

アリルアルコー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：0902

# TABLES

## TABLES

TABLE A	CONCENTRATIONS OF ALLYL ALCOHOL IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY
TABLE B 1	SURVIVAL ANIMAL NUMBERS: MALE
TABLE B 2	SURVIVAL ANIMAL NUMBERS: FEMALE
TABLE C 1	CLINICAL OBSERVATION: MALE
TABLE C 2	CLINICAL OBSERVATION: FEMALE
TABLE D 1	BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE
TABLE D 2	BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE
TABLE D 3	BODY WEIGHT CHANGES: MALE
TABLE D 4	BODY WEIGHT CHANGES: FEMALE
TABLE E 1	FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: MALE
TABLE E 2	FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS: FEMALE
TABLE E 3	FOOD CONSUMPTION CHANGES: MALE
TABLE E 4	FOOD CONSUMPTION CHANGES: FEMALE
TABLE F 1	URINALYSIS: MALE
TABLE F 2	URINALYSIS: FEMALE
TABLE G 1	HEMATOLOGY: MALE
TABLE G 2	HEMATOLOGY: FEMALE

**TABLES (CONTINUED)**

TABLE H 1 BIOCHEMISTRY: MALE

TABLE H 2 BIOCHEMISTRY: FEMALE

TABLE I 1 GROSS FINDINGS: MALE

TABLE I 2 GROSS FINDINGS: FEMALE

TABLE J 1 ORGAN WEIGHT, ABSOLUTE: MALE

TABLE J 2 ORGAN WEIGHT, ABSOLUTE: FEMALE

TABLE K 1 ORGAN WEIGHT, RELATIVE: MALE

TABLE K 2 ORGAN WEIGHT, RELATIVE: FEMALE

TABLE L 1 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS  
: MALE

TABLE L 2 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS  
: FEMALE

**TABLE A**

**CONCENTRATIONS OF ALLYL ALCOHOL  
IN THE INHALATION CHAMBER  
OF THE 13-WEEK INHALATION STUDY**

CONCENTRATIONS OF ALLYL ALCOHOL IN THE INHALATION  
CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
1.6 ppm	1.6 $\pm$ 0.0
3.1 ppm	3.1 $\pm$ 0.0
6.3 ppm	6.3 $\pm$ 0.0
12.5 ppm	12.5 $\pm$ 0.1
25 ppm	25.1 $\pm$ 0.1

**TABLE B1**

**SURVIVAL ANIMAL NUMBERS : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Gr1][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	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
1.6ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
3.1ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
6.3ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
12.5ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
25ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

**TABLE B2**

**SURVIVAL ANIMAL NUMBERS : FEMALE**



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCrj(Crj) [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	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
1.6ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
3.1ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
6.3ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
12.5ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0
25ppm	10	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0	10/10 100.0

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

**TABLE C1**

**CLINICAL OBSERVATION : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day												
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
		1	1	1	1	1	1	1	1	1	1	1	1	1
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	1	1
	1.6ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3.1ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	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
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	9	9
	1.6ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	3.1ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	6.3ppm	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

(HAN190)

BATS 6

**TABLE C2**

**CLINICAL OBSERVATION : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr(CrI)[F344/DuCrJ]  
 REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day												
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
		1	1	1	1	1	1	1	1	1	1	1	1	1
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	1.6ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	3.1ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	6.3ppm	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

(HAN190)

**TABLE D1**

**BODY WEIGHT CHANGES AND SURVIVAL ANIMAL**

**NUMBERS : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 13  
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control			1.6ppm			3.1ppm			6.3ppm			12.5ppm			25ppm		
	Av. Wt.	No. of Surviv. <10>		Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	113 (10)	10/10		113 (10)	100	10/10	113 (10)	100	10/10	113 (10)	100	10/10	113 (10)	100	10/10	113 (10)	100	10/10
1-7	146 (10)	10/10		146 (10)	100	10/10	145 (10)	99	10/10	141 (10)	97	10/10	138 (10)	95	10/10	128 (10)	88	10/10
2-7	179 (10)	10/10		179 (10)	100	10/10	179 (10)	100	10/10	172 (10)	96	10/10	169 (10)	94	10/10	154 (10)	86	10/10
3-7	205 (10)	10/10		205 (10)	100	10/10	206 (10)	100	10/10	197 (10)	96	10/10	194 (10)	95	10/10	174 (10)	85	10/10
4-7	226 (10)	10/10		226 (10)	100	10/10	228 (10)	101	10/10	217 (10)	96	10/10	217 (10)	96	10/10	194 (10)	86	10/10
5-7	244 (10)	10/10		243 (10)	100	10/10	244 (10)	100	10/10	233 (10)	95	10/10	234 (10)	96	10/10	209 (10)	86	10/10
6-7	257 (10)	10/10		257 (10)	100	10/10	260 (10)	101	10/10	249 (10)	97	10/10	251 (10)	98	10/10	226 (10)	88	10/10
7-7	267 (10)	10/10		268 (10)	100	10/10	272 (10)	102	10/10	260 (10)	97	10/10	261 (10)	98	10/10	235 (10)	88	10/10
8-7	280 (10)	10/10		280 (10)	100	10/10	283 (10)	101	10/10	271 (10)	97	10/10	272 (10)	97	10/10	239 (10)	85	10/10
9-7	287 (10)	10/10		286 (10)	100	10/10	283 (10)	102	10/10	281 (10)	98	10/10	282 (10)	98	10/10	250 (10)	87	10/10
10-7	294 (10)	10/10		295 (10)	100	10/10	298 (10)	101	10/10	288 (10)	98	10/10	289 (10)	98	10/10	257 (10)	87	10/10
11-7	300 (10)	10/10		300 (10)	100	10/10	305 (10)	102	10/10	293 (10)	98	10/10	295 (10)	98	10/10	265 (10)	88	10/10
12-7	305 (10)	10/10		306 (10)	100	10/10	310 (10)	102	10/10	300 (10)	98	10/10	300 (10)	98	10/10	272 (10)	89	10/10
13-7	307 (10)	10/10		310 (10)	101	10/10	312 (10)	102	10/10	303 (10)	98	10/10	304 (10)	99	10/10	271 (10)	88	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. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrJ]  
 UNIT : g  
 REPORT TYPE : A1 13  
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control		1. 6ppm			3. 1ppm			6. 3ppm			12. 5ppm			25ppm		
	Av. Wt.	No. of Surviv. <10>	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	93 (10)	10/10	93 (10)	100	10/10	93 (10)	100	10/10	93 (10)	100	10/10	93 (10)	100	10/10	93 (10)	100	10/10
1-7	110 (10)	10/10	109 (10)	98	10/10	110 (10)	100	10/10	109 (10)	99	10/10	104 (10)	95	10/10	100 (10)	91	10/10
2-7	125 (10)	10/10	121 (10)	97	10/10	122 (10)	98	10/10	123 (10)	98	10/10	119 (10)	95	10/10	114 (10)	91	10/10
3-7	132 (10)	10/10	130 (10)	98	10/10	132 (10)	100	10/10	132 (10)	100	10/10	128 (10)	97	10/10	122 (10)	92	10/10
4-7	143 (10)	10/10	140 (10)	98	10/10	141 (10)	99	10/10	141 (10)	99	10/10	138 (10)	97	10/10	130 (10)	91	10/10
5-7	150 (10)	10/10	146 (10)	97	10/10	147 (10)	98	10/10	148 (10)	99	10/10	145 (10)	97	10/10	137 (10)	91	10/10
6-7	157 (10)	10/10	153 (10)	97	10/10	155 (10)	98	10/10	155 (10)	99	10/10	153 (10)	97	10/10	145 (10)	92	10/10
7-7	160 (10)	10/10	158 (10)	99	10/10	159 (10)	99	10/10	159 (10)	99	10/10	156 (10)	98	10/10	148 (10)	93	10/10
8-7	164 (10)	10/10	162 (10)	99	10/10	163 (10)	99	10/10	163 (10)	99	10/10	161 (10)	98	10/10	151 (10)	92	10/10
9-7	169 (10)	10/10	167 (10)	99	10/10	167 (10)	99	10/10	166 (10)	98	10/10	165 (10)	98	10/10	155 (10)	92	10/10
10-7	172 (10)	10/10	169 (10)	98	10/10	170 (10)	99	10/10	170 (10)	99	10/10	169 (10)	98	10/10	158 (10)	92	10/10
11-7	175 (10)	10/10	172 (10)	98	10/10	173 (10)	99	10/10	173 (10)	99	10/10	172 (10)	98	10/10	160 (10)	91	10/10
12-7	177 (10)	10/10	174 (10)	98	10/10	176 (10)	99	10/10	174 (10)	98	10/10	175 (10)	99	10/10	164 (10)	93	10/10
13-7	177 (10)	10/10	174 (10)	98	10/10	174 (10)	98	10/10	174 (10)	98	10/10	174 (10)	98	10/10	164 (10)	93	10/10

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

**TABLE D3**

**BODY WEIGHT CHANGES : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCrjCrj [F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 13  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day		1-7		2-7		3-7		4-7		5-7		6-7	
	0-0													
Control	113±	3	146±	7	179±	8	205±	9	226±	9	244±	9	257±	10
1.6ppm	113±	3	146±	5	179±	7	205±	8	226±	7	243±	9	257±	10
3.1ppm	113±	3	145±	5	179±	4	206±	6	228±	5	244±	5	260±	6
6.3ppm	113±	4	141±	5	172±	5*	197±	6*	217±	6*	233±	7**	249±	8
12.5ppm	113±	4	138±	6**	169±	6*	194±	7**	217±	9*	234±	10*	251±	10
25ppm	113±	3	128±	4**	154±	5**	174±	6**	194±	7**	209±	9**	226±	7**

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01    Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1J[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	267±	11	280±	12	287±	12	294±	12	300±	13	305±	11	307±	12				
1.6ppm	268±	9	280±	11	286±	10	295±	12	300±	11	306±	11	310±	11				
3.1ppm	272±	5	283±	5	293±	4	298±	5	305±	5	310±	7	312±	7				
6.3ppm	260±	7	271±	8	281±	10	288±	10	293±	11	300±	11	303±	11				
12.5ppm	261±	12	272±	13	282±	14	289±	15	295±	15	300±	16	304±	18				
25ppm	235±	9**	239±	8**	250±	10**	257±	10**	265±	9**	272±	10**	271±	12**				

Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01

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**TABLE D4**

**BODY WEIGHT CHANGES : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 13  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration		week-day		2-7		3-7		4-7		5-7		6-7	
	0-0		1-7											
Control	93±	4	110±	5	125±	5	132±	6	143±	6	150±	8	157±	9
1.6ppm	93±	4	108±	4	121±	4	130±	7	140±	8	146±	8	153±	7
3.1ppm	93±	4	110±	5	122±	6	132±	7	141±	7	147±	8	156±	11
6.3ppm	93±	4	109±	6	123±	7	132±	7	141±	7	148±	9	155±	10
12.5ppm	93±	4	104±	4**	119±	4**	128±	3*	138±	4	145±	4	153±	4
25ppm	93±	4	100±	4**	114±	3**	122±	3**	130±	4**	137±	4**	145±	5**

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

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STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	160±	10	164±	10	169±	11	172±	11	175±	12	177±	10	177±	11		
1.8ppm	158±	8	162±	8	167±	11	169±	11	172±	12	174±	11	174±	10		
3.1ppm	159±	10	163±	11	167±	11	170±	11	173±	9	176±	11	174±	10		
6.3ppm	159±	11	163±	11	166±	12	170±	11	173±	11	174±	11	174±	11		
12.5ppm	156±	5	161±	5	165±	5	169±	5	172±	5	175±	4	174±	5		
25ppm	148±	3**	151±	3**	155±	5**	158±	4**	160±	4**	164±	4**	164±	4**		

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

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**TABLE E1**

**FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS : MALE**



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 I3  
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control		1.6ppm			3.1ppm			6.3ppm			12.5ppm			25ppm		
	Av. FC.	No. of Surviv. <10>	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	15.7 (10)	10/10	15.3 (10)	97	10/10	14.9 (10)	95	10/10	14.4 (10)	92	10/10	13.3 (10)	85	10/10	11.4 (10)	73	10/10
2-7	18.1 (10)	10/10	17.5 (10)	97	10/10	17.5 (10)	97	10/10	16.6 (10)	92	10/10	16.1 (10)	89	10/10	14.1 (10)	78	10/10
3-7	18.9 (10)	10/10	18.3 (10)	97	10/10	18.4 (10)	97	10/10	17.8 (10)	94	10/10	17.2 (10)	91	10/10	14.8 (10)	78	10/10
4-7	19.2 (10)	10/10	18.0 (10)	94	10/10	18.5 (10)	96	10/10	17.7 (10)	92	10/10	17.7 (10)	92	10/10	15.4 (10)	80	10/10
5-7	19.4 (10)	10/10	18.0 (10)	93	10/10	18.6 (10)	96	10/10	18.0 (10)	93	10/10	17.9 (10)	92	10/10	15.8 (10)	81	10/10
6-7	18.7 (10)	10/10	17.9 (10)	96	10/10	18.3 (10)	98	10/10	17.6 (10)	94	10/10	17.9 (10)	96	10/10	16.3 (10)	87	10/10
7-7	18.2 (10)	10/10	17.8 (10)	98	10/10	17.9 (10)	98	10/10	17.5 (10)	96	10/10	17.7 (10)	97	10/10	15.7 (10)	86	10/10
8-7	17.8 (10)	10/10	17.3 (10)	97	10/10	18.0 (10)	101	10/10	17.5 (10)	98	10/10	17.6 (10)	99	10/10	15.4 (10)	87	10/10
9-7	17.4 (10)	10/10	17.5 (10)	101	10/10	18.0 (10)	103	10/10	17.6 (10)	101	10/10	17.7 (10)	102	10/10	15.9 (10)	91	10/10
10-7	17.5 (10)	10/10	17.3 (10)	99	10/10	17.4 (10)	99	10/10	17.0 (10)	97	10/10	17.4 (10)	99	10/10	15.7 (10)	90	10/10
11-7	17.4 (10)	10/10	17.2 (10)	99	10/10	17.6 (10)	101	10/10	16.9 (10)	97	10/10	17.1 (10)	98	10/10	16.2 (10)	93	10/10
12-7	17.1 (10)	10/10	16.8 (10)	98	10/10	16.8 (10)	98	10/10	16.8 (10)	98	10/10	16.6 (10)	97	10/10	16.0 (10)	94	10/10
13-7	16.0 (10)	10/10	16.4 (10)	103	10/10	16.4 (10)	103	10/10	16.5 (10)	103	10/10	16.3 (10)	102	10/10	15.2 (10)	95	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. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCr]  
 UNIT : g  
 REPORT TYPE : A1 13  
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control		1.6ppm			3.1ppm			6.3ppm			12.5ppm			25ppm		
	Av. FC.	No. of Surviv. <10>	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	11.9 (10)	10/10	11.9 (10)	100	10/10	11.7 (10)	98	10/10	11.4 (10)	96	10/10	10.2 (10)	86	10/10	9.4 (10)	79	10/10
2-7	12.6 (10)	10/10	12.3 (10)	98	10/10	11.9 (10)	94	10/10	12.6 (10)	100	10/10	11.3 (10)	90	10/10	10.5 (10)	83	10/10
3-7	12.0 (10)	10/10	11.9 (10)	99	10/10	12.1 (10)	101	10/10	12.1 (10)	101	10/10	11.5 (10)	96	10/10	11.0 (10)	92	10/10
4-7	12.3 (10)	10/10	12.1 (10)	98	10/10	12.3 (10)	100	10/10	12.4 (10)	101	10/10	11.9 (10)	97	10/10	10.7 (10)	87	10/10
5-7	12.7 (10)	10/10	12.1 (10)	95	10/10	12.2 (10)	96	10/10	12.9 (10)	102	10/10	12.0 (10)	94	10/10	11.5 (10)	91	10/10
6-7	12.2 (10)	10/10	11.9 (10)	98	10/10	13.1 (10)	107	10/10	12.7 (10)	104	10/10	12.0 (10)	98	10/10	11.5 (10)	94	10/10
7-7	12.2 (10)	10/10	12.0 (10)	98	10/10	11.7 ( 8)	96	10/10	12.0 (10)	98	10/10	11.7 (10)	96	10/10	10.9 (10)	89	10/10
8-7	11.7 (10)	10/10	11.7 (10)	100	10/10	11.8 (10)	101	10/10	11.7 (10)	100	10/10	11.6 (10)	99	10/10	10.7 (10)	91	10/10
9-7	11.8 (10)	10/10	11.9 (10)	101	10/10	11.9 (10)	101	10/10	11.7 (10)	99	10/10	11.9 (10)	101	10/10	11.2 (10)	95	10/10
10-7	12.0 (10)	10/10	12.0 (10)	100	10/10	12.5 (10)	104	10/10	11.5 (10)	96	10/10	11.7 (10)	98	10/10	11.4 (10)	95	10/10
11-7	12.1 (10)	10/10	12.0 (10)	99	10/10	12.2 (10)	101	10/10	11.9 (10)	98	10/10	12.2 (10)	101	10/10	11.5 (10)	95	10/10
12-7	11.4 (10)	10/10	11.0 (10)	96	10/10	11.9 (10)	104	10/10	10.9 (10)	96	10/10	11.2 (10)	98	10/10	11.5 (10)	101	10/10
13-7	11.2 (10)	10/10	10.9 (10)	97	10/10	11.4 (10)	102	10/10	11.2 (10)	100	10/10	11.1 (10)	99	10/10	11.1 (10)	99	10/10

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

**TABLE E3**

**FOOD CONSUMPTION CHANGES : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	15.7± 1.5	18.1± 1.7	18.9± 1.6	19.2± 1.7	19.4± 1.6	18.7± 1.9	18.2± 1.5
1.6ppm	15.3± 0.8	17.5± 1.2	18.3± 1.2	18.0± 0.8	18.0± 1.0*	17.9± 1.4	17.8± 1.0
3.1ppm	14.9± 1.0	17.5± 0.8	18.4± 0.9	18.5± 0.9	18.6± 0.6	18.3± 0.8	17.9± 0.8
6.3ppm	14.4± 0.9*	16.6± 0.8*	17.8± 1.3	17.7± 1.0*	18.0± 0.5*	17.6± 0.6	17.5± 0.6
12.5ppm	13.3± 1.2**	16.1± 1.7*	17.2± 1.7*	17.7± 1.5*	17.9± 1.6*	17.9± 1.3	17.7± 1.2
25ppm	11.4± 0.5**	14.1± 0.5**	14.8± 0.9**	15.4± 0.9**	15.8± 0.7**	16.3± 0.9**	15.7± 0.9**

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	17.8± 1.1	17.4± 0.5	17.5± 0.9	17.4± 1.4	17.1± 1.5	16.0± 1.6
1.6ppm	17.3± 1.1	17.5± 0.5	17.3± 1.2	17.2± 1.0	16.8± 0.9	16.4± 0.5
3.1ppm	18.0± 0.5	18.0± 0.6*	17.4± 0.4	17.6± 0.7	16.8± 0.6	16.4± 0.9
6.3ppm	17.5± 0.7	17.6± 0.9	17.0± 0.4	16.9± 0.6	16.8± 1.0	16.5± 0.6
12.5ppm	17.6± 1.2	17.7± 1.3	17.4± 1.4	17.1± 1.4	16.6± 1.0	16.3± 1.1
25ppm	15.4± 0.8**	15.9± 0.7**	15.7± 0.9**	16.2± 0.6*	16.0± 0.8	15.2± 1.0

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of t

**TABLE E4**

**FOOD CONSUMPTION CHANGES : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	11.9± 0.8	12.6± 1.2	12.0± 0.9	12.3± 0.9	12.7± 1.1	12.2± 0.9	12.2± 1.0
1.6ppm	11.9± 1.1	12.3± 0.9	11.9± 1.2	12.1± 1.0	12.1± 0.8	11.9± 0.8	12.0± 1.0
3.1ppm	11.7± 1.0	11.9± 0.7	12.1± 1.1	12.3± 0.9	12.2± 1.0	13.1± 2.5	11.7± 1.1
6.3ppm	11.4± 1.2	12.6± 1.8	12.1± 0.9	12.4± 1.1	12.9± 1.6	12.7± 2.1	12.0± 1.4
12.5ppm	10.2± 0.4**	11.3± 0.5**	11.5± 0.2	11.9± 0.6	12.0± 0.4	12.0± 0.6	11.7± 0.5
25ppm	9.4± 0.9**	10.5± 0.8**	11.0± 0.8*	10.7± 0.5**	11.5± 1.2*	11.5± 0.7*	10.9± 0.9**

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	11.7± 0.9	11.8± 0.8	12.0± 0.9	12.1± 1.0	11.4± 0.7	11.2± 0.6
1.6ppm	11.7± 1.0	11.9± 1.7	12.0± 1.5	12.0± 1.4	11.0± 0.8	10.9± 0.7
3.1ppm	11.8± 1.3	11.9± 1.2	12.5± 2.0	12.2± 1.2	11.9± 1.2	11.4± 0.7
6.3ppm	11.7± 1.2	11.7± 1.3	11.5± 0.7	11.9± 0.7	10.9± 0.8	11.2± 0.9
12.5ppm	11.6± 0.6	11.9± 0.5	11.7± 0.5	12.2± 1.0	11.2± 0.6	11.1± 0.6
25ppm	10.7± 0.5**	11.2± 0.9	11.4± 0.8	11.5± 1.1	11.5± 1.6	11.1± 1.6

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t

**TABLE F1**

**URINALYSIS : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE      REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Bilirubin				CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		+	2+
Control	10	0	0	0	0	1	1	8		4	3	3	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0
1.6ppm	10	0	0	0	1	0	2	7		1	5	3	1	0	0		10	0	0	0	0	0		9	0	0	1	0	0		10	0	0	0
3.1ppm	10	0	0	0	0	2	0	8		0	6	4	0	0	0		10	0	0	0	0	0		6	3	1	0	0	0		10	0	0	0
6.3ppm	10	0	0	0	1	0	1	8		1	7	2	0	0	0		10	0	0	0	0	0		8	2	0	0	0	0		10	0	0	0
12.5ppm	10	0	0	0	0	0	0	10		0	3	3	4	0	0	*	10	0	0	0	0	0		4	2	1	3	0	0		10	0	0	0
25ppm	10	0	0	0	0	0	1	9		0	4	4	2	0	0		10	0	0	0	0	0		5	2	1	2	0	0		10	0	0	0

Significant difference : \* : P ≤ 0.05      \*\* : P ≤ 0.01

Test of CHI SQUARE

(INCL1D1)

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	10	10	0	0	0	0		10	0	0	0	0	
1.6ppm	10	10	0	0	0	0		10	0	0	0	0	
3.1ppm	10	10	0	0	0	0		10	0	0	0	0	
6.3ppm	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	

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of CHI SQUARE

**TABLE F2**

**URINALYSIS : FEMALE**

STUDY NO. : 0932  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-	
Control	10	0	0	0	0	0	1	9	6	4	0	0	0	0	10	0	0	0	0	0	9	1	0	0	0	0	10	0	0	0		
1.6ppm	10	0	0	0	0	0	2	8	4	5	1	0	0	0	10	0	0	0	0	0	7	3	0	0	0	0	10	0	0	0		
3.1ppm	10	0	0	0	0	0	0	10	5	3	2	0	0	0	10	0	0	0	0	0	6	2	2	0	0	0	10	0	0	0		
6.3ppm	10	0	0	0	0	0	2	8	8	1	1	0	0	0	10	0	0	0	0	0	9	1	0	0	0	0	10	0	0	0		
12.5ppm	10	0	0	0	0	0	0	10	2	5	3	0	0	0	10	0	0	0	0	0	4	6	0	0	0	0	10	0	0	0		
25ppm	10	0	0	0	0	0	0	10	4	5	1	0	0	0	10	0	0	0	0	0	5	5	0	0	0	0	10	0	0	0		

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of CHI SQUARE

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuGr1Cr1j[F344/DuGrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	10	10	0	0	0	0		10	0	0	0	0	
1.6ppm	10	10	0	0	0	0		10	0	0	0	0	
3.1ppm	10	10	0	0	0	0		10	0	0	0	0	
6.3ppm	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	

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of CHI SQUARE

**TABLE G1**

**HEMATOLOGY : MALE**



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV fl	MCH pg	MCHC g/dl	PLATELET 10 <sup>9</sup> /μl
Control	10	9.65± 0.16	16.1± 0.3	46.1± 0.8	47.8± 0.6	16.7± 0.2	35.0± 0.2	740± 60
1.6ppm	10	9.42± 0.35	15.7± 0.6*	44.9± 1.5	47.7± 0.4	16.6± 0.1	34.9± 0.3	758± 80
3.1ppm	10	9.67± 0.19	16.0± 0.3	45.9± 1.0	47.5± 0.6	16.5± 0.2	34.8± 0.3	761± 34
6.3ppm	10	9.62± 0.17	15.9± 0.3	45.7± 0.8	47.5± 0.3	16.6± 0.2	34.9± 0.4	763± 56
12.6ppm	10	9.67± 0.12	16.0± 0.2	45.9± 0.4	47.4± 0.5	16.6± 0.2	34.9± 0.3	753± 79
25ppm	10	9.80± 0.30	16.2± 0.6	46.6± 1.4	47.6± 0.5	16.5± 0.2	34.8± 0.2*	781± 77

Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	RETICULOCYTE %		PROTHROMBIN TIME s e c		APTT s e c	
Control	10	2.6±	0.2	12.5±	0.8	16.0±	1.4
1.6ppm	10	2.8±	0.4	12.2±	0.5	15.8±	1.3
3.1ppm	10	2.7±	0.1	12.4±	0.5	15.9±	1.3
6.3ppm	10	2.6±	0.2	12.2±	0.3	16.1±	0.8
12.5ppm	10	2.8±	0.2	12.4±	0.8	15.6±	1.3
25ppm	10	2.6±	0.2	12.1±	0.3	15.1±	0.8

Significant difference : \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO	
		$10^3/\mu\ell$		NEUTRO		LYMPHO							
Control	10	4.76±	0.94	27.8±	6.1	64.3±	6.5	6.3±	0.8	1.4±	0.4	0.2±	0.1
1.6ppm	10	4.63±	0.83	29.1±	6.2	63.1±	6.5	6.2±	0.8	1.5±	0.3	0.2±	0.1
3.1ppm	10	4.98±	1.09	27.1±	3.8	65.3±	3.9	6.1±	0.7	1.3±	0.3	0.2±	0.1
6.3ppm	10	4.34±	0.86	28.0±	6.9	64.6±	6.8	5.7±	1.0	1.5±	0.2	0.2±	0.1
12.5ppm	10	4.48±	0.84	26.7±	4.6	66.0±	4.8	6.0±	0.8	1.2±	0.2	0.2±	0.1
25ppm	10	4.80±	1.00	26.0±	4.4	67.2±	5.3	5.5±	1.2	1.2±	0.2	0.2±	0.1

Significant difference : \* : P ≤ 0.05      \*\* : P ≤ 0.01

Test of t

**TABLE G2**

**HEMATOLOGY : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCrjCrj[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV fl	MCH Pg	MCHC g/dl	PLATELET 10 <sup>9</sup> /μl
Control	10	9.01± 0.17	16.1± 0.3	45.2± 0.7	50.2± 0.6	17.9± 0.3	35.6± 0.3	799± 41
1.6ppm	10	9.03± 0.13	16.1± 0.3	45.1± 0.6	50.0± 0.3	17.8± 0.2	35.6± 0.4	772± 69
3.1ppm	10	9.00± 0.22	16.2± 0.4	45.2± 1.0	50.2± 0.4	18.0± 0.2	35.8± 0.2	799± 36
6.3ppm	10	8.94± 0.25	16.0± 0.4	44.9± 1.1	50.2± 0.5	17.9± 0.2	35.7± 0.4	814± 56
12.5ppm	10	8.92± 0.13	16.0± 0.2	44.8± 0.6	50.2± 0.4	17.9± 0.2	35.7± 0.3	823± 44
25ppm	10	8.94± 0.24	16.0± 0.5	44.9± 1.2	50.3± 0.4	17.9± 0.2	35.6± 0.3	838± 43

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	RETICULOCYTE		PROTHROMBIN TIME		APTT	
		%		sec		sec	
Control	10	2.6±	0.2	11.8±	0.3	12.3±	0.6
1.6ppm	10	2.3±	0.4*	11.7±	0.3	12.2±	0.3
3.1ppm	10	2.3±	0.2*	11.8±	0.3	12.4±	0.2
6.3ppm	10	2.6±	0.3	11.7±	0.3	12.6±	0.5
12.5ppm	10	2.5±	0.2	11.9±	0.3	12.8±	0.8
25ppm	10	2.5±	0.3	11.9±	0.3	13.2±	1.5

Significant difference : \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO	
		10 <sup>9</sup> /μl		NEUTRO		LYMPHO							
Control	10	2.92±	0.87	25.6±	6.2	86.1±	6.5	6.7±	0.8	1.4±	0.5	0.2±	0.2
1.6ppm	10	3.02±	0.81	27.1±	4.9	55.0±	6.0	6.1±	1.5	1.4±	0.4	0.3±	0.1
3.1ppm	10	2.76±	0.78	23.6±	5.4	68.6±	6.0	6.1±	0.9	1.4±	0.4	0.3±	0.2
6.3ppm	10	2.93±	0.58	26.5±	5.2	65.8±	6.0	6.1±	1.0	1.3±	0.4	0.3±	0.1
12.6ppm	10	2.92±	0.58	24.1±	4.5	67.6±	4.8	6.6±	0.8	1.4±	0.3	0.3±	0.2
25ppm	10	3.03±	0.75	22.6±	3.7	69.5±	4.3	6.2±	1.3	1.5±	0.2	0.2±	0.2

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01    Test of t

**TABLE H1**

**BIOCHEMISTRY : MALE**



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	6.3±	0.1	3.5±	0.0	1.2±	0.0	0.04±	0.00	186±	18	73±	4	66±	16
1.6ppm	10	6.2±	0.2	3.4±	0.1*	1.2±	0.1	0.04±	0.01	188±	16	77±	11	58±	17
3.1ppm	10	6.2±	0.1	3.4±	0.1	1.2±	0.0	0.04±	0.01	194±	17	72±	4	64±	16
6.3ppm	10	6.2±	0.1	3.5±	0.1	1.3±	0.1	0.04±	0.00	196±	14	75±	5	64±	19
12.5ppm	10	6.2±	0.2	3.4±	0.1*	1.2±	0.1	0.04±	0.00	186±	11	72±	7	62±	13
25ppm	10	6.1±	0.2**	3.4±	0.1*	1.2±	0.1	0.04±	0.00	183±	16	69±	5	49±	14*

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr (Cr) [F344/DuCr]  
 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	129±	7	140±	48	72±	17	158±	57	346±	21	0.7±	0.6	102±	17
1.6ppm	10	129±	13	112±	39	56±	13*	121±	35	346±	21	0.6±	0.6	94±	16
3.1ppm	10	124±	6	108±	34	53±	11*	115±	44	350±	21	0.5±	0.6	97±	10
6.3ppm	10	126±	8	108±	33	57±	14*	126±	57	362±	29	0.5±	0.7	96±	14
12.5ppm	10	122±	10	114±	47	57±	15	140±	62	356±	17	0.8±	0.9	100±	23
25ppm	10	120±	7*	101±	50	49±	17**	119±	71	370±	41	0.7±	0.7	103±	14

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	17.5±	1.2	0.36±	0.03	145±	1	3.5±	0.2	106±	1	10.1±	0.2	5.3±	0.4
1.6ppm	10	18.2±	1.3	0.35±	0.02	144±	1	3.6±	0.2	105±	1	10.0±	0.2	5.3±	0.7
3.1ppm	10	19.3±	1.4**	0.35±	0.03	144±	1	3.6±	0.2	105±	1	10.1±	0.2	5.5±	0.6
6.3ppm	10	19.0±	0.8**	0.34±	0.04	144±	1	3.7±	0.3	105±	1	10.0±	0.1	5.4±	0.9
12.5ppm	10	19.0±	1.0**	0.34±	0.04	145±	1	3.8±	0.3	106±	1	10.1±	0.3	5.4±	0.7
25ppm	10	19.8±	1.5**	0.31±	0.03**	144±	2	3.8±	0.3	106±	2	9.9±	0.2	5.6±	0.6

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

**TABLE H2**

**BIOCHEMISTRY : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	TOTAL PROTEIN		ALBUMIN		A/G RATIO		T-BILIRUBIN		GLUCOSE		T-CHOLESTEROL		TRIGLYCERIDE	
		g/dl	g/dl	g/dl	g/dl			mg/dl	mg/dl	mg/dl	mg/dl	mg/dl	mg/dl	mg/dl	mg/dl
Control	10	6.2±	0.2	3.5±	0.1	1.2±	0.1	0.04±	0.01	145±	13	89±	7	18±	4
1.6ppm	9	6.2±	0.3	3.5±	0.2	1.3±	0.1	0.04±	0.01	148±	12	79±	6**	17±	3
3.1ppm	10	6.2±	0.1	3.4±	0.1	1.3±	0.1	0.04±	0.00	146±	12	86±	7	20±	3
6.3ppm	10	6.2±	0.2	3.5±	0.2	1.3±	0.1	0.04±	0.01	151±	10	87±	6	20±	4
12.5ppm	10	6.1±	0.2	3.4±	0.1	1.3±	0.1	0.04±	0.01	148±	11	86±	9	19±	4
25ppm	10	6.0±	0.2	3.3±	0.1**	1.3±	0.1	0.04±	0.01	144±	10	86±	4	20±	3

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01    Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE . REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS ( 14W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/d2		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	10	158±	12	89±	24	51±	31	102±	40	266±	18	1.1±	0.9	98±	22
1.6ppm	9	143±	10*	77±	12	42±	13	95±	28	298±	34*	0.9±	0.7	97±	14
3.1ppm	10	151±	13	73±	12	34±	6	84±	26	287±	35	1.2±	1.1	98±	18
6.3ppm	10	155±	11	75±	13	35±	9	108±	44	277±	16	1.0±	0.9	108±	26
12.5ppm	10	155±	15	67±	7*	32±	4	78±	27	301±	31**	0.9±	1.0	95±	16
25ppm	10	154±	8	67±	4*	30±	4	73±	25	309±	32**	1.0±	0.8	91±	15

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1J[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±	1.5	0.36±	0.02	145±	1	3.6±	0.3	107±	2	10.0±	0.1	4.8±	1.1
1.6ppm	9	19.7±	1.6	0.37±	0.02	145±	1	3.6±	0.3	107±	1	10.0±	0.2	5.0±	0.9
3.1ppm	10	20.5±	1.3	0.35±	0.03	145±	1	3.6±	0.3	107±	1	10.0±	0.2	5.3±	0.8
6.3ppm	10	20.1±	2.3	0.36±	0.04	145±	1	3.5±	0.2	107±	2	10.0±	0.4	4.9±	0.7
12.5ppm	10	19.1±	2.1	0.35±	0.03	145±	1	3.4±	0.3	106±	1	9.9±	0.2	5.1±	0.6
25ppm	10	19.1±	1.5	0.33±	0.04	144±	1	3.7±	0.3	106±	2	9.9±	0.2	5.3±	0.7

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

**TABLE I 1**

**GROSS FINDINGS : MALE**



STUDY NO. : 0902  
ANIMAL : RAT F344/DuCrj[Crj][F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		1.5ppm		3.1ppm		6.3ppm	
			10	(%)	10	(%)	10	(%)	10	(%)
lung	white zone		0	( 0)	1	( 10)	0	( 0)	0	( 0)
liver	herniation		0	( 0)	1	( 10)	1	( 10)	1	( 10)
kidney	nodule		0	( 0)	0	( 0)	0	( 0)	0	( 0)
eye	white		1	( 10)	0	( 0)	0	( 0)	0	( 0)

(HPT080)

BAIS6

STUDY NO. : 0902  
ANIMAL : RAT F344/DuCr1Cr1j(F344/DuCrj)  
REPORT TYPE : A1  
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	12.5ppm		25ppm	
			10	(%)	10	(%)
lung	white zone		0	( 0)	0	( 0)
liver	herniation		0	( 0)	1	( 10)
kidney	nodule		0	( 0)	1	( 10)
eye	white		0	( 0)	0	( 0)

(HPT080)

BAIS 8

**TABLE I 2**

**GROSS FINDINGS : FEMALE**

STUDY NO. : 0902  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name		1.6ppm		3.1ppm		6.3ppm	
		NO. of Animals	Control (%)	10 (%)	10 (%)	10 (%)	10 (%)		
liver	herniation		1 (10)	0 (0)		1 (10)		0 (0)	

(HPT080)

BAIS 6

STUDY NO. : 0902  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

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

Organ	Findings	Group Name NO. of Animals	12.5ppm		25ppm	
			10	(%)	10	(%)
Liver	herniation		2	( 20)	0	( 0)

(HPT080)

**TABLE J1**

**ORGAN WEIGHT, ABSOLUTE : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	285± 13	0.215± 0.018	0.050± 0.004	3.127± 0.155	0.886± 0.054	0.892± 0.056
1.6ppm	10	284± 10	0.217± 0.020	0.052± 0.007	3.231± 0.298	0.898± 0.043	0.929± 0.089
3.1ppm	10	287± 8	0.217± 0.024	0.052± 0.005	3.164± 0.070	0.926± 0.036	0.951± 0.050*
6.3ppm	10	279± 11	0.216± 0.021	0.050± 0.005	3.129± 0.129	0.874± 0.034	0.900± 0.047
12.5ppm	10	281± 16	0.195± 0.035	0.048± 0.003	3.088± 0.149	0.900± 0.059	0.901± 0.052
25ppm	10	248± 9**	0.180± 0.013**	0.049± 0.007	3.078± 0.119	0.837± 0.043*	0.870± 0.063

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01    Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	1.596±	0.088	0.544±	0.044	6.711±	0.462	1.390±	0.040
1.6ppm	10	1.643±	0.096	0.544±	0.029	6.716±	0.338	1.873±	0.070
3.1ppm	10	1.705±	0.053**	0.576±	0.024	6.911±	0.133	1.934±	0.044*
6.3ppm	10	1.635±	0.080	0.549±	0.017	6.824±	0.306	1.886±	0.048
12.5ppm	10	1.666±	0.071	0.558±	0.044	6.710±	0.429	1.902±	0.045
25ppm	10	1.621±	0.094	0.500±	0.035*	6.117±	0.259**	1.876±	0.043

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t



**TABLE J2**

**ORGAN WEIGHT, ABSOLUTE : FEMALE**



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr[Cr][F344/DuCr]  
 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	1.025±	0.043	0.386±	0.076	3.799±	0.241	1.749±	0.031
1.6ppm	10	1.050±	0.029	0.356±	0.025	3.793±	0.219	1.771±	0.034
3.1ppm	10	1.041±	0.066	0.357±	0.020	3.786±	0.232	1.762±	0.037
6.3ppm	10	1.038±	0.059	0.366±	0.021	3.746±	0.204	1.757±	0.038
12.5ppm	10	1.080±	0.043*	0.377±	0.022	3.809±	0.173	1.768±	0.022
25ppm	10	1.044±	0.045	0.346±	0.030	3.672±	0.156	1.758±	0.039

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t

**TABLE K1**

**ORGAN WEIGHT, RELATIVE : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	285 ± 13	0.076 ± 0.008	0.017 ± 0.001	1.097 ± 0.039	0.311 ± 0.011	0.313 ± 0.014
1.6ppm	10	284 ± 10	0.076 ± 0.007	0.018 ± 0.002	1.137 ± 0.096	0.316 ± 0.015	0.327 ± 0.027
3.1ppm	10	287 ± 6	0.076 ± 0.008	0.018 ± 0.002	1.103 ± 0.034	0.323 ± 0.012*	0.332 ± 0.016*
6.3ppm	10	279 ± 11	0.077 ± 0.007	0.018 ± 0.002	1.121 ± 0.058	0.313 ± 0.013	0.322 ± 0.018
12.5ppm	10	281 ± 16	0.069 ± 0.010	0.017 ± 0.001	1.100 ± 0.040	0.321 ± 0.017	0.320 ± 0.011
25ppm	10	248 ± 9**	0.073 ± 0.005	0.020 ± 0.002*	1.240 ± 0.042**	0.337 ± 0.014**	0.350 ± 0.018**

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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	0.560 ± 0.012	0.191 ± 0.011	2.351 ± 0.075	0.663 ± 0.022
1.6ppm	10	0.578 ± 0.026	0.191 ± 0.008	2.362 ± 0.060	0.659 ± 0.027
3.1ppm	10	0.595 ± 0.023**	0.201 ± 0.010*	2.409 ± 0.049	0.674 ± 0.021
6.3ppm	10	0.586 ± 0.026*	0.197 ± 0.007	2.443 ± 0.064**	0.676 ± 0.028
12.5ppm	10	0.593 ± 0.019**	0.198 ± 0.008	2.388 ± 0.054	0.678 ± 0.032
25ppm	10	0.653 ± 0.030**	0.201 ± 0.009*	2.463 ± 0.042**	0.756 ± 0.029**

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t

**TABLE K2**

**ORGAN WEIGHT, RELATIVE : FEMALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[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± 10	0.106± 0.007	0.031± 0.003	0.057± 0.009	0.355± 0.018	0.405± 0.025
1.6ppm	10	157± 9	0.112± 0.010	0.035± 0.004*	0.069± 0.010*	0.391± 0.016**	0.436± 0.025*
3.1ppm	10	159± 9	0.113± 0.012	0.034± 0.003*	0.060± 0.006	0.376± 0.023*	0.429± 0.022*
6.3ppm	10	158± 10	0.111± 0.011	0.034± 0.003**	0.062± 0.007	0.373± 0.013*	0.430± 0.017*
12.5ppm	10	159± 4	0.114± 0.009	0.034± 0.002**	0.067± 0.006**	0.380± 0.016**	0.437± 0.019**
25ppm	10	148± 3**	0.114± 0.011	0.035± 0.003**	0.064± 0.006*	0.388± 0.016**	0.453± 0.023**

Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01

Test of t



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCrjCrj[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	0.635 ± 0.018	0.239 ± 0.045	2.350 ± 0.077	1.085 ± 0.057
1.6ppm	10	0.669 ± 0.029**	0.227 ± 0.012	2.416 ± 0.098	1.131 ± 0.065
3.1ppm	10	0.655 ± 0.029	0.225 ± 0.010	2.378 ± 0.098	1.111 ± 0.070
6.3ppm	10	0.657 ± 0.031	0.232 ± 0.015	2.370 ± 0.072	1.115 ± 0.074
12.5ppm	10	0.680 ± 0.014**	0.238 ± 0.012	2.401 ± 0.079	1.115 ± 0.031
25ppm	10	0.704 ± 0.024**	0.233 ± 0.019	2.476 ± 0.096**	1.186 ± 0.026**

Significant difference : \* : P ≤ 0.05    \*\* : P ≤ 0.01

Test of t

**TABLE L1**

**HISTOPATHOLOGICAL FINDINGS :  
NON-NEOPLASTIC LESIONS : MALE**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study				Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
<b>[Respiratory system]</b>																					
nasal cavit			<10>				<10>				<10>				<10>						
	inflammatory cell nest		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)			
	inflammation: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)			
	inflammation: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)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)			
	respiratory metaplasia:gland		2 (20)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)			
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	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:olfactory cpithelium		0 (0)	0 (0)	0 (0)	0 (0)	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)	4 (40)	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrJ]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	12.5ppm				25ppm			
		1+	2+	3+	4+	1+	2+	3+	4+
		10				10			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)									
nasal cavity									
	inflammatory cell nest	<10>				<10>			
		1	0	0	0	1	0	0	0
		( 10)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	inflammation:respiratory epithelium	3	0	0	0	9	0	0	0 **
		( 30)	( 0)	( 0)	( 0)	( 90)	( 0)	( 0)	( 0)
	inflammation:olfactory epithelium	0	0	0	0	4	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
	respiratory metaplasia:olfactory epithelium	0	0	0	0	8	0	0	0 **
		( 0)	( 0)	( 0)	( 0)	( 80)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland	6	0	0	0	5	0	0	0
		( 60)	( 0)	( 0)	( 0)	( 50)	( 0)	( 0)	( 0)
	squamous cell metaplasia:respiratory epithelium	9	0	0	0 **	5	5	0	0 **
		( 90)	( 0)	( 0)	( 0)	( 50)	( 50)	( 0)	( 0)
	squamous cell metaplasia:olfactory epithelium	0	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
	regeneration:transitional epithelium	2	0	0	0	0	0	0	0
		( 20)	( 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

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study				Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
[Respiratory system]																					
nasal cavit																					
	regeneration:olfactory epithelium		<10>				<10>				<10>				<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)	( 0)	( 0)	( 0)	( 0)			
	atrophy:olfactory epithelium	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0			
		( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 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)	( 0)	( 0)			
	necrosis:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)			
	dysplasia: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)	( 0)	( 0)			
lung																					
	accumulation of foamy cells		<10>				<10>				<10>				<10>						
		0	0	0	0	1	0	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)			
[Digestive system]																					
liver																					
	herniation		<10>				<10>				<10>				<10>						
		0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0			
		( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)			

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

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study Grade	12.5ppm				25ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]										
nasal cavit			<10>				<10>			
	regeneration:olfactory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 40)	0 ( 0)	0 ( 0)	0 ( 0)
	atrophy:olfactory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	9 ( 90)	0 ( 0)	0 ( 0)	0 ** ( 0)
	necrosis:olfactory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)
	necrosis:respiratory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
	dysplasia:respiratory epithelium		8 ( 80)	0 ( 0)	0 ( 0)	0 ** ( 0)	0 ( 0)	9 ( 90)	0 ( 0)	0 ** ( 0)
lung			<10>				<10>			
	accumulation of foamy cells		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
[Digestive system]										
liver			<10>				<10>			
	herniation		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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Control No. of Animals on Study : 10				1.6ppm 10				3.1ppm 10				6.3ppm 10				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																		
liver	inflammatory cell nest		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	
	acidophilic cell focus	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)	
pancreas	atrophy		<10>				<10>				<10>				<10>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	
[Urinary system]																		
kidney	eosinophilic body		<10>				<10>				<10>				<10>			
		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)	
	mineralization:papilla	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)	
[Endocrine system]																		
thyroid	ultimobranchial body remnant		<10>				<10>				<10>				<10>			
		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)	( 0)	( 0)	( 0)	( 0)	

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

STUDY NO. : C902  
 ANIMAL : RAT F344/DuCr1Cr1][F344/DuCr1]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study	12.5ppm				25ppm			
			Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)
[Digestive system]										
liver	inflammatory cell nest		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	acidophilic cell focus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)
			<10>				<10>			
	mineralization: papilla		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	[Endocrine system]									
thyroid	ultimobranchial body remnant		<10>				<10>			
			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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 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>			
	cataract		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)	
	retinal atrophy		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)	
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	4 (40)	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]  
 REPORT TYPE : AI  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study Grade	12.5ppm				25ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
			<10>				<10>			
	cataract		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	retinal atrophy		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
Harder gl			<10>				<10>			
	lymphocytic infiltration		3 ( 30)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 40)	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 : 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**

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study				Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
<b>[Integumentary system/appandage]</b>																					
skin/app	epidermal cyst		<10>				<10>				<10>				<10>						
			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)			
<b>[Respiratory system]</b>																					
nasal cavit	inflammatory cell nest		<10>				<10>				<10>				<10>						
			5	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0			
			( 50)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)			
	inflammation: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)			
	inflammation: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)			
	respiratory metaplasia:gland		2	0	0	0	4	0	0	0	3	0	0	0	3	0	0	0			
			( 20)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)	( 30)	( 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)			

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

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	12.5ppm				25ppm			
		10				10			
Group Name No. of Animals on Study		1+	2+	3+	4+	1+	2+	3+	4+
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Integumentary system/appandage]									
skin/app	epidermal cyst	<10>				<10>			
		0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Respiratory system]									
nasal cavit	inflammatory cell nest	<10>				<10>			
		3	0	0	0	4	0	0	0
		( 30)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
	inflammation:respiratory epithelium	1	0	0	0	8	0	0	0 **
		( 10)	( 0)	( 0)	( 0)	( 80)	( 0)	( 0)	( 0)
	inflammation:olfactory epithelium	0	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 30)	( 0)	( 0)	( 0)
	respiratory metaplasia:olfactory epithelium	0	0	0	0	6	0	0	0 *
		( 0)	( 0)	( 0)	( 0)	( 60)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland	3	0	0	0	3	1	0	0
		( 30)	( 0)	( 0)	( 0)	( 30)	( 10)	( 0)	( 0)
	desquamation:olfactory epithelium	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS - NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
<b>[Respiratory system]</b>																		
nasal cavit			<10>				<10>				<10>				<10>			
	squamous cell metaplasia:respiratory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)
	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)	0 ( 0)	1 ( 10)
	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)	1 ( 10)	0 ( 0)	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)
	dysplasia:respiratory epithelium		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
lung			<10>				<10>				<10>				<10>			
	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)
<b>[Hematopoietic system]</b>																		
bone marrow			<10>				<10>				<10>				<10>			
	granulation		3 ( 30)	4 ( 40)	0 ( 0)	0 ( 0)	3 ( 30)	1 ( 10)	0 ( 0)	0 ( 0)	2 ( 20)	3 ( 30)	0 ( 0)	0 ( 0)	3 ( 30)	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	12.5ppm				25ppm			
		1+	2+	3+	4+	1+	2+	3+	4+
		10				10			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]									
nasal cavity		<10>				<10>			
	squamous cell metaplasia:respiratory epithelium	5 (50)	2 (20)	0 (0)	0 ** (0)	2 (20)	8 (80)	0 (0)	0 ** (0)
	regeneration:transitional epithelium	4 (40)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
	necrosis:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	dysplasia:respiratory epithelium	1 (10)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
lung		<10>				<10>			
	accumulation of foamy cells	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
[Hematopoietic system]									
bone marrow		<10>				<10>			
	granulation	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0802  
 ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study				Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
[Circulatory system]																					
heart	inflammatory cell nest		<10>				<10>				<10>				<10>						
		1	0	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)	( 0)			
[Digestive system]																					
liver	herniation		<10>				<10>				<10>				<10>						
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0			
		( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)			
	inflammatory cell nest	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0			
		( 30)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 0)			
pancreas	atrophy		<10>				<10>				<10>				<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)	( 0)	( 0)	( 0)	( 0)			
[Urinary system]																					
kidney	inflammatory infiltration		<10>				<10>				<10>				<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)	( 0)	( 0)	( 0)	( 0)			

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



STUDY NO. : 0902  
 ANIMAL : RAT F344/DuGr1Cr1j[F344/DuGrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	12.5ppm				25ppm			
		1+	2+	3+	4+	1+	2+	3+	4+
Group Name No. of Animals on Study		10				10			
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]									
heart	inflammatory cell nest	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
[Digestive system]									
liver	herniation	2 ( 20)	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)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)
pancreas	atrophy	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
[Urinary system]									
kidney	inflammatory infiltration	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCrjCrj[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				1.6ppm 10				3.1ppm 10				6.3ppm 10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Urinary system]																		
kidney	mineralization: papilla		<10>				<10>				<10>				<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)	
			1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
[Endocrine system]																		
pituitary	Rathke pouch		<10>				<10>				<10>				<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)	
			0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	
thyroid	ultimobranchial body remanet		<10>				<10>				<10>				<10>			
			0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)
			0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)	0 ( 0)	
[Special sense organs/appendage]																		
Harder gl	lymphocytic infiltration		<10>				<10>				<10>				<10>			
			5 ( 50)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)	
			5 ( 50)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)	0 ( 0)	0 ( 0)	0 ( 0)	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 : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0902  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrJ]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0- 14W)

Organ	Findings	12.5ppm				25ppm			
		10				10			
Group Name No. of Animals on Study		1+	2+	3+	4+	1+	2+	3+	4+
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]									
kidney	mineralization:papilla	<10>				<10>			
		0	0	0	0	2	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
[Endocrine system]									
pituitary	Rathke pouch	<10>				<10>			
		0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
thyroid	ultimobranchial body remanet	<10>				<10>			
		0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Special sense organs/appendage]									
Harder gl	lymphocytic infiltration	<10>				<10>			
		6	0	0	0	4	0	0	0
		( 60)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)

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