCENTRATIONS OF ACROLEIN IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.00 ± 0.00
0.1 ppm	0.10 ± 0.00
0.3 ppm	0.30 ± 0.00
1 ppm	1.01 ± 0.01
2 ppm	2.01 ± 0.02
3 ppm	3.01 ± 0.02

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0782
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
0.1ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.3ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0782
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
0.1ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.3ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3ppm	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 C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0782
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
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3ppm	0	0	1	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3ppm	1	6	5	1	2	2	7	4	2	3	2	1	2

TABLE C2

CLINICAL OBSERVATION : 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
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3ppm	1	4	4	1	2	3	6	4	3	6	1	1	1

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0782
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>	0.1ppm Av. Wt.	0.1ppm % of cont. <10>	0.1ppm No. of Surviv.	0.3ppm Av. Wt.	0.3ppm % of cont. <10>	0.3ppm No. of Surviv.	1ppm Av. Wt.	1ppm % of cont. <10>	1ppm No. of Surviv.	2ppm Av. Wt.	2ppm % of cont. <10>	2ppm No. of Surviv.	3ppm Av. Wt.	3ppm % of cont. <10>	3ppm No. of Surviv.
0-0	117 (10)	10/10	117 (10)	100	10/10	117 (10)	100	10/10	117 (10)	100	10/10	117 (10)	100	10/10	117 (10)	100	10/10
1-7	143 (10)	10/10	144 (10)	101	10/10	142 (10)	99	10/10	141 (10)	99	10/10	131 (10)	92	10/10	116 (10)	81	10/10
2-7	172 (10)	10/10	172 (10)	100	10/10	170 (10)	99	10/10	171 (10)	99	10/10	155 (10)	90	10/10	128 (10)	74	10/10
3-7	197 (10)	10/10	196 (10)	99	10/10	195 (10)	99	10/10	193 (10)	98	10/10	177 (10)	90	10/10	130 (10)	66	10/10
4-7	218 (10)	10/10	217 (10)	100	10/10	217 (10)	100	10/10	214 (10)	98	10/10	198 (10)	91	10/10	148 (10)	68	10/10
5-7	236 (10)	10/10	234 (10)	99	10/10	233 (10)	99	10/10	232 (10)	98	10/10	211 (10)	89	10/10	154 (10)	65	10/10
6-7	250 (10)	10/10	248 (10)	99	10/10	246 (10)	98	10/10	244 (10)	98	10/10	222 (10)	89	10/10	165 (10)	66	10/10
7-7	262 (10)	10/10	260 (10)	99	10/10	259 (10)	99	10/10	257 (10)	98	10/10	236 (10)	90	10/10	179 (10)	68	10/10
8-7	275 (10)	10/10	269 (10)	98	10/10	269 (10)	98	10/10	267 (10)	97	10/10	245 (10)	89	10/10	190 (10)	69	10/10
9-7	286 (10)	10/10	280 (10)	98	10/10	280 (10)	98	10/10	276 (10)	97	10/10	251 (10)	88	10/10	195 (10)	68	10/10
10-7	294 (10)	10/10	287 (10)	98	10/10	287 (10)	98	10/10	283 (10)	96	10/10	256 (10)	87	10/10	199 (10)	68	10/10
11-7	302 (10)	10/10	294 (10)	97	10/10	295 (10)	98	10/10	294 (10)	97	10/10	264 (10)	87	10/10	207 (10)	69	10/10
12-7	310 (10)	10/10	300 (10)	97	10/10	302 (10)	97	10/10	299 (10)	96	10/10	271 (10)	87	10/10	211 (10)	68	10/10
13-7	314 (10)	10/10	306 (10)	97	10/10	308 (10)	98	10/10	307 (10)	98	10/10	277 (10)	88	10/10	214 (10)	68	10/10

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0782
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>	0.1ppm Av. Wt.	0.1ppm % of cont. <10>	0.1ppm No. of Surviv.	0.3ppm Av. Wt.	0.3ppm % of cont. <10>	0.3ppm No. of Surviv.	1ppm Av. Wt.	1ppm % of cont. <10>	1ppm No. of Surviv.	2ppm Av. Wt.	2ppm % of cont. <10>	2ppm No. of Surviv.	3ppm Av. Wt.	3ppm % of cont. <10>	3ppm No. of Surviv.
0-0	97 (10)	10/10	97 (10)	100	10/10	97 (10)	100	10/10	96 (10)	99	10/10	97 (10)	100	10/10	96 (10)	99	10/10
1-7	110 (10)	10/10	110 (10)	100	10/10	110 (10)	100	10/10	108 (10)	98	10/10	103 (10)	94	10/10	97 (10)	88	10/10
2-7	124 (10)	10/10	125 (10)	101	10/10	124 (10)	100	10/10	123 (10)	99	10/10	116 (10)	94	10/10	104 (10)	84	10/10
3-7	133 (10)	10/10	134 (10)	101	10/10	132 (10)	99	10/10	133 (10)	100	10/10	124 (10)	93	10/10	110 (10)	83	10/10
4-7	141 (10)	10/10	141 (10)	100	10/10	140 (10)	99	10/10	140 (10)	99	10/10	132 (10)	94	10/10	123 (10)	87	10/10
5-7	147 (10)	10/10	148 (10)	101	10/10	146 (10)	99	10/10	147 (10)	100	10/10	137 (10)	93	10/10	124 (10)	84	10/10
6-7	154 (10)	10/10	153 (10)	99	10/10	154 (10)	100	10/10	152 (10)	99	10/10	142 (10)	92	10/10	130 (10)	84	10/10
7-7	159 (10)	10/10	160 (10)	101	10/10	157 (10)	99	10/10	159 (10)	100	10/10	148 (10)	93	10/10	136 (10)	86	10/10
8-7	163 (10)	10/10	161 (10)	99	10/10	163 (10)	100	10/10	163 (10)	100	10/10	152 (10)	93	10/10	141 (10)	87	10/10
9-7	168 (10)	10/10	167 (10)	99	10/10	167 (10)	99	10/10	165 (10)	98	10/10	156 (10)	93	10/10	145 (10)	86	10/10
10-7	172 (10)	10/10	170 (10)	99	10/10	170 (10)	99	10/10	169 (10)	98	10/10	158 (10)	92	10/10	147 (10)	85	10/10
11-7	176 (10)	10/10	174 (10)	99	10/10	177 (10)	101	10/10	174 (10)	99	10/10	162 (10)	92	10/10	151 (10)	86	10/10
12-7	178 (10)	10/10	179 (10)	101	10/10	180 (10)	101	10/10	178 (10)	100	10/10	165 (10)	93	10/10	153 (10)	86	10/10
13-7	178 (10)	10/10	179 (10)	101	10/10	183 (10)	103	10/10	178 (10)	100	10/10	166 (10)	93	10/10	155 (10)	87	10/10

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0782
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	117± 4	143± 8	172± 10	197± 11	218± 12	236± 13	250± 13
0.1ppm	117± 4	144± 7	172± 8	196± 10	217± 11	234± 12	248± 12
0.3ppm	117± 4	142± 6	170± 8	195± 8	217± 9	233± 10	246± 11
1ppm	117± 4	141± 5	171± 9	193± 10	214± 9	232± 11	244± 12
2ppm	117± 4	131± 4**	155± 6**	177± 8**	198± 7**	211± 7**	222± 8**
3ppm	117± 4	116± 4**	128± 5**	130± 13**	148± 12**	154± 7**	165± 8**

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

STUDY NO. : 0782
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	262± 15	275± 17	286± 16	294± 16	302± 18	310± 17	314± 18
0.1ppm	260± 13	269± 14	280± 14	287± 14	294± 12	300± 13	306± 14
0.3ppm	259± 11	269± 13	280± 13	287± 15	295± 16	302± 16	308± 20
1ppm	257± 14	267± 15	276± 15	283± 17	294± 16	299± 17	307± 19
2ppm	236± 9**	245± 9**	251± 10**	256± 11**	264± 10**	271± 9**	277± 8**
3ppm	179± 8**	190± 6**	195± 7**	199± 6**	207± 7**	211± 9**	214± 10**

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0782
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	97± 3	110± 4	124± 4	133± 4	141± 5	147± 6	154± 7
0.1ppm	97± 3	110± 3	125± 4	134± 5	141± 4	148± 6	153± 5
0.3ppm	97± 3	110± 3	124± 4	132± 5	140± 4	146± 4	154± 5
1ppm	96± 3	108± 3	123± 3	133± 5	140± 5	147± 6	152± 6
2ppm	97± 3	103± 5**	116± 5**	124± 5**	132± 6**	137± 6**	142± 7**
3ppm	96± 3	97± 4**	104± 4**	110± 5**	123± 5**	124± 5**	130± 5**

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

STUDY NO. : 0782
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	159± 6	163± 7	168± 8	172± 8	176± 10	178± 9	178± 10
0.1ppm	160± 7	161± 5	167± 5	170± 5	174± 5	179± 7	179± 7
0.3ppm	157± 7	163± 8	167± 8	170± 9	177± 10	180± 9	183± 11
1ppm	159± 5	163± 6	165± 5	169± 7	174± 7	178± 8	178± 8
2ppm	148± 9**	152± 8**	156± 8**	158± 8**	162± 9**	165± 9**	166± 9**
3ppm	136± 5**	141± 4**	145± 4**	147± 4**	151± 4**	153± 5**	155± 4**

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

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0782
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>	0.1ppm Av. FC.	0.1ppm % of cont. <10>	0.1ppm No. of Surviv.	0.3ppm Av. FC.	0.3ppm % of cont. <10>	0.3ppm No. of Surviv.	1ppm Av. FC.	1ppm % of cont. <10>	1ppm No. of Surviv.	2ppm Av. FC.	2ppm % of cont. <10>	2ppm No. of Surviv.	3ppm Av. FC.	3ppm % of cont. <10>	3ppm No. of Surviv.
1-7	13.8 (10)	10/10	14.1 (10)	102	10/10	13.7 (10)	99	10/10	13.6 (10)	99	10/10	10.5 (10)	76	10/10	8.3 (10)	60	10/10
2-7	15.4 (10)	10/10	15.4 (10)	100	10/10	15.2 (10)	99	10/10	14.9 (10)	97	10/10	13.6 (10)	88	10/10	10.5 (10)	68	10/10
3-7	15.8 (10)	10/10	15.6 (10)	99	10/10	15.9 (10)	101	10/10	15.7 (10)	99	10/10	14.0 (10)	89	10/10	9.5 (10)	60	10/10
4-7	16.2 (10)	10/10	16.0 (10)	99	10/10	15.9 (10)	98	10/10	16.0 (10)	99	10/10	15.4 (10)	95	10/10	11.1 (10)	69	10/10
5-7	16.5 (10)	10/10	16.3 (10)	99	10/10	16.0 (10)	97	10/10	16.0 (10)	97	10/10	14.3 (10)	87	10/10	11.8 (10)	72	10/10
6-7	16.1 (10)	10/10	15.6 (10)	97	10/10	15.7 (10)	98	10/10	16.1 (10)	100	10/10	14.5 (10)	90	10/10	11.9 (10)	74	10/10
7-7	16.1 (10)	10/10	15.3 (10)	95	10/10	15.6 (10)	97	10/10	15.7 (10)	98	10/10	14.9 (10)	93	10/10	12.8 (10)	80	10/10
8-7	15.7 (10)	10/10	15.2 (10)	97	10/10	15.5 (10)	99	10/10	15.7 (10)	100	10/10	14.9 (10)	95	10/10	13.1 (10)	83	10/10
9-7	16.1 (10)	10/10	15.5 (10)	96	10/10	15.9 (10)	99	10/10	15.8 (10)	98	10/10	14.4 (10)	89	10/10	12.7 (10)	79	10/10
10-7	16.2 (10)	10/10	15.7 (10)	97	10/10	15.6 (10)	96	10/10	16.0 (10)	99	10/10	15.1 (10)	93	10/10	13.3 (10)	82	10/10
11-7	16.5 (10)	10/10	15.5 (10)	94	10/10	16.2 (10)	98	10/10	16.3 (10)	99	10/10	15.5 (10)	94	10/10	13.5 (10)	82	10/10
12-7	16.1 (10)	10/10	15.4 (10)	96	10/10	15.9 (10)	99	10/10	15.9 (10)	99	10/10	15.0 (10)	93	10/10	12.9 (10)	80	10/10
13-7	16.1 (10)	10/10	15.3 (10)	95	10/10	16.0 (10)	99	10/10	16.1 (10)	100	10/10	15.0 (10)	93	10/10	12.9 (10)	80	10/10

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0782
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>	0.1ppm Av. FC.	0.1ppm % of cont. <10>	0.1ppm No. of Surviv.	0.3ppm Av. FC.	0.3ppm % of cont. <10>	0.3ppm No. of Surviv.	1ppm Av. FC.	1ppm % of cont. <10>	1ppm No. of Surviv.	2ppm Av. FC.	2ppm % of cont. <10>	2ppm No. of Surviv.	3ppm Av. FC.	3ppm % of cont. <10>	3ppm No. of Surviv.
1-7	10.3 (10)	10/10	10.4 (10)	101	10/10	10.2 (10)	99	10/10	10.2 (10)	99	10/10	9.1 (10)	88	10/10	7.6 (10)	74	10/10
2-7	11.3 (10)	10/10	11.0 (10)	97	10/10	10.8 (10)	96	10/10	11.1 (10)	98	10/10	10.2 (10)	90	10/10	9.1 (10)	81	10/10
3-7	10.9 (10)	10/10	10.9 (10)	100	10/10	10.5 (10)	96	10/10	11.1 (10)	102	10/10	10.3 (10)	94	10/10	9.0 (10)	83	10/10
4-7	11.3 (10)	10/10	10.8 (10)	96	10/10	10.6 (10)	94	10/10	11.2 (10)	99	10/10	10.3 (10)	91	10/10	10.0 (10)	88	10/10
5-7	11.0 (10)	10/10	10.6 (10)	96	10/10	10.4 (10)	95	10/10	10.9 (10)	99	10/10	9.8 (10)	89	10/10	9.2 (10)	84	10/10
6-7	10.8 (10)	10/10	10.8 (10)	100	10/10	10.6 (10)	98	10/10	10.7 (10)	99	10/10	10.5 (10)	97	10/10	9.7 (10)	90	10/10
7-7	10.7 (10)	10/10	10.5 (10)	98	10/10	10.3 (10)	96	10/10	11.0 (10)	103	10/10	10.2 (10)	95	10/10	9.9 (10)	93	10/10
8-7	10.4 (10)	10/10	10.2 (10)	98	10/10	10.5 (10)	101	10/10	10.7 (10)	103	10/10	10.5 (10)	101	10/10	9.9 (10)	95	10/10
9-7	10.7 (10)	10/10	10.4 (10)	97	10/10	10.4 (10)	97	10/10	10.4 (10)	97	10/10	10.2 (10)	95	10/10	9.8 (10)	92	10/10
10-7	10.7 (10)	10/10	10.6 (10)	99	10/10	10.9 (10)	102	10/10	10.6 (10)	99	10/10	10.5 (10)	98	10/10	10.1 (10)	94	10/10
11-7	11.4 (10)	10/10	11.1 (10)	97	10/10	11.0 (10)	96	10/10	11.3 (10)	99	10/10	11.2 (10)	98	10/10	10.5 (10)	92	10/10
12-7	10.7 (10)	10/10	11.1 (10)	104	10/10	11.2 (10)	105	10/10	11.2 (10)	105	10/10	11.0 (10)	103	10/10	10.1 (10)	94	10/10
13-7	10.7 (10)	10/10	10.7 (10)	100	10/10	10.7 (10)	100	10/10	10.9 (10)	102	10/10	10.8 (10)	101	10/10	10.0 (10)	93	10/10

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0782
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	13.8± 0.8	15.4± 0.8	15.8± 0.9	16.2± 1.3	16.5± 1.5	16.1± 1.5	16.1± 1.7
0.1ppm	14.1± 1.0	15.4± 1.2	15.6± 0.7	16.0± 0.8	16.3± 0.8	15.6± 1.0	15.3± 1.0
0.3ppm	13.7± 1.0	15.2± 1.1	15.9± 1.2	15.9± 0.9	16.0± 1.1	15.7± 0.8	15.6± 0.8
1ppm	13.6± 0.7	14.9± 0.9	15.7± 1.0	16.0± 0.8	16.0± 0.8	16.1± 0.9	15.7± 1.2
2ppm	10.5± 0.3**	13.6± 0.8**	14.0± 1.1**	15.4± 1.0	14.3± 0.6**	14.5± 1.0**	14.9± 0.7*
3ppm	8.3± 0.4**	10.5± 0.6**	9.5± 1.9**	11.1± 1.7**	11.8± 1.7**	11.9± 1.0**	12.8± 0.7**

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

STUDY NO. : 0782
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	15.7± 1.5	16.1± 1.3	16.2± 1.0	16.5± 0.9	16.1± 0.8	16.1± 1.1
0.1ppm	15.2± 0.8	15.5± 0.9	15.7± 0.4	15.5± 0.4*	15.4± 0.7	15.3± 0.6
0.3ppm	15.5± 1.0	15.9± 1.3	15.6± 1.2	16.2± 1.3	15.9± 1.2	16.0± 1.1
1ppm	15.7± 1.4	15.8± 1.2	16.0± 1.2	16.3± 0.7	15.9± 0.9	16.1± 0.8
2ppm	14.9± 0.8	14.4± 0.5**	15.1± 0.6*	15.5± 0.8	15.0± 0.9*	15.0± 0.7*
3ppm	13.1± 0.6**	12.7± 0.7**	13.3± 0.8**	13.5± 0.9**	12.9± 1.0**	12.9± 0.8**

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0782
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	10.3± 0.5	11.3± 0.6	10.9± 0.4	11.3± 0.6	11.0± 0.8	10.8± 0.7	10.7± 0.7
0.1ppm	10.4± 0.5	11.0± 0.6	10.9± 0.8	10.8± 0.6	10.6± 0.5	10.8± 0.7	10.5± 0.8
0.3ppm	10.2± 0.4	10.8± 0.5	10.5± 0.6	10.6± 0.6*	10.4± 0.4	10.6± 0.5	10.3± 0.6
1ppm	10.2± 0.4	11.1± 0.4	11.1± 0.6	11.2± 0.5	10.9± 0.7	10.7± 0.4	11.0± 0.6
2ppm	9.1± 0.5**	10.2± 0.6**	10.3± 0.6	10.3± 0.6**	9.8± 0.4**	10.5± 0.6	10.2± 0.8
3ppm	7.6± 0.5**	9.1± 0.6**	9.0± 0.7**	10.0± 0.4**	9.2± 0.5**	9.7± 0.5**	9.9± 0.6

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

STUDY NO. : 0782
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	10.4± 0.5	10.7± 0.8	10.7± 0.6	11.4± 0.9	10.7± 0.9	10.7± 0.6
0.1ppm	10.2± 0.3	10.4± 0.4	10.6± 0.5	11.1± 0.3	11.1± 0.8	10.7± 0.4
0.3ppm	10.5± 0.6	10.4± 0.6	10.9± 0.9	11.0± 0.8	11.2± 0.7	10.7± 0.7
1ppm	10.7± 0.3	10.4± 0.3	10.6± 0.5	11.3± 0.6	11.2± 0.7	10.9± 0.6
2ppm	10.5± 1.2	10.2± 0.7	10.5± 0.7	11.2± 1.1	11.0± 1.1	10.8± 0.9
3ppm	9.9± 0.5	9.8± 0.5**	10.1± 0.3	10.5± 0.4*	10.1± 0.6	10.0± 0.4*

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0782
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	9.57± 0.24	15.7± 0.3	46.2± 1.1	48.2± 0.3	16.4± 0.2	33.9± 0.3	752± 41
0.1ppm	10	9.61± 0.15	15.6± 0.2	46.3± 0.7	48.2± 0.3	16.3± 0.2	33.8± 0.2	777± 40
0.3ppm	10	9.52± 0.18	15.5± 0.3	45.8± 0.9	48.2± 0.3	16.3± 0.1	33.8± 0.3	771± 50
1ppm	10	9.57± 0.15	15.7± 0.2	46.1± 0.7	48.2± 0.3	16.4± 0.1	34.0± 0.2	753± 43
2ppm	10	9.58± 0.19	15.9± 0.3	46.7± 1.0	48.8± 0.4**	16.6± 0.2**	34.0± 0.3	778± 39
3ppm	10	9.83± 0.14*	16.9± 0.3**	49.2± 1.1**	50.0± 0.5**	17.1± 0.2**	34.2± 0.2*	706± 50

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

STUDY NO. : 0782
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	12.3± 0.9	23.1± 1.2
0.1ppm	10	1.9± 0.1	13.3± 1.2*	24.3± 1.2
0.3ppm	10	1.9± 0.2	12.8± 0.5	23.8± 0.8
1ppm	10	1.9± 0.2	12.8± 1.2	23.8± 1.5
2ppm	10	1.8± 0.2	12.2± 0.8	21.6± 1.6*
3ppm	10	1.6± 0.2	12.2± 0.4	21.9± 1.3

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

STUDY NO. : 0782
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 (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	10	5.74± 1.08	25± 5	72± 5	2± 0	1± 0	0± 0	1± 0
0.1ppm	10	5.21± 1.46	25± 6	72± 6	2± 0	1± 0	0± 0	1± 1
0.3ppm	10	5.22± 1.03	24± 5	72± 5	2± 1	1± 0	0± 0	1± 0
1ppm	10	5.23± 1.15	23± 5	73± 5	2± 1	1± 0	0± 0	1± 0
2ppm	10	5.30± 1.37	26± 3	70± 3	2± 0	1± 1	0± 0	1± 0
3ppm	10	4.43± 0.85	35± 5**	62± 5**	1± 1	2± 1	0± 0	0± 1

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0782
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	8.83± 0.24	15.8± 0.4	45.3± 1.2	51.3± 0.3	17.9± 0.2	34.9± 0.2	798± 32
0.1ppm	10	8.87± 0.30	15.8± 0.4	45.5± 1.4	51.4± 0.4	17.8± 0.2	34.8± 0.3	780± 52
0.3ppm	10	8.83± 0.24	15.8± 0.4	45.4± 1.1	51.4± 0.3	17.8± 0.2	34.7± 0.3	808± 38
1ppm	10	8.82± 0.19	15.7± 0.3	45.1± 1.0	51.1± 0.4	17.8± 0.2	34.8± 0.3	781± 51
2ppm	10	9.00± 0.23	16.0± 0.4	45.9± 1.1	50.9± 0.2	17.8± 0.1	34.9± 0.3	790± 59
3ppm	10	9.18± 0.25*	16.3± 0.4*	46.5± 1.3	50.7± 0.4**	17.8± 0.1	35.1± 0.4	725± 58**

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

Group Name	NO. of Animals	RETICULOCYTE %	PROTHROMBIN TIME sec	APTT sec
Control	10	1.8± 0.2	11.4± 0.3	17.9± 0.8
0.1ppm	10	1.7± 0.2	11.3± 0.3	17.8± 0.6
0.3ppm	10	1.8± 0.2	11.6± 0.3	17.6± 0.8
1ppm	10	1.7± 0.2	11.5± 0.4	17.5± 1.2
2ppm	10	1.7± 0.2	11.7± 0.3	17.7± 0.9
3ppm	10	1.6± 0.2	11.7± 0.2	17.9± 0.7

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

STUDY NO. : 0782
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 (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	10	3.52± 0.72	24± 6	72± 7	2± 0	1± 0	0± 0	1± 0
0.1ppm	10	3.40± 0.83	22± 3	75± 3	2± 1	1± 0	0± 0	1± 0
0.3ppm	10	3.40± 1.04	22± 6	74± 6	2± 0	1± 1	0± 0	0± 1
1ppm	10	3.48± 0.99	23± 5	72± 5	2± 0	2± 1	0± 0	1± 0
2ppm	10	3.94± 1.07	22± 4	74± 4	2± 0	2± 1	0± 0	1± 1
3ppm	10	3.84± 0.93	25± 4	72± 4	2± 1	2± 1	0± 0	1± 0

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0782
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± 0.2	3.4± 0.1	1.1± 0.1	0.09± 0.01	192± 9	65± 5	53± 25
0.1ppm	10	6.4± 0.2	3.4± 0.1	1.1± 0.0	0.09± 0.01	187± 15	58± 4*	38± 10
0.3ppm	10	6.4± 0.2	3.4± 0.1	1.1± 0.0	0.09± 0.01	189± 5	60± 5	43± 13
1ppm	10	6.4± 0.2	3.4± 0.1	1.1± 0.1	0.08± 0.01	186± 17	61± 6	36± 6
2ppm	10	6.3± 0.3	3.4± 0.1	1.1± 0.1	0.08± 0.01	187± 8	55± 5**	34± 13*
3ppm	10	6.1± 0.2**	3.3± 0.1	1.2± 0.1*	0.09± 0.01	168± 14**	52± 4**	15± 4**

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

STUDY NO. : 0782
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 U/L	ALT U/L	LDH U/L	ALP U/L	G-GTP U/L	CK U/L
Control	10	121± 10	89± 13	48± 7	104± 21	385± 33	1± 0	98± 16
0.1ppm	10	111± 5*	94± 15	50± 7	108± 27	394± 38	1± 0	103± 16
0.3ppm	10	112± 9*	85± 22	46± 7	110± 43	400± 37	1± 0	103± 19
1ppm	10	110± 8*	92± 29	48± 11	110± 47	395± 24	1± 0	111± 17
2ppm	10	106± 7**	72± 9*	39± 5**	88± 32	400± 38	1± 0	109± 22
3ppm	10	100± 7**	79± 8	41± 3	97± 38	463± 40**	1± 0	120± 22

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

STUDY NO. : 0782
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	19.8± 1.1	0.7± 0.1	143± 2	3.4± 0.2	106± 1	10.2± 0.3	5.8± 0.7
0.1ppm	10	18.4± 1.0	0.6± 0.1	143± 1	3.4± 0.3	106± 1	10.1± 0.2	5.5± 1.0
0.3ppm	10	18.4± 0.9	0.6± 0.0	143± 1	3.5± 0.2	106± 1	10.1± 0.1	5.8± 1.0
1ppm	10	18.9± 1.4	0.6± 0.0	143± 1	3.4± 0.3	106± 1	10.1± 0.2	5.7± 0.9
2ppm	10	18.9± 1.3	0.7± 0.1	142± 1	3.5± 0.3	106± 1	10.0± 0.3	5.9± 1.0
3ppm	10	19.2± 1.8	0.6± 0.1	142± 1	3.7± 0.2	107± 1	9.7± 0.3**	5.6± 0.9

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0782
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	6.3± 0.2	3.3± 0.1	1.1± 0.0	0.09± 0.01	152± 16	77± 5	11± 2
0.1ppm	10	6.4± 0.2	3.4± 0.1	1.1± 0.0	0.09± 0.01	142± 14	72± 7	9± 2
0.3ppm	10	6.3± 0.2	3.3± 0.1	1.1± 0.1	0.09± 0.01	145± 9	74± 8	9± 3
1ppm	10	6.3± 0.1	3.3± 0.1	1.1± 0.0	0.10± 0.01	149± 17	67± 3**	9± 2
2ppm	10	6.0± 0.1*	3.3± 0.0	1.2± 0.1	0.09± 0.01	147± 18	67± 10**	10± 2
3ppm	10	5.9± 0.1**	3.2± 0.1**	1.1± 0.0	0.10± 0.01	136± 13	66± 8**	10± 2

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

STUDY NO. : 0782
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 U/L	ALT U/L	LDH U/L	ALP U/L	G-GTP U/L	CK U/L
Control	10	146± 9	76± 10	40± 9	86± 33	303± 26	1± 0	93± 19
0.1ppm	10	136± 13	76± 10	35± 7	84± 24	308± 21	1± 0	87± 11
0.3ppm	10	138± 10	70± 5	33± 4	97± 44	309± 29	1± 0	99± 26
1ppm	10	128± 4**	78± 7	43± 8	100± 36	336± 42	1± 1	101± 17
2ppm	10	130± 14*	67± 5*	32± 3*	87± 30	328± 29	1± 0	109± 17
3ppm	10	129± 11**	74± 4	36± 4	96± 28	382± 37**	1± 0	106± 16

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

STUDY NO. : 0782
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	19.5± 2.1	0.7± 0.1	142± 1	3.3± 0.2	107± 2	9.8± 0.2	4.6± 1.3
0.1ppm	10	17.9± 1.9	0.7± 0.1	143± 1	3.3± 0.3	107± 2	9.9± 0.2	4.8± 1.2
0.3ppm	10	19.5± 2.3	0.7± 0.1	142± 1	3.4± 0.3	108± 2	9.8± 0.2	4.8± 1.4
1ppm	10	19.8± 1.7	0.7± 0.0	142± 1	3.3± 0.2	107± 1	9.8± 0.2	5.1± 1.0
2ppm	10	20.0± 2.4	0.6± 0.0	142± 1	3.5± 0.2	108± 2	9.7± 0.2	5.4± 0.9
3ppm	10	19.4± 1.2	0.6± 0.0	141± 1*	3.7± 0.2**	107± 1	9.6± 0.2	5.2± 1.0

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

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0782 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	0	0	1	9		0	3	6	1	0	0		10	0	0	0	0	0		1	5	3	1	0	0		10	0	0	0	
0.1ppm	10	0	0	0	0	0	4	6		1	4	5	0	0	0		10	0	0	0	0	0		6	3	1	0	0	0		10	0	0	0	
0.3ppm	10	0	0	0	0	0	3	7		0	4	3	3	0	0		10	0	0	0	0	0		6	1	0	3	0	0	*	10	0	0	0	
1ppm	10	0	0	0	0	1	2	7		0	5	4	1	0	0		10	0	0	0	0	0		4	5	1	0	0	0		10	0	0	0	
2ppm	10	0	0	0	0	0	4	6		1	8	1	0	0	0	*	10	0	0	0	0	0		6	4	0	0	0	0		10	0	0	0	
3ppm	10	0	0	0	0	0	3	7		1	5	4	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

STUDY NO. : 0782 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	
0.1ppm	10	10	0	0	0	0		10	0	0	0	0	
0.3ppm	10	10	0	0	0	0		10	0	0	0	0	
1ppm	10	10	0	0	0	0		10	0	0	0	0	
2ppm	10	10	0	0	0	0		10	0	0	0	0	
3ppm	10	10	0	0	0	0		10	0	0	0	0	

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

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0782
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH 5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	Protein −	±	+	2+	3+	4+	CHI	Glucose −	±	+	2+	3+	4+	CHI	Ketone body −	±	+	2+	3+	4+	CHI	Bilirubin −	+	2+	3+	CHI
Control	10	0	0	0	0	0	1	9		7	3	0	0	0	0		10	0	0	0	0	0		8	2	0	0	0	0		10	0	0	0	
0.1ppm	10	0	0	0	1	0	1	8		8	2	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
0.3ppm	10	0	0	0	1	1	4	4		8	2	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
1ppm	10	0	0	0	0	1	3	6		7	2	1	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
2ppm	10	0	0	0	0	0	0	10		9	1	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
3ppm	10	0	0	0	0	1	2	7		10	0	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

STUDY NO. : 0782 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	
0.1ppm	10	10 0 0 0 0		10 0 0 0 0	
0.3ppm	10	10 0 0 0 0		10 0 0 0 0	
1ppm	10	10 0 0 0 0		10 0 0 0 0	
2ppm	10	10 0 0 0 0		10 0 0 0 0	
3ppm	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. : 0782
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	(%)	0.1ppm 10	(%)	0.3ppm 10	(%)	1ppm 10	(%)
liver	herniation		0	(0)	0	(0)	1	(10)	1	(10)

Organ	Findings	Group Name	2ppm		3ppm	
		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	(%)	0.1ppm 10	(%)	0.3ppm 10	(%)	1ppm 10	(%)
liver	herniation		0	(0)	1	(10)	0	(0)	0	(0)
ovary	cyst		0	(0)	0	(0)	1	(10)	0	(0)

Organ	Findings	Group Name / NO. of Animals	2ppm 10	(%)	3ppm 10	(%)
liver	herniation		0	(0)	0	(0)
ovary	cyst		0	(0)	0	(0)

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0782
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	293± 16	0.251± 0.028	0.050± 0.003	3.077± 0.089	0.889± 0.050	0.958± 0.066
0.1ppm	10	284± 11	0.237± 0.029	0.052± 0.003	3.007± 0.141	0.904± 0.038	0.933± 0.031
0.3ppm	10	288± 16	0.238± 0.036	0.053± 0.004	3.044± 0.072	0.899± 0.046	0.943± 0.052
1ppm	10	284± 17	0.231± 0.035	0.052± 0.003	3.059± 0.101	0.908± 0.054	0.942± 0.064
2ppm	10	254± 10**	0.193± 0.022**	0.050± 0.003	3.052± 0.066	0.853± 0.029	0.914± 0.031
3ppm	10	196± 8**	0.140± 0.012**	0.051± 0.004	2.845± 0.059**	0.744± 0.030**	0.986± 0.087

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

STUDY NO. : 0782
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	1.778± 0.108	0.540± 0.030	7.335± 0.486	1.903± 0.042
0.1ppm	10	1.727± 0.071	0.533± 0.032	6.912± 0.340	1.896± 0.027
0.3ppm	10	1.752± 0.072	0.531± 0.034	7.071± 0.478	1.905± 0.034
1ppm	10	1.756± 0.071	0.528± 0.035	6.928± 0.461	1.913± 0.034
2ppm	10	1.621± 0.048**	0.470± 0.033**	6.311± 0.334**	1.874± 0.046
3ppm	10	1.379± 0.074**	0.375± 0.026**	4.758± 0.259**	1.774± 0.077**

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

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0782
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	165± 9	0.187± 0.020	0.057± 0.006	0.096± 0.011	0.604± 0.034	0.695± 0.035
0.1ppm	10	165± 5	0.197± 0.018	0.058± 0.004	0.112± 0.016	0.610± 0.039	0.697± 0.033
0.3ppm	10	168± 9	0.188± 0.023	0.058± 0.004	0.099± 0.011	0.608± 0.036	0.699± 0.033
1ppm	10	164± 8	0.190± 0.026	0.057± 0.003	0.108± 0.013	0.603± 0.028	0.711± 0.024
2ppm	10	151± 9**	0.154± 0.018**	0.056± 0.005	0.095± 0.014	0.588± 0.037	0.680± 0.044
3ppm	10	140± 5**	0.145± 0.016**	0.058± 0.004	0.100± 0.019	0.575± 0.042	0.708± 0.036

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

STUDY NO. : 0782
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	1.085± 0.043	0.361± 0.016	3.908± 0.177	1.760± 0.029
0.1ppm	10	1.076± 0.031	0.366± 0.035	3.929± 0.174	1.746± 0.090
0.3ppm	10	1.086± 0.057	0.375± 0.016	3.938± 0.175	1.764± 0.033
1ppm	10	1.085± 0.036	0.365± 0.019	3.900± 0.214	1.779± 0.039
2ppm	10	1.076± 0.048	0.343± 0.029	3.795± 0.219	1.743± 0.086
3ppm	10	1.020± 0.045**	0.322± 0.019**	3.460± 0.106**	1.719± 0.041

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

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0782
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	293± 16	0.086± 0.008	0.017± 0.002	1.052± 0.041	0.304± 0.012	0.327± 0.013
0.1ppm	10	284± 11	0.083± 0.009	0.018± 0.001	1.060± 0.069	0.318± 0.011	0.329± 0.009
0.3ppm	10	288± 16	0.083± 0.010	0.018± 0.002	1.062± 0.070	0.313± 0.011	0.328± 0.012
1ppm	10	284± 17	0.081± 0.011	0.018± 0.002	1.079± 0.059	0.320± 0.019*	0.331± 0.009
2ppm	10	254± 10**	0.076± 0.007	0.020± 0.002**	1.206± 0.056**	0.337± 0.010**	0.361± 0.015**
3ppm	10	196± 8**	0.071± 0.005**	0.026± 0.002**	1.454± 0.050**	0.380± 0.012**	0.504± 0.046**

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

STUDY NO. : 0782
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	0.607± 0.016	0.184± 0.006	2.502± 0.041	0.651± 0.032
0.1ppm	10	0.608± 0.017	0.188± 0.012	2.432± 0.061	0.668± 0.022
0.3ppm	10	0.610± 0.025	0.185± 0.007	2.459± 0.073	0.664± 0.033
1ppm	10	0.619± 0.029	0.186± 0.009	2.437± 0.067	0.675± 0.032
2ppm	10	0.640± 0.016**	0.186± 0.010	2.489± 0.072	0.740± 0.034**
3ppm	10	0.703± 0.016**	0.192± 0.009	2.428± 0.045*	0.907± 0.050**

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

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0782
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	165± 9	0.113± 0.012	0.035± 0.003	0.058± 0.008	0.367± 0.027	0.422± 0.017
0.1ppm	10	165± 5	0.119± 0.009	0.035± 0.002	0.068± 0.009	0.370± 0.016	0.423± 0.017
0.3ppm	10	168± 9	0.112± 0.012	0.035± 0.002	0.059± 0.007	0.364± 0.024	0.418± 0.023
1ppm	10	164± 8	0.116± 0.013	0.035± 0.001	0.066± 0.008	0.369± 0.012	0.436± 0.028
2ppm	10	151± 9**	0.103± 0.015	0.037± 0.003	0.063± 0.010	0.390± 0.016	0.451± 0.026*
3ppm	10	140± 5**	0.103± 0.010	0.041± 0.002**	0.071± 0.012*	0.409± 0.022**	0.505± 0.022**

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

STUDY NO. : 0782
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	0.659± 0.023	0.219± 0.005	2.372± 0.050	1.070± 0.055
0.1ppm	10	0.653± 0.013	0.222± 0.017	2.386± 0.086	1.062± 0.069
0.3ppm	10	0.649± 0.026	0.224± 0.009	2.353± 0.070	1.056± 0.061
1ppm	10	0.664± 0.030	0.223± 0.013	2.385± 0.107	1.089± 0.047
2ppm	10	0.715± 0.030**	0.227± 0.009	2.518± 0.093**	1.158± 0.058**
3ppm	10	0.727± 0.023**	0.229± 0.009	2.465± 0.059*	1.224± 0.026**

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

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	atrophy:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:nasal gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional 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)	10 (100)	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)
	inflammtory infiltration:respiratory epithelium		1 (10)	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)

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	2ppm				3ppm			
		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		2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium		2 (20)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0) **
	atrophy:turbinate		10 (100)	0 (0)	0 (0)	0 (0) **	0 (0)	10 (100)	0 (0)	0 (0) **
	atrophy:olfactory gland		0 (0)	10 (100)	0 (0)	0 (0) **	0 (0)	0 (0)	10 (100)	0 (0) **
	hyperplasia:nasal gland		8 (80)	1 (10)	0 (0)	0 (0) **	9 (90)	0 (0)	0 (0)	0 (0) **
	hyperplasia:transitional epithelium		0 (0)	10 (100)	0 (0)	0 (0) **	0 (0)	2 (20)	0 (0)	0 (0)
	atrophy:olfactory nerve		0 (0)	10 (100)	0 (0)	0 (0) **	0 (0)	0 (0)	10 (100)	0 (0) **
	inflammtory infiltration:respiratory epithelium		7 (70)	0 (0)	0 (0)	0 (0) *	4 (40)	6 (60)	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 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	inflammatory infiltration: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)
	regeneration:transitional 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)	10 (100)	0 (0) **
	squamous cell metaplasia:transitional 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)
	regeneration: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)	10 (100)	0 (0)	0 (0) **
	regeneration: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 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)
	hyperplasia: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)
	exudate:respiratory region		0 (0)	0 (0)	0 (0)	0 (0)	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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]										
nasal cavit			<10>				<10>			
	inflammatory infiltration:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	9 (90)	1 (10)	0 (0)	0 ** (0)
	regeneration:transitional epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	squamous cell metaplasia:transitional epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	0 (0)	2 (20)	8 (80)	0 ** (0)
	regeneration:respiratory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	regeneration:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	hyperplasia:respiratory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	exudate:respiratory region		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
[Respiratory system]																		
nasal cavit			<10>				<10>				<10>				<10>			
	exudate:olfactory region		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	exudate:neutrophil leukocyte,respiratory region		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	exudate:neutrophil leukocyte,olfactory region		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	ossification:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	adhesion:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	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,edematous: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)
nasopharynx			<10>				<10>				<10>				<10>			
	hyperplasia: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)
	goblet cell 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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]										
nasal cavit			<10>				<10>			
	exudate:olfactory region		3 (30)	0 (0)	0 (0)	0 (0)	2 (20)	3 (30)	3 (30)	0 ** (0)
	exudate:neutrophil leukocyte,respiratory region		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)
	exudate:neutrophil leukocyte,olfactory region		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)
	ossification:turbinate		3 (30)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	adhesion:turbinate		3 (30)	0 (0)	0 (0)	0 (0)	2 (20)	2 (20)	0 (0)	0 (0)
	granulation,edematous:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	4 (40)	6 (60)	0 (0)	0 ** (0)
nasopharynx			<10>				<10>			
	hyperplasia:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	goblet cell hyperplasia		1 (10)	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				0.1ppm				0.3ppm				1ppm			
			10				10				10				10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
nasopharynx			<10>				<10>				<10>				<10>			
	regenaration: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)
larynx			<10>				<10>				<10>				<10>			
	inflammatory 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)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regenaration: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)
	dilated glands		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
trachea			<10>				<10>				<10>				<10>			
	inflammatory 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)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]										
nasopharynx			<10>				<10>			
	regenaration:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0) **
larynx			<10>				<10>			
	inflammatory infiltration		1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0) **
	regenaration:epithelium		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)
	dilated glands		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
trachea			<10>				<10>			
	inflammatory infiltration		1 (10)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0) *
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	2 (20)	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 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Respiratory system}																		
trachea		<10>																
	goblet cell 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)
	regenaration: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)
	dilated glands		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)
	necrosis: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>																
	inflammatory 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)
	goblet cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:epithelium,bronchus		0 (0)	0 (0)	0 (0)	0 (0)	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		2ppm					3ppm			
		No. of Animals on Study		10					10			
		Grade		1+	2+	3+	4+		1+	2+	3+	4+
				(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)
{Respiratory system}												
trachea				<10>					<10>			
	goblet cell hyperplasia			0	0	0	0		1	0	0	0
				(0)	(0)	(0)	(0)		(10)	(0)	(0)	(0)
	regenaration:epithelium			1	0	0	0		0	10	0	0 **
				(10)	(0)	(0)	(0)		(0)	(100)	(0)	(0)
	dilated glands			0	0	0	0		0	0	0	0
				(0)	(0)	(0)	(0)		(0)	(0)	(0)	(0)
	necrosis:epithelium			0	0	0	0		4	0	0	0
				(0)	(0)	(0)	(0)		(40)	(0)	(0)	(0)
lung				<10>					<10>			
	inflammatory infiltration			0	0	0	0		2	0	0	0
				(0)	(0)	(0)	(0)		(20)	(0)	(0)	(0)
	goblet cell metaplasia			0	0	0	0		3	0	0	0
				(0)	(0)	(0)	(0)		(30)	(0)	(0)	(0)
	accumulation of foamy cells			0	0	0	0		3	0	0	0
				(0)	(0)	(0)	(0)		(30)	(0)	(0)	(0)
	hyperplasia:epithelium,bronchus			0	0	0	0		1	0	0	0
				(0)	(0)	(0)	(0)		(10)	(0)	(0)	(0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Respiratory system}																		
lung		<10>																
	regeneration:epithelium,bronchus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:BALT		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia,bronchiolar type		0 (0)	0 (0)	0 (0)	0 (0)	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>																
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
{Digestive system}																		
liver		<10>																
	herniation		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)

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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
lung			<10>				<10>			
	regeneration:epithelium,bronchus		0 (0)	0 (0)	0 (0)	0 (0)	6 (60)	4 (40)	0 (0)	0 ** (0)
	hyperplasia:BALT		0 (0)	0 (0)	0 (0)	0 (0)	7 (70)	0 (0)	0 (0)	0 ** (0)
	bronchiolar-alveolar cell hyperplasia,bronchiolar type		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (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		1 (10)	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 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	8 (80)	2 (20)	0 (0)	0 (0)	9 (90)	1 (10)	0 (0)	0 (0)	9 (90)	1 (10)	0 (0)	0 (0)
	regeneration:proximal tubule		2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{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)	1 (10)	0 (0)	0 (0)

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

Organ	Findings	Group Name	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Digestive system}										
liver			<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Urinary system}										
kidney			<10>				<10>			
	eosinophilic body		9 (90)	1 (10)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)
	regeneration:proximal tubule		0 (0)	1 (10)	0 (0)	0 (0)	1 (10)	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				0.1ppm				0.3ppm				1ppm			
		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>			
	ultimobranchial body remanet		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Endocrine system}										
thyroid			<10>				<10>			
	ultimobranchial body remanet		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)

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

TABLE L2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	atrophy:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:nasal gland		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional 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)	10 (100)	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)
	inflammtory infiltration:respiratory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	2 (20)	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	2ppm				3ppm			
		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		4 (40)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium		6 (60)	0 (0)	0 (0)	0 * (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	atrophy:turbinate		10 (100)	0 (0)	0 (0)	0 ** (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
	atrophy:olfactory gland		2 (20)	8 (80)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	hyperplasia:nasal gland		6 (60)	0 (0)	0 (0)	0 * (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	hyperplasia:transitional epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	2 (20)	0 (0)	0 (0)
	atrophy:olfactory nerve		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	inflammtory infiltration:respiratory epithelium		7 (70)	2 (20)	0 (0)	0 ** (0)	6 (60)	3 (30)	0 (0)	0 ** (0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	0.1ppm 1+ (%)	0.1ppm 2+ (%)	0.1ppm 3+ (%)	0.1ppm 4+ (%)	0.3ppm 1+ (%)	0.3ppm 2+ (%)	0.3ppm 3+ (%)	0.3ppm 4+ (%)	1ppm 1+ (%)	1ppm 2+ (%)	1ppm 3+ (%)	1ppm 4+ (%)
			10				10				10				10			
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	inflammatory infiltration: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)
	regeneration:transitional 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)	10 (100)	0 (0) **
	squamous cell metaplasia:transitional 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)
	regeneration: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)	10 (100)	0 (0)	0 (0) **
	regeneration: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 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)
	hyperplasia: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)
	exudate:olfactory region		0 (0)	0 (0)	0 (0)	0 (0)	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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	inflammatory infiltration:olfactory epithelium		9 (90)	0 (0)	0 (0)	0 ** (0)	8 (80)	1 (10)	0 (0)	0 ** (0)
	regeneration:transitional epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	squamous cell metaplasia:transitional epithelium		4 (40)	6 (60)	0 (0)	0 ** (0)	0 (0)	2 (20)	8 (80)	0 ** (0)
	regeneration:respiratory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	regeneration:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	hyperplasia:respiratory epithelium		2 (20)	8 (80)	0 (0)	0 ** (0)	0 (0)	0 (0)	10 (100)	0 ** (0)
	exudate:olfactory region		1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	7 (70)	1 (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 / No. of Animals on Study / Grade	Control 10 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	ossification:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	adhesion:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	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,edematous: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)
nasopharynx			<10>				<10>				<10>				<10>			
	hyperplasia: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)
	goblet cell 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)
	regenaration: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)
larynx			<10>				<10>				<10>				<10>			
	inflammatory 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)	2 (20)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	ossification:turbinate		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	adhesion:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
	granulation,edematous:olfactory epithelium		5 (50)	0 (0)	0 (0)	0 * (0)	8 (80)	2 (20)	0 (0)	0 ** (0)
nasopharynx			<10>				<10>			
	hyperplasia:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
	goblet cell hyperplasia		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
larynx			<10>				<10>			
	inflammatory infiltration		5 (50)	0 (0)	0 (0)	0 * (0)	5 (50)	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 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Respiratory system}																		
larynx			<10>				<10>				<10>				<10>			
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory polyp		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regenaration: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)
	dilated glands		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
trachea			<10>				<10>				<10>				<10>			
	inflammatory 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)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regenaration: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:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
larynx			<10>				<10>			
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 ** (0)
	inflammatory polyp		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)
	dilated glands		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
trachea			<10>				<10>			
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	regenaration:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
	necrosis:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)

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

Organ	Findings	Group Name	Control				0.1ppm				0.3ppm				1ppm			
		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>			
	regeneration:epithelium,bronchus		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:BALT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<10>				<10>				<10>				<10>			
	granulation		1	2	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(10)	(20)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Circulatory system}																		
heart			<10>				<10>				<10>				<10>			
	inflammatory cell nest		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	herniation		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
lung			<10>				<10>			
	regeneration:epithelium,bronchus		0 (0)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 ** (0)
	hyperplasia:BALT		0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	granulation		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Circulatory system}										
heart			<10>				<10>			
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Digestive system}										
liver			<10>				<10>			
	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 1+ (%)	Control 10 2+ (%)	Control 10 3+ (%)	Control 10 4+ (%)	0.1ppm 10 1+ (%)	0.1ppm 10 2+ (%)	0.1ppm 10 3+ (%)	0.1ppm 10 4+ (%)	0.3ppm 10 1+ (%)	0.3ppm 10 2+ (%)	0.3ppm 10 3+ (%)	0.3ppm 10 4+ (%)	1ppm 10 1+ (%)	1ppm 10 2+ (%)	1ppm 10 3+ (%)	1ppm 10 4+ (%)
{Digestive system}																		
liver		<10>	2	0	0	0	2	0	0	0	1	0	0	0	4	0	0	0
	inflammatory cell nest		(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
pancreas		<10>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	atrophy		(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney		<10>	3	0	0	0	3	0	0	0	5	0	0	0	2	0	0	0
	mineralization:cortico-medullary junction		(30)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	mineralization:papilla		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)	(0)	(0)	(0)	(0)
{Endocrine system}																		
thyroid		<10>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	ultimobranchial body remanet		(0)	(0)	(0)	(0)	(0)	(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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Digestive system}										
liver			<10>				<10>			
	inflammatory cell nest		1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
pancreas			<10>				<10>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Urinary system}										
kidney			<10>				<10>			
	mineralization:cortico-medullary junction		5 (50)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	mineralization:papilla		2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
{Endocrine system}										
thyroid			<10>				<10>			
	ultimobranchial body remanet		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				0.1ppm				0.3ppm				1ppm			
		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}																		
ovary			<10>				<10>				<10>				<10>			
	cyst		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)

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	2ppm				3ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}										
ovary			<10>				<10>			
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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