アクリル酸メチル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：0803

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF METHYL ACRYLATE IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

CONCENTRATIONS OF METHYL ACRYLATE IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.00 ± 0.00
12.5 ppm	12.51 ± 0.12
25 ppm	24.99 ± 0.28
50 ppm	50.04 ± 0.53
100 ppm	100.01 ± 0.70
200 ppm	199.86 ± 1.74

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0803
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
12.5ppm	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
25ppm	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
50ppm	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
100ppm	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
200ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	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. : 0803
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
12.5ppm	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
25ppm	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
50ppm	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
100ppm	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
200ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	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. : 0803
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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	2	1	1	1	1	1	1	1	1	1	1	1
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	12.5ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	25ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	50ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	100ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	200ppm	8	8	9	9	9	9	9	9	9	9	9	9	9

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0803
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
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200ppm	2	1	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
	12.5ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	25ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	50ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	100ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	200ppm	8	9	10	10	10	10	10	10	10	10	10	10	10

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control Av. Wt.	Control No. of Surviv. <10>	12.5ppm Av. Wt.	12.5ppm % of cont. <10>	12.5ppm No. of Surviv.	25ppm Av. Wt.	25ppm % of cont. <10>	25ppm No. of Surviv.	50ppm Av. Wt.	50ppm % of cont. <10>	50ppm No. of Surviv.	100ppm Av. Wt.	100ppm % of cont. <10>	100ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. <10>	200ppm No. of Surviv.
0	119 (10)	10/10	119 (10)	100	10/10	119 (10)	100	10/10	119 (10)	100	10/10	119 (10)	100	10/10	119 (10)	100	10/10
1	152 (10)	10/10	153 (10)	101	10/10	153 (10)	101	10/10	151 (10)	99	10/10	147 (10)	97	10/10	136 (10)	89	10/10
2	186 (10)	10/10	186 (10)	100	10/10	186 (10)	100	10/10	185 (10)	99	10/10	179 (10)	96	10/10	161 (10)	87	10/10
3	211 (10)	10/10	214 (10)	101	10/10	213 (10)	101	10/10	210 (10)	100	10/10	205 (10)	97	10/10	179 (10)	85	10/10
4	226 (10)	10/10	226 (10)	100	10/10	228 (10)	101	10/10	226 (10)	100	10/10	220 (10)	97	10/10	189 (10)	84	10/10
5	246 (10)	10/10	247 (10)	100	10/10	250 (10)	102	10/10	248 (10)	101	10/10	239 (10)	97	10/10	208 (10)	85	10/10
6	259 (10)	10/10	259 (10)	100	10/10	263 (10)	102	10/10	261 (10)	101	10/10	253 (10)	98	10/10	219 (10)	85	10/10
7	270 (10)	10/10	271 (10)	100	10/10	277 (10)	103	10/10	274 (10)	101	10/10	265 (10)	98	10/10	227 (10)	84	10/10
8	282 (10)	10/10	281 (10)	100	10/10	290 (10)	103	10/10	284 (10)	101	10/10	273 (10)	97	10/10	238 (10)	84	10/10
9	292 (10)	10/10	290 (10)	99	10/10	300 (10)	103	10/10	293 (10)	100	10/10	282 (10)	97	10/10	246 (10)	84	10/10
10	295 (10)	10/10	293 (10)	99	10/10	303 (10)	103	10/10	298 (10)	101	10/10	287 (10)	97	10/10	251 (10)	85	10/10
11	302 (10)	10/10	301 (10)	100	10/10	309 (10)	102	10/10	304 (10)	101	10/10	292 (10)	97	10/10	259 (10)	86	10/10
12	309 (10)	10/10	306 (10)	99	10/10	318 (10)	103	10/10	312 (10)	101	10/10	297 (10)	96	10/10	260 (10)	84	10/10
13	315 (10)	10/10	310 (10)	98	10/10	321 (10)	102	10/10	318 (10)	101	10/10	304 (10)	97	10/10	267 (10)	85	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. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control Av. Wt.	Control No. of Surviv. <10>	12.5ppm Av. Wt.	12.5ppm % of cont. <10>	12.5ppm No. of Surviv.	25ppm Av. Wt.	25ppm % of cont. <10>	25ppm No. of Surviv.	50ppm Av. Wt.	50ppm % of cont. <10>	50ppm No. of Surviv.	100ppm Av. Wt.	100ppm % of cont. <10>	100ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. <10>	200ppm No. of Surviv.
0	94 (10)	10/10	94 (10)	100	10/10	94 (10)	100	10/10	94 (10)	100	10/10	94 (10)	100	10/10	94 (10)	100	10/10
1	110 (10)	10/10	112 (10)	102	10/10	111 (10)	101	10/10	109 (10)	99	10/10	108 (10)	98	10/10	102 (10)	93	10/10
2	125 (10)	10/10	126 (10)	101	10/10	125 (10)	100	10/10	123 (10)	98	10/10	121 (10)	97	10/10	113 (10)	90	10/10
3	136 (10)	10/10	135 (10)	99	10/10	135 (10)	99	10/10	132 (10)	97	10/10	131 (10)	96	10/10	121 (10)	89	10/10
4	139 (10)	10/10	136 (10)	98	10/10	139 (10)	100	10/10	137 (10)	99	10/10	134 (10)	96	10/10	124 (10)	89	10/10
5	151 (10)	10/10	147 (10)	97	10/10	149 (10)	99	10/10	148 (10)	98	10/10	145 (10)	96	10/10	133 (10)	88	10/10
6	157 (10)	10/10	150 (10)	96	10/10	154 (10)	98	10/10	151 (10)	96	10/10	149 (10)	95	10/10	138 (10)	88	10/10
7	160 (10)	10/10	157 (10)	98	10/10	159 (10)	99	10/10	157 (10)	98	10/10	153 (10)	96	10/10	142 (10)	89	10/10
8	164 (10)	10/10	159 (10)	97	10/10	163 (10)	99	10/10	160 (10)	98	10/10	157 (10)	96	10/10	147 (10)	90	10/10
9	167 (10)	10/10	162 (10)	97	10/10	166 (10)	99	10/10	164 (10)	98	10/10	163 (10)	98	10/10	149 (10)	89	10/10
10	169 (10)	10/10	164 (10)	97	10/10	169 (10)	100	10/10	166 (10)	98	10/10	164 (10)	97	10/10	153 (10)	91	10/10
11	173 (10)	10/10	166 (10)	96	10/10	173 (10)	100	10/10	168 (10)	97	10/10	168 (10)	97	10/10	156 (10)	90	10/10
12	175 (10)	10/10	169 (10)	97	10/10	177 (10)	101	10/10	172 (10)	98	10/10	170 (10)	97	10/10	159 (10)	91	10/10
13	177 (10)	10/10	171 (10)	97	10/10	179 (10)	101	10/10	172 (10)	97	10/10	175 (10)	99	10/10	162 (10)	92	10/10

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 0	1	2	3	4	5	6
Control	119± 4	152± 5	186± 5	211± 7	226± 7	246± 8	259± 9
12.5ppm	119± 4	153± 5	186± 5	214± 5	226± 6	247± 6	259± 7
25ppm	119± 4	153± 5	186± 4	213± 5	228± 6	250± 5	263± 7
50ppm	119± 4	151± 5	185± 7	210± 7	226± 9	248± 9	261± 12
100ppm	119± 4	147± 6	179± 5*	205± 7	220± 7	239± 7	253± 8
200ppm	119± 4	136± 6**	161± 6**	179± 8**	189± 7**	208± 8**	219± 7**

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 7	8	9	10	11	12	13
Control	270± 8	282± 9	292± 8	295± 8	302± 7	309± 7	315± 10
12.5ppm	271± 8	281± 9	290± 10	293± 10	301± 13	306± 12	310± 12
25ppm	277± 6	290± 8	300± 11	303± 10	309± 10	318± 12	321± 12
50ppm	274± 13	284± 13	293± 14	298± 14	304± 15	312± 15	318± 17
100ppm	265± 9	273± 6	282± 7	287± 9	292± 9	297± 9	304± 9
200ppm	227± 8**	238± 9**	246± 9**	251± 10**	259± 9**	260± 10**	267± 10**

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 0	1	2	3	4	5	6
Control	94± 4	110± 5	125± 6	136± 6	139± 8	151± 8	157± 9
12.5ppm	94± 4	112± 5	126± 6	135± 7	136± 7	147± 6	150± 8
25ppm	94± 4	111± 3	125± 3	135± 3	139± 3	149± 4	154± 4
50ppm	94± 4	109± 3	123± 2	132± 2	137± 3	148± 3	151± 3
100ppm	94± 4	108± 4	121± 3	131± 5	134± 5	145± 7	149± 7
200ppm	94± 4	102± 4**	113± 4**	121± 5**	124± 5**	133± 6**	138± 5**

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 7	8	9	10	11	12	13
Control	160± 11	164± 10	167± 12	169± 11	173± 10	175± 11	177± 11
12.5ppm	157± 8	159± 8	162± 9	164± 9	166± 9	169± 9	171± 9
25ppm	159± 5	163± 5	166± 6	169± 7	173± 7	177± 6	179± 7
50ppm	157± 4	160± 3	164± 5	166± 4	168± 5	172± 5	172± 5
100ppm	153± 7	157± 8	163± 10	164± 10	168± 9	170± 9	175± 10
200ppm	142± 6**	147± 7**	149± 6**	153± 6**	156± 6**	159± 7**	162± 6**

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

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week on Study	Control Av. FC.	Control No. of Surviv. <10>	12.5ppm Av. FC.	12.5ppm % of cont. <10>	12.5ppm No. of Surviv.	25ppm Av. FC.	25ppm % of cont. <10>	25ppm No. of Surviv.	50ppm Av. FC.	50ppm % of cont. <10>	50ppm No. of Surviv.	100ppm Av. FC.	100ppm % of cont. <10>	100ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <10>	200ppm No. of Surviv.
1	14.7 (10)	10/10	14.9 (10)	101	10/10	15.0 (10)	102	10/10	14.3 (10)	97	10/10	13.3 (10)	90	10/10	11.4 (10)	78	10/10
2	16.7 (10)	10/10	16.6 (10)	99	10/10	16.5 (10)	99	10/10	16.6 (10)	99	10/10	15.2 (10)	91	10/10	13.6 (10)	81	10/10
3	17.1 (10)	10/10	17.4 (10)	102	10/10	17.0 (10)	99	10/10	16.8 (10)	98	10/10	16.1 (10)	94	10/10	13.5 (10)	79	10/10
4	17.4 (10)	10/10	17.5 (10)	101	10/10	16.7 (10)	96	10/10	17.1 (10)	98	10/10	16.2 (10)	93	10/10	14.3 (10)	82	10/10
5	17.0 (10)	10/10	16.9 (10)	99	10/10	17.0 (10)	100	10/10	17.4 (10)	102	10/10	16.4 (10)	96	10/10	14.8 (10)	87	10/10
6	16.7 (10)	10/10	16.7 (10)	100	10/10	16.8 (10)	101	10/10	17.0 (10)	102	10/10	16.0 (10)	96	10/10	14.5 (10)	87	10/10
7	16.7 (10)	10/10	17.1 (10)	102	10/10	16.9 (10)	101	10/10	17.0 (10)	102	10/10	16.3 (10)	98	10/10	14.8 (10)	89	10/10
8	17.2 (10)	10/10	16.7 (10)	97	10/10	16.9 (10)	98	10/10	17.2 (10)	100	10/10	16.1 (10)	94	10/10	14.6 (10)	85	10/10
9	17.0 (10)	10/10	16.4 (10)	96	10/10	16.8 (10)	99	10/10	16.8 (10)	99	10/10	15.9 (10)	94	10/10	14.7 (10)	86	10/10
10	16.3 (10)	10/10	16.0 (10)	98	10/10	16.5 (10)	101	10/10	16.6 (10)	102	10/10	15.7 (10)	96	10/10	15.0 (10)	92	10/10
11	16.4 (10)	10/10	16.3 (10)	99	10/10	16.3 (10)	99	10/10	16.4 (10)	100	10/10	16.0 (10)	98	10/10	15.3 (10)	93	10/10
12	16.1 (10)	10/10	15.5 (10)	96	10/10	15.9 (10)	99	10/10	16.0 (10)	99	10/10	15.2 (10)	94	10/10	14.4 (10)	89	10/10
13	15.5 (10)	10/10	15.5 (10)	100	10/10	15.8 (10)	102	10/10	16.0 (10)	103	10/10	15.0 (10)	97	10/10	13.9 (10)	90	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. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week on Study	Control Av. FC.	Control No. of Surviv. <10>	12.5ppm Av. FC.	12.5ppm % of cont. <10>	12.5ppm No. of Surviv.	25ppm Av. FC.	25ppm % of cont. <10>	25ppm No. of Surviv.	50ppm Av. FC.	50ppm % of cont. <10>	50ppm No. of Surviv.	100ppm Av. FC.	100ppm % of cont. <10>	100ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <10>	200ppm No. of Surviv.
1	11.3 (10)	10/10	11.4 (10)	101	10/10	11.1 (10)	98	10/10	10.8 (10)	96	10/10	10.3 (10)	91	10/10	9.2 (10)	81	10/10
2	11.7 (10)	10/10	12.0 (10)	103	10/10	11.5 (10)	98	10/10	11.4 (10)	97	10/10	11.1 (10)	95	10/10	10.3 (10)	88	10/10
3	11.6 (10)	10/10	11.4 (10)	98	10/10	11.1 (10)	96	10/10	10.8 (10)	93	10/10	10.9 (10)	94	10/10	9.5 (10)	82	10/10
4	11.3 (10)	10/10	10.9 (10)	96	10/10	10.9 (10)	96	10/10	10.7 (10)	95	10/10	10.6 (10)	94	10/10	9.8 (10)	87	10/10
5	11.4 (10)	10/10	11.0 (10)	96	10/10	11.4 (10)	100	10/10	11.2 (10)	98	10/10	10.8 (10)	95	10/10	10.1 (10)	89	10/10
6	11.0 (10)	10/10	10.9 (10)	99	10/10	11.2 (10)	102	10/10	10.8 (10)	98	10/10	10.5 (10)	95	10/10	9.6 (10)	87	10/10
7	11.2 (10)	10/10	11.0 (10)	98	10/10	11.0 (10)	98	10/10	10.8 (10)	96	10/10	10.4 (10)	93	10/10	10.1 (10)	90	10/10
8	10.9 (10)	10/10	10.7 (10)	98	10/10	11.1 (10)	102	10/10	10.5 (10)	96	10/10	10.2 (10)	94	10/10	9.7 (10)	89	10/10
9	10.9 (10)	10/10	10.8 (10)	99	10/10	11.0 (10)	101	10/10	10.9 (10)	100	10/10	10.9 (10)	100	10/10	10.1 (10)	93	10/10
10	10.9 (10)	10/10	10.5 (10)	96	10/10	11.1 (10)	102	10/10	10.5 (10)	96	10/10	10.7 (10)	98	10/10	10.3 (10)	94	10/10
11	10.7 (10)	10/10	10.1 (10)	94	10/10	10.9 (10)	102	10/10	10.3 (10)	96	10/10	10.6 (10)	99	10/10	10.5 (10)	98	10/10
12	10.8 (10)	10/10	10.7 (10)	99	10/10	11.1 (10)	103	10/10	10.8 (10)	100	10/10	10.6 (10)	98	10/10	10.4 (10)	96	10/10
13	10.5 (10)	10/10	10.4 (10)	99	10/10	10.6 (10)	101	10/10	10.1 (10)	96	10/10	10.3 (10)	98	10/10	10.2 (10)	97	10/10

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 1	2	3	4	5	6	7
Control	14.7± 0.6	16.7± 0.9	17.1± 0.7	17.4± 0.9	17.0± 0.8	16.7± 1.0	16.7± 1.1
12.5ppm	14.9± 0.6	16.6± 0.6	17.4± 0.6	17.5± 0.9	16.9± 1.0	16.7± 0.9	17.1± 1.1
25ppm	15.0± 1.0	16.5± 0.8	17.0± 1.0	16.7± 0.5	17.0± 0.5	16.8± 0.7	16.9± 0.7
50ppm	14.3± 0.6	16.6± 0.8	16.8± 0.8	17.1± 0.8	17.4± 0.8	17.0± 0.9	17.0± 1.0
100ppm	13.3± 0.6**	15.2± 0.6**	16.1± 0.4*	16.2± 0.6**	16.4± 0.7	16.0± 0.7	16.3± 0.5
200ppm	11.4± 0.7**	13.6± 0.9**	13.5± 0.9**	14.3± 1.0**	14.8± 0.6**	14.5± 0.7**	14.8± 0.7**

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 8	9	10	11	12	13
Control	17.2± 0.9	17.0± 0.5	16.3± 0.5	16.4± 0.6	16.1± 0.6	15.5± 0.5
12.5ppm	16.7± 1.4	16.4± 1.4	16.0± 1.1	16.3± 1.0	15.5± 1.1	15.5± 1.1
25ppm	16.9± 0.6	16.8± 0.5	16.5± 0.5	16.3± 0.5	15.9± 0.6	15.8± 0.4
50ppm	17.2± 1.2	16.8± 1.1	16.6± 1.0	16.4± 0.9	16.0± 0.8	16.0± 0.8
100ppm	16.1± 0.5**	15.9± 0.5**	15.7± 0.5	16.0± 0.7	15.2± 0.7	15.0± 0.7
200ppm	14.6± 0.5**	14.7± 0.7**	15.0± 0.4**	15.3± 0.5**	14.4± 0.6**	13.9± 0.7**

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 1	2	3	4	5	6	7
Control	11.3± 0.6	11.7± 0.5	11.6± 0.7	11.3± 0.6	11.4± 0.5	11.0± 0.6	11.2± 1.0
12.5ppm	11.4± 0.7	12.0± 0.6	11.4± 1.1	10.9± 0.5	11.0± 0.8	10.9± 1.0	11.0± 1.0
25ppm	11.1± 0.4	11.5± 0.5	11.1± 0.4	10.9± 0.5	11.4± 0.5	11.2± 0.6	11.0± 0.9
50ppm	10.8± 0.4	11.4± 0.3	10.8± 0.5*	10.7± 0.4*	11.2± 0.4	10.8± 0.4	10.8± 0.3
100ppm	10.3± 0.5**	11.1± 0.5*	10.9± 0.7	10.6± 0.5**	10.8± 0.7	10.5± 0.5	10.4± 0.3
200ppm	9.2± 0.6**	10.3± 0.6**	9.5± 0.4**	9.8± 0.6**	10.1± 0.5**	9.6± 0.4**	10.1± 0.5**

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week 8	9	10	11	12	13
Control	10.9± 0.9	10.9± 0.8	10.9± 1.0	10.7± 0.3	10.8± 0.6	10.5± 0.7
12.5ppm	10.7± 0.8	10.8± 0.9	10.5± 0.8	10.1± 0.6	10.7± 0.7	10.4± 0.6
25ppm	11.1± 0.7	11.0± 0.8	11.1± 0.9	10.9± 0.7	11.1± 0.6	10.6± 0.8
50ppm	10.5± 0.4	10.9± 0.5	10.5± 0.4	10.3± 0.8	10.8± 0.7	10.1± 0.5
100ppm	10.2± 0.6	10.9± 0.7	10.7± 0.6	10.6± 0.6	10.6± 0.8	10.3± 0.7
200ppm	9.7± 0.5**	10.1± 0.7	10.3± 0.5	10.5± 0.6	10.4± 0.6	10.2± 0.7

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0803
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	9.67± 0.22	15.3± 0.2	45.7± 0.8	47.2± 0.5	15.8± 0.3	33.4± 0.4	799± 32
12.5ppm	10	9.75± 0.21	15.2± 0.2	45.8± 0.8	46.9± 0.6	15.5± 0.4	33.1± 0.7	775± 68
25ppm	10	9.69± 0.22	15.3± 0.3	45.5± 1.2	46.9± 0.3	15.7± 0.2	33.5± 0.5	803± 45
50ppm	10	9.79± 0.18	15.3± 0.4	46.0± 0.9	46.9± 0.5	15.7± 0.3	33.4± 0.4	802± 35
100ppm	10	9.71± 0.16	15.3± 0.2	45.6± 0.4	47.0± 0.6	15.7± 0.2	33.5± 0.3	776± 81
200ppm	10	9.72± 0.19	15.7± 0.2**	46.7± 0.6*	48.1± 0.5**	16.1± 0.3	33.5± 0.3	778± 43

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

STUDY NO. : 0803
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	13.6± 1.4	20.9± 2.3
12.5ppm	10	1.7± 0.2	14.7± 1.4	22.0± 1.6
25ppm	10	1.8± 0.2	13.9± 1.3	21.1± 2.0
50ppm	10	1.8± 0.2	14.1± 2.7	20.5± 2.6
100ppm	10	1.8± 0.1	14.7± 2.3	21.8± 1.7
200ppm	10	1.6± 0.1*	13.7± 2.1	20.4± 1.6

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

STUDY NO. : 0803
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	5.32± 1.19	25± 4	70± 4	2± 1	1± 0	0± 0	2± 1
12.5ppm	10	5.02± 1.43	26± 5	69± 5	2± 0	1± 1	0± 0	2± 1
25ppm	10	4.99± 1.20	25± 5	70± 5	2± 1	1± 0	0± 0	2± 1
50ppm	10	5.32± 1.09	25± 5	71± 4	1± 1	1± 0	0± 0	2± 1
100ppm	10	5.41± 1.41	26± 4	69± 4	2± 0	1± 0	0± 0	2± 1
200ppm	10	5.21± 1.00	27± 4	69± 4	2± 1	1± 1	0± 0	2± 1

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0803
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	8.98± 0.13	15.3± 0.3	45.0± 0.6	50.1± 0.1	17.1± 0.4	34.1± 0.6	871± 46
12.5ppm	10	8.95± 0.19	15.3± 0.5	45.0± 0.9	50.4± 0.3	17.1± 0.2	34.1± 0.4	879± 50
25ppm	10	9.04± 0.18	15.4± 0.4	45.3± 0.9	50.2± 0.6	17.1± 0.4	34.0± 0.5	841± 43
50ppm	10	9.04± 0.17	15.5± 0.5	45.5± 0.9	50.4± 0.3	17.2± 0.4	34.1± 0.6	886± 47
100ppm	10	9.03± 0.15	15.4± 0.3	45.4± 0.7	50.2± 0.3	17.1± 0.4	34.0± 0.7	873± 27
200ppm	10	9.19± 0.17*	15.7± 0.3	46.3± 0.9**	50.4± 0.3	17.1± 0.4	34.0± 0.8	822± 41

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RETICULOCYTE %	PROTHROMBIN TIME sec	APTT sec
Control	10	1.7± 0.2	11.8± 0.4	14.2± 0.5
12.5ppm	10	1.7± 0.2	11.8± 0.3	13.9± 1.0
25ppm	10	1.6± 0.1	11.6± 0.4	14.1± 1.0
50ppm	10	1.6± 0.3	11.6± 0.5	13.9± 0.9
100ppm	10	1.7± 0.2	12.0± 0.3	14.0± 0.7
200ppm	10	1.8± 0.2	12.1± 0.3	13.7± 0.8

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

STUDY NO. : 0803
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	3.39± 1.05	25± 4	71± 4	2± 1	1± 0	0± 0	2± 1
12.5ppm	10	2.83± 0.62	23± 4	72± 4	2± 1	1± 0	0± 0	2± 1
25ppm	10	3.19± 1.31	26± 8	69± 8	2± 0	1± 0	0± 0	2± 1
50ppm	10	3.53± 1.07	22± 6	73± 5	2± 0	1± 0	0± 0	1± 1
100ppm	10	3.78± 1.32	23± 4	72± 4	2± 0	1± 0	0± 0	2± 1
200ppm	10	3.83± 0.73	26± 5	69± 5	1± 1	1± 1	0± 0	1± 1

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	TOTAL PROTEIN g／dℓ	ALBUMIN g／dℓ	A/G RATIO	T-BILIRUBIN mg／dℓ	GLUCOSE mg／dℓ	T-CHOLESTEROL mg／dℓ	TRIGLYCERIDE mg／dℓ
Control	10	6.5± 0.2	3.8± 0.1	1.4± 0.1	0.04± 0.01	184± 13	65± 6	48± 18
12.5ppm	10	6.4± 0.2	3.7± 0.1	1.4± 0.0	0.04± 0.01	185± 7	65± 6	40± 9
25ppm	10	6.5± 0.1	3.7± 0.1	1.3± 0.1	0.04± 0.01	184± 6	64± 3	40± 15
50ppm	10	6.6± 0.2	3.8± 0.1	1.4± 0.1	0.04± 0.00	188± 11	64± 4	40± 14
100ppm	10	6.3± 0.2	3.6± 0.1	1.3± 0.1	0.04± 0.01	184± 8	60± 5	41± 11
200ppm	10	6.2± 0.2**	3.6± 0.1*	1.4± 0.1	0.04± 0.01	185± 9	54± 3**	27± 8**

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

STUDY NO. : 0803
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	118± 10	105± 29	59± 11	117± 27	388± 33	0.4± 0.2	102± 22
12.5ppm	10	115± 8	105± 35	58± 13	125± 33	367± 22	0.4± 0.2	102± 20
25ppm	10	114± 3	103± 31	52± 9	127± 35	375± 23	0.4± 0.2	104± 16
50ppm	10	116± 8	91± 24	50± 6	106± 34	388± 25	0.3± 0.2	98± 18
100ppm	10	111± 7	113± 49	55± 16	116± 63	391± 33	0.4± 0.2	97± 7
200ppm	10	104± 7**	86± 20	44± 8	91± 35	426± 36*	0.5± 0.2	106± 10

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ	CREATININE mg/dℓ	SODIUM mEq/ℓ	POTASSIUM mEq/ℓ	CHLORIDE mEq/ℓ	CALCIUM mg/dℓ	INORGANIC PHOSPHORUS mg/dℓ
Control	10	17.7± 1.3	0.30± 0.03	144± 2	3.4± 0.1	107± 2	10.2± 0.3	5.7± 0.6
12.5ppm	10	18.2± 1.1	0.29± 0.02	144± 2	3.5± 0.3	107± 2	10.1± 0.2	5.3± 1.0
25ppm	10	18.3± 1.4	0.31± 0.02	144± 2	3.5± 0.2	107± 2	10.2± 0.1	5.8± 0.9
50ppm	10	18.2± 1.3	0.29± 0.02	144± 2	3.4± 0.3	107± 1	10.3± 0.2	5.5± 1.0
100ppm	10	18.4± 1.1	0.29± 0.02	144± 2	3.5± 0.3	108± 2	10.1± 0.1	5.7± 0.9
200ppm	10	18.1± 1.3	0.28± 0.03	144± 2	3.6± 0.3	108± 2	9.9± 0.2*	5.9± 0.8

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0803
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	3.7± 0.1	1.4± 0.1	0.05± 0.00	149± 7	73± 7	11± 3
12.5ppm	10	6.2± 0.2	3.7± 0.1	1.5± 0.1	0.05± 0.01	142± 19	73± 7	9± 3
25ppm	10	6.3± 0.2	3.7± 0.1	1.4± 0.1	0.05± 0.01	144± 21	71± 7	9± 3
50ppm	10	6.3± 0.1	3.7± 0.1	1.4± 0.1	0.05± 0.00	149± 14	70± 6	10± 3
100ppm	10	6.3± 0.1	3.7± 0.1	1.4± 0.1	0.05± 0.01	149± 12	74± 6	12± 4
200ppm	10	6.1± 0.2	3.6± 0.1	1.4± 0.1	0.05± 0.01	140± 11	64± 7*	9± 2

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

STUDY NO. : 0803
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	137± 12	72± 6	35± 8	104± 39	322± 25	1.0± 0.2	101± 18
12.5ppm	10	132± 12	74± 9	37± 9	106± 45	321± 36	1.1± 0.3	104± 27
25ppm	10	131± 10	83± 17	46± 23	104± 39	330± 27	1.2± 0.4	106± 24
50ppm	10	129± 9	75± 9	35± 4	122± 71	315± 19	1.0± 0.2	119± 35
100ppm	10	139± 9	82± 18	42± 14	112± 48	319± 33	1.2± 0.2	109± 27
200ppm	10	123± 12*	77± 4	36± 5	118± 49	381± 21**	1.3± 0.3	127± 35

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

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg／dℓ	CREATININE mg／dℓ	SODIUM mEq／ℓ	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	10	18.8± 2.0	0.33± 0.03	144± 2	3.3± 0.3	109± 3	9.8± 0.2	4.8± 1.2
12.5ppm	10	17.8± 2.3	0.33± 0.03	144± 3	3.4± 0.2	110± 3	9.7± 0.3	4.6± 1.1
25ppm	10	19.2± 2.6	0.34± 0.02	144± 2	3.3± 0.3	110± 2	10.0± 0.3	5.2± 1.0
50ppm	10	17.6± 1.6	0.33± 0.02	144± 2	3.3± 0.2	110± 2	9.9± 0.2	4.6± 1.2
100ppm	10	18.9± 1.3	0.33± 0.03	143± 2	3.5± 0.3	109± 3	9.9± 0.2	4.8± 1.0
200ppm	10	17.4± 1.3	0.31± 0.02	144± 2	3.7± 0.2**	110± 2	9.8± 0.2	5.3± 1.2

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

TABLE H1

URINALYSIS : MALE

STUDY NO. : 0803 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	1	5	4		4	6	0	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
12.5ppm	10	0	0	0	0	0	1	9		2	4	4	0	0	0		10	0	0	0	0	0		9	0	1	0	0	0		10	0	0	0	
25ppm	10	0	0	0	1	3	2	4		4	4	1	1	0	0		10	0	0	0	0	0		8	1	0	1	0	0		10	0	0	0	
50ppm	10	0	0	0	0	6	3	1		5	3	2	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
100ppm	10	0	0	0	0	3	2	5		1	6	1	2	0	0		10	0	0	0	0	0		7	2	1	0	0	0		10	0	0	0	
200ppm	10	0	0	1	1	3	4	1		5	2	1	2	0	0		10	0	0	0	0	0		8	1	1	0	0	0		10	0	0	0	

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

STUDY NO. : 0803 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	
12.5ppm	10	10	0	0	0	0		10	0	0	0	0	
25ppm	10	10	0	0	0	0		10	0	0	0	0	
50ppm	10	10	0	0	0	0		10	0	0	0	0	
100ppm	10	10	0	0	0	0		10	0	0	0	0	
200ppm	10	10	0	0	0	0		10	0	0	0	0	

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

TABLE H2

URINALYSIS : FEMALE

STUDY NO. : 0803 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		9	0	1	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
12.5ppm	10	0	0	0	1	1	5	3		6	3	1	0	0	0		10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
25ppm	10	0	0	0	0	0	6	4		4	5	1	0	0	0	*	10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
50ppm	10	0	0	0	0	3	6	1		7	2	1	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
100ppm	10	0	0	0	0	0	8	2		5	5	0	0	0	0	*	10	0	0	0	0	0		10	0	0	0	0	0		10	0	0	0	
200ppm	10	0	0	0	0	2	6	2		8	2	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. : 0803 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	
12.5ppm	10	10	0	0	0	0		10	0	0	0	0	
25ppm	10	10	0	0	0	0		10	0	0	0	0	
50ppm	10	10	0	0	0	0		10	0	0	0	0	
100ppm	10	10	0	0	0	0		10	0	0	0	0	
200ppm	10	10	0	0	0	0		10	0	0	0	0	

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

TABLE I 1

GROSS FINDINGS : MALE

STUDY NO. : 0803
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	(%)	12.5ppm 10	(%)	25ppm 10	(%)	50ppm 10	(%)
liver	herniation		1	(10)	1	(10)	0	(0)	2	(20)
eye	turbid		0	(0)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name	100ppm		200ppm	
		NO. of Animals	10	(%)	10	(%)
liver	herniation		1	(10)	1	(10)
eye	turbid		0	(0)	1	(10)

TABLE I 2

GROSS FINDINGS : FEMALE

STUDY NO. : 0803
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

Organ	Findings	Group Name / NO. of Animals	Control 10	(%)	12.5ppm 10	(%)	25ppm 10	(%)	50ppm 10	(%)
liver	herniation		1	(10)	1	(10)	1	(10)	0	(0)
uterus	absence		1	(10)	0	(0)	0	(0)	0	(0)

Organ	Findings	Group Name / NO. of Animals	100ppm 10	(%)	200ppm 10	(%)
liver	herniation		3	(30)	1	(10)
uterus	absence		0	(0)	0	(0)

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0803
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	294± 8	0.262± 0.025	0.062± 0.010	3.080± 0.096	0.876± 0.032	0.924± 0.051
12.5ppm	10	289± 12	0.253± 0.030	0.064± 0.013	3.099± 0.121	0.889± 0.064	0.933± 0.047
25ppm	10	301± 11	0.246± 0.026	0.061± 0.018	3.090± 0.062	0.894± 0.047	0.950± 0.053
50ppm	10	296± 16	0.252± 0.054	0.055± 0.007	3.070± 0.127	0.883± 0.063	0.949± 0.053
100ppm	10	281± 10	0.243± 0.027	0.063± 0.008	3.073± 0.099	0.873± 0.031	0.939± 0.033
200ppm	10	242± 8**	0.189± 0.028**	0.060± 0.014	2.978± 0.080	0.806± 0.042**	0.870± 0.041

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

STUDY NO. : 0803
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	1.754± 0.067	0.534± 0.029	6.976± 0.318	1.891± 0.057
12.5ppm	10	1.786± 0.096	0.521± 0.022	6.938± 0.323	1.893± 0.049
25ppm	10	1.818± 0.090	0.571± 0.068	7.169± 0.425	1.914± 0.035
50ppm	10	1.825± 0.115	0.542± 0.031	7.224± 0.551	1.934± 0.055
100ppm	10	1.743± 0.066	0.529± 0.036	6.801± 0.317	1.892± 0.061
200ppm	10	1.584± 0.074**	0.464± 0.062**	5.757± 0.216**	1.863± 0.046

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

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0803
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	162± 9	0.210± 0.021	0.063± 0.011	0.097± 0.007	0.578± 0.041	0.694± 0.045
12.5ppm	10	158± 8	0.185± 0.036	0.065± 0.009	0.098± 0.010	0.571± 0.023	0.687± 0.033
25ppm	10	162± 5	0.189± 0.019	0.063± 0.008	0.102± 0.014	0.600± 0.050	0.711± 0.038
50ppm	10	158± 5	0.196± 0.023	0.065± 0.009	0.103± 0.009	0.592± 0.027	0.704± 0.028
100ppm	10	158± 10	0.190± 0.024	0.060± 0.007	0.096± 0.006	0.576± 0.034	0.686± 0.043
200ppm	10	145± 5**	0.163± 0.018**	0.064± 0.007	0.094± 0.015	0.552± 0.034	0.645± 0.035*

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

STUDY NO. : 0803
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	1.073± 0.062	0.354± 0.016	3.738± 0.291	1.769± 0.038
12.5ppm	10	1.064± 0.050	0.345± 0.025	3.677± 0.141	1.774± 0.028
25ppm	10	1.088± 0.044	0.356± 0.018	3.780± 0.201	1.765± 0.045
50ppm	10	1.073± 0.031	0.356± 0.017	3.721± 0.161	1.768± 0.043
100ppm	10	1.043± 0.059	0.352± 0.026	3.644± 0.205	1.769± 0.049
200ppm	10	1.037± 0.044	0.323± 0.014**	3.485± 0.184*	1.717± 0.030*

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

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0803
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	294± 8	0.089± 0.007	0.021± 0.003	1.050± 0.040	0.299± 0.012	0.315± 0.015
12.5ppm	10	289± 12	0.088± 0.010	0.022± 0.005	1.075± 0.033	0.308± 0.013	0.323± 0.009
25ppm	10	301± 11	0.082± 0.009	0.020± 0.006	1.028± 0.040	0.297± 0.014	0.316± 0.016
50ppm	10	296± 16	0.085± 0.014	0.019± 0.002	1.040± 0.066	0.298± 0.009	0.321± 0.014
100ppm	10	281± 10	0.087± 0.010	0.022± 0.003	1.095± 0.050	0.311± 0.015	0.334± 0.012*
200ppm	10	242± 8**	0.078± 0.012	0.025± 0.006	1.229± 0.024**	0.333± 0.019**	0.359± 0.019**

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

STUDY NO. : 0803
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	0.598± 0.025	0.182± 0.009	2.376± 0.058	0.645± 0.025
12.5ppm	10	0.619± 0.015	0.181± 0.005	2.405± 0.061	0.657± 0.019
25ppm	10	0.604± 0.026	0.190± 0.025	2.382± 0.069	0.637± 0.019
50ppm	10	0.617± 0.016	0.184± 0.009	2.439± 0.066	0.655± 0.035
100ppm	10	0.621± 0.019	0.188± 0.009	2.420± 0.062	0.674± 0.027
200ppm	10	0.654± 0.017**	0.192± 0.024	2.376± 0.050	0.769± 0.025**

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

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0803
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	162± 9	0.130± 0.009	0.039± 0.005	0.060± 0.004	0.358± 0.017	0.430± 0.023
12.5ppm	10	158± 8	0.117± 0.020	0.041± 0.006	0.062± 0.006	0.363± 0.020	0.437± 0.022
25ppm	10	162± 5	0.117± 0.011	0.039± 0.004	0.063± 0.007	0.370± 0.023	0.439± 0.022
50ppm	10	158± 5	0.124± 0.014	0.041± 0.006	0.065± 0.006	0.375± 0.017	0.445± 0.021
100ppm	10	158± 10	0.120± 0.013	0.038± 0.004	0.061± 0.005	0.365± 0.014	0.435± 0.022
200ppm	10	145± 5**	0.113± 0.011	0.044± 0.005	0.065± 0.009	0.382± 0.025	0.446± 0.017

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

STUDY NO. : 0803
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± 0.010	0.220± 0.009	2.313± 0.089	1.097± 0.047
12.5ppm	10	0.677± 0.034	0.220± 0.017	2.337± 0.091	1.129± 0.053
25ppm	10	0.671± 0.020	0.220± 0.013	2.331± 0.083	1.090± 0.040
50ppm	10	0.679± 0.020	0.225± 0.011	2.354± 0.086	1.119± 0.039
100ppm	10	0.661± 0.012	0.224± 0.020	2.310± 0.084	1.123± 0.057
200ppm	10	0.718± 0.030**	0.223± 0.007	2.411± 0.070	1.189± 0.051**

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

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

Organ	Findings	Group Name / Grade	Control				12.5ppm				25ppm				50ppm			
		No. of Animals on Study	10				10				10				10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	goblet cell hyperplasia		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)
	eosinophilic change:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	desquamation: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)
	ulcer: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: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)
	inflammtory infiltration: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)
	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)

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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	goblet cell hyperplasia		10 (100)	0 (0)	0 (0)	0 (0) **	2 (20)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	desquamation:olfactory epithelium		5 (50)	0 (0)	0 (0)	0 (0) *	2 (20)	8 (80)	0 (0)	0 (0) **
	ulcer:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0) *
	hyperplasia:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	2 (20)	0 (0)	0 (0) **
	inflammtory infiltration:respiratory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0) **
	inflammatory infiltration:olfactory epithelium		5 (50)	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 / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	12.5ppm 1+ (%)	12.5ppm 2+ (%)	12.5ppm 3+ (%)	12.5ppm 4+ (%)	25ppm 1+ (%)	25ppm 2+ (%)	25ppm 3+ (%)	25ppm 4+ (%)	50ppm 1+ (%)	50ppm 2+ (%)	50ppm 3+ (%)	50ppm 4+ (%)
		No. of Animals on Study	10				10				10				10			
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	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)	8 (80)	0 (0)	0 (0)	0 (0) **
	regeneration:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	1 (10)	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)	1 (10)	0 (0)	0 (0)	0 (0)
	necrosis:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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)
larynx			<10>				<10>				<10>				<10>			
	inflammatory infiltration		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	1 (10)	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)	3 (30)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	squamous cell metaplasia:transitional epithelium		1 (10)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	regeneration:respiratory epithelium		9 (90)	0 (0)	0 (0)	0 ** (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	regeneration:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
	atrophy:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 ** (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
	necrosis:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 ** (0)	0 (0)	10 (100)	0 (0)	0 ** (0)
	adhesion:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	6 (60)	0 (0)	0 (0)	0 * (0)
larynx			<10>				<10>			
	inflammatory infiltration		7 (70)	0 (0)	0 (0)	0 * (0)	1 (10)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		8 (80)	0 (0)	0 (0)	0 ** (0)	5 (50)	5 (50)	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+ (%)	12.5ppm 10 1+ (%)	12.5ppm 10 2+ (%)	12.5ppm 10 3+ (%)	12.5ppm 10 4+ (%)	25ppm 10 1+ (%)	25ppm 10 2+ (%)	25ppm 10 3+ (%)	25ppm 10 4+ (%)	50ppm 10 1+ (%)	50ppm 10 2+ (%)	50ppm 10 3+ (%)	50ppm 10 4+ (%)
(Respiratory system)																		
trachea		<10>																
	ulcer		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)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)
	atrophy: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)
(Digestive system)																		
liver		<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)	2 (20)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	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 infiltration		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	100ppm 10 1+ (%)	2+ (%)	3+ (%)	4+ (%)	200ppm 10 1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
trachea			<10>				<10>			
	ulcer		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		2 (20)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		6 (60)	0 (0)	0 (0)	0 * (0)	7 (70)	0 (0)	0 (0)	0 ** (0)
	atrophy:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	6 (60)	0 (0)	0 (0)	0 * (0)
(Digestive system)										
liver			<10>				<10>			
	herniation		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 10				12.5ppm 10				25ppm 10				50ppm 10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Urinary system}																		
kidney		<10>																
	eosinophilic body		10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Endocrine system}																		
pituitary		<10>																
	Rathke pouch		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Reproductive system}																		
prostate		<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)
{Special sense organs/appendage}																		
eye		<10>																
	cataract		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

Organ	Findings	Group Name	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Urinary system)										
kidney			<10>				<10>			
	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	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)
(Reproductive system)										
prostate			<10>				<10>			
	inflammatory infiltration		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
(Special sense organs/appendage)										
eye			<10>				<10>			
	cataract		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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 / Grade	Control				12.5ppm				25ppm				50ppm			
		No. of Animals on Study	10				10				10				10			
			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>			
	retinal atrophy		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	keratitis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		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)
{Musculoskeletal system}																		
bone			<10>				<10>				<10>				<10>			
	osteosclerosis		0	0	0	0	0	0	0	0	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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{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)
	keratitis		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
Harder gl			<10>				<10>			
	lymphocytic infiltration		2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Musculoskeletal system}										
bone			<10>				<10>			
	osteosclerosis		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+ (%)	12.5ppm 10 1+ (%)	12.5ppm 10 2+ (%)	12.5ppm 10 3+ (%)	12.5ppm 10 4+ (%)	25ppm 10 1+ (%)	25ppm 10 2+ (%)	25ppm 10 3+ (%)	25ppm 10 4+ (%)	50ppm 10 1+ (%)	50ppm 10 2+ (%)	50ppm 10 3+ (%)	50ppm 10 4+ (%)
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	goblet cell hyperplasia		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)
	respiratory metaplasia: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)
	desquamation: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: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)
	inflammtory infiltration:respiratory epithelium		3 (30)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	2 (20)	1 (10)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	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)
	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)	1 (10)	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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
nasal cavit			<10>				<10>			
	goblet cell hyperplasia		5 (50)	0 (0)	0 (0)	0 * (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	desquamation:olfactory epithelium		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	9 (90)	0 (0)	0 ** (0)
	hyperplasia:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	inflammtory infiltration:respiratory epithelium		1 (10)	1 (10)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	inflammatory infiltration:olfactory epithelium		3 (30)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	squamous cell metaplasia:transitional epithelium		1 (10)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 ** (0)
	regeneration:respiratory epithelium		9 (90)	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 / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	12.5ppm 1+ (%)	12.5ppm 2+ (%)	12.5ppm 3+ (%)	12.5ppm 4+ (%)	25ppm 1+ (%)	25ppm 2+ (%)	25ppm 3+ (%)	25ppm 4+ (%)	50ppm 1+ (%)	50ppm 2+ (%)	50ppm 3+ (%)	50ppm 4+ (%)
		No. of Animals on Study	10				10				10				10			
(Respiratory system)																		
nasal cavit			<10>				<10>				<10>				<10>			
	regeneration:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0 *
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	atrophy:olfactory epithelium		0	0	0	0	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)
	necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	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)
larynx			<10>				<10>				<10>				<10>			
	inflammatory infiltration		3	0	0	0	3	0	0	0	6	0	0	0	8	0	0	0
			(30)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	regenaration:epithelium		0	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0 *
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
trachea			<10>				<10>				<10>				<10>			
	ulcer		0	0	0	0	0	0	0	0	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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Respiratory system)										
nasal cavit			<10>				<10>			
	regeneration:olfactory epithelium		0 (0)	10 (100)	0 (0)	0 (0) **	0 (0)	10 (100)	0 (0)	0 (0) **
	atrophy:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	0 (0)	10 (100)	0 (0)	0 (0) **
	necrosis:olfactory epithelium		10 (100)	0 (0)	0 (0)	0 (0) **	10 (100)	0 (0)	0 (0)	0 (0) **
	adhesion:turbinate		0 (0)	0 (0)	0 (0)	0 (0)	7 (70)	0 (0)	0 (0)	0 (0) **
larynx			<10>				<10>			
	inflammatory infiltration		8 (80)	0 (0)	0 (0)	0 (0)	6 (60)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		4 (40)	0 (0)	0 (0)	0 (0)	6 (60)	0 (0)	0 (0)	0 (0) *
trachea			<10>				<10>			
	ulcer		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+ (%)	12.5ppm 10 1+ (%)	12.5ppm 10 2+ (%)	12.5ppm 10 3+ (%)	12.5ppm 10 4+ (%)	25ppm 10 1+ (%)	25ppm 10 2+ (%)	25ppm 10 3+ (%)	25ppm 10 4+ (%)	50ppm 10 1+ (%)	50ppm 10 2+ (%)	50ppm 10 3+ (%)	50ppm 10 4+ (%)
(Respiratory system)																		
trachea		<10>					<10>				<10>				<10>			
	inflammatory infiltration		1	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0
			(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	regenaration:epithelium		0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	atrophy:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung		<10>					<10>				<10>				<10>			
	inflammatory infiltration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	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)
(Hematopoietic system)																		
bone marrow		<10>					<10>				<10>				<10>			
	granulation		1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(10)	(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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
trachea			<10>				<10>			
	inflammatory infiltration		3 (30)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	regenaration:epithelium		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	atrophy:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 * (0)
lung			<10>				<10>			
	inflammatory infiltration		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)	1 (10)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	granulation		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+ (%)	12.5ppm 10 1+ (%)	12.5ppm 10 2+ (%)	12.5ppm 10 3+ (%)	12.5ppm 10 4+ (%)	25ppm 10 1+ (%)	25ppm 10 2+ (%)	25ppm 10 3+ (%)	25ppm 10 4+ (%)	50ppm 10 1+ (%)	50ppm 10 2+ (%)	50ppm 10 3+ (%)	50ppm 10 4+ (%)
(Digestive system)																		
liver			<10>				<10>				<10>				<10>			
	herniation		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Urinary system)																		
kidney			<10>				<10>				<10>				<10>			
	mineralization:cortico-medullary junction		0	0	0	0	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)
(Endocrine system)																		
thyroid			<10>				<10>				<10>				<10>			
	ultimobranchial body remanet		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)
(Reproductive system)																		
ovary			<10>				<10>				<10>				<10>			
	cyst		0	0	0	0	0	0	0	0	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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Digestive system}										
liver			<10>				<10>			
	herniation		3 (30)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Urinary system}										
kidney			<10>				<10>			
	mineralization:cortico-medullary junction		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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)
{Reproductive system}										
ovary			<10>				<10>			
	cyst		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 / Grade	Control				12.5ppm				25ppm				50ppm			
		No. of Animals on Study	10				10				10				10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Reproductive system}																		
uterus			<10>				<10>				<10>				<10>			
	malformation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			<10>				<10>				<10>				<10>			
	retinal atrophy		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(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	100ppm				200ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Reproductive system)										
uterus			<10>				<10>			
	malformation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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)
Harder gl			<10>				<10>			
	lymphocytic infiltration		4 (40)	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