アリルクロリドのマウスを用いた
吸入による 13 週間毒性試験報告書

試験番号：0341

APPENDIX

APPENDIXES

APPENDIXES (CONTINUED)

APPENDIXES (CONTINUED)

APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
DEATH	0 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1
	100 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	0 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	100 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX A 2

CLINICAL OBSERVATION : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
INTERNAL MASS	0 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	50 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	100 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1

APPENDIX B 1

BODY WEIGHT CHANGES :SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Grpup Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
0 ppm	22.0± 0.8	22.4± 3.1	24.4± 1.1	25.0± 1.1	26.0± 1.1	26.5± 1.2	26.8± 1.3
12.5 ppm	22.0± 0.8	23.4± 1.0	24.3± 1.2	24.8± 1.2	25.7± 1.2	26.4± 1.4	26.6± 1.6
25 ppm	22.0± 0.7	22.8± 0.7	23.7± 0.7	24.4± 0.7	24.9± 0.6	25.7± 0.9	25.6± 0.9
50 ppm	22.0± 0.7	23.1± 0.9	23.7± 0.6	24.2± 1.1	24.7± 0.6	25.4± 0.6	25.3± 0.6*
100 ppm	22.0± 0.9	23.4± 1.0	24.1± 0.9	24.8± 1.3	25.6± 1.2	26.4± 1.3	26.9± 1.3
200 ppm	22.0± 0.8	23.2± 0.9	24.2± 0.9	25.0± 1.0	25.5± 1.0	26.1± 0.8	26.4± 0.9

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 7-7	8-7	9-7	10-7	11-7	12-7	13-7
0 ppm	27.4± 1.4	27.9± 1.5	28.1± 1.4	28.8± 1.3	29.0± 1.4	29.6± 1.6	30.5± 1.6
12.5 ppm	27.0± 1.8	27.5± 1.7	28.1± 2.1	28.9± 2.1	29.1± 2.1	29.9± 2.2	30.3± 2.6
25 ppm	26.2± 0.8	26.2± 0.9*	27.3± 1.0	27.9± 0.9	28.7± 1.1	29.1± 1.2	29.7± 1.4
50 ppm	26.0± 0.3*	26.3± 0.6*	27.6± 0.8	27.3± 0.7*	28.1± 0.8	28.9± 0.7	29.3± 0.8
100 ppm	27.5± 1.4	27.1± 1.3	27.7± 1.3	28.7± 1.2	29.2± 1.4	29.2± 1.4	29.5± 1.6
200 ppm	27.6± 0.8	27.5± 1.2	27.8± 1.1	28.8± 1.1	28.5± 1.4	29.2± 1.2	30.0± 1.4

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

APPENDIX B 2

BODY WEIGHT CHANGES : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
0 ppm	18.5± 0.7	19.4± 0.7	20.4± 0.9	20.9± 0.9	22.2± 0.9	22.4± 1.1	23.1± 1.0
12.5 ppm	18.6± 0.7	19.5± 0.7	20.1± 1.0	21.1± 1.0	21.7± 0.9	22.6± 0.9	23.1± 0.7
25 ppm	18.5± 0.7	19.4± 0.7	20.4± 1.1	21.1± 1.0	21.5± 0.6	22.2± 0.9	22.9± 1.3
50 ppm	18.6± 0.6	19.1± 0.6	19.8± 0.7	21.1± 0.6	21.5± 0.6	22.3± 1.0	22.7± 0.7
100 ppm	18.5± 0.7	19.4± 0.7	20.3± 1.0	20.7± 0.7	21.7± 0.8	22.2± 0.8	22.7± 0.7
200 ppm	18.6± 0.6	19.0± 0.6	20.2± 0.6	21.2± 0.8	21.2± 0.8	21.7± 0.7	22.3± 0.8

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 7-7	8-7	9-7	10-7	11-7	12-7	13-7
0 ppm	23.2± 0.8	23.1± 0.9	23.3± 1.1	23.6± 0.9	24.3± 1.3	24.5± 1.3	24.3± 1.2
12.5 ppm	23.3± 1.6	23.8± 0.8	24.0± 0.7	24.2± 1.2	24.6± 1.7	24.6± 0.9	25.2± 1.3
25 ppm	23.4± 1.0	23.3± 1.1	23.8± 1.1	23.8± 1.4	23.9± 1.3	24.9± 2.1	24.3± 1.4
50 ppm	23.4± 1.2	23.0± 1.0	23.2± 1.0	23.8± 1.1	23.8± 1.2	23.8± 1.0	24.3± 1.2
100 ppm	23.3± 0.9	23.4± 1.2	23.4± 1.2	23.5± 1.2	23.7± 1.2	24.0± 1.2	24.1± 1.1
200 ppm	23.1± 0.7	23.0± 0.9	22.9± 0.9	23.1± 1.0	23.0± 0.5	23.9± 0.3	24.1± 0.9

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

APPENDIX C 1

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-7(6)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
0 ppm	4.0± 0.7	4.2± 0.5	4.2± 0.2	4.3± 0.2	4.2± 0.2	4.3± 0.2	4.3± 0.2
12.5 ppm	4.3± 0.2	4.2± 0.3	4.2± 0.2	4.4± 0.2	4.5± 0.3	4.4± 0.2	4.5± 0.3
25 ppm	4.0± 0.2	4.1± 0.3	4.2± 0.2	4.2± 0.3	4.4± 0.3	4.3± 0.2	4.5± 0.3
50 ppm	4.2± 0.2	4.1± 0.4	4.2± 0.3	4.2± 0.2	4.3± 0.2	4.2± 0.2	4.3± 0.1
100 ppm	4.2± 0.2	3.9± 0.4	4.3± 0.4	4.2± 0.3	4.3± 0.3	4.2± 0.3	4.3± 0.2
200 ppm	4.1± 0.3	4.2± 0.4	4.4± 0.3	4.2± 0.3	4.4± 0.3	4.5± 0.2	4.6± 0.2*

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
0 ppm	4.4± 0.2	4.3± 0.2	4.4± 0.2	4.3± 0.2	4.4± 0.2	4.5± 0.2
12.5 ppm	4.5± 0.3	4.6± 0.2	4.7± 0.2*	4.6± 0.2	4.7± 0.2*	4.6± 0.3
25 ppm	4.3± 0.3	4.4± 0.2	4.4± 0.2	4.6± 0.2	4.5± 0.2	4.6± 0.2
50 ppm	4.2± 0.1	4.4± 0.2	4.4± 0.1	4.4± 0.2	4.5± 0.2	4.5± 0.2
100 ppm	4.1± 0.2*	4.3± 0.3	4.4± 0.2	4.4± 0.2	4.4± 0.2	4.3± 0.3
200 ppm	4.4± 0.2	4.5± 0.3	4.6± 0.2	4.4± 0.3	4.5± 0.3	4.6± 0.3

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

APPENDIX C 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-7(6)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
0 ppm	3.7± 0.3	3.6± 0.2	3.9± 0.2	4.0± 0.2	4.1± 0.3	4.1± 0.3	4.4± 0.3
12.5 ppm	3.8± 0.3	3.6± 0.2	3.9± 0.3	4.0± 0.2	4.1± 0.2	4.1± 0.3	4.4± 0.3
25 ppm	3.6± 0.2	3.7± 0.2	3.8± 0.2	3.9± 0.3	4.1± 0.3	4.2± 0.3	4.2± 0.2
50 ppm	3.5± 0.2	3.7± 0.2	3.8± 0.2	3.9± 0.3	4.0± 0.2	4.1± 0.2	4.3± 0.3
100 ppm	3.6± 0.3	3.6± 0.3	3.8± 0.2	3.9± 0.2	4.0± 0.3	4.1± 0.2	4.3± 0.2
200 ppm	3.4± 0.3	3.7± 0.2	3.9± 0.2	3.8± 0.2	4.0± 0.3	4.1± 0.2	4.2± 0.2

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)
0 ppm	4.4± 0.3	4.3± 0.2	4.3± 0.3	4.5± 0.3	4.4± 0.4	4.4± 0.3
12.5 ppm	4.4± 0.3	4.3± 0.3	4.3± 0.3	4.6± 0.7	4.2± 0.4	4.4± 0.3
25 ppm	4.2± 0.3	4.2± 0.3	4.3± 0.2	4.4± 0.2	4.3± 0.5	4.3± 0.2
50 ppm	4.1± 0.2*	4.2± 0.2	4.1± 0.2	4.1± 0.2*	4.1± 0.2	4.3± 0.2
100 ppm	4.1± 0.2*	4.2± 0.3	4.1± 0.3	4.2± 0.3	4.2± 0.2	4.3± 0.3
200 ppm	4.1± 0.2**	4.2± 0.2	4.2± 0.2	4.3± 0.3	4.3± 0.2	4.3± 0.3

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

APPENDIX D 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV f ℓ	MCH p g	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
0 ppm	10	10.72± 0.21	15.8± 0.3	50.1± 0.9	46.7± 0.4	14.8± 0.3	31.6± 0.5	1382± 25
12.5 ppm	10	10.73± 0.37	15.7± 0.5	49.9± 1.6	46.6± 0.5	14.6± 0.1	31.3± 0.2	1284± 78*
25 ppm	9	10.73± 0.26	15.7± 0.4	49.7± 1.2	46.3± 0.9	14.6± 0.3	31.6± 0.3	1275± 90*
50 ppm	8	10.55± 0.26	15.4± 0.4	49.2± 1.4	46.7± 0.5	14.6± 0.3	31.3± 0.6	1312± 81
100 ppm	10	10.38± 0.37	15.4± 0.5	48.8± 2.0	47.0± 0.9	14.8± 0.5	31.5± 1.2	1304± 77
200 ppm	10	10.20± 0.37**	15.2± 0.6*	49.3± 1.8	48.4± 0.6**	14.9± 0.2	30.7± 0.3**	1392± 94

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) N-BAND		N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHERS	
0 ppm	10	1.81±	1.03	0±	0	14±	4	1±	1	0±	0	4±	3	80±	3	0±	0
12.5 ppm	10	1.75±	1.03	0±	0	15±	5	1±	1	0±	0	4±	2	80±	5	0±	0
25 ppm	9	1.09±	0.66	0±	1	17±	7	1±	1	0±	0	2±	1	80±	7	0±	0
50 ppm	8	1.19±	1.03	1±	1	18±	6	1±	1	0±	0	3±	1	78±	7	0±	0
100 ppm	10	1.86±	1.37	0±	0	17±	3	1±	1	0±	0	4±	3	78±	5	0±	0
200 ppm	10	1.90±	1.26	0±	0	13±	2	1±	1	0±	0	3±	1	82±	3	0±	1

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

APPENDIX D 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV f ℓ	MCH p g	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
0 ppm	8	10.70± 0.37	15.8± 0.4	49.7± 1.6	46.4± 0.6	14.8± 0.3	31.9± 0.5	1152± 87
12.5 ppm	10	10.57± 0.44	15.8± 0.6	49.1± 2.3	46.4± 0.5	14.9± 0.3	32.2± 0.7	1240± 64
25 ppm	10	10.54± 0.23	15.7± 0.4	48.8± 1.3	46.3± 0.5	14.9± 0.7	32.3± 1.5	1227± 72
50 ppm	10	10.61± 0.28	15.7± 0.5	49.2± 1.3	46.4± 0.4	14.8± 0.1	32.0± 0.2	1219± 55
100 ppm	10	10.56± 0.40	15.7± 0.5	49.6± 1.9	47.0± 0.4	14.9± 0.2	31.7± 0.6	1232± 107
200 ppm	10	10.11± 0.21**	15.3± 0.4	48.7± 1.2	48.2± 0.6**	15.2± 0.3	31.4± 0.4	1242± 64

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) N-BAND		N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHERS	
0 ppm	8	1.44±	1.18	0±	0	21±	6	0±	1	0±	0	2±	1	76±	7	0±	0
12.5 ppm	10	1.43±	0.94	0±	0	19±	6	1±	1	0±	0	3±	1	77±	7	0±	0
25 ppm	10	0.86±	0.79	0±	0	23±	13	1±	1	0±	0	3±	2	73±	11	0±	0
50 ppm	10	1.34±	1.19	0±	0	18±	8	1±	1	0±	0	3±	2	78±	7	0±	0
100 ppm	10	1.41±	1.28	0±	0	22±	7	1±	1	0±	0	3±	2	73±	8	0±	0
200 ppm	10	1.42±	0.71	0±	0	19±	6	1±	1	0±	0	2±	1	77±	7	0±	0

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

APPENDIX E 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	TOTAL PROTEIN g/dℓ		ALBUMIN g/dℓ		A/G RATIO		T-BILIRUBIN mg/dℓ		GLUCOSE mg/dℓ		T-CHOLESTEROL mg/dℓ		TRIGLYCERIDE mg/dℓ	
0 ppm	10	5.0±	0.1	2.9±	0.1	1.3±	0.1	0.14±	0.01	189±	31	75±	4	24±	5
12.5 ppm	10	4.8±	0.1	2.8±	0.1	1.3±	0.1	0.14±	0.01	180±	41	70±	7	23±	11
25 ppm	9	4.9±	0.2	2.8±	0.1	1.4±	0.1	0.14±	0.01	173±	42	74±	7	16±	7*
50 ppm	9	4.9±	0.2	2.8±	0.1	1.4±	0.1	0.14±	0.03	168±	32	68±	9	14±	5**
100 ppm	10	5.0±	0.2	2.9±	0.1	1.3±	0.1	0.14±	0.01	180±	38	78±	10	14±	5**
200 ppm	10	4.9±	0.1	2.8±	0.1	1.3±	0.1	0.15±	0.01	175±	40	78±	11	16±	6

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ	GOT IU/ℓ	GPT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CPK IU/ℓ
0 ppm	10	158± 7	45± 5	18± 3	193± 30	155± 5	1± 1	47± 15
12.5 ppm	10	148± 15	49± 10	20± 3	192± 35	159± 12	2± 1	49± 19
25 ppm	9	154± 16	56± 16	29± 24**	205± 32	164± 14	1± 1	42± 12
50 ppm	9	139± 16	50± 5	22± 5	243± 88	161± 5	1± 1	61± 29
100 ppm	10	157± 20	42± 7	18± 4	172± 27	161± 13	1± 1	34± 10
200 ppm	10	150± 18	40± 3	17± 2	187± 28	144± 8	1± 1	30± 6*

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ		SODIUM mEq/ℓ		POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
0 ppm	10	25.9±	2.3	150±	1	4.8±	0.2	122±	2	8.8±	0.2	7.2±	0.9
12.5 ppm	10	25.0±	2.6	151±	2	4.5±	0.4	122±	3	8.7±	0.2	7.0±	1.0
25 ppm	9	27.8±	7.2	151±	2	4.5±	0.6	122±	3	8.7±	0.2	6.7±	0.7
50 ppm	9	26.0±	3.4	151±	1	4.8±	0.6	123±	2	8.6±	0.3	7.2±	1.2
100 ppm	10	27.8±	5.8	151±	1	4.3±	0.3	121±	3	8.8±	0.2	6.7±	1.0
200 ppm	10	24.1±	5.4	151±	2	4.6±	0.3	122±	2	8.6±	0.2	6.8±	1.0

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

APPENDIX E 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	TOTAL PROTEIN g/dl	ALBUMIN g/dl	A/G RATIO	T-BILIRUBIN mg/dl	GLUCOSE mg/dl	T-CHOLESTEROL mg/dl	TRIGLYCERIDE mg/dl
0 ppm	9	5.2± 0.1	3.2± 0.1	1.6± 0.1	0.13± 0.02	154± 28	68± 9	13± 7
12.5 ppm	10	5.1± 0.1	3.1± 0.1	1.6± 0.1	0.13± 0.01	157± 23	73± 9	18± 4
25 ppm	10	5.1± 0.1	3.1± 0.1	1.6± 0.1	0.14± 0.01	161± 28	64± 7	13± 7
50 ppm	10	5.3± 0.1	3.2± 0.1	1.5± 0.1	0.13± 0.01	171± 22	72± 11	12± 5
100 ppm	10	5.2± 0.1	3.1± 0.1	1.6± 0.1	0.14± 0.02	156± 30	71± 9	12± 4
200 ppm	10	5.0± 0.1*	3.0± 0.1*	1.6± 0.1	0.14± 0.01	164± 20	76± 5	10± 3

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ	GOT IU/ℓ	GPT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CPK IU/ℓ
0 ppm	9	133± 27	77± 37	28± 10	311± 182	263± 51	1± 1	141± 155
12.5 ppm	10	148± 23	64± 17	23± 4	252± 105	251± 47	2± 1	104± 108
25 ppm	10	130± 18	70± 19	26± 4	286± 88	251± 23	2± 1	119± 115
50 ppm	10	140± 24	59± 19	23± 7	236± 82	230± 31	2± 1	63± 51
100 ppm	10	135± 25	75± 41	24± 8	326± 200	244± 34	1± 1	85± 83
200 ppm	10	138± 14	53± 10	22± 6	229± 39	216± 18*	1± 1	46± 29**

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 014-3
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (14W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ		SODIUM mEq/ℓ		POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ		CALCIUM mg/dℓ		INORGANIC PHOSPHORUS mg/dℓ	
0 ppm	9	25.0±	6.3	150±	2	4.6±	0.5	123±	3	8.8±	0.3	7.2±	1.3
12.5 ppm	10	21.1±	4.8	150±	2	4.7±	0.4	122±	3	9.0±	0.2	6.4±	0.8
25 ppm	10	21.1±	2.7	150±	1	4.7±	0.4	122±	2	8.9±	0.2	6.7±	0.7
50 ppm	10	21.7±	5.3	150±	2	4.8±	0.5	121±	3	9.0±	0.2	6.6±	0.4
100 ppm	10	24.6±	5.5	150±	3	4.5±	0.4	123±	4	8.9±	0.2	6.6±	0.9
200 ppm	10	22.3±	3.7	150±	2	4.4±	0.4	121±	3	8.9±	0.2	6.1±	0.7

Significant defference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

APPENDIX F 1

URINALYSIS : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 013-6
SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH 5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	Protein −	±	+	2+	3+	4+	CHI	Glucose −	±	+	2+	3+	4+	CHI	Ketone body −	±	+	2+	3+	4+	CHI	Occult blood −	±	+	2+	3+	CHI
0 ppm	10	0	0	0	1	0	8	1		0	0	3	7	0	0		10	0	0	0	0	0		0	6	4	0	0	0		10	0	0	0	0	
12.5 ppm	10	0	0	1	1	4	4	0		0	0	2	8	0	0		10	0	0	0	0	0		0	6	4	0	0	0		10	0	0	0	0	
25 ppm	10	0	0	0	0	5	4	1		0	0	5	5	0	0		10	0	0	0	0	0		0	8	2	0	0	0		10	0	0	0	0	
50 ppm	9	0	1	0	0	4	4	0		0	0	5	4	0	0		9	0	0	0	0	0		0	5	4	0	0	0		9	0	0	0	0	
100 ppm	10	0	0	1	1	5	3	0		0	0	3	6	1	0		10	0	0	0	0	0		0	9	1	0	0	0		10	0	0	0	0	
200 ppm	10	0	0	0	0	3	6	1		0	0	6	4	0	0		10	0	0	0	0	0		0	9	1	0	0	0		10	0	0	0	0	

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

BAIS3

(HCL101)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 013-6
SEX : MALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	Urobilinogen ±	+	2+	3+	4+	CHI
0 ppm	10	10	0	0	0	0	
12.5 ppm	10	10	0	0	0	0	
25 ppm	10	10	0	0	0	0	
50 ppm	9	9	0	0	0	0	
100 ppm	10	10	0	0	0	0	
200 ppm	10	10	0	0	0	0	

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

APPENDIX F 2

URINALYSIS : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 013-6
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH 5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	Protein −	±	+	2+	3+	4+	CHI	Glucose −	±	+	2+	3+	4+	CHI	Ketone body −	±	+	2+	3+	4+	CHI	Occult blood −	±	+	2+	3+	CHI
0 ppm	10	0	1	2	0	1	6	0		0	1	8	1	0	0		10	0	0	0	0	0		3	5	1	1	0	0		10	0	0	0	0	
12.5 ppm	10	0	0	0	1	5	4	0		0	1	6	3	0	0		10	0	0	0	0	0		2	8	0	0	0	0		10	0	0	0	0	
25 ppm	10	0	0	1	0	6	3	0		0	0	6	4	0	0		10	0	0	0	0	0		1	6	3	0	0	0		10	0	0	0	0	
50 ppm	10	0	0	0	1	1	8	0		0	0	8	2	0	0		10	0	0	0	0	0		2	7	1	0	0	0		10	0	0	0	0	
100 ppm	10	0	0	1	3	2	4	0		0	0	8	2	0	0		10	0	0	0	0	0		1	9	0	0	0	0		10	0	0	0	0	
200 ppm	10	0	0	1	0	3	6	0		0	1	7	2	0	0		10	0	0	0	0	0		3	6	1	0	0	0		10	0	0	0	0	

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
SAMPLING DATE : 013-6
SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	Urobilinogen ±	+	2+	3+	4+	CHI
0 ppm	10	10	0	0	0	0	
12.5 ppm	10	10	0	0	0	0	
25 ppm	10	10	0	0	0	0	
50 ppm	10	10	0	0	0	0	
100 ppm	10	10	0	0	0	0	
200 ppm	10	10	0	0	0	0	

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

APPENDIX G 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 14W)

Organ	Findings	Group Name NO. of Animals	0 ppm 0 (%)	12.5 ppm 0 (%)	25 ppm 0 (%)	50 ppm 1 (%)
spleen	black zone		- (-)	- (-)	- (-)	1 (100)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 14W)

Organ	Findings	Group Name	100 ppm	200 ppm
		NO. of Animals	0 (%)	0 (%)
spleen	black zone		- (-)	- (-)

APPENDIX G 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE : SACRIFICED ANIMALS

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name / NO. of Animals	0 ppm 10 (%)	12.5 ppm 10 (%)	25 ppm 10 (%)	50 ppm 9 (%)
spleen	black zone		0 (0)	1 (10)	0 (0)	1 (11)
forestomach	ulcer		0 (0)	0 (0)	0 (0)	0 (0)
gl stomach	erosion		0 (0)	0 (0)	0 (0)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)	1 (10)	0 (0)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name NO. of Animals	100 ppm 10 (%)	200 ppm 10 (%)
spleen	black zone		0 (0)	0 (0)
forestomach	ulcer		0 (0)	1 (10)
gl stomach	erosion		0 (0)	1 (10)
kidney	hydronephrosis		2 (20)	0 (0)

APPENDIX G 3

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name / NO. of Animals	0 ppm 10 (%)	12.5 ppm 10 (%)	25 ppm 10 (%)	50 ppm 10 (%)
spleen	black zone		0 (0)	0 (0)	3 (30)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)	0 (0)	1 (10)
ovary	cyst		0 (0)	1 (10)	0 (0)	0 (0)

Organ	Findings	Group Name NO. of Animals	100 ppm 10 (%)	200 ppm 10 (%)
spleen	black zone		2 (20)	1 (10)
kidney	hydronephrosis		0 (0)	1 (10)
ovary	cyst		0 (0)	0 (0)

APPENDIX H 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
0 ppm	10	26.5± 1.6	0.031± 0.006	0.011± 0.003	0.216± 0.015	0.151± 0.017	0.164± 0.009
12.5 ppm	10	26.8± 2.7	0.035± 0.009	0.009± 0.001	0.227± 0.028	0.151± 0.012	0.158± 0.007
25 ppm	10	25.9± 1.4	0.029± 0.005	0.009± 0.001	0.210± 0.043	0.153± 0.011	0.159± 0.011
50 ppm	9	25.7± 0.9	0.032± 0.006	0.008± 0.001*	0.216± 0.051	0.152± 0.010	0.161± 0.009
100 ppm	10	26.0± 1.3	0.034± 0.006	0.011± 0.001	0.212± 0.023	0.149± 0.009	0.164± 0.009
200 ppm	10	26.0± 1.4	0.034± 0.003	0.010± 0.003	0.186± 0.029	0.143± 0.009	0.164± 0.009

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

(HCL040)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
0 ppm	10	0.427± 0.021	0.043± 0.003	1.103± 0.042	0.433± 0.020
12.5 ppm	10	0.436± 0.017	0.046± 0.006	1.102± 0.067	0.435± 0.013
25 ppm	10	0.453± 0.134	0.046± 0.004	1.079± 0.041	0.439± 0.016
50 ppm	9	0.430± 0.019	0.044± 0.004	1.093± 0.047	0.429± 0.021
100 ppm	10	0.490± 0.147	0.049± 0.011	1.085± 0.030	0.437± 0.016
200 ppm	10	0.429± 0.016	0.047± 0.005	1.073± 0.041	0.423± 0.018

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

APPENDIX H 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
0 ppm	10	20.3± 1.1	0.036± 0.007	0.013± 0.002	0.030± 0.008	0.128± 0.005	0.155± 0.012
12.5 ppm	10	21.1± 1.0	0.040± 0.006	0.013± 0.002	0.035± 0.007	0.126± 0.004	0.159± 0.010
25 ppm	10	20.7± 1.3	0.036± 0.004	0.012± 0.002	0.031± 0.005	0.128± 0.005	0.156± 0.012
50 ppm	10	20.7± 1.2	0.039± 0.007	0.012± 0.002	0.029± 0.004	0.123± 0.011	0.154± 0.013
100 ppm	10	20.2± 0.8	0.038± 0.007	0.012± 0.001	0.028± 0.003	0.121± 0.010	0.152± 0.011
200 ppm	10	20.1± 0.6	0.038± 0.003	0.012± 0.002	0.028± 0.004	0.120± 0.009*	0.156± 0.008

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
0 ppm	10	0.298± 0.011	0.052± 0.006	0.898± 0.092	0.447± 0.014
12.5 ppm	10	0.298± 0.015	0.054± 0.006	0.928± 0.091	0.456± 0.011
25 ppm	10	0.305± 0.020	0.052± 0.009	0.903± 0.065	0.451± 0.018
50 ppm	10	0.367± 0.230	0.054± 0.010	0.902± 0.063	0.449± 0.007
100 ppm	10	0.310± 0.014	0.050± 0.007	0.879± 0.079	0.445± 0.018
200 ppm	10	0.391± 0.263	0.056± 0.007	0.886± 0.041	0.429± 0.026

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

APPENDIX I 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
0 ppm	10	26.5± 1.6	0.116± 0.020	0.041± 0.009	0.819± 0.093	0.570± 0.060	0.619± 0.056
12.5 ppm	10	26.8± 2.7	0.131± 0.029	0.034± 0.005	0.858± 0.153	0.566± 0.037	0.594± 0.060
25 ppm	10	25.9± 1.4	0.113± 0.015	0.036± 0.005	0.810± 0.172	0.592± 0.045	0.614± 0.044
50 ppm	9	25.7± 0.9	0.125± 0.020	0.033± 0.004*	0.844± 0.205	0.591± 0.046	0.628± 0.039
100 ppm	10	26.0± 1.3	0.131± 0.019	0.041± 0.005	0.817± 0.112	0.574± 0.027	0.631± 0.029
200 ppm	10	26.0± 1.4	0.129± 0.013	0.039± 0.011	0.716± 0.113	0.552± 0.032	0.634± 0.050

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
0 ppm	10	1.611± 0.083	0.162± 0.012	4.162± 0.129	1.638± 0.123
12.5 ppm	10	1.635± 0.137	0.170± 0.013	4.124± 0.228	1.637± 0.184
25 ppm	10	1.762± 0.564	0.178± 0.016	4.176± 0.230	1.697± 0.091
50 ppm	9	1.676± 0.112	0.173± 0.012	4.261± 0.225	1.671± 0.099
100 ppm	10	1.886± 0.590	0.186± 0.037	4.171± 0.122	1.682± 0.122
200 ppm	10	1.652± 0.087	0.179± 0.019	4.129± 0.189	1.631± 0.112

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

APPENDIX I 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
0 ppm	10	20.3± 1.1	0.177± 0.025	0.063± 0.010	0.144± 0.033	0.632± 0.026	0.764± 0.036
12.5 ppm	10	21.1± 1.0	0.190± 0.022	0.060± 0.010	0.163± 0.028	0.595± 0.027	0.753± 0.046
25 ppm	10	20.7± 1.3	0.172± 0.019	0.058± 0.010	0.147± 0.015	0.617± 0.029	0.751± 0.045
50 ppm	10	20.7± 1.2	0.189± 0.029	0.056± 0.007	0.141± 0.017	0.598± 0.056	0.747± 0.069
100 ppm	10	20.2± 0.8	0.188± 0.030	0.058± 0.007	0.137± 0.013	0.601± 0.048	0.754± 0.040
200 ppm	10	20.1± 0.6	0.190± 0.015	0.062± 0.011	0.137± 0.023	0.595± 0.038	0.774± 0.041

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

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
0 ppm	10	1.470± 0.078	0.255± 0.024	4.406± 0.254	2.201± 0.118
12.5 ppm	10	1.413± 0.058	0.256± 0.020	4.385± 0.261	2.165± 0.131
25 ppm	10	1.474± 0.046	0.248± 0.038	4.356± 0.141	2.182± 0.134
50 ppm	10	1.769± 1.079	0.260± 0.039	4.363± 0.231	2.179± 0.133
100 ppm	10	1.538± 0.056	0.247± 0.027	4.348± 0.249	2.209± 0.123
200 ppm	10	1.928± 1.222	0.279± 0.029	4.408± 0.216	2.135± 0.115

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

APPENDIX J 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 14W)

Organ	Findings	Group Name	0 ppm				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	0				0				0				1			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
[Circulatory system]																		
heart			< 0>				< 0>				< 0>				< 1>			
	necrosis		-	-	-	-	-	-	-	-	-	-	-	-	0	1	0	0
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)
[Urinary system]																		
kidney			< 0>				< 0>				< 0>				< 1>			
	hydronephrosis		-	-	-	-	-	-	-	-	-	-	-	-	0	0	1	0
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(0)	(0)	(100)	(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

Organ	Findings	Group Name	100 ppm				200 ppm			
		No. of Animals on Study	0				0			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Circulatory system]										
heart			< 0>				< 0>			
	necrosis		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Urinary system]										
kidney			< 0>				< 0>			
	hydronephrosis		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

APPENDIX J 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE: SACRIFICED ANIMALS

(13 - WEEK STUDY)

STUDY NO. : 0341
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (14W)

Organ	Findings	Group Name	0 ppm				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	10				10				10				9			
		Grade	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Hematopoietic system]																		
spleen			<10>				<10>				<10>				< 9>			
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	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 melanin		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)
[Digestive system]																		
salivary gl			<10>				<10>				<10>				< 9>			
	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (11)	0 (0)	0 (0)	0 (0)
stomach			<10>				<10>				<10>				< 9>			
	hyperplasia:forestomach		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
liver			<10>				<10>				<10>				< 9>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation		2 (20)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (44)	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	100 ppm				200 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
spleen	deposit of hemosiderin		<10>				<10>			
			0	0	0	0	10	0	0	0 **
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of melanin		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Digestive system]										
salivary gl	lymphocytic infiltration		<10>				<10>			
			0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	hyperplasia:forestomach		<10>				<10>			
			1	0	0	0	6	1	0	0 **
			(10)	(0)	(0)	(0)	(60)	(10)	(0)	(0)
liver	necrosis:focal		<10>				<10>			
			1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulation		2	0	0	0	2	0	0	0
			(20)	(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 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	0 ppm				12.5 ppm				25 ppm				50 ppm			
		No. of Animals on Study	10				10				10				9			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																		
kidney	basophilic change		<10>				<10>				<10>				< 9>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		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)	(0)	(0)	(0)
[Reproductive system]																		
testis	germ cell necrosis		<10>				<10>				<10>				< 9>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(11)	(0)	(0)
epididymis	decreased:sperma		<10>				<10>				<10>				< 9>			
			0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(11)	(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	100 ppm				200 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]										
kidney			<10>				<10>			
	basophilic change		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	hydronephrosis		0	2	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)
[Reproductive system]										
testis			<10>				<10>			
	germ cell necrosis		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
epididymis			<10>				<10>			
	decreased:sperma		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

APPENDIX J 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(13 - WEEK STUDY)

Organ	Findings	Group Name	0 ppm				12.5 ppm				25 ppm				50 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 (%)
[Respiratory system]																		
nasal cavit			<10>				<10>				<10>				<10>			
	eosinophilic change:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasopharynx			<10>				<10>				<10>				<10>			
	eosinophilic change		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Hematopoietic system]																		
spleen			<10>				<10>				<10>				<10>			
	deposit of hemosiderin		10 (100)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)
	deposit of melanin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	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	100 ppm				200 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]										
nasal cavit			<10>				<10>			
	eosinophilic change:olfactory epithelium		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		0	0	0	0	9	0	0	0 **
			(0)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	inflammation:respiratory epithelium		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
nasopharynx			<10>				<10>			
	eosinophilic change		0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
[Hematopoietic system]										
spleen			<10>				<10>			
	deposit of hemosiderin		10	0	0	0	4	6	0	0 *
			(100)	(0)	(0)	(0)	(40)	(60)	(0)	(0)
	deposit of melanin		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 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	0 ppm				12.5 ppm				25 ppm				50 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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
salivary gl			<10>				<10>				<10>				<10>			
	lymphocytic infiltration		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<10>				<10>				<10>				<10>			
	erosion:forestomach		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		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)
liver			<10>				<10>				<10>				<10>			
	granulation		2	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
[Urinary system]																		
kidney			<10>				<10>				<10>				<10>			
	basophilic change		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)

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	100 ppm				200 ppm			
		No. of Animals on Study	10				10			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]										
salivary gl			<10>				<10>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach			<10>				<10>			
	erosion:forestomach		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	hyperplasia:forestomach		4	0	0	0	5	1	0	0 *
			(40)	(0)	(0)	(0)	(50)	(10)	(0)	(0)
liver			<10>				<10>			
	granulation		3	0	0	0	0	0	0	0
			(30)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Urinary system]										
kidney			<10>				<10>			
	basophilic change		1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)

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

APPENDIX K 1

IDENTITY OF ALLYL CHLORIDE IN THE 13 - WEEK INHALATION STUDY

IDENTITY OF ALLYL CHLORIDE IN THE 13-WEEK INHALATION STUDY

Test Substance : Allyl chloride(Wako Pure Chemical Industries, LTD.)

Lot No. : WTK5293

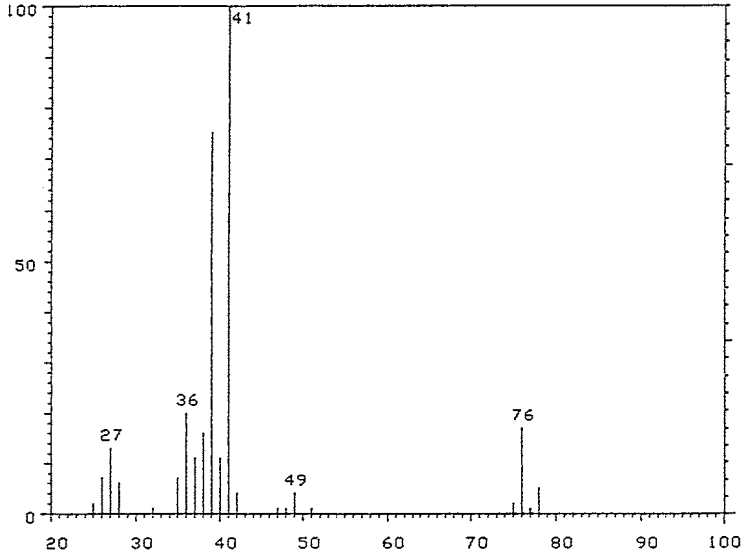
1. Spectral data

Mass Spectrometry

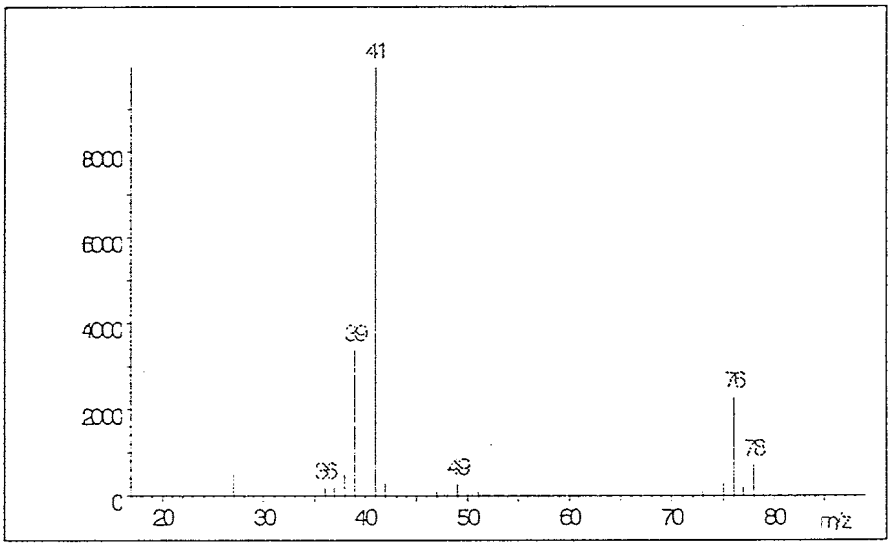
Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance m/Z



Mass Spectrum of Allyl chloride(Literature data*)

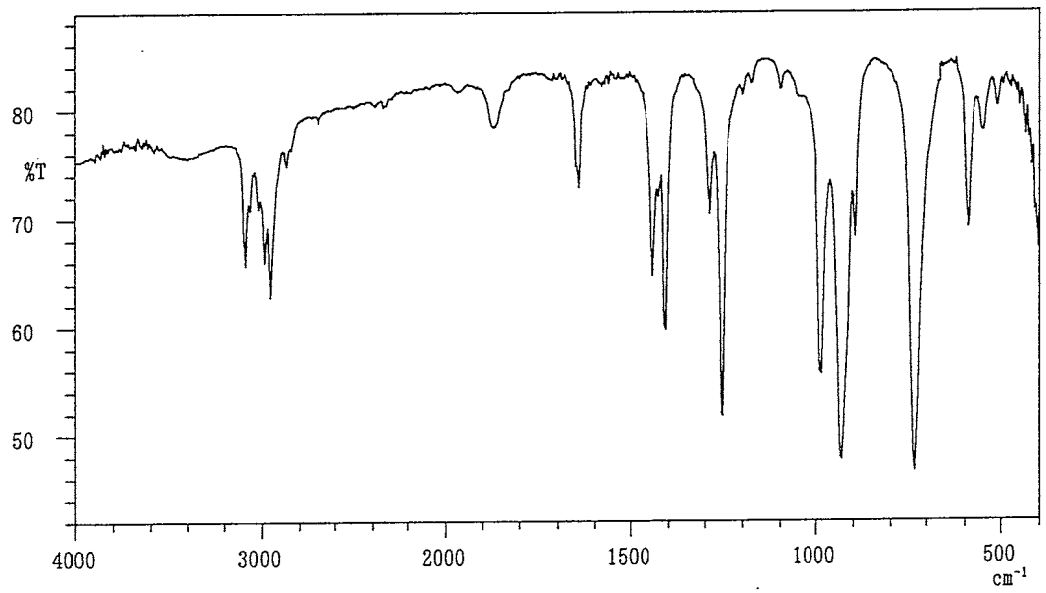
Results: The mass spectrum was consistent with literature spectrum.

*Wiley 138K Mass Spectral Data Base Entry Number 1989(1990)
John Wiley and Sons Inc.,U.K.

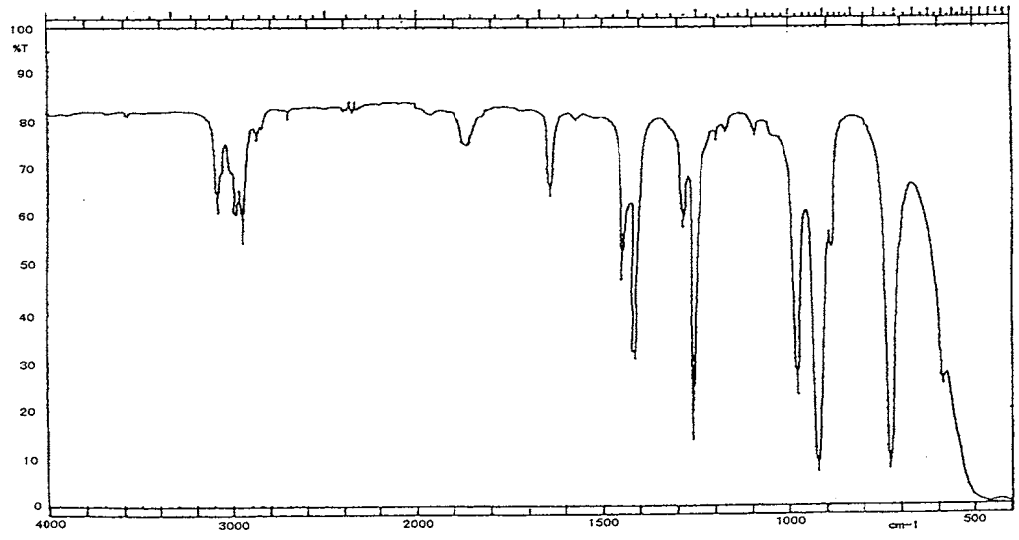
Infrared Spectrometry

Instrument : Shimazdu FT-IR 8200PC Infrared Spectrometer

Cell : KBr



Infrared Spectrum of Test Substance



Infrared Spectrum of Allyl chloride(Literature data*)

*Performed by Wako Pure Chemical Industries, LTD.

Results: The infrared spectrum was consistent with literature spectrum.

2. Conclusions: The test substance was identified as Allyl chloride, by the mass spectrum and the infrared spectrum.

APPENDIX K 2

STABILITY OF ALLYL CHLORIDE IN THE 13 - WEEK INHALATION STUDY

STABILITY OF ALLYL CHLORIDE IN THE 13-WEEK INHALATION STUDY

Test Substance : Allyl chloride(Wako Pure Chemical Industries, LTD.)

Lot No. : WTK5293

1.Sample: This lot was used from 1997.9.17 to 1997.12.16. Test substance was stored at room temperature .

2. Gas Chromatography

Instrument : Hewlett Packard 6890

Column : Hewlett Packard INNOWAX(0.53mmϕ×60m)

Column Temperature : 50°C

Flow Rate : 10 ml/min

Detector : FID(Flame Ionization Detector)

Injection Volume : 1 μl

Results : Gas chromatography indicated one major peak(peak No.3) and three impurities(peak No.1,2,4 < 2% of total area) analyzed at 1997.9.12 and one major peak(peak No.3) and three impurities(peak No.1,2,4 < 2% of total area) analyzed at 1997.12.19. It was identified only by comparing its gas chlomatograph with that of the 1-chloropropene(peak No.1) and 1,5-hexadiene(peak No.2) and 2-propanol(peak No.4) in the allyl chloride, the amount in the test substance were 0.12% and 0.25% and 0.004% at 1997.9.12. No new trace impurity peak in the test substance analyzed at 1997.12.19 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	AREA(%)
1997.09.12	1	2.629	0.519
	2	2.901	0.512
	3	3.249	98.961
	4	5.246	0.008
1997.12.19	1	2.626	0.525
	2	2.898	0.517
	3	3.224	98.952
	4	5.234	0.006

3. Conclusions: The test substance was stable for about 3 months in the dark at room temperature.

APPENDIX L 1

CONCENTMOUSEION OF ALLYL CHLORIDE IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

CONCENTRATION OF ALLYL CHLORIDE IN THE INHALATION CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
0ppm(Control)	0.0 ± 0.0
12.5ppm	12.4 ± 0.1
25ppm	24.9 ± 0.1
50ppm	49.9 ± 0.2
100ppm	100.1 ± 0.3
200ppm	199.3 ± 0.8

APPENDIX L 2

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE

13 - WEEK INHALATION STUDY OF ALLYL CHLORIDE

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 13-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Group Name	Temperature(℃) Mean ± S.D.	Humidity(%) Mean ± S.D.	Ventilation Rate(L/min) Mean ± S.D.	Air Change(time/h) Mean
0ppm(Control)	22.2 ± 0.1	56.0 ± 0.5	131.4 ± 0.6	15.2
12.5ppm	22.2 ± 0.1	52.1 ± 0.6	131.9 ± 0.3	15.2
25ppm	21.7 ± 0.1	54.9 ± 0.8	131.3 ± 0.5	15.2
50ppm	21.9 ± 0.1	50.9 ± 0.5	132.1 ± 0.4	15.2
100ppm	22.1 ± 0.1	52.2 ± 2.3	131.6 ± 0.2	15.2
200ppm	21.7 ± 0.2	51.5 ± 1.0	131.1 ± 0.3	15.1

APPENDIX M 1

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS IN THE 13 - WEEK INHALATION STUDY OF ALLYL CHLORIDE

METHODS FOR HEMATOLOGY,BIOCHEMISTRY AND URINALYSIS IN THE 13-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Item	Method
Hematology	
Red blood cell (RBC)	Light scattering method [1]
Hemoglobin (Hgb)	Cyanmethemoglobin method [1]
Hematocrit (Hct)	Calculated as RBC × MCV/10 [1]
Mean corpuscular volume (MCV)	Light scattering method [1]
Mean corpuscular hemoglobin (MCH)	Calculated as Hgb/RBC × 10 [1]
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as Hgb/Hct × 100 [1]
Platelet	Light scattering method [1]
White blood cell (WBC)	Light scattering method [1]
Differential WBC	Pattern recognition method [2] (May-Grunwald-Giemsa staining)
Biochemistry	
Total protein (TP)	Biuret method [3]
Albumin (Alb)	BCG method [3]
A/G ratio	Calculated as Alb/(TP－Alb) [3]
T-bilirubin	Alkaline azobilirubin method [3]
Glucose	Enzymatic method (GLK・G-6-PDH) [3]
T-cholesterol	Enzymatic method (CE・COD・POD) [3]
Triglyceride	Enzymatic method (LPL・GK・GPO・POD) [3]
Phospholipid	Enzymatic method (PLD・COD・POD) [3]
Glutamic oxaloacetic transaminase (GOT)	UV・Rate method [3]
Glutamic pyruvic transaminase (GPT)	UV・Rate method [3]
Lactate dehydrogenase (LDH)	UV・Rate method [3]
Alkaline phosphatase (ALP)	p-Nitrophenylphosphate method [3]
γ-Glutamyl transpeptidase (γ-GTP)	L-γ-Glutamyl-p-nitroanilide method [3]
Creatine phosphokinase (CPK)	UV・Rate method [3]
Urea nitrogen	Enzymatic method (Urease・GLDH) [3]
Sodium	Ion selective electrode method [3]
Potassium	Ion selective electrode method [3]
Chloride	Ion selective electrode method [3]
Calcium	OCPC method [3]
Inorganic phosphorus	Enzymatic method (PNP・XOD・POD) [3]
Urinalysis	
pH,Protein,Glucose,Ketone body,Occult Blood, Urobilinogen	Urinalysis reagent paper method [4]

1) Automatic blood cell analyzer (Technicon H・1 : Technicon Instruments Corporation,USA)

2) Automatic blood cell differential analyzer (Hitachi 8200 : Hitachi,Ltd.,Japan)

3) Automatic analyzer (Hitachi 7070 : Hitachi,Ltd.,Japan)

4) Ames reagent strips for urinalysis (Uro-Labstix : Bayer-Sankyo Co.,Ltd.,Japan)

APPENDIX M 2

UNITS AND DECIMARL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 13 - WEEK INHALATION STUDY OF ALLYL CHLORIDE

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 13-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Item	Unit	Decimal place
Hematology		
Red blood cell (RBC)	$\times 10^6/\mu L$	2
Hemoglobin	g/dL	1
Hematocrit	%	1
Mean corpuscular volume (MCV)	fL	1
Mean corpuscular hemoglobin (MCH)	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	g/dL	1
Platelet	$\times 10^3/\mu L$	0
White blood cell (WBC)	$\times 10^3/\mu L$	2
Differential WBC	%	0
Biochemistry		
Total protein	g/dL	1
Albumin	g/dL	1
A/G ratio	–	1
T-bilirubin	mg/dL	2
Glucose	mg/dL	0
T-cholesterol	mg/dL	0
Triglyceride	mg/dL	0
Phospholipid	mg/dL	0
Glutamic oxaloacetic transaminase (GOT)	IU/L	0
Glutamic pyruvic transaminase (GPT)	IU/L	0
Lactate dehydrogenase (LDH)	IU/L	0
Alkaline phosphatase (ALP)	IU/L	0
γ-Glutamyl transpeptidase (γ-GTP)	IU/L	0
Creatine phosphokinase (CPK)	IU/L	0
Urea nitrogen	mg/dL	1
Sodium	mEq/L	0
Potassium	mEq/L	1
Chloride	mEq/L	0
Calcium	mg/dL	1
Inorganic phosphorus	mg/dL	1