

4-*tert*-ブチルカテコールのラットを用いた
経口投与による2週間毒性試験（混餌試験）報告書

試験番号：0709

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TABLE A 1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0709

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : MALE

PAGE : 1

Group Name	Animals At start	Administration (Days)													
		0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
1250 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
2500 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
5000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
10000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
20000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0709

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : MALE

PAGE : 2

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
1250 ppm	5	5/ 5 100.0
2500 ppm	5	5/ 5 100.0
5000 ppm	5	5/ 5 100.0
10000 ppm	5	5/ 5 100.0
20000 ppm	5	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)		

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BA1S4

TABLE A 2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0709

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : FEMALE

PAGE : 3

Group Name	Animals At start	Administration (Days)													
		0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
1250 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
2500 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
5000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
10000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
20000 ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BA1S4

STUDY NO. : 0709

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : FEMALE

PAGE : 4

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
1250 ppm	5	5/ 5 100.0
2500 ppm	5	5/ 5 100.0
5000 ppm	5	5/ 5 100.0
10000 ppm	5	5/ 5 100.0
20000 ppm	5	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)		

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BA1S4

TABLE B 1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day			
		1-4	1-7	2-4	2-7
SOILED	Control	0	0	0	0
	1250 ppm	0	0	0	0
	2500 ppm	0	0	0	0
	5000 ppm	0	0	0	0
	10000 ppm	0	0	0	0
	20000 ppm	0	0	1	1
SMALL STOOL	Control	0	0	0	0
	1250 ppm	0	0	0	0
	2500 ppm	0	0	0	0
	5000 ppm	0	0	0	0
	10000 ppm	0	0	0	0
	20000 ppm	5	5	2	1
NON REMARKABLE	Control	5	5	5	5
	1250 ppm	5	5	5	5
	2500 ppm	5	5	5	5
	5000 ppm	5	5	5	5
	10000 ppm	5	5	5	5
	20000 ppm	0	0	3	4

(HAN190)

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TABLE B 2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day			
		1-4	1-7	2-4	2-7
SOILED	Control	0	0	0	0
	1250 ppm	0	0	0	0
	2500 ppm	0	0	0	0
	5000 ppm	0	0	0	0
	10000 ppm	0	0	0	0
	20000 ppm	0	0	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0
	1250 ppm	0	0	0	0
	2500 ppm	0	0	0	1
	5000 ppm	0	0	0	0
	10000 ppm	0	0	0	1
	20000 ppm	0	1	1	2
SMALL STOOL	Control	0	0	0	0
	1250 ppm	0	0	0	0
	2500 ppm	0	0	0	0
	5000 ppm	0	0	0	0
	10000 ppm	0	0	0	0
	20000 ppm	5	5	4	4
NON REMARKABLE	Control	5	5	5	5
	1250 ppm	5	5	5	5
	2500 ppm	5	5	5	4
	5000 ppm	5	5	5	5
	10000 ppm	5	5	5	4
	20000 ppm	0	0	1	1

(HAN190)

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TABLE C 1

BODY WEIGHT CHANGES
AND SURVIVAL ANIMAL NUMBERS
: MALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av. Wt.	No. of Surviv. < 5>	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.
0-0	126 (5)	5/ 5	126 (5)	100	5/ 5	126 (5)	100	5/ 5	126 (5)	100	5/ 5	126 (5)	100	5/ 5	126 (5)	100	5/ 5
1-4	144 (5)	5/ 5	143 (5)	99	5/ 5	141 (5)	98	5/ 5	141 (5)	98	5/ 5	127 (5)	88	5/ 5	109 (5)	76	5/ 5
1-7	157 (5)	5/ 5	155 (5)	99	5/ 5	155 (5)	99	5/ 5	153 (5)	97	5/ 5	136 (5)	87	5/ 5	116 (5)	74	5/ 5
2-4	176 (5)	5/ 5	173 (5)	98	5/ 5	174 (5)	99	5/ 5	167 (5)	95	5/ 5	149 (5)	85	5/ 5	123 (5)	70	5/ 5
2-7	190 (5)	5/ 5	185 (5)	97	5/ 5	187 (5)	98	5/ 5	180 (5)	95	5/ 5	159 (5)	84	5/ 5	129 (5)	68	5/ 5
< >:No. of effective animals, ():No. of measured animals																	
Av. Wt. : g																	

(BI0040)

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TABLE C 2

BODY WEIGHT CHANGES
AND SURVIVAL ANIMAL NUMBERS
: FEMALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av. Wt.	No. of Surviv. < 5>	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.
0-0	100 (5)	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5
1-4	110 (5)	5/ 5	109 (5)	99	5/ 5	109 (5)	99	5/ 5	107 (5)	97	5/ 5	104 (5)	95	5/ 5	88 (5)	80	5/ 5
1-7	117 (5)	5/ 5	115 (5)	98	5/ 5	114 (5)	97	5/ 5	111 (5)	95	5/ 5	108 (5)	92	5/ 5	93 (5)	79	5/ 5
2-4	123 (5)	5/ 5	123 (5)	100	5/ 5	120 (5)	98	5/ 5	118 (5)	96	5/ 5	115 (5)	93	5/ 5	98 (5)	80	5/ 5
2-7	128 (5)	5/ 5	126 (5)	98	5/ 5	124 (5)	97	5/ 5	121 (5)	95	5/ 5	121 (5)	95	5/ 5	99 (5)	77	5/ 5
< >:No. of effective animals, ():No. of measured animals																	
Av. Wt. : g																	

(BI0040)

BAIS 4

TABLE C 3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day							
	0-0		1-4		1-7		2-4		2-7	
Control	126±	4	144±	3	157±	2	176±	3	190±	4
1250 ppm	126±	4	143±	5	155±	6	173±	7	185±	6
2500 ppm	126±	3	141±	4	155±	4	174±	6	187±	7
5000 ppm	126±	4	141±	4	153±	5	167±	5	180±	6*
10000 ppm	126±	4	127±	5**	136±	6**	149±	7**	159±	7**
20000 ppm	126±	3	109±	4**	116±	5**	123±	4**	129±	6**

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

Test of Dunnett

(HAN260)

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TABLE C 4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day							
	0-0		1-4		1-7		2-4		2-7	
Control	100±	3	110±	4	117±	4	123±	6	128±	7
1250 ppm	100±	2	109±	4	115±	3	123±	4	126±	5
2500 ppm	100±	3	109±	5	114±	5	120±	5	124±	8
5000 ppm	100±	4	107±	5	111±	4	118±	5	121±	6
10000 ppm	100±	3	104±	3	108±	3**	115±	1	121±	3
20000 ppm	100±	3	88±	4**	93±	5**	98±	7**	99±	8**

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

Test of Dunnett

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TABLE D 1

FOOD CONSUMPTION CHANGES
AND SURVIVAL ANIMAL NUMBERS
: MALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr.j]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av. FC.	No. of Surviv. < 5>	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.
1-4	13.1 (5)	5/ 5	12.6 (5)	96	5/ 5	12.3 (5)	94	5/ 5	11.4 (5)	87	5/ 5	7.5 (5)	57	5/ 5	4.4 (5)	34	5/ 5
1-7	13.2 (5)	5/ 5	13.1 (5)	99	5/ 5	13.2 (5)	100	5/ 5	12.4 (5)	94	5/ 5	10.7 (5)	81	5/ 5	9.6 (5)	73	5/ 5
2-4	14.2 (5)	5/ 5	13.7 (5)	96	5/ 5	13.8 (5)	97	5/ 5	12.7 (5)	89	5/ 5	11.0 (5)	77	5/ 5	10.1 (5)	71	5/ 5
2-7	14.6 (5)	5/ 5	14.0 (5)	96	5/ 5	14.5 (5)	99	5/ 5	13.2 (5)	90	5/ 5	11.4 (5)	78	5/ 5	9.6 (5)	66	5/ 5
< >: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. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av. FC.	No. of Surviv. < 5>	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.
1-4	10.4 (5)	5/ 5	10.0 (5)	96	5/ 5	9.6 (5)	92	5/ 5	8.4 (5)	81	5/ 5	7.1 (5)	68	5/ 5	4.0 (5)	38	5/ 5
1-7	10.2 (5)	5/ 5	10.2 (5)	100	5/ 5	10.1 (5)	99	5/ 5	9.7 (5)	95	5/ 5	9.8 (5)	96	5/ 5	8.1 (5)	79	5/ 5
2-4	10.4 (5)	5/ 5	10.5 (5)	101	5/ 5	10.3 (5)	99	5/ 5	9.7 (5)	93	5/ 5	9.7 (5)	93	5/ 5	8.2 (5)	79	5/ 5
2-7	10.1 (5)	5/ 5	10.1 (5)	100	5/ 5	9.7 (5)	96	5/ 5	9.5 (5)	94	5/ 5	9.4 (5)	93	5/ 5	7.4 (5)	73	5/ 5
< >:No. of effective animals, ():No. of measured animals Av. FC. : g																	

(BI0040)

BAIS 4

TABLE D 3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)			
	1-4(4)	1-7(3)	2-4(4)	2-7(3)
Control	13.1± 0.4	13.2± 0.4	14.2± 0.4	14.6± 0.4
1250 ppm	12.6± 0.6	13.1± 0.6	13.7± 0.7	14.0± 0.6
2500 ppm	12.3± 0.8	13.2± 0.9	13.8± 1.1	14.5± 1.0
5000 ppm	11.4± 0.4**	12.4± 0.4	12.7± 0.4*	13.2± 0.4*
10000 ppm	7.5± 1.0**	10.7± 0.6**	11.0± 0.7**	11.4± 0.7**
20000 ppm	4.4± 0.3**	9.6± 0.4**	10.1± 0.7**	9.6± 0.8**

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. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day(effective)			
	1-4(4)	1-7(3)	2-4(4)	2-7(3)
Control	10.4± 0.4	10.2± 0.5	10.4± 0.7	10.1± 0.6
1250 ppm	10.0± 0.4	10.2± 0.3	10.5± 0.4	10.1± 0.6
2500 ppm	9.6± 0.8	10.1± 0.7	10.3± 0.6	9.7± 1.2
5000 ppm	8.4± 0.4**	9.7± 0.7	9.7± 0.7	9.5± 0.9
10000 ppm	7.1± 0.2**	9.8± 0.7	9.7± 0.6	9.4± 0.6
20000 ppm	4.0± 0.6**	8.1± 1.0**	8.2± 1.0**	7.4± 1.0**

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. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 2
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration (Week-Day)							
	1-4		1-7		2-4		2-7	
Control	0±	0	0±	0	0±	0	0±	0
1250 ppm	110±	2	105±	1	99±	3	94±	2
2500 ppm	218±	12	213±	9	198±	11	194±	8
5000 ppm	402±	9	405±	11	379±	12	367±	7
10000 ppm	587±	64	784±	25	738±	29	719±	23
20000 ppm	814±	41	1653±	84	1637±	116	1482±	78

(HAN300)

BAIS 4

TABLE E 2

CHEMICAL INTAKE CHANGES : FEMALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : mg/kg/day
 REPORT TYPE : A1 2
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (Week-Day)							
	1-4		1-7		2-4		2-7	
Control	0±	0	0±	0	0±	0	0±	0
1250 ppm	115±	5	110±	3	106±	4	100±	3
2500 ppm	221±	11	220±	8	215±	6	196±	17
5000 ppm	394±	16	438±	19	412±	18	391±	20
10000 ppm	686±	25	902±	45	845±	48	778±	44
20000 ppm	896±	112	1726±	146	1676±	115	1489±	109

(HAN300)

BAIS 4

TABLE F 1

GROSS FINDINGS : MALE :
ALL ANIMALS

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 2W)

PAGE : 1

Organ	Findings	Group Name	Control	1250 ppm	2500 ppm	5000 ppm
		NO. of Animals	5 (%)	5 (%)	5 (%)	5 (%)
liver	herniation		0 (0)	0 (0)	0 (0)	1 (20)

(HPT080)

BAIS 4

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 2W)

PAGE : 2

Organ	Findings	Group Name	10000 ppm	20000 ppm
		NO. of Animals	5 (%)	5 (%)
liver	herniation		0 (0)	0 (0)

(HPT080)

BAIS 4

TABLE F 2

GROSS FINDINGS : FEMALE :
ALL ANIMALS

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 2W)

PAGE : 3

Organ	Findings	Group Name	Control	1250 ppm	2500 ppm	5000 ppm
		NO. of Animals	5 (%)	5 (%)	5 (%)	5 (%)
liver	herniation		1 (20)	0 (0)	0 (0)	0 (0)

(HPT080)

BAIS 4

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 2W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	10000 ppm 5 (%)	20000 ppm 5 (%)
liver	herniation		1 (20)	0 (0)

(HPT080)

BAIS 4

TABLE G 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (2W)

PAGE : 1

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		TESTES		HEART		LUNGS	
Control	5	190±	4	0.358±	0.036	0.038±	0.001	2.425±	0.104	0.662±	0.030	0.831±	0.032
1250 ppm	5	185±	6	0.338±	0.045	0.036±	0.003	2.452±	0.136	0.661±	0.042	0.793±	0.039
2500 ppm	5	187±	7	0.342±	0.029	0.035±	0.002	2.423±	0.052	0.678±	0.043	0.790±	0.029
5000 ppm	5	180±	6*	0.316±	0.019	0.035±	0.004	2.415±	0.075	0.617±	0.030	0.735±	0.033**
10000 ppm	5	159±	7**	0.305±	0.022	0.035±	0.002	2.292±	0.088	0.545±	0.033**	0.671±	0.031**
20000 ppm	5	129±	6**	0.218±	0.033**	0.034±	0.002	1.788±	0.287**	0.492±	0.030**	0.605±	0.012**

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	1.566±	0.029	0.523±	0.019	7.829±	0.320	1.771±	0.034
1250 ppm	5	1.529±	0.082	0.476±	0.027*	7.585±	0.261	1.701±	0.082
2500 ppm	5	1.579±	0.079	0.468±	0.030**	7.842±	0.531	1.741±	0.032
5000 ppm	5	1.476±	0.045	0.461±	0.020**	7.130±	0.344*	1.749±	0.018
10000 ppm	5	1.334±	0.071**	0.380±	0.026**	6.316±	0.382**	1.698±	0.007*
20000 ppm	5	1.186±	0.038**	0.317±	0.025**	5.257±	0.097**	1.676±	0.043**

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE G 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2W)

PAGE : 3

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		OVARIES		HEART		LUNGS	
Control	5	128±	7	0.262±	0.025	0.047±	0.003	0.093±	0.012	0.511±	0.030	0.639±	0.044
1250 ppm	5	126±	5	0.299±	0.029	0.048±	0.005	0.101±	0.009	0.509±	0.040	0.654±	0.020
2500 ppm	5	124±	8	0.258±	0.050	0.045±	0.004	0.085±	0.009	0.473±	0.018	0.634±	0.035
5000 ppm	5	121±	6	0.278±	0.042	0.041±	0.005	0.080±	0.012	0.452±	0.021	0.612±	0.040
10000 ppm	5	121±	3	0.280±	0.033	0.041±	0.004	0.071±	0.010**	0.472±	0.056	0.601±	0.025
20000 ppm	5	99±	8**	0.208±	0.035	0.037±	0.004**	0.057±	0.010**	0.396±	0.034**	0.532±	0.028**

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	1.087±	0.047	0.350±	0.021	4.727±	0.275	1.637±	0.034
1250 ppm	5	1.084±	0.020	0.362±	0.007	4.877±	0.282	1.635±	0.037
2500 ppm	5	1.072±	0.054	0.335±	0.036	4.797±	0.390	1.638±	0.046
5000 ppm	5	1.032±	0.037	0.329±	0.019	4.667±	0.232	1.628±	0.038
10000 ppm	5	1.034±	0.032	0.317±	0.008*	4.797±	0.364	1.660±	0.036
20000 ppm	5	0.942±	0.036**	0.262±	0.025**	3.972±	0.290**	1.594±	0.044

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE H 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (2W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)		THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	190±	4	0.188± 0.017	0.020± 0.001	1.277± 0.050	0.349± 0.011	0.438± 0.011
1250 ppm	5	185±	6	0.183± 0.027	0.019± 0.001	1.324± 0.062	0.357± 0.017	0.428± 0.013
2500 ppm	5	187±	7	0.183± 0.010	0.019± 0.001	1.299± 0.029	0.363± 0.025	0.423± 0.011
5000 ppm	5	180±	6*	0.176± 0.010	0.019± 0.002	1.345± 0.059	0.344± 0.027	0.409± 0.017*
10000 ppm	5	159±	7**	0.192± 0.008	0.022± 0.001	1.447± 0.086	0.344± 0.013	0.423± 0.008
20000 ppm	5	129±	6**	0.168± 0.021	0.026± 0.002**	1.385± 0.242	0.380± 0.018	0.468± 0.020**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (2W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.825 ± 0.007	0.276 ± 0.008	4.124 ± 0.118	0.934 ± 0.022
1250 ppm	5	0.825 ± 0.020	0.256 ± 0.007*	4.096 ± 0.091	0.919 ± 0.043
2500 ppm	5	0.846 ± 0.016	0.251 ± 0.012**	4.199 ± 0.147	0.934 ± 0.033
5000 ppm	5	0.822 ± 0.023	0.257 ± 0.010*	3.968 ± 0.083	0.974 ± 0.028
10000 ppm	5	0.841 ± 0.019	0.239 ± 0.010**	3.981 ± 0.111	1.073 ± 0.048**
20000 ppm	5	0.917 ± 0.038**	0.244 ± 0.012**	4.067 ± 0.133	1.298 ± 0.072**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE H 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0709
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (2W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	128± 7	0.204± 0.010	0.037± 0.003	0.073± 0.011	0.400± 0.031	0.499± 0.013
1250 ppm	5	126± 5	0.237± 0.024	0.038± 0.004	0.080± 0.005	0.403± 0.022	0.518± 0.019
2500 ppm	5	124± 8	0.208± 0.030	0.037± 0.002	0.069± 0.006	0.383± 0.009	0.513± 0.009
5000 ppm	5	121± 6	0.230± 0.042	0.034± 0.003	0.066± 0.007	0.373± 0.017	0.505± 0.030
10000 ppm	5	121± 3	0.232± 0.026	0.034± 0.003	0.059± 0.008	0.391± 0.044	0.498± 0.018
20000 ppm	5	99± 8**	0.209± 0.026	0.037± 0.005	0.058± 0.013*	0.399± 0.022	0.537± 0.030

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0709
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (2W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.850 ± 0.017	0.274 ± 0.005	3.694 ± 0.133	1.281 ± 0.059
1250 ppm	5	0.858 ± 0.021	0.287 ± 0.013	3.857 ± 0.097	1.296 ± 0.070
2500 ppm	5	0.868 ± 0.027	0.271 ± 0.014	3.879 ± 0.173	1.329 ± 0.068
5000 ppm	5	0.852 ± 0.036	0.271 ± 0.013	3.846 ± 0.102	1.344 ± 0.076
10000 ppm	5	0.858 ± 0.022	0.263 ± 0.002	3.974 ± 0.211*	1.377 ± 0.056
20000 ppm	5	0.951 ± 0.073	0.264 ± 0.016	3.998 ± 0.133*	1.610 ± 0.105**

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

Test of Dunnett

(HCL042)

BAIS 4