

4-クロロ-2-ニトロアニリンのラットを用いた
経口投与による 13 週間毒性試験（混餌試験）報告書

試験番号：0745

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FEMALE: ALL ANIMALS

TABLE A 1

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

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
640 ppm	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
1600 ppm	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
4000 ppm	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
7000 ppm	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
10000 ppm	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(%)															

(HAN360)

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TABLE A 2

SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

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
640 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1600 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000 ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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TABLE B 1

CLINICAL OBSERVATION: MALE

STUDY NO. : 0745
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
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	8	9	10	10	10	10	10	10	10
	1600 ppm	0	4	4	4	10	10	10	10	10	10	10	10	10
	4000 ppm	0	7	8	8	9	10	10	10	10	10	10	10	10
	7000 ppm	0	10	10	10	10	10	10	10	10	10	10	10	10
	10000 ppm	0	10	10	10	10	10	10	10	10	10	10	10	10
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	1600 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	4000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	7000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE B 2

CLINICAL OBSERVATION: FEMALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 2

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
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	3	3	3	4	4	5	5	5	5	5
	1600 ppm	7	5	5	5	5	5	6	6	7	7	7	9	10
	4000 ppm	5	3	4	6	8	8	10	10	10	10	10	10	10
	7000 ppm	4	9	9	9	10	10	10	10	10	10	10	10	10
	10000 ppm	4	8	10	10	10	10	10	10	10	10	10	10	10
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	1600 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	4000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	7000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
	10000 ppm	10	10	10	10	10	10	10	10	10	10	10	10	10
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	10	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	10	10	10	10	10	10	10	10	10	10	10	10	10
	640 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1600 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	7000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE C 1

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			640 ppm			1600 ppm			4000 ppm			7000 ppm			10000 ppm		
	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	118 (10)	10/10		118 (10)	100	10/10	118 (10)	100	10/10	118 (10)	100	10/10	118 (10)	100	10/10	118 (10)	100	10/10
1-7	148 (10)	10/10		148 (10)	100	10/10	148 (10)	100	10/10	146 (10)	98	10/10	142 (10)	96	10/10	133 (10)	90	10/10
2-7	182 (10)	10/10		181 (10)	99	10/10	181 (10)	99	10/10	174 (10)	96	10/10	173 (10)	95	10/10	161 (10)	88	10/10
3-7	209 (10)	10/10		210 (10)	100	10/10	207 (10)	99	10/10	204 (10)	98	10/10	197 (10)	94	10/10	186 (10)	89	10/10
4-7	232 (10)	10/10		233 (10)	100	10/10	228 (10)	98	10/10	225 (10)	97	10/10	216 (10)	93	10/10	204 (10)	88	10/10
5-7	249 (10)	10/10		250 (10)	100	10/10	246 (10)	99	10/10	244 (10)	98	10/10	232 (10)	93	10/10	221 (10)	89	10/10
6-7	264 (10)	10/10		263 (10)	100	10/10	260 (10)	98	10/10	258 (10)	98	10/10	243 (10)	92	10/10	232 (10)	88	10/10
7-7	279 (10)	10/10		276 (10)	99	10/10	276 (10)	99	10/10	270 (10)	97	10/10	254 (10)	91	10/10	242 (10)	87	10/10
8-7	291 (10)	10/10		288 (10)	99	10/10	288 (10)	99	10/10	282 (10)	97	10/10	264 (10)	91	10/10	250 (10)	86	10/10
9-7	301 (10)	10/10		298 (10)	99	10/10	299 (10)	99	10/10	293 (10)	97	10/10	274 (10)	91	10/10	258 (10)	86	10/10
10-7	309 (10)	10/10		307 (10)	99	10/10	308 (10)	100	10/10	301 (10)	97	10/10	281 (10)	91	10/10	267 (10)	86	10/10
11-7	316 (10)	10/10		314 (10)	99	10/10	316 (10)	100	10/10	308 (10)	97	10/10	287 (10)	91	10/10	270 (10)	85	10/10
12-7	324 (10)	10/10		320 (10)	99	10/10	324 (10)	100	10/10	316 (10)	98	10/10	292 (10)	90	10/10	276 (10)	85	10/10
13-7	328 (10)	10/10		325 (10)	99	10/10	329 (10)	100	10/10	320 (10)	98	10/10	297 (10)	91	10/10	279 (10)	85	10/10
< >:No. of effective animals, () :No. of measured animals																		
Av. Wt. : g																		

(B10040)

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TABLE C 2

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		640 ppm		No. of Surviv.	1600 ppm		No. of Surviv.	4000 ppm		No. of Surviv.	7000 ppm		No. of Surviv.	10000 ppm		No. of Surviv.
	Av. Wt.	No. of Surviv. <10>	Av. Wt.	% of cont. <10>		Av. Wt.	% of cont. <10>		Av. Wt.	% of cont. <10>		Av. Wt.	% of cont. <10>		Av. Wt.	% of cont. <10>	
0-0	96 (10)	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10
1-7	113 (10)	10/10	112 (10)	99	10/10	113 (10)	100	10/10	108 (10)	96	10/10	105 (10)	93	10/10	102 (10)	90	10/10
2-7	127 (10)	10/10	125 (10)	98	10/10	124 (10)	98	10/10	121 (10)	95	10/10	119 (10)	94	10/10	116 (10)	91	10/10
3-7	137 (10)	10/10	138 (10)	101	10/10	137 (10)	100	10/10	131 (10)	96	10/10	128 (10)	93	10/10	125 (10)	91	10/10
4-7	145 (10)	10/10	146 (10)	101	10/10	144 (10)	99	10/10	137 (10)	94	10/10	135 (10)	93	10/10	131 (10)	90	10/10
5-7	154 (10)	10/10	155 (10)	101	10/10	151 (10)	98	10/10	142 (10)	92	10/10	141 (10)	92	10/10	136 (10)	88	10/10
6-7	159 (10)	10/10	161 (10)	101	10/10	157 (10)	99	10/10	149 (10)	94	10/10	146 (10)	92	10/10	141 (10)	89	10/10
7-7	168 (10)	10/10	168 (10)	100	10/10	161 (10)	96	10/10	154 (10)	92	10/10	151 (10)	90	10/10	146 (10)	87	10/10
8-7	172 (10)	10/10	170 (10)	99	10/10	165 (10)	96	10/10	158 (10)	92	10/10	154 (10)	90	10/10	149 (10)	87	10/10
9-7	177 (10)	10/10	175 (10)	99	10/10	169 (10)	95	10/10	161 (10)	91	10/10	158 (10)	89	10/10	152 (10)	86	10/10
10-7	180 (10)	10/10	178 (10)	99	10/10	173 (10)	96	10/10	165 (10)	92	10/10	160 (10)	89	10/10	155 (10)	86	10/10
11-7	184 (10)	10/10	182 (10)	99	10/10	177 (10)	96	10/10	167 (10)	91	10/10	162 (10)	88	10/10	158 (10)	86	10/10
12-7	186 (10)	10/10	184 (10)	99	10/10	178 (10)	96	10/10	168 (10)	90	10/10	165 (10)	89	10/10	160 (10)	86	10/10
13-7	188 (10)	10/10	186 (10)	99	10/10	180 (10)	96	10/10	171 (10)	91	10/10	166 (10)	88	10/10	163 (10)	87	10/10
< >:No. of effective animals, () :No. of measured animals Av. Wt. : g																	

(B10040)

BAIS 4

TABLE C 3

BODY WEIGHT CHANGES: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	118±	3	148±	3	182±	5	209±	4	232±	4	249±	5	264±	6
640 ppm	118±	4	148±	7	181±	7	210±	7	233±	8	250±	9	263±	11
1600 ppm	118±	3	148±	5	181±	6	207±	8	228±	9	246±	9	260±	12
4000 ppm	118±	4	145±	7	174±	11	204±	10	225±	12	244±	12	258±	13
7000 ppm	118±	4	142±	5*	173±	6*	197±	6**	216±	6**	232±	8**	243±	8**
10000 ppm	118±	4	133±	5**	161±	7**	186±	8**	204±	10**	221±	10**	232±	10**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day									
	7-7		8-7		9-7		10-7		11-7		12-7	
Control	279±	7	291±	8	301±	8	309±	9	316±	8	324±	9
640 ppm	276±	11	288±	14	298±	13	307±	13	314±	13	320±	11
1600 ppm	276±	11	288±	11	299±	12	308±	12	316±	12	324±	13
4000 ppm	270±	16	282±	17	293±	19	301±	20	308±	21	316±	22
7000 ppm	254±	8**	264±	8**	274±	9**	281±	9**	287±	7**	292±	8**
10000 ppm	242±	11**	250±	11**	258±	12**	267±	11**	270±	11**	276±	12**

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

Test of Dunnett

(HAN260)

BATS 4

TABLE C 4

BODY WEIGHT CHANGES: FEMALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	0-0		1-7		2-7		3-7		4-7		5-7	
Control	96±	2	113±	3	127±	2	137±	4	145±	5	154±	7
640 ppm	96±	2	112±	4	125±	5	138±	6	146±	8	155±	8
1600 ppm	96±	2	113±	4	124±	5	137±	4	144±	5	151±	6
4000 ppm	96±	2	108±	3*	121±	3**	131±	4**	137±	3**	142±	4**
7000 ppm	96±	2	105±	3**	119±	4**	128±	4**	135±	4**	141±	3**
10000 ppm	96±	2	102±	3**	116±	3**	125±	3**	131±	3**	136±	4**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day													
	7-7		8-7		9-7		10-7		11-7		12-7		13-7			
Control	168±	8	172±	8	177±	10	180±	10	184±	9	186±	10	188±	9		
640 ppm	168±	10	170±	10	175±	10	178±	10	182±	11	184±	11	186±	10		
1600 ppm	161±	8	165±	8	169±	9	173±	10	177±	10	178±	11	180±	11		
4000 ppm	154±	5**	158±	6**	161±	6**	165±	7**	167±	8**	168±	7**	171±	8**		
7000 ppm	151±	3**	154±	4**	158±	5**	160±	5**	162±	5**	165±	4**	166±	6**		
10000 ppm	146±	5**	149±	4**	152±	4**	155±	5**	158±	5**	160±	5**	163±	6**		

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE D 1

FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			640 ppm			1600 ppm			4000 ppm			7000 ppm			10000 ppm		
	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	13.2 (10)	10/10		13.0 (10)	98	10/10	13.0 (10)	98	10/10	12.2 (10)	92	10/10	11.1 (10)	84	10/10	9.4 (10)	71	10/10
2-7	14.4 (10)	10/10		14.4 (10)	100	10/10	14.5 (10)	101	10/10	13.6 (10)	94	10/10	13.2 (10)	92	10/10	12.6 (10)	88	10/10
3-7	15.0 (10)	10/10		15.3 (10)	102	10/10	14.8 (10)	99	10/10	14.7 (10)	98	10/10	13.7 (10)	91	10/10	13.2 (10)	88	10/10
4-7	15.2 (10)	10/10		15.4 (10)	101	10/10	15.0 (10)	99	10/10	14.9 (10)	98	10/10	13.6 (10)	89	10/10	13.1 (10)	86	10/10
5-7	15.2 (10)	10/10		15.2 (10)	100	10/10	14.9 (10)	98	10/10	14.9 (10)	98	10/10	13.6 (10)	89	10/10	13.4 (10)	88	10/10
6-7	15.1 (10)	10/10		15.0 (10)	99	10/10	14.6 (10)	97	10/10	14.6 (10)	97	10/10	13.4 (10)	89	10/10	13.0 (10)	86	10/10
7-7	15.5 (10)	10/10		15.5 (10)	100	10/10	15.1 (10)	97	10/10	14.9 (10)	96	10/10	13.5 (10)	87	10/10	13.1 (10)	85	10/10
8-7	15.4 (10)	10/10		15.4 (10)	100	10/10	15.0 (10)	97	10/10	14.7 (10)	95	10/10	13.2 (10)	86	10/10	12.7 (10)	82	10/10
9-7	15.4 (10)	10/10		15.6 (10)	101	10/10	15.2 (10)	99	10/10	15.0 (10)	97	10/10	13.6 (10)	88	10/10	13.1 (10)	85	10/10
10-7	15.1 (10)	10/10		15.4 (10)	102	10/10	15.0 (10)	99	10/10	14.7 (10)	97	10/10	13.5 (10)	89	10/10	13.0 (10)	86	10/10
11-7	14.9 (10)	10/10		15.0 (10)	101	10/10	14.6 (10)	98	10/10	14.5 (10)	97	10/10	13.3 (10)	89	10/10	12.5 (10)	84	10/10
12-7	14.9 (10)	10/10		14.8 (10)	99	10/10	14.7 (10)	99	10/10	14.4 (10)	97	10/10	13.3 (10)	89	10/10	12.7 (10)	85	10/10
13-7	14.8 (10)	10/10		14.7 (10)	99	10/10	14.4 (10)	97	10/10	14.5 (10)	98	10/10	13.3 (10)	90	10/10	12.5 (10)	84	10/10

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

Av. FC. : g

(BI0040)

BAIS 4

TABLE D 2

FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			640 ppm			1600 ppm			4000 ppm			7000 ppm			10000 ppm		
	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	10.8 (10)	10/10		10.3 (10)	95	10/10	10.1 (10)	94	10/10	9.4 (10)	87	10/10	8.2 (10)	76	10/10	7.5 (10)	69	10/10
2-7	10.8 (10)	10/10		10.5 (10)	97	10/10	10.5 (10)	97	10/10	10.1 (10)	94	10/10	9.6 (10)	89	10/10	9.6 (10)	89	10/10
3-7	10.9 (10)	10/10		10.9 (10)	100	10/10	10.5 (10)	96	10/10	10.3 (10)	94	10/10	9.4 (10)	86	10/10	9.3 (10)	85	10/10
4-7	10.8 (10)	10/10		10.9 (10)	101	10/10	10.5 (10)	97	10/10	10.3 (10)	95	10/10	9.3 (10)	86	10/10	8.9 (10)	82	10/10
5-7	11.0 (10)	10/10		11.1 (10)	101	10/10	10.5 (10)	95	10/10	10.4 (10)	95	10/10	9.5 (10)	86	10/10	8.8 (10)	80	10/10
6-7	11.0 (10)	10/10		10.9 (10)	99	10/10	10.0 (10)	91	10/10	10.1 (10)	92	10/10	9.3 (10)	85	10/10	8.7 (10)	79	10/10
7-7	11.3 (10)	10/10		11.1 (10)	98	10/10	10.2 (10)	90	10/10	10.5 (10)	93	10/10	9.1 (9)	81	10/10	8.8 (10)	78	10/10
8-7	11.0 (10)	10/10		10.4 (10)	95	10/10	9.7 (10)	88	10/10	10.0 (10)	91	10/10	9.1 (10)	83	10/10	8.4 (10)	76	10/10
9-7	11.2 (10)	10/10		10.7 (10)	96	10/10	9.9 (10)	88	10/10	10.0 (10)	89	10/10	9.1 (10)	81	10/10	8.5 (10)	76	10/10
10-7	10.8 (10)	10/10		10.6 (10)	98	10/10	9.9 (10)	92	10/10	10.0 (10)	93	10/10	9.0 (10)	83	10/10	8.5 (10)	79	10/10
11-7	10.8 (10)	10/10		10.4 (10)	96	10/10	9.7 (10)	90	10/10	9.9 (10)	92	10/10	8.8 (10)	81	10/10	8.4 (10)	78	10/10
12-7	10.7 (10)	10/10		10.3 (10)	96	10/10	9.9 (10)	93	10/10	9.8 (10)	92	10/10	9.0 (10)	84	10/10	8.4 (10)	79	10/10
13-7	10.5 (10)	10/10		10.2 (10)	97	10/10	9.6 (10)	91	10/10	9.9 (10)	94	10/10	8.9 (10)	85	10/10	8.5 (10)	81	10/10

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

(BI0040)

BAIS 4

TABLE D 3

FOOD CONSUMPTION CHANGES: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	13.2± 0.7	14.4± 0.6	15.0± 0.6	15.2± 0.5	15.2± 0.7	15.1± 0.7	15.5± 0.8
640 ppm	13.0± 0.6	14.4± 0.8	15.3± 0.6	15.4± 0.6	15.2± 0.5	15.0± 0.9	15.5± 1.0
1600 ppm	13.0± 0.5	14.5± 0.6	14.8± 0.6	15.0± 0.5	14.9± 0.5	14.6± 0.5	15.1± 0.6
4000 ppm	12.2± 0.9**	13.6± 1.1*	14.7± 0.8	14.9± 0.9	14.9± 0.9	14.6± 0.7	14.9± 1.0
7000 ppm	11.1± 0.5**	13.2± 0.6**	13.7± 0.6**	13.6± 0.7**	13.6± 0.6**	13.4± 0.6**	13.5± 0.6**
10000 ppm	9.4± 0.7**	12.6± 0.5**	13.2± 0.7**	13.1± 0.7**	13.4± 0.6**	13.0± 0.7**	13.1± 0.8**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
Control	15.4± 0.7	15.4± 0.7	15.1± 0.6	14.9± 0.7	14.9± 0.8	14.8± 0.6
640 ppm	15.4± 0.8	15.6± 0.9	15.4± 0.8	15.0± 0.8	14.8± 0.8	14.7± 0.7
1600 ppm	15.0± 0.5	15.2± 0.6	15.0± 0.5	14.6± 0.5	14.7± 0.6	14.4± 0.6
4000 ppm	14.7± 1.0	15.0± 1.1	14.7± 1.0	14.5± 1.2	14.4± 0.9	14.5± 1.0
7000 ppm	13.2± 0.4**	13.6± 0.5**	13.5± 0.5**	13.3± 0.4**	13.3± 0.6**	13.3± 0.5**
10000 ppm	12.7± 0.8**	13.1± 0.8**	13.0± 0.8**	12.5± 0.7**	12.7± 0.6**	12.5± 0.5**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE D 4

FOOD CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective) 1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	10.8± 0.3	10.8± 0.4	10.9± 0.4	10.8± 0.5	11.0± 0.8	11.0± 0.7	11.3± 0.7
640 ppm	10.3± 0.4	10.5± 0.5	10.9± 0.8	10.9± 0.7	11.1± 0.8	10.9± 0.7	11.1± 0.7
1600 ppm	10.1± 0.5**	10.5± 0.5	10.5± 0.6	10.5± 0.7	10.5± 0.7	10.0± 0.6**	10.2± 0.7**
4000 ppm	9.4± 0.4**	10.1± 0.6*	10.3± 0.4*	10.3± 0.4	10.4± 0.5	10.1± 0.5*	10.5± 0.6*
7000 ppm	8.2± 0.5**	9.6± 0.5**	9.4± 0.4**	9.3± 0.5**	9.5± 0.8**	9.3± 0.7**	9.1± 0.3**
10000 ppm	7.5± 0.3**	9.6± 0.4**	9.3± 0.4**	8.9± 0.5**	8.8± 0.4**	8.7± 0.4**	8.8± 0.5**

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

Test of Dunnett

(HAN260)

BATS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
Control	11.0± 0.9	11.2± 0.8	10.8± 0.7	10.8± 0.4	10.7± 0.6	10.5± 0.6
640 ppm	10.4± 0.6	10.7± 0.6	10.6± 0.7	10.4± 0.8	10.3± 0.9	10.2± 0.7
1600 ppm	9.7± 0.8**	9.9± 0.9**	9.9± 1.0*	9.7± 1.1**	9.9± 1.0*	9.6± 1.0*
4000 ppm	10.0± 0.6**	10.0± 0.4**	10.0± 0.7*	9.9± 0.6**	9.8± 0.6*	9.9± 0.6
7000 ppm	9.1± 0.5**	9.1± 0.5**	9.0± 0.5**	8.8± 0.4**	9.0± 0.4**	8.9± 0.6**
10000 ppm	8.4± 0.4**	8.5± 0.4**	8.5± 0.3**	8.4± 0.4**	8.4± 0.3**	8.5± 0.4**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE E 1

CHEMICAL INTAKE CHANGES: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : $\mu\text{g}/\text{kg}/\text{d a y}$
 REPORT TYPE : A1 13
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)													
	1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
640 ppm	56±	1	51±	2	46±	1	42±	1	39±	1	37±	1	36±	1
1600 ppm	141±	3	128±	3	114±	3	105±	3	97±	3	90±	3	88±	2
4000 ppm	336±	13	311±	9	289±	8	265±	8	245±	5	227±	5	221±	6
7000 ppm	547±	14	531±	15	485±	14	440±	11	408±	9	386±	8	370±	11
10000 ppm	708±	30	784±	24	707±	25	642±	22	608±	12	561±	13	542±	16

(IAN300)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 UNIT : mg/kg/day
 REPORT TYPE : A1 13
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)											
	8		9		10		11		12		13	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
640 ppm	34±	1	33±	1	32±	1	30±	1	30±	1	29±	1
1600 ppm	83±	2	81±	3	78±	1	74±	2	73±	2	70±	2
4000 ppm	209±	6	205±	3	196±	4	189±	6	182±	3	182±	7
7000 ppm	349±	9	347±	11	336±	13	324±	13	318±	12	314±	10
10000 ppm	506±	15	507±	14	486±	19	461±	15	459±	13	450±	12

(HAN300)

BAIS 4

TABLE E 2

CHEMICAL INTAKE CHANGES: FEMALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : mg/kg/d a y
 REPORT TYPE : A1 13
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)													
	1	2	3	4	5	6	7							
Control	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0							
640 ppm	59± 2	54± 2	51± 2	48± 2	46± 2	43± 1	42± 2							
1600 ppm	144± 4	136± 8	123± 6	116± 6	112± 5	103± 5	101± 5							
4000 ppm	348± 6	335± 15	314± 12	299± 9	292± 12	271± 12	272± 12							
7000 ppm	549± 21	562± 19	515± 15	483± 17	471± 33	448± 31	421± 9							
10000 ppm	733± 36	828± 34	738± 25	681± 35	649± 30	613± 29	600± 31							

(HAN300)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : $\mu\text{g}/\text{kg}/\text{d a y}$
 REPORT TYPE : A1 13
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)											
	8		9		10		11		12		13	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
640 ppm	39±	2	39±	1	38±	1	36±	1	36±	2	35±	1
1600 ppm	94±	4	93±	5	92±	7	88±	7	89±	6	85±	6
4000 ppm	253±	9	250±	9	242±	10	237±	5	232±	9	232±	5
7000 ppm	413±	23	403±	17	393±	17	380±	16	379±	16	374±	20
10000 ppm	565±	26	558±	23	547±	18	532±	20	522±	14	521±	18

(IAN300)

BAIS 4

TABLE F 1

HEMATOLOGY: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	10	9.57±	0.09	15.7±	0.1	44.8±	0.5	46.8±	0.3	16.4±	0.1	35.0±	0.4	711±	61
640 ppm	10	9.48±	0.17	15.6±	0.3	44.6±	0.6	47.0±	0.4	16.5±	0.1	35.1±	0.3	746±	69
1600 ppm	10	9.51±	0.18	15.5±	0.2	44.4±	0.8	46.8±	0.3	16.3±	0.2	34.8±	0.4	785±	42*
4000 ppm	10	9.43±	0.34*	15.2±	0.6**	43.8±	1.6**	46.4±	0.4	16.2±	0.2**	34.8±	0.4	803±	76**
7000 ppm	10	9.15±	0.21**	14.7±	0.3**	42.7±	1.1**	46.7±	0.4	16.1±	0.2**	34.5±	0.4**	820±	43**
10000 ppm	10	9.09±	0.30**	14.8±	0.4**	42.9±	1.3**	47.2±	0.4	16.3±	0.2	34.5±	0.1**	843±	43**

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0745

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	10	1.7±	0.1	0.6±	0.1
640 ppm	10	1.7±	0.1	0.5±	0.2
1600 ppm	10	1.8±	0.2	0.6±	0.1
4000 ppm	10	2.3±	0.2**	0.7±	0.2
7000 ppm	10	2.5±	0.3**	0.7±	0.1
10000 ppm	10	2.6±	0.3**	0.9±	0.2**

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

Test of Dunnett

(HCL070)

BATS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 1 O ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	7.22±	1.28	22±	4	74±	5	2±	1	1±	0	0±	0	1±	0
640 ppm	10	7.74±	1.61	21±	4	75±	4	2±	1	1±	0	0±	0	1±	0
1600 ppm	10	7.60±	1.85	23±	5	73±	5	2±	0	1±	0	0±	0	1±	0
4000 ppm	10	7.40±	1.17	21±	2	75±	2	2±	0	1±	0	0±	0	1±	0
7000 ppm	10	7.84±	1.84	21±	2	75±	2	2±	0	1±	0	0±	0	1±	0
10000 ppm	10	7.56±	1.54	20±	2	76±	3	2±	0	1±	0	0±	0	1±	0

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

Test of Dunnett

(HCL070)

BATS 4

TABLE F 2

HEMATOLOGY: FEMALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	10	8.70±	0.20	15.5±	0.3	42.7±	0.9	49.1±	0.3	17.8±	0.2	36.3±	0.3	794±	54
640 ppm	10	8.65±	0.22	15.4±	0.4	42.4±	1.0	49.0±	0.2	17.7±	0.2	36.2±	0.3	826±	37
1600 ppm	10	8.52±	0.15	15.1±	0.3*	41.8±	0.9	49.1±	0.5	17.7±	0.1	36.2±	0.4	879±	26**
4000 ppm	10	8.23±	0.19**	14.5±	0.3**	40.9±	0.9**	49.7±	0.3**	17.6±	0.1*	35.4±	0.4**	879±	47**
7000 ppm	10	8.03±	0.20**	13.9±	0.3**	40.1±	0.9**	49.9±	0.4**	17.3±	0.2**	34.7±	0.3**	937±	44**
10000 ppm	10	8.17±	0.22**	14.1±	0.3**	40.9±	1.1**	50.1±	0.5**	17.3±	0.2**	34.5±	0.3**	945±	63**

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

Test of Dunnett

(ICL070)

BAIS 4

STUDY NO. : 0745

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %		METHEMOGLOBIN %	
Control	10	1.5±	0.1	0.7±	0.2
640 ppm	10	1.7±	0.2	0.7±	0.2
1600 ppm	10	2.1±	0.4**	0.7±	0.2
4000 ppm	10	2.4±	0.2**	0.9±	0.2
7000 ppm	10	3.7±	0.6**	1.0±	0.1*
10000 ppm	10	4.0±	0.5**	1.0±	0.3*

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC 1 O ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	4.54±	0.56	21±	2	74±	2	3±	1	1±	0	0±	0	1±	0
640 ppm	10	4.38±	1.02	20±	4	76±	4	2±	0	1±	0	0±	0	1±	0
1600 ppm	10	4.51±	1.05	23±	8	73±	8	2±	0	1±	0	0±	0	1±	0
4000 ppm	10	4.63±	0.99	19±	3	77±	3	2±	0**	1±	0	0±	0	1±	1
7000 ppm	10	5.29±	0.85	19±	3	78±	3	2±	0*	1±	0	0±	0	1±	0
10000 ppm	10	5.58±	1.09	18±	3	78±	3	2±	0**	1±	0	0±	0	2±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BATS 4

TABLE G 1

BIOCHEMISTRY: MALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 1

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	6.6±	0.2	3.4±	0.1	1.1±	0.0	0.10±	0.01	178±	10	61±	4	60±	13
640 ppm	10	6.7±	0.1	3.6±	0.0**	1.1±	0.1	0.11±	0.01	176±	11	72±	5**	66±	24
1600 ppm	10	6.9±	0.2**	3.7±	0.1**	1.1±	0.1	0.10±	0.01	186±	12	83±	6**	75±	25
4000 ppm	10	7.2±	0.2**	3.9±	0.1**	1.2±	0.1	0.12±	0.01**	182±	6	108±	7**	66±	25
7000 ppm	10	7.3±	0.1**	3.9±	0.1**	1.2±	0.1	0.14±	0.01**	179±	10	112±	8**	52±	19
10000 ppm	10	7.4±	0.2**	4.0±	0.1**	1.2±	0.0**	0.14±	0.01**	172±	10	113±	8**	38±	13

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST I U / l		ALT I U / l		LDH I U / l		ALP I U / l		G-GTP I U / l		CK I U / l	
Control	10	114±	7	144±	33	72±	13	166±	41	396±	36	1±	0	105±	19
640 ppm	10	128±	8*	119±	45	60±	18	137±	38	361±	27*	1±	1	97±	12
1600 ppm	10	145±	9**	112±	32	59±	12	137±	46	345±	17**	1±	1	103±	13
4000 ppm	10	177±	16**	103±	34*	55±	16*	131±	44	308±	25**	1±	1	93±	19
7000 ppm	10	180±	14**	90±	30**	43±	11**	121±	50	293±	26**	1±	1	93±	28
10000 ppm	10	183±	14**	71±	16**	34±	6**	94±	28**	282±	31**	2±	1	88±	16

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0745

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 3

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	18.9±	1.1	0.5±	0.0	142±	1	3.6±	0.3	106±	1	10.4±	0.2	5.4±	0.8
640 ppm	10	18.8±	1.1	0.5±	0.0	142±	1	3.7±	0.2	105±	1	10.4±	0.2	5.4±	0.7
1600 ppm	10	19.3±	1.1	0.5±	0.0	142±	0	3.8±	0.3	105±	1	10.7±	0.1**	5.5±	0.6
4000 ppm	10	21.5±	1.6**	0.6±	0.1	141±	1	3.8±	0.3	105±	1	10.8±	0.1**	5.4±	0.6
7000 ppm	10	21.9±	1.5**	0.6±	0.0	142±	1	3.8±	0.2	104±	1	10.9±	0.1**	5.4±	0.4
10000 ppm	10	21.8±	2.1**	0.6±	0.1	142±	1	3.8±	0.2	104±	1*	11.0±	0.3**	5.3±	0.4

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE G 2

BIOCHEMISTRY: FEMALE

STUDY NO. : 0745

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 4

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	3.4±	0.1	1.2±	0.1	0.11±	0.01	141±	14	67±	6	14±	4
640 ppm	10	6.4±	0.2	3.5±	0.1	1.2±	0.1	0.11±	0.01	148±	11	80±	6**	16±	5
1600 ppm	10	6.7±	0.2**	3.6±	0.1**	1.2±	0.1	0.13±	0.01**	152±	6	95±	6**	17±	4
4000 ppm	10	6.8±	0.2**	3.7±	0.1**	1.2±	0.0	0.17±	0.02**	145±	12	116±	10**	14±	3
7000 ppm	10	6.9±	0.2**	3.8±	0.1**	1.2±	0.1	0.20±	0.03**	150±	7	124±	12**	15±	4
10000 ppm	10	6.9±	0.2**	3.8±	0.1**	1.2±	0.1	0.17±	0.01**	147±	5	126±	10**	13±	2

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ		AST I U / ℓ		ALT I U / ℓ		LDH I U / ℓ		ALP I U / ℓ		G-GTP I U / ℓ		CK I U / ℓ	
Control	10	131±	12	74±	6	37±	7	91±	22	271±	28	1±	0	100±	15
640 ppm	10	149±	11*	74±	13	39±	8	96±	16	259±	22	1±	0	97±	12
1600 ppm	10	166±	13**	83±	16	43±	8	113±	31	251±	26	2±	0	100±	13
4000 ppm	10	187±	15**	84±	33	48±	21	116±	39	233±	28**	2±	1	101±	15
7000 ppm	10	191±	18**	72±	15	33±	8	107±	21	233±	15**	2±	1**	90±	14
10000 ppm	10	194±	13**	64±	8	32±	3	101±	19	260±	32	2±	1**	94±	19

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

Test of Dunnett

(HCL074)

BALS 4

STUDY NO. : 0745

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 6

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	16.4±	2.3	0.6±	0.1	142±	1	3.5±	0.2	107±	1	10.0±	0.3	4.7±	1.1
640 ppm	10	17.9±	1.9	0.6±	0.1	142±	1	3.3±	0.2	107±	1	10.1±	0.2	4.4±	1.1
1600 ppm	10	18.6±	1.7	0.5±	0.0	143±	1	3.4±	0.3	106±	2	10.3±	0.1**	4.8±	1.1
4000 ppm	10	18.3±	1.2	0.6±	0.0	142±	1	3.4±	0.3	107±	1	10.3±	0.2**	4.5±	1.0
7000 ppm	10	21.0±	1.9**	0.6±	0.0	142±	1	3.4±	0.3	107±	2	10.4±	0.1**	4.8±	0.6
10000 ppm	10	22.3±	3.3**	0.5±	0.0	142±	1	3.8±	0.3	106±	2	10.6±	0.2**	5.0±	0.4

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE H 1

URINALYSIS: MALE

Urinalysis of male rats

In the dosed groups, pH, protein, ketone body and bilirubin could not be measured by urine test paper in some animals, because their urine were colored by metabolite of test substance.

The inspection items and number of animals that could not be measured are shown as followed.

pH: 4000 ppm(1), 7000 ppm(6), 10000 ppm(9)

Protein: 1600 ppm(5), 4000 ppm(9), 7000 ppm and 10000 ppm(10)

Ketone body: 1600 ppm(1), 4000 ppm(5), 7000 ppm(7), 10000 ppm(10)

Bilirubin: 1600 ppm(6), 4000 ppm(9), 7000 ppm and 10000 ppm(10)

Therefore, pH and ketone body in 10000 ppm dosed group, protein and bilirubin in 4000 ppm and above dosed groups could not be evaluated.

STUDY NO. : 0745

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 1

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	0	2	8		0	0	6	4	0	0		10	0	0	0	0	0		1	9	0	0	0	0		10	0	0	0
640 ppm	10	0	0	0	0	0	8	2	**	0	0	9	1	0	0		10	0	0	0	0	0		2	8	0	0	0	0		10	0	0	0
1600 ppm	10	0	0	0	0	1	9	0	**	0	1	4	0	0	0		10	0	0	0	0	0		1	8	0	0	0	0		4	0	0	0
4000 ppm	10	0	0	0	0	1	8	0	**	0	1	0	0	0	0	?	10	0	0	0	0	0		1	4	0	0	0	0		1	0	0	0
7000 ppm	10	0	0	0	0	0	4	0	**	0	0	0	0	0	0		10	0	0	0	0	0		0	3	0	0	0	0		0	0	0	0
10000 ppm	10	0	0	0	0	0	1	0	?	0	0	0	0	0	0		10	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0

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

Test of CHI SQUARE

? : Significant test is not applied, because No. of data in this group is less than 3.

(HCL101)

BAIS4

STUDY NO. : 0745

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	10	10	0	0	0	0	0	10	0	0	0	0	0
640 ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
1600 ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
4000 ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
7000 ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
10000 ppm	10	10	0	0	0	0	0	10	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 4

TABLE H 2

URINALYSIS: FEMALE

Urinalysis of female rats

In the dosed groups, pH, protein, ketone body and bilirubin could not be measured by urine test paper in some animals, because their urine were colored by metabolite of test substance.

The inspection items and number of animals that could not be measured are shown as followed.

pH: 7000 ppm(1), 10000 ppm(2)

Protein: 4000 ppm(8), 7000 ppm and 10000 ppm(10)

Ketone body: 1600 ppm(1), 4000 ppm(7), 7000 ppm and 10000 ppm(10)

Bilirubin: 1600 ppm(1), 4000 ppm(6), 7000 ppm and 10000 ppm(10)

Therefore, protein in 4000 ppm and above dosed groups, ketone body and bilirubin in 7000 ppm and above dosed groups could not be evaluated.

STUDY NO. : 0745

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 3

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	0	4	6		0	2	8	0	0	0		10	0	0	0	0	0		7	3	0	0	0	0		10	0	0	0
640 ppm	10	0	0	0	0	1	5	4		0	7	3	0	0	0	*	10	0	0	0	0	0		8	2	0	0	0	0		10	0	0	0
1600 ppm	10	0	0	0	0	1	6	3		0	7	3	0	0	0	*	10	0	0	0	0	0		6	3	0	0	0	0		9	0	0	0
4000 ppm	10	0	0	0	0	0	5	5		0	1	1	0	0	0	?	10	0	0	0	0	0		3	0	0	0	0	0		4	0	0	0
7000 ppm	10	0	0	0	0	2	3	4		0	0	0	0	0	0		10	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0
10000 ppm	10	0	0	0	0	0	5	3		0	0	0	0	0	0		10	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0

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

Test of CHI SQUARE

? : Significant test is not applied, because No. of data in this group is less than 3.

(HCL101)

BAIS 4

STUDY NO. : 0745

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					Urobilinogen						
		-	±	+	2+	3+	CHI	±	+	2+	3+	4+	CHI
Control	10	10	0	0	0	0		10	0	0	0	0	
640 ppm	10	10	0	0	0	0		10	0	0	0	0	
1600 ppm	10	10	0	0	0	0		10	0	0	0	0	
4000 ppm	10	10	0	0	0	0		10	0	0	0	0	
7000 ppm	10	10	0	0	0	0		10	0	0	0	0	
10000 ppm	10	10	0	0	0	0		10	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

TABLE I 1

GROSS FINDINGS: MALE: ALL ANIMALS

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name	Control	640 ppm	1600 ppm	4000 ppm
		NO. of Animals	10 (%)	10 (%)	10 (%)	10 (%)
liver	herniation		0 (0)	2 (20)	2 (20)	1 (10)

(HPT080)

BAIS 4

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name	7000 ppm	10000 ppm
		NO. of Animals	10 (%)	10 (%)
liver	herniation		1 (10)	0 (0)

(HPT080)

BAIS 4

TABLE I 2

GROSS FINDINGS: FEMALE: ALL ANIMALS

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	640 ppm 10 (%)	1600 ppm 10 (%)	4000 ppm 10 (%)
liver	herniation		1 (10)	0 (0)	1 (10)	2 (20)
ovary	cyst		0 (0)	1 (10)	0 (0)	0 (0)

(HPT080)

BAIS 4

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name	7000 ppm		10000 ppm	
		NO. of Animals	10	(%)	10	(%)
liver	herniation		0	(0)	1	(10)
ovary	cyst		0	(0)	0	(0)

(IPT080)

BATS 4

TABLE J 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		TESTES		HEART		LUNGS	
Control	10	309±	7	0.244±	0.021	0.049±	0.003	3.134±	0.131	0.963±	0.046	0.976±	0.049
640 ppm	10	304±	11	0.247±	0.026	0.051±	0.004	3.157±	0.071	0.944±	0.044	0.974±	0.054
1600 ppm	10	307±	15	0.229±	0.020	0.052±	0.005	3.253±	0.104	0.969±	0.042	0.966±	0.051
4000 ppm	10	299±	21	0.221±	0.021	0.051±	0.004	3.335±	0.292	0.906±	0.054*	0.945±	0.039
7000 ppm	10	276±	9**	0.200±	0.016**	0.050±	0.002	3.317±	0.162*	0.876±	0.031**	0.919±	0.042*
10000 ppm	10	258±	9**	0.184±	0.016**	0.048±	0.003	3.294±	0.096*	0.826±	0.046**	0.873±	0.050**

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	10	1.906±	0.070	0.607±	0.032	7.478±	0.264	1.916±	0.037
640 ppm	10	1.891±	0.091	0.605±	0.030	7.932±	0.530	1.937±	0.059
1600 ppm	10	1.965±	0.081	0.607±	0.037	8.811±	0.455**	1.949±	0.057
4000 ppm	10	1.982±	0.160	0.626±	0.059	9.703±	0.883**	1.908±	0.039
7000 ppm	10	1.946±	0.092	0.615±	0.032	9.451±	0.360**	1.903±	0.053
10000 ppm	10	1.879±	0.100	0.604±	0.019	9.228±	0.483**	1.882±	0.039

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE J 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	176± 9	0.204± 0.030	0.056± 0.004	0.126± 0.012	0.651± 0.027	0.722± 0.024
640 ppm	10	173± 9	0.194± 0.027	0.057± 0.006	0.137± 0.058	0.646± 0.061	0.719± 0.059
1600 ppm	10	167± 9*	0.183± 0.020	0.056± 0.004	0.116± 0.013	0.622± 0.035	0.709± 0.022
4000 ppm	10	157± 7**	0.185± 0.023	0.056± 0.006	0.111± 0.020	0.609± 0.028*	0.703± 0.047
7000 ppm	10	152± 5**	0.177± 0.018	0.054± 0.005	0.109± 0.013	0.583± 0.024**	0.669± 0.028**
10000 ppm	10	150± 5**	0.161± 0.016**	0.052± 0.005	0.100± 0.016**	0.556± 0.025**	0.658± 0.041**

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

Test of Dunnett

(HCL040)

BATS 4

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	10	1.180±	0.044	0.412±	0.024	4.096±	0.185	1.788±	0.042
640 ppm	10	1.177±	0.067	0.398±	0.031	4.219±	0.302	1.789±	0.060
1600 ppm	10	1.148±	0.037	0.423±	0.027	4.401±	0.215*	1.778±	0.024
4000 ppm	10	1.145±	0.061	0.447±	0.022*	4.899±	0.259**	1.775±	0.047
7000 ppm	10	1.094±	0.047**	0.495±	0.021**	5.213±	0.169**	1.758±	0.032
10000 ppm	10	1.079±	0.042**	0.515±	0.026**	5.602±	0.180**	1.726±	0.031**

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE K 1

ORGAN WEIGHT, RELATIVE: MALE

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	309± 7	0.079± 0.006	0.016± 0.001	1.014± 0.036	0.312± 0.014	0.316± 0.012
640 ppm	10	304± 11	0.081± 0.006	0.017± 0.001	1.039± 0.029	0.310± 0.010	0.320± 0.013
1600 ppm	10	307± 15	0.074± 0.005	0.017± 0.001	1.062± 0.047	0.316± 0.010	0.315± 0.012
4000 ppm	10	299± 21	0.074± 0.009	0.017± 0.002	1.120± 0.099**	0.304± 0.012	0.317± 0.015
7000 ppm	10	276± 9**	0.072± 0.005	0.018± 0.001**	1.203± 0.064**	0.317± 0.011	0.333± 0.009*
10000 ppm	10	258± 9**	0.071± 0.006*	0.019± 0.001**	1.278± 0.036**	0.320± 0.013	0.339± 0.012**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.616± 0.020	0.196± 0.010	2.420± 0.082	0.620± 0.010
640 ppm	10	0.622± 0.023	0.199± 0.006	2.607± 0.123**	0.637± 0.020
1600 ppm	10	0.641± 0.016	0.198± 0.008	2.872± 0.092**	0.636± 0.031
4000 ppm	10	0.664± 0.025**	0.210± 0.009**	3.247± 0.106**	0.642± 0.043
7000 ppm	10	0.705± 0.019**	0.223± 0.007**	3.424± 0.079**	0.690± 0.019**
10000 ppm	10	0.729± 0.039**	0.234± 0.011**	3.577± 0.122**	0.730± 0.022**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE K 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0745
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	176± 9	0.115± 0.014	0.032± 0.003	0.072± 0.007	0.370± 0.012	0.410± 0.020
640 ppm	10	173± 9	0.112± 0.013	0.033± 0.003	0.078± 0.029	0.373± 0.019	0.415± 0.027
1600 ppm	10	167± 9*	0.110± 0.008	0.034± 0.003	0.069± 0.007	0.373± 0.020	0.425± 0.020
4000 ppm	10	157± 7**	0.117± 0.012	0.036± 0.003*	0.070± 0.011	0.387± 0.011	0.447± 0.022**
7000 ppm	10	152± 5**	0.116± 0.010	0.035± 0.003	0.072± 0.009	0.383± 0.013	0.439± 0.011*
10000 ppm	10	150± 5**	0.108± 0.010	0.034± 0.003	0.067± 0.010	0.372± 0.017	0.440± 0.023*

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.670± 0.016	0.234± 0.013	2.324± 0.067	1.016± 0.057
640 ppm	10	0.680± 0.034	0.230± 0.012	2.433± 0.090*	1.034± 0.051
1600 ppm	10	0.688± 0.036	0.253± 0.015*	2.634± 0.099**	1.066± 0.052
4000 ppm	10	0.727± 0.017**	0.284± 0.008**	3.112± 0.060**	1.129± 0.050**
7000 ppm	10	0.718± 0.019**	0.325± 0.013**	3.421± 0.066**	1.154± 0.040**
10000 ppm	10	0.722± 0.018**	0.345± 0.021**	3.749± 0.122**	1.155± 0.028**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: MALE: ALL ANIMALS

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

		Group Name	Control				640 ppm				1600 ppm				4000 ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<10>				<10>				<10>				<10>			
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			<10>				<10>				<10>				<10>			
	accumulation of foamy cells		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)
{Hematopoietic system}																		
bone marrow			<10>				<10>				<10>				<10>			
	erythropoiesis:increased		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		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)
	extramedullary hematopoiesis		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	
			<10>				<10>				<10>				<10>			
	engorgement of erythrocyte		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 : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

		7000 ppm					10000 ppm				
		No. of Animals on Study					No. of Animals on Study				
		Grade					Grade				
Organ	Findings	1	2	3	4	1	2	3	4		
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		
{Respiratory system}											
nasal cavit		<10>				<10>					
	mineralization	0	0	0	0	0	0	0	0		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
lung		<10>				<10>					
	accumulation of foamy cells	0	0	0	0	0	0	0	0		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
{Hematopoietic system}											
bone marrow		<10>				<10>					
	erythropoiesis:increased	1	0	0	0	4	0	0	0		
		(10)	(0)	(0)	(0)	(40)	(0)	(0)	(0)		
spleen		<10>				<10>					
	deposit of hemosiderin	3	7	0	0 **	0	10	0	0 **		
		(30)	(70)	(0)	(0)	(0)	(100)	(0)	(0)		
		<10>				<10>					
	extramedullary hematopoiesis	7	0	0	0 **	10	0	0	0 **		
		(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)		
		<10>				<10>					
	engorgement of erythrocyte	3	0	0	0	8	0	0	0 **		
		(30)	(0)	(0)	(0)	(80)	(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 ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Control				640 ppm				1600 ppm				4000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		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>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																	
liver	herniation	<10>				<10>				<10>				<10>			
		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	hepatocellular hypertrophy:central	<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)
{Urinary system}																	
kidney	eosinophilic body	<10>				<10>				<10>				<10>			
		0	10	0	0	0	10	0	0	0	10	0	0	0	9	1	0
		(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(90)	(10)	(0)
{Endocrine system}																	
thyroid	ultimobranchial body remanet	<10>				<10>				<10>				<10>			
		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)

Grado 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. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		7000 ppm				10000 ppm			
		No. of Animals on Study				10			
		Grade				10			
Organ	Findings	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)									
heart		<10>				<10>			
	inflammatory cell nest	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(Digestive system)									
liver		<10>				<10>			
	herniation	1	0	0	0	0	0	0	0
		(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central	4	0	0	0	10	0	0	0 **
		(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
(Urinary system)									
kidney		<10>				<10>			
	eosinophilic body	0	0	10	0 **	0	0	10	0 **
		(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
(Endocrine system)									
thyroid		<10>				<10>			
	ultimobranchial body remanet	1	0	0	0	1	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 : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr1j]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name	Control				640 ppm				1600 ppm				4000 ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ_____	Findings_____		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Reproductive system)																		
epididymis			<10>				<10>				<10>				<10>			
	spermatogenic granuloma		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)
<hr/>																		
(Special sense organs/appendage)																		
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		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)

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

(HPT150)

BATS1

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 6

Organ	Findings	7000 ppm				10000 ppm			
		10				10			
		1	2	3	4	1	2	3	4
		Grade							
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Reproductive system}

epididymis	spermatogenic granuloma	<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>			
		2	0	0	0	1	0	0	0
		(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

(HPT150)

BATS4

TABLE L 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: FEMALE: ALL ANIMALS

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 10				640 ppm 10				1600 ppm 10				4000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow			<10>				<10>				<10>				<10>			
	granulation		3	0	0	0	3	1	0	0	2	1	0	0	2	0	0	0
			(30)	(0)	(0)	(0)	(30)	(10)	(0)	(0)	(20)	(10)	(0)	(0)	(20)	(0)	(0)	(0)
	myelofibrosis		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		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)
	extramedullary hematopoiesis		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)
	engorgement of erythrocyte		0	0	0	0	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)

(Digestive system)

liver	herniation		<10>				<10>				<10>				<10>			
			1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)

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

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name 7000 ppm No. of Animals on Study Grade				10000 ppm 10 Grade			
		1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)									
bone marrow		<10>				<10>			
	granulation	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	myelofibrosis	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased	1	0	0	0	4	0	0	0
		(10)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
spleen		<10>				<10>			
	deposit of hemosiderin	1	9	0	0 **	2	8	0	0 **
		(10)	(90)	(0)	(0)	(20)	(80)	(0)	(0)
	extramedullary hematopoiesis	10	0	0	0 **	10	0	0	0 **
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	engorgement of erythrocyte	10	0	0	0 **	10	0	0	0 **
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
(Digestive system)									
liver		<10>				<10>			
	herniation	1	0	0	0	1	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 : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 9

		Group Name No. of Animals on Study Grade	Control 10				640 ppm 10				1600 ppm 10				4000 ppm 10			
Organ	Findings		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<10>				<10>				<10>				<10>			
	inflammatory cell nest		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)
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<10>				<10>				<10>				<10>			
	mineralization:cortico-medullary junction		2	0	0	0	2	0	0	0	5	0	0	0	2	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(20)	(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)
	deposit of brown pigment:proximal tubule		0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<10>				<10>				<10>				<10>			
	Rathke pouch		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

		Group Name No. of Animals on Study				7000 ppm 10				10000 ppm 10				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}														
liver			<10>				<10>							
	inflammatory cell nest		1	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		7	0	0	0 **	10	0	0	0	0	0	0	0 **
			(70)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}														
kidney			<10>				<10>							
	mineralization:cortico-medullary junction		3	0	0	0	1	0	0	0	0	0	0	0
			(30)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:papilla		0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of brown pigment:proximal tubule		0	10	0	0 **	0	10	0	0	0	0	0	0 **
			(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}														
pituitary			<10>				<10>							
	Rathke pouch		0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
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STUDY NO. : 0745
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 11

		Group Name	Control				640 ppm				1600 ppm				4000 ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
thyroid			<10>				<10>				<10>				<10>			
	ultimobranchial body remanet		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<10>				<10>				<10>				<10>			
	cyst		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)
{Special sense organs/appendage}																		
Harder gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		5	0	0	0	5	0	0	0	3	1	0	0	3	0	0	0
			(50)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(30)	(10)	(0)	(0)	(30)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
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 Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0745
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name				7000 ppm				10000 ppm			
		No. of Animals on Study				10				10			
		Grade											
		1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Endocrine system}

thyroid		<10>				<10>			
	ultimobranchial body remanet	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

{Reproductive system}

ovary	cyst	<10>				<10>			
		0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

{Special sense organs/appendage}

[harder gl		<10>				<10>			
	lymphocytic infiltration	3	0	0	0	4	0	0	0
		(30)	(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 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(IPT150)

BAIS4