エチレングリコールモノエチルエーテルアセテート
のラットを用いた吸入による 2 週間毒性試験報告書

試験番号：0735

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF ETHYLENE GLYCOL MONOETHYL ETHER ACETATE IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

CONCENTRATIONS OF ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
50 ppm	50.3 ± 0.4
100 ppm	100.5 ± 0.5
200 ppm	199.9 ± 0.6
400 ppm	396.1 ± 5.8
800 ppm	800.4 ± 3.0

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

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	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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
400ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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
800ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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(%)

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
50ppm	5	5/ 5 100.0
100ppm	5	5/ 5 100.0
200ppm	5	5/ 5 100.0
400ppm	5	5/ 5 100.0
800ppm	5	5/ 5 100.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

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	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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
400ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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
800ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		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(%)

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
50ppm	5	5/ 5 100.0
100ppm	5	5/ 5 100.0
200ppm	5	5/ 5 100.0
400ppm	5	5/ 5 100.0
800ppm	5	5/ 5 100.0

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

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
NON REMARKABLE	Control	5	5	5	5	5
	50ppm	5	5	5	5	5
	100ppm	5	5	5	5	5
	200ppm	5	5	5	5	5
	400ppm	5	5	5	5	5
	800ppm	5	5	5	5	5

TABLE C2

CLINICAL OBSERVATION : FEMALE

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
NON REMARKABLE	Control	5	5	5	5	5
	50ppm	5	5	5	5	5
	100ppm	5	5	5	5	5
	200ppm	5	5	5	5	5
	400ppm	5	5	5	5	5
	800ppm	5	5	5	5	5

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. <5>	50ppm Av. Wt.	50ppm % of cont. <5>	50ppm No. of Surviv.	100ppm Av. Wt.	100ppm % of cont. <5>	100ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. <5>	200ppm No. of Surviv.	400ppm Av. Wt.	400ppm % of cont. <5>	400ppm No. of Surviv.	800ppm Av. Wt.	800ppm % of cont. <5>	800ppm No. of Surviv.
0-0	119 (5)	5/ 5	120 (5)	101	5/ 5	120 (5)	101	5/ 5	120 (5)	101	5/ 5	120 (5)	101	5/ 5	120 (5)	101	5/ 5
1-2	127 (5)	5/ 5	127 (5)	100	5/ 5	128 (5)	101	5/ 5	127 (5)	100	5/ 5	123 (5)	97	5/ 5	122 (5)	96	5/ 5
1-4	134 (5)	5/ 5	132 (5)	99	5/ 5	134 (5)	100	5/ 5	133 (5)	99	5/ 5	131 (5)	98	5/ 5	131 (5)	98	5/ 5
1-7	142 (5)	5/ 5	139 (5)	98	5/ 5	139 (5)	98	5/ 5	139 (5)	98	5/ 5	134 (5)	94	5/ 5	129 (5)	91	5/ 5
2-3	152 (5)	5/ 5	149 (5)	98	5/ 5	148 (5)	97	5/ 5	150 (5)	99	5/ 5	145 (5)	95	5/ 5	140 (5)	92	5/ 5
2-7	167 (5)	5/ 5	165 (5)	99	5/ 5	162 (5)	97	5/ 5	161 (5)	96	5/ 5	155 (5)	93	5/ 5	147 (5)	88	5/ 5

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]*
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. < 5>	50ppm Av. Wt.	50ppm % of cont. < 5>	50ppm No. of Surviv.	100ppm Av. Wt.	100ppm % of cont. < 5>	100ppm No. of Surviv.	200ppm Av. Wt.	200ppm % of cont. < 5>	200ppm No. of Surviv.	400ppm Av. Wt.	400ppm % of cont. < 5>	400ppm No. of Surviv.	800ppm Av. Wt.	800ppm % of cont. < 5>	800ppm No. of Surviv.
0-0	90 (5)	5/ 5	90 (5)	100	5/ 5	89 (5)	99	5/ 5	90 (5)	100	5/ 5	90 (5)	100	5/ 5	90 (5)	100	5/ 5
1-2	95 (5)	5/ 5	94 (5)	99	5/ 5	94 (5)	99	5/ 5	94 (5)	99	5/ 5	92 (5)	97	5/ 5	89 (5)	94	5/ 5
1-4	99 (5)	5/ 5	97 (5)	98	5/ 5	96 (5)	97	5/ 5	96 (5)	97	5/ 5	95 (5)	96	5/ 5	96 (5)	97	5/ 5
1-7	102 (5)	5/ 5	99 (5)	97	5/ 5	97 (5)	95	5/ 5	98 (5)	96	5/ 5	95 (5)	93	5/ 5	93 (5)	91	5/ 5
2-3	106 (5)	5/ 5	104 (5)	98	5/ 5	103 (5)	97	5/ 5	104 (5)	98	5/ 5	101 (5)	95	5/ 5	99 (5)	93	5/ 5
2-7	113 (5)	5/ 5	109 (5)	96	5/ 5	108 (5)	96	5/ 5	109 (5)	96	5/ 5	105 (5)	93	5/ 5	101 (5)	89	5/ 5

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	119± 2	127± 3	134± 3	142± 4	152± 7	167± 7
50ppm	120± 4	127± 4	132± 4	139± 4	149± 4	165± 5
100ppm	120± 4	128± 5	134± 4	139± 5	148± 5	162± 7
200ppm	120± 3	127± 5	133± 7	139± 8	150± 10	161± 12
400ppm	120± 3	123± 1	131± 1	134± 3	145± 5	155± 7
800ppm	120± 2	122± 3	131± 5	129± 7**	140± 10	147± 10**

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	90± 2	95± 2	99± 2	102± 3	106± 3	113± 5
50ppm	90± 3	94± 5	97± 5	99± 7	104± 7	109± 8
100ppm	89± 4	94± 3	96± 4	97± 4	103± 4	108± 5
200ppm	90± 3	94± 2	96± 3	98± 2	104± 3	109± 4
400ppm	90± 2	92± 3	95± 5	95± 3*	101± 4	105± 3*
800ppm	90± 1	89± 1*	96± 2	93± 2**	99± 3	101± 3**

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

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <5>	50ppm Av. FC.	50ppm % of cont. <5>	50ppm No. of Surviv.	100ppm Av. FC.	100ppm % of cont. <5>	100ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <5>	200ppm No. of Surviv.	400ppm Av. FC.	400ppm % of cont. <5>	400ppm No. of Surviv.	800ppm Av. FC.	800ppm % of cont. <5>	800ppm No. of Surviv.
1-7	14.8 (5)	5/ 5	15.1 (5)	102	5/ 5	14.8 (5)	100	5/ 5	14.1 (5)	95	5/ 5	13.4 (5)	91	5/ 5	12.2 (5)	82	5/ 5
2-7	14.9 (5)	5/ 5	15.6 (5)	105	5/ 5	14.6 (5)	98	5/ 5	14.6 (5)	98	5/ 5	14.1 (5)	95	5/ 5	12.4 (5)	83	5/ 5

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <5>	50ppm Av. FC.	50ppm % of cont. <5>	50ppm No. of Surviv.	100ppm Av. FC.	100ppm % of cont. <5>	100ppm No. of Surviv.	200ppm Av. FC.	200ppm % of cont. <5>	200ppm No. of Surviv.	400ppm Av. FC.	400ppm % of cont. <5>	400ppm No. of Surviv.	800ppm Av. FC.	800ppm % of cont. <5>	800ppm No. of Surviv.
1-7	11.2 (5)	5/ 5	10.9 (5)	97	5/ 5	11.7 (5)	104	5/ 5	11.6 (5)	104	5/ 5	10.0 (5)	89	5/ 5	9.3 (5)	83	5/ 5
2-7	10.7 (5)	5/ 5	10.7 (5)	100	5/ 5	11.0 (5)	103	5/ 5	11.0 (5)	103	5/ 5	10.3 (5)	96	5/ 5	10.2 (5)	95	5/ 5

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(6)	week-day(effective) 2-7(7)
Control	14.8± 0.6	14.9± 1.0
50ppm	15.1± 0.9	15.6± 1.1
100ppm	14.8± 0.9	14.6± 0.7
200ppm	14.1± 0.8	14.6± 1.0
400ppm	13.4± 0.7	14.1± 1.2
800ppm	12.2± 0.9**	12.4± 0.7**

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(6)	week-day(effective) 2-7(7)
Control	11.2± 0.6	10.7± 0.5
50ppm	10.9± 0.7	10.7± 0.8
100ppm	11.7± 1.0	11.0± 0.7
200ppm	11.6± 0.9	11.0± 1.2
400ppm	10.0± 0.9	10.3± 0.5
800ppm	9.3± 0.6**	10.2± 0.5

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	8.71± 0.27	16.3± 0.3	44.0± 0.9	50.5± 0.7	18.7± 0.3	37.1± 0.2	1025± 60
50ppm	5	8.67± 0.27	16.2± 0.4	43.7± 1.2	50.4± 0.5	18.8± 0.4	37.2± 0.4	1013± 58
100ppm	5	8.80± 0.31	16.4± 0.5	44.2± 1.5	50.2± 0.2	18.7± 0.1	37.2± 0.1	997± 33
200ppm	5	8.81± 0.12	16.3± 0.3	44.6± 0.8	50.7± 0.4	18.6± 0.3	36.6± 0.3*	1032± 35
400ppm	5	8.69± 0.15	16.1± 0.5	44.3± 1.0	50.9± 0.4	18.5± 0.2	36.4± 0.3**	1040± 118
800ppm	5	8.33± 0.31	15.4± 0.7*	43.3± 1.7	52.0± 0.5**	18.5± 0.2	35.7± 0.1**	1072± 61

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

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	2.5± 0.5
50ppm	5	2.2± 0.4
100ppm	5	1.9± 0.2
200ppm	5	2.0± 0.3
400ppm	5	1.8± 0.4*
800ppm	5	1.6± 0.2**

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	5	6.07±	0.89	21±	4	75±	4	3±	1	1±	0	0±	0	1±	0
50ppm	5	5.24±	1.86	22±	5	74±	4	2±	0	1±	0	0±	0	2±	1
100ppm	5	4.78±	1.57	20±	5	76±	5	2±	0	1±	0	0±	0	1±	0
200ppm	5	5.61±	1.77	19±	5	76±	6	2±	0	1±	0	0±	0	1±	0
400ppm	5	3.89±	0.84	21±	4	76±	5	2±	1	1±	0	0±	0	1±	0
800ppm	5	2.86±	0.70**	25±	9	71±	10	2±	0	1±	0	0±	0	1±	0

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	9.08± 0.12	17.2± 0.2	45.2± 0.6	49.8± 0.1	18.9± 0.2	38.0± 0.3	933± 69
50ppm	5	9.26± 0.18	17.5± 0.4	46.3± 0.9	49.9± 0.4	18.9± 0.2	37.7± 0.2	833± 76
100ppm	5	9.31± 0.23	17.7± 0.3	46.9± 1.1	50.4± 0.1**	19.0± 0.2	37.7± 0.4	805± 80
200ppm	5	9.12± 0.23	17.2± 0.3	46.2± 0.9	50.7± 0.6**	18.9± 0.4	37.3± 0.5**	855± 83
400ppm	5	8.99± 0.10	17.0± 0.2	45.9± 0.7	51.1± 0.5**	18.9± 0.1	37.0± 0.2**	881± 35
800ppm	5	8.16± 0.53*	15.4± 0.8**	42.5± 2.0**	52.1± 0.9**	18.8± 0.3	36.1± 0.2**	1020± 98

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

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	1.5± 0.3
50ppm	5	1.2± 0.2
100ppm	5	1.3± 0.1
200ppm	5	1.1± 0.2**
400ppm	5	1.0± 0.1**
800ppm	5	2.1± 0.9

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	5	4.90± 0.63	17± 5	77± 5	2± 1	1± 0	0± 0	1± 0
50ppm	5	4.47± 1.47	17± 4	78± 4	2± 0	1± 0	0± 0	1± 0
100ppm	5	3.85± 0.40	17± 3	77± 4	3± 1	1± 0	0± 0	1± 0
200ppm	5	3.53± 0.28*	17± 4	78± 4	2± 0	2± 1	0± 0	1± 0
400ppm	5	3.29± 0.86**	20± 5	75± 5	2± 1	2± 0	0± 0	1± 0
800ppm	5	2.61± 0.71**	26± 4*	70± 4	2± 0	1± 1	0± 0	1± 0

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	6.0± 0.1	3.4± 0.0	1.3± 0.1	0.10± 0.01	153± 8	54± 2	33± 11
50ppm	5	6.0± 0.1	3.4± 0.1	1.4± 0.0	0.10± 0.00	142± 10	53± 5	37± 15
100ppm	5	5.9± 0.2	3.4± 0.1	1.4± 0.1	0.09± 0.01	151± 9	50± 6	35± 8
200ppm	5	5.9± 0.1	3.5± 0.1	1.5± 0.1*	0.10± 0.01	153± 12	49± 2	32± 8
400ppm	5	5.8± 0.1*	3.5± 0.1	1.5± 0.1**	0.10± 0.01	161± 8	50± 1	32± 13
800ppm	5	5.6± 0.1**	3.4± 0.1	1.5± 0.1**	0.11± 0.01	153± 5	44± 5**	35± 9

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

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ	AST IU/ℓ	ALT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CK IU/ℓ
Control	5	97± 3	72± 2	33± 4	122± 43	1072± 32	1± 0	231± 14
50ppm	5	99± 8	71± 3	31± 2	110± 43	1063± 69	1± 1	234± 35
100ppm	5	98± 6	70± 7	33± 3	101± 36	1033± 87	1± 1	196± 25
200ppm	5	95± 4	72± 3	33± 1	73± 22	983± 52	1± 1	190± 24*
400ppm	5	98± 7	68± 4	29± 2	64± 11*	839± 56**	1± 1	171± 20**
800ppm	5	94± 7	67± 2	27± 3**	61± 10*	653± 22**	1± 1	158± 15**

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	16.9± 1.2	0.5± 0.1	143± 1	3.5± 0.2	105± 1	10.6± 0.1	8.2± 0.7
50ppm	5	16.3± 0.4	0.5± 0.0	143± 1	3.4± 0.1	106± 2	10.6± 0.1	8.3± 0.3
100ppm	5	17.1± 1.6	0.5± 0.0	142± 2	3.8± 0.4	104± 2	10.5± 0.2	8.7± 0.4
200ppm	5	16.7± 1.2	0.5± 0.0	142± 1	3.4± 0.1	105± 1	10.3± 0.1*	8.2± 0.9
400ppm	5	16.9± 1.0	0.5± 0.0	142± 1	3.5± 0.2	105± 1	10.4± 0.1*	8.4± 0.9
800ppm	5	16.6± 1.4	0.5± 0.0	141± 0	3.7± 0.1	105± 1	10.2± 0.1**	8.2± 0.4

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	5.8±	0.1	3.4±	0.1	1.4±	0.1	0.10±	0.01	138±	15	69±	6	13±	3
50ppm	5	5.8±	0.1	3.4±	0.1	1.5±	0.1	0.10±	0.01	143±	9	76±	2	17±	3
100ppm	5	5.8±	0.1	3.4±	0.1	1.5±	0.0	0.10±	0.01	138±	7	69±	5	14±	3
200ppm	5	5.7±	0.1	3.4±	0.1	1.5±	0.1	0.10±	0.00	132±	9	70±	5	12±	1
400ppm	5	5.8±	0.1	3.5±	0.1	1.5±	0.1	0.10±	0.01	134±	10	76±	4	19±	7
800ppm	5	5.7±	0.3	3.5±	0.3	1.7±	0.1**	0.11±	0.00	144±	8	71±	4	25±	9**

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ	AST IU/ℓ	ALT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CK IU/ℓ
Control	5	121± 8	75± 2	32± 2	100± 30	927± 60	2± 0	191± 22
50ppm	5	133± 5	74± 5	30± 3	107± 37	889± 42	1± 1	195± 31
100ppm	5	120± 5	76± 3	33± 4	131± 44	903± 34	1± 1	207± 33
200ppm	5	126± 10	72± 5	29± 2	168± 66	810± 71**	2± 1	242± 20
400ppm	5	139± 5*	72± 3	27± 2*	151± 40	713± 32**	2± 1	219± 19
800ppm	5	137± 14*	67± 2**	24± 2**	135± 49	544± 32**	2± 1	209± 42

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

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	5	18.3± 0.9	0.5± 0.0	142± 1	3.5± 0.2	104± 1	10.3± 0.2	7.7± 1.0
50ppm	5	17.9± 1.8	0.5± 0.0	142± 2	3.5± 0.3	106± 2	10.2± 0.2	7.6± 1.3
100ppm	5	16.8± 0.4	0.5± 0.0	143± 1	3.4± 0.2	106± 1	10.1± 0.3	7.4± 0.9
200ppm	5	18.1± 1.4	0.5± 0.0	142± 2	3.5± 0.2	106± 1	10.1± 0.3	7.6± 0.9
400ppm	5	17.0± 0.7	0.5± 0.0	142± 1	3.5± 0.2	106± 2	10.1± 0.3	7.5± 1.4
800ppm	5	19.2± 1.9	0.5± 0.1	141± 0	3.6± 0.2	104± 2	10.3± 0.2	7.4± 0.8

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

TABLE H1

GROSS FINDINGS : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 3W)

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	50ppm 5 (%)	100ppm 5 (%)	200ppm 5 (%)
liver	herniation		1 (20)	0 (0)	1 (20)	0 (0)

Organ	Findings	Group Name	400ppm	800ppm
		NO. of Animals	5 (%)	5 (%)
liver	herniation		0 (0)	0 (0)

TABLE H2

GROSS FINDINGS : FEMALE

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	50ppm 5 (%)	100ppm 5 (%)	200ppm 5 (%)
liver	herniation		0 (0)	0 (0)	0 (0)	0 (0)

Organ	Findings	Group Name	400ppm		800ppm	
		NO. of Animals	5	(%)	5	(%)
liver	herniation		0	(0)	1	(20)

TABLE I1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	149± 7	0.276± 0.020	0.044± 0.006	2.262± 0.120	0.600± 0.037	0.692± 0.025
50ppm	5	148± 5	0.257± 0.014	0.041± 0.004	2.273± 0.156	0.609± 0.028	0.679± 0.026
100ppm	5	145± 6	0.265± 0.020	0.041± 0.005	2.274± 0.152	0.607± 0.019	0.684± 0.023
200ppm	5	146± 9	0.251± 0.019	0.038± 0.001	2.289± 0.099	0.609± 0.061	0.672± 0.048
400ppm	5	140± 6	0.231± 0.024**	0.038± 0.003	2.205± 0.175	0.597± 0.034	0.660± 0.035
800ppm	5	132± 9**	0.157± 0.019**	0.034± 0.002**	1.639± 0.128**	0.610± 0.040	0.631± 0.026

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.203± 0.079	0.371± 0.038	4.490± 0.310	1.698± 0.034
50ppm	5	1.203± 0.046	0.360± 0.007	4.350± 0.150	1.690± 0.036
100ppm	5	1.239± 0.041	0.345± 0.028	4.353± 0.284	1.679± 0.024
200ppm	5	1.199± 0.070	0.341± 0.040	4.290± 0.300	1.695± 0.029
400ppm	5	1.173± 0.073	0.333± 0.022	4.055± 0.184*	1.677± 0.047
800ppm	5	1.138± 0.052	0.313± 0.024	3.710± 0.252**	1.660± 0.019

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

TABLE I2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	100± 4	0.228± 0.020	0.040± 0.003	0.063± 0.005	0.447± 0.008	0.526± 0.019
50ppm	5	97± 7	0.193± 0.018*	0.040± 0.003	0.062± 0.011	0.446± 0.026	0.515± 0.025
100ppm	5	96± 4	0.192± 0.020*	0.042± 0.004	0.058± 0.010	0.451± 0.010	0.516± 0.021
200ppm	5	97± 3	0.214± 0.021	0.041± 0.002	0.068± 0.009	0.442± 0.022	0.511± 0.017
400ppm	5	93± 3*	0.175± 0.009**	0.039± 0.002	0.061± 0.008	0.442± 0.018	0.485± 0.027
800ppm	5	90± 3**	0.117± 0.017**	0.036± 0.003	0.054± 0.008	0.440± 0.017	0.509± 0.040

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.859± 0.015	0.268± 0.018	2.970± 0.109	1.570± 0.018
50ppm	5	0.841± 0.054	0.248± 0.016	2.881± 0.214	1.537± 0.032
100ppm	5	0.835± 0.051	0.247± 0.025	2.855± 0.102	1.549± 0.030
200ppm	5	0.850± 0.031	0.250± 0.017	2.939± 0.142	1.535± 0.023
400ppm	5	0.810± 0.032	0.228± 0.012	2.731± 0.098	1.526± 0.033
800ppm	5	0.795± 0.024	0.234± 0.027	2.748± 0.117	1.519± 0.019

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

TABLE J1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	149± 7	0.185± 0.006	0.030± 0.003	1.516± 0.044	0.402± 0.014	0.464± 0.018
50ppm	5	148± 5	0.174± 0.007	0.028± 0.003	1.537± 0.071	0.413± 0.023	0.460± 0.022
100ppm	5	145± 6	0.183± 0.015	0.029± 0.003	1.572± 0.071	0.420± 0.017	0.473± 0.023
200ppm	5	146± 9	0.172± 0.010	0.026± 0.001	1.574± 0.045	0.418± 0.020	0.462± 0.009
400ppm	5	140± 6	0.165± 0.011*	0.027± 0.002	1.577± 0.091	0.427± 0.011	0.472± 0.012
800ppm	5	132± 9**	0.119± 0.007**	0.025± 0.003	1.242± 0.057**	0.463± 0.019**	0.479± 0.018

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.805± 0.016	0.248± 0.017	3.007± 0.068	1.139± 0.040
50ppm	5	0.814± 0.014	0.244± 0.007	2.944± 0.077	1.144± 0.043
100ppm	5	0.857± 0.012**	0.238± 0.012	3.008± 0.073	1.162± 0.047
200ppm	5	0.824± 0.019	0.234± 0.017	2.946± 0.060	1.167± 0.062
400ppm	5	0.839± 0.018*	0.238± 0.008	2.901± 0.076	1.201± 0.041
800ppm	5	0.863± 0.020**	0.237± 0.004	2.811± 0.045**	1.262± 0.083**

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

TABLE J2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	100± 4	0.228± 0.021	0.040± 0.002	0.063± 0.005	0.447± 0.015	0.525± 0.021
50ppm	5	97± 7	0.199± 0.012*	0.041± 0.001	0.063± 0.007	0.460± 0.034	0.531± 0.027
100ppm	5	96± 4	0.200± 0.014	0.044± 0.003	0.060± 0.010	0.471± 0.016	0.539± 0.029
200ppm	5	97± 3	0.221± 0.020	0.042± 0.002	0.071± 0.008	0.458± 0.022	0.529± 0.009
400ppm	5	93± 3*	0.188± 0.009**	0.042± 0.003	0.065± 0.009	0.475± 0.021	0.522± 0.025
800ppm	5	90± 3**	0.130± 0.019**	0.040± 0.003	0.060± 0.009	0.489± 0.028	0.566± 0.047

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

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.858± 0.020	0.268± 0.015	2.964± 0.055	1.568± 0.058
50ppm	5	0.865± 0.012	0.256± 0.006	2.965± 0.044	1.587± 0.098
100ppm	5	0.872± 0.031	0.258± 0.028	2.981± 0.026	1.619± 0.059
200ppm	5	0.880± 0.020	0.259± 0.011	3.043± 0.137	1.590± 0.044
400ppm	5	0.871± 0.018	0.246± 0.017	2.938± 0.098	1.642± 0.038
800ppm	5	0.883± 0.025	0.259± 0.026	3.054± 0.113	1.689± 0.055

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

TABLE K

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

STUDY NO. : 0735
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 3W)

Organ	Findings	Group Name	Control				50ppm				100ppm				200ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis			< 5>				< 5>				< 5>				< 5>			
	tubular atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

Organ	Findings	Group Name	400ppm				800ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}										
testis			< 5>				< 5>			
	tubular atrophy		0	0	0	0	5	0	0	0 *
			(0)	(0)	(0)	(0)	(100)	(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