p-ニトロアニソールのマウス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：０３６１

APPENDIX

APPENDIXES

APPENDIXES (CONTINUED)

APPENDIXES (CONTINUED)

APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-1 1	1-3 1	1-7 1	2-3 1	2-7 1
DEATH	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	0	4	-
	50000 ppm	0	0	4	-	-
HUNCHBACK POSITION	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	5	1	-
	50000 ppm	0	0	1	-	-
PILOERECTION	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	5	1	-
	50000 ppm	0	0	1	-	-
YELLOW URINE	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	5	5	5	5
	20000 ppm	0	5	5	5	5
	40000 ppm	0	5	5	1	-
	50000 ppm	0	5	1	-	-
SMALL STOOL	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	5	1	-
	50000 ppm	0	0	1	-	-
OLIGO-STOOL	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	5	5	1	-
	50000 ppm	0	5	1	-	-

APPENDIX A 2

CLINICAL OBSERVATION : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day 1-1 1	1-3 1	1-7 1	2-3 1	2-7 1
DEATH	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	4	-	-
	50000 ppm	0	1	-	-	-
HUNCHBACK POSITION	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	2	1	-	-
	50000 ppm	0	0	-	-	-
PILOERECTION	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	0	1	-	-
	50000 ppm	0	0	-	-	-
YELLOW URINE	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	5	5	5	5
	20000 ppm	0	5	5	5	5
	40000 ppm	0	5	1	-	-
	50000 ppm	0	4	-	-	-
SMALL STOOL	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	0	0	0	0
	40000 ppm	0	5	1	-	-
	50000 ppm	0	4	-	-	-
OLIGO-STOOL	Control	0	0	0	0	0
	5000 ppm	0	0	0	0	0
	10000 ppm	0	0	0	0	0
	20000 ppm	0	5	5	0	0
	40000 ppm	0	5	1	-	-
	50000 ppm	0	4	-	-	-

APPENDIX B 1

BODY WEIGHT CHANGES : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-1	1-3	1-7	2-3	2-7
Control	23.7± 0.5	23.9± 0.5	24.1± 0.6	24.6± 0.6	25.3± 0.5	26.2± 0.7
5000 ppm	23.6± 0.8	23.3± 0.4	23.7± 0.6	24.0± 0.8	24.4± 0.5	25.5± 0.8
10000 ppm	23.7± 0.7	22.7± 0.6*	23.6± 0.7	24.3± 1.0	24.7± 0.7	26.0± 0.8
20000 ppm	23.6± 0.6	21.5± 0.5**	21.3± 0.5**	22.1± 0.4**	22.3± 1.4**	24.1± 0.9**
40000 ppm	23.6± 0.6	21.1± 0.7**	19.0± 0.5**	15.3± 0.6**	14.7± 0.4 ?	-
50000 ppm	23.6± 0.8	20.4± 0.9**	17.8± 1.3**	15.4± 0.0 ?	-	-

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

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

APPENDIX B 2

BODY WEIGHT CHANGES : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-1	1-3	1-7	2-3	2-7
Control	17.8± 0.7	17.7± 1.2	17.6± 0.9	18.4± 1.2	18.7± 0.5	19.0± 0.9
5000 ppm	17.8± 0.7	17.0± 0.6	17.9± 0.5	18.0± 0.4	18.8± 0.7	19.7± 0.4
10000 ppm	17.8± 0.7	16.6± 0.8	17.9± 0.5	18.3± 0.8	18.8± 0.7	20.1± 0.7
20000 ppm	17.8± 0.7	15.9± 0.7**	15.8± 0.7**	16.8± 0.5*	17.8± 0.9	20.1± 1.0
40000 ppm	17.8± 0.6	15.3± 0.8**	12.7± 1.0**	10.9± 0.0 ?	-	-
50000 ppm	17.8± 0.7	15.1± 0.9**	12.3± 0.7**	-	-	-

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

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

APPENDIX C 1

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-3(3)	1-7(4)	2-3(3)	2-7(4)
Control	4.1± 0.5	4.0± 0.3	4.1± 0.3	4.1± 0.3
5000 ppm	3.2± 0.3	3.7± 0.1	3.7± 0.4	3.8± 0.2
10000 ppm	3.5± 0.3	4.1± 0.3	4.1± 0.3	4.1± 0.3
20000 ppm	2.3± 0.6*	3.7± 0.8	3.6± 0.8	3.9± 0.3
40000 ppm	2.0± 1.7**	3.4± 1.5	1.2± 0.0 ?	-
50000 ppm	2.2± 0.8*	1.4± 0.0 ?	-	-

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

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

APPENDIX C 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-3(3)	1-7(4)	2-3(3)	2-7(4)
Control	3.5± 0.3	3.6± 0.2	3.4± 0.4	3.3± 0.4
5000 ppm	3.8± 1.1	3.9± 1.2	3.8± 1.0	4.0± 0.9
10000 ppm	3.7± 0.8	3.8± 0.6	4.0± 0.7	4.0± 1.0
20000 ppm	3.2± 1.8	4.8± 1.5	5.2± 2.0	3.6± 0.6
40000 ppm	1.2± 0.6*	0.7± 0.0 ?	-	-
50000 ppm	0.9± 0.3*	-	-	-

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

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

APPENDIX D 1

CHEMICAL INTAKE CHANGES : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g／kg／d a y
REPORT TYPE : A1 2
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 1	2
Control	0.000± 0.000	0.000± 0.000
5000 ppm	0.772± 0.019	0.749± 0.025
10000 ppm	1.668± 0.098	1.571± 0.098
20000 ppm	3.379± 0.679	3.265± 0.223
40000 ppm	8.903± 3.787	-
50000 ppm	4.545± 0.000	-

APPENDIX D 2

CHEMICAL INTAKE CHANGES : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 2
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration (weeks) 1	2
Control	0.000± 0.000	0.000± 0.000
5000 ppm	1.087± 0.300	1.023± 0.224
10000 ppm	2.090± 0.290	1.991± 0.491
20000 ppm	5.643± 1.733	3.676± 0.361
40000 ppm	2.569± 0.000	-
50000 ppm	-	-

APPENDIX E 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (2W)

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 $10^3/\mu\ell$
Control	3	10.32± 0.63	15.9± 1.0	51.3± 2.7	49.8± 0.7	15.4± 0.1	30.9± 0.6	1237± 136
5000 ppm	5	10.52± 0.17	15.8± 0.4	52.1± 1.2	49.5± 0.6	15.0± 0.3*	30.3± 0.2	1210± 91
10000 ppm	5	10.01± 0.30	15.1± 0.6	49.2± 1.9	49.2± 0.5	15.0± 0.2*	30.6± 0.2	1243± 62
20000 ppm	5	10.40± 0.38	15.5± 0.6	50.3± 1.8	48.3± 0.3**	14.9± 0.2*	30.9± 0.3	1271± 112
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) N-BAND	N-SEG	EOSINO	BASO	MONO	LYMPHO	OTHER
Control	3	3.06± 0.98	1± 2	13± 1	2± 2	0± 0	2± 1	82± 1	0± 0
5000 ppm	5	2.52± 1.38	1± 1	12± 5	1± 0	0± 0	2± 1	83± 5	0± 0
10000 ppm	5	2.37± 0.87	2± 1	12± 2	2± 1	0± 0	4± 3	80± 4	0± 0
20000 ppm	5	2.14± 1.22	2± 2	19± 4	2± 1	0± 0	5± 3	73± 7	0± 0
40000 ppm	0	-	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-	-

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

APPENDIX E 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (2W)

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 $10^3/\mu\ell$
Control	5	10.44± 0.41	15.8± 0.8	51.3± 2.8	49.1± 0.8	15.1± 0.2	30.8± 0.4	1137± 341
5000 ppm	5	9.92± 0.44	15.1± 0.6	49.1± 2.4	49.5± 0.6	15.3± 0.3	30.9± 0.7	1052± 74
10000 ppm	5	9.79± 0.54	14.9± 0.7	48.4± 2.1	49.5± 0.8	15.2± 0.4	30.8± 0.5	1110± 92
20000 ppm	4	9.54± 0.44	14.5± 0.8	47.5± 2.5	49.7± 0.7	15.2± 0.2	30.6± 0.2	1080± 134
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) N-BAND	N-SEG	EOSINO	BASO	MONO	LYMPHO	OTHER
Control	5	3.27± 1.77	1± 1	14± 3	2± 1	0± 0	5± 2	78± 2	0± 0
5000 ppm	5	3.00± 1.09	1± 1	9± 3	2± 1	0± 0	3± 2	85± 4	0± 0
10000 ppm	5	2.63± 1.11	1± 1	12± 3	2± 1	0± 0	5± 3	80± 5	1± 1
20000 ppm	4	1.96± 0.59	2± 1	14± 4	1± 1	0± 0	3± 2	80± 4	0± 1
40000 ppm	0	-	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-	-

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

APPENDIX F 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

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	PHOSPHOLIPID mg/dl
Control	3	4.8± 0.3	2.7± 0.2	1.3± 0.0	0.14± 0.02	278± 18	87± 13	186± 19
5000 ppm	5	5.0± 0.1	2.9± 0.1	1.3± 0.0	0.15± 0.01	298± 10	86± 5	180± 4
10000 ppm	5	5.0± 0.2	2.8± 0.1	1.3± 0.0	0.14± 0.01	311± 14	100± 12	195± 17
20000 ppm	5	5.8± 0.2**	3.4± 0.1**	1.4± 0.0	0.17± 0.02*	287± 29	225± 21**	373± 25
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	GOT IU/ℓ	GPT IU/ℓ	LDH IU/ℓ	G-GTP IU/ℓ	CPK IU/ℓ	UREA NITROGEN mg/dℓ	SODIUM mEq/ℓ
Control	3	37± 7	23± 6	216± 58	1± 1	62± 24	24.4± 3.6	149± 1
5000 ppm	5	38± 2	24± 2	207± 40	1± 1	76± 32	25.4± 2.2	149± 1
10000 ppm	5	38± 5	23± 5	254± 100	1± 1	99± 69	25.4± 3.1	149± 1
20000 ppm	5	56± 10**	53± 12*	285± 66	1± 1	116± 68	25.7± 2.3	148± 0
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	POTASSIUM mEq/ℓ	CHLORIDE mEq/ℓ	CALCIUM mg/dℓ	INORGANIC PHOSPHORUS mg/dℓ
Control	3	5.1± 0.6	117± 3	9.3± 0.1	7.9± 2.4
5000 ppm	5	5.0± 0.7	118± 3	9.6± 0.3	8.2± 1.9
10000 ppm	5	4.2± 0.6	116± 2	9.4± 0.2	6.9± 1.4
20000 ppm	5	5.0± 0.8	114± 2	9.9± 0.3**	8.7± 0.6
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX F 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

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	PHOSPHOLIPID mg/dℓ
Control	5	4.9± 0.2	3.0± 0.1	1.6± 0.2	0.16± 0.03	231± 25	75± 12	148± 14
5000 ppm	5	4.7± 0.1	2.9± 0.1	1.6± 0.1	0.17± 0.03	252± 18	76± 5	151± 7
10000 ppm	5	4.8± 0.3	2.9± 0.1	1.5± 0.1	0.14± 0.01	269± 22	78± 41	173± 14
20000 ppm	5	5.6± 0.2**	3.3± 0.1**	1.5± 0.1	0.15± 0.03	241± 23	202± 29**	325± 40**
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	GOT IU/ℓ	GPT IU/ℓ	LDH IU/ℓ	G-GTP IU/ℓ	CPK IU/ℓ	UREA NITROGEN mg/dℓ	SODIUM mEq/ℓ
Control	5	52± 6	27± 5	257± 51	1± 1	120± 63	23.9± 3.6	149± 1
5000 ppm	5	45± 2	24± 4	243± 43	1± 1	70± 21	23.9± 2.8	149± 1
10000 ppm	5	53± 9	35± 6*	246± 63	1± 0	114± 60	22.1± 4.5	148± 3
20000 ppm	5	47± 11	41± 5**	259± 37	1± 1	112± 28	26.3± 3.9	147± 2
40000 ppm	0	-	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (2W)

Group Name	NO. of Animals	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	5	5.7± 0.7	120± 2	9.4± 0.3	7.3± 1.8
5000 ppm	5	5.0± 0.4	121± 1	9.2± 0.1	7.5± 0.9
10000 ppm	5	5.3± 0.6	119± 2	9.1± 0.3	7.9± 0.3
20000 ppm	5	5.1± 0.6	117± 3	9.8± 0.7	9.4± 1.7
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX G 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE ALL ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	Control 5 (%)	5000 ppm 5 (%)	10000 ppm 5 (%)	20000 ppm 5 (%)
thymus	atrophic		0 (0)	0 (0)	0 (0)	0 (0)
spleen	black zone		0 (0)	0 (0)	0 (0)	1 (20)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name NO. of Animals	40000 ppm 5 (%)	50000 ppm 5 (%)
thymus	atrophic		4 (80)	3 (60)
spleen	black zone		0 (0)	0 (0)

APPENDIX G 2

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE ALL ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

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

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	5000 ppm 5 (%)	10000 ppm 5 (%)	20000 ppm 5 (%)
thymus	atrophic		0 (0)	0 (0)	0 (0)	0 (0)
kidney	hydronephrosis		1 (20)	0 (0)	0 (0)	0 (0)

Organ	Findings	Group Name NO. of Animals	40000 ppm 5 (%)	50000 ppm 5 (%)
thymus	atrophic		3 (60)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)

APPENDIX G 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Group Name NO. of Animals	Control 0 (%)	5000 ppm 0 (%)	10000 ppm 0 (%)	20000 ppm 0 (%)
thymus	atrophic		- (-)	- (-)	- (-)	- (-)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Group Name	40000 ppm	50000 ppm
		NO. of Animals	5 (%)	5 (%)
thymus	atrophic		4 (80)	3 (60)

APPENDIX G 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Group Name NO. of Animals	Control 0 (%)	5000 ppm 0 (%)	10000 ppm 0 (%)	20000 ppm 0 (%)
thymus	atrophic		- (-)	- (-)	- (-)	- (-)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Group Name NO. of Animals	40000 ppm 5 (%)	50000 ppm 5 (%)
thymus	atrophic		3 (60)	0 (0)

APPENDIX G 5

GROSS FINDINGS : SUMMARY, MOUSE : MALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name NO. of Animals	Control 5 (%)	5000 ppm 5 (%)	10000 ppm 5 (%)	20000 ppm 5 (%)
spleen	black zone		0 (0)	0 (0)	0 (0)	1 (20)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name NO. of Animals	40000 ppm 0 (%)	50000 ppm 0 (%)
spleen	black zone		- (-)	- (-)

APPENDIX G 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name NO. of Animals	Control 5 (%)	5000 ppm 5 (%)	10000 ppm 5 (%)	20000 ppm 5 (%)
kidney	hydronephrosis		1 (20)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name NO. of Animals	40000 ppm 0 (%)	50000 ppm 0 (%)
kidney	hydronephrosis		- (-)	- (-)

APPENDIX H 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	26.2± 0.7	0.056± 0.003	0.010± 0.001	0.198± 0.023	0.144± 0.007	0.162± 0.009
5000 ppm	5	25.5± 0.8	0.060± 0.002	0.012± 0.002	0.192± 0.017	0.138± 0.003	0.158± 0.006
10000 ppm	5	26.0± 0.8	0.059± 0.008	0.012± 0.002	0.203± 0.016	0.137± 0.007	0.159± 0.010
20000 ppm	5	24.1± 0.9**	0.040± 0.018	0.012± 0.001	0.184± 0.026	0.123± 0.002**	0.146± 0.009*
40000 ppm	0	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.403± 0.025	0.058± 0.005	1.410± 0.077	0.441± 0.020
5000 ppm	5	0.374± 0.008	0.059± 0.003	1.369± 0.116	0.431± 0.014
10000 ppm	5	0.368± 0.034	0.065± 0.004	1.607± 0.076**	0.439± 0.024
20000 ppm	5	0.351± 0.013**	0.058± 0.013	2.037± 0.029**	0.433± 0.016
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX H 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	19.0± 0.9	0.068± 0.014	0.011± 0.002	0.027± 0.005	0.106± 0.007	0.136± 0.008
5000 ppm	5	19.7± 0.4	0.077± 0.009	0.011± 0.002	0.028± 0.006	0.108± 0.004	0.149± 0.008*
10000 ppm	5	20.1± 0.7	0.074± 0.009	0.012± 0.002	0.027± 0.007	0.106± 0.005	0.149± 0.004*
20000 ppm	5	20.1± 1.0	0.066± 0.007	0.014± 0.003	0.027± 0.004	0.106± 0.004	0.140± 0.004
40000 ppm	0	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.268± 0.047	0.061± 0.014	0.879± 0.063	0.432± 0.019
5000 ppm	5	0.245± 0.012	0.068± 0.005	1.064± 0.135*	0.424± 0.021
10000 ppm	5	0.242± 0.007	0.083± 0.012	1.157± 0.104**	0.440± 0.016
20000 ppm	5	0.258± 0.017	0.101± 0.025**	1.694± 0.103**	0.422± 0.019
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX I 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	26.2± 0.7	0.214± 0.012	0.040± 0.005	0.758± 0.096	0.550± 0.019	0.618± 0.025
5000 ppm	5	25.5± 0.8	0.236± 0.011	0.046± 0.008	0.753± 0.077	0.541± 0.025	0.619± 0.025
10000 ppm	5	26.0± 0.8	0.225± 0.024	0.046± 0.010	0.781± 0.080	0.527± 0.033	0.612± 0.039
20000 ppm	5	24.1± 0.9**	0.162± 0.069	0.052± 0.004	0.764± 0.130	0.511± 0.021	0.604± 0.035
40000 ppm	0	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.537± 0.067	0.223± 0.021	5.387± 0.382	1.685± 0.083
5000 ppm	5	1.467± 0.063	0.232± 0.011	5.371± 0.475	1.692± 0.063
10000 ppm	5	1.419± 0.148	0.249± 0.012	6.190± 0.351*	1.691± 0.136
20000 ppm	5	1.455± 0.054	0.239± 0.048	8.454± 0.272**	1.797± 0.127
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX I 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	19.0± 0.9	0.354± 0.062	0.057± 0.007	0.141± 0.022	0.557± 0.048	0.714± 0.023
5000 ppm	5	19.7± 0.4	0.392± 0.045	0.057± 0.009	0.140± 0.030	0.548± 0.016	0.758± 0.032*
10000 ppm	5	20.1± 0.7	0.369± 0.044	0.059± 0.011	0.136± 0.031	0.530± 0.031	0.740± 0.022
20000 ppm	5	20.1± 1.0	0.326± 0.022	0.068± 0.014	0.133± 0.018	0.527± 0.013	0.696± 0.019
40000 ppm	0	-	-	-	-	-	-
50000 ppm	0	-	-	-	-	-	-

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

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.413± 0.270	0.323± 0.079	4.628± 0.254	2.274± 0.104
5000 ppm	5	1.244± 0.044	0.344± 0.023	5.393± 0.616	2.153± 0.137
10000 ppm	5	1.209± 0.057	0.414± 0.062	5.770± 0.564**	2.194± 0.064
20000 ppm	5	1.281± 0.056	0.499± 0.105**	8.424± 0.410**	2.099± 0.129
40000 ppm	0	-	-	-	-
50000 ppm	0	-	-	-	-

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

APPENDIX J 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 2W)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		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
[Hematopoietic system]																		
bone marrow			< 5>				< 5>				< 5>				< 5>			
	congestion		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thymus			< 5>				< 5>				< 5>				< 5>			
	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)
spleen			< 5>				< 5>				< 5>				< 5>			
	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)
	extramedullary hematopoiesis		0	0	0	0	2	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
[Digestive system]																		
liver			< 5>				< 5>				< 5>				< 5>			
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
[Urinary system]																		
kidney			< 5>				< 5>				< 5>				< 5>			
	tubular necrosis		0	0	0	0	0	0	0	0	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

Organ	Findings	Group Name	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
bone marrow			< 5>				< 5>			
	congestion		2	0	0	0	3	0	0	0
			(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
thymus			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
spleen			< 5>				< 5>			
	atrophy		0	1	4	0	1	0	4	0
			(0)	(20)	(80)	(0)	(20)	(0)	(80)	(0)
	extramedullary hematopoiesis		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Digestive system]										
liver			< 5>				< 5>			
	hepatocellular hypertrophy:central		2	2	0	0	3	2	0	0
			(40)	(40)	(0)	(0)	(60)	(40)	(0)	(0)
[Urinary system]										
kidney			< 5>				< 5>			
	tubular necrosis		1	0	0	0	0	2	0	0
			(20)	(0)	(0)	(0)	(0)	(40)	(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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 5				5000 ppm 5				10000 ppm 5				20000 ppm 5			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
[Reproductive system]																		
epididymis			< 5>				< 5>				< 5>				< 5>			
	debris of spermatic elements		0 (0)	0 (0)	0 (0)	0 (0)	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

Organ	Findings	Group Name	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]										
epididymis			< 5>				< 5>			
	debris of spermatic elements		0	0	0	0	2	0	0	0
			(0)	(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

APPENDIX J 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : ALL ANIMALS

(2-WEEK STUDY)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
bone marrow			< 5>				< 5>				< 5>				< 5>			
	congestion		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thymus			< 5>				< 5>				< 5>				< 5>			
	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)
spleen			< 5>				< 5>				< 5>				< 5>			
	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)
	extramedullary hematopoiesis		0	0	0	0	1	0	0	0	5	0	0	0	1	4	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(20)	(80)	(0)	(0)
[Digestive system]																		
liver			< 5>				< 5>				< 5>				< 5>			
	granulation		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(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 b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name / No. of Animals on Study / Grade	40000 ppm 5				50000 ppm 5			
			1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
bone marrow			< 5>				< 5>			
	congestion		5	0	0	0	3	0	0	0
			(100)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
thymus			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
spleen			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	extramedullary hematopoiesis		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Digestive system]										
liver			< 5>				< 5>			
	granulation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		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

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		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
[Urinary system]																		
kidney			< 5>				< 5>				< 5>				< 5>			
	hydronephrosis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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)	(20)	(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

Organ	Findings	Group Name	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]										
kidney			< 5>				< 5>			
	hydronephrosis		0	0	0	0	0	0	0	0
			(0)	(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)

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 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
bone marrow			< 0>				< 0>				< 0>				< 0>			
	congestion		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
spleen			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Digestive system]																		
liver			< 0>				< 0>				< 0>				< 0>			
	hepatocellular hypertrophy:central		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Urinary system]																		
kidney			< 0>				< 0>				< 0>				< 0>			
	tubular necrosis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
bone marrow			< 5>				< 5>			
	congestion		2	0	0	0	3	0	0	0
			(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
thymus			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
spleen			< 5>				< 5>			
	atrophy		0	1	4	0	1	0	4	0
			(0)	(20)	(80)	(0)	(20)	(0)	(80)	(0)
[Digestive system]										
liver			< 5>				< 5>			
	hepatocellular hypertrophy:central		2	2	0	0	3	2	0	0
			(40)	(40)	(0)	(0)	(60)	(40)	(0)	(0)
[Urinary system]										
kidney			< 5>				< 5>			
	tubular necrosis		1	0	0	0	0	2	0	0
			(20)	(0)	(0)	(0)	(0)	(40)	(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

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																		
epididymis			< 0>				< 0>				< 0>				< 0>			
	debris of spermatic elements		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]										
epididymis			< 5>				< 5>			
	debris of spermatic elements		0	0	0	0	2	0	0	0
			(0)	(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

APPENDIX J 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
bone marrow			< 0>				< 0>				< 0>				< 0>			
	congestion		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
spleen			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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	40000 ppm				50000 ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
bone marrow			< 5>				< 5>			
	congestion		5	0	0	0	3	0	0	0
			(100)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
thymus			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
spleen			< 5>				< 5>			
	atrophy		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(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

APPENDIX J 5

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0361
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			< 5>				< 5>				< 5>				< 5>			
	extramedullary hematopoiesis		0	0	0	0	2	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
[Digestive system]																		
liver			< 5>				< 5>				< 5>				< 5>			
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(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

Organ	Findings	Group Name	40000 ppm				50000 ppm			
		No. of Animals on Study	0				0			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
spleen			< 0>				< 0>			
	extramedullary hematopoiesis		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Digestive system]										
liver			< 0>				< 0>			
	hepatocellular hypertrophy:central		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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 6

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

Organ	Findings	Group Name	Control				5000 ppm				10000 ppm				20000 ppm			
		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
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]																		
spleen			< 5>				< 5>				< 5>				< 5>			
	extramedullary hematopoiesis		0	0	0	0	1	0	0	0	5	0	0	0	1	4	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(20)	(80)	(0)	(0)
[Digestive system]																		
liver			< 5>				< 5>				< 5>				< 5>			
	granulation		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy:central		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
[Urinary system]																		
kidney			< 5>				< 5>				< 5>				< 5>			
	hydronephrosis		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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)	(20)	(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

Organ	Findings	Group Name	40000 ppm				50000 ppm			
		No. of Animals on Study	0				0			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Hematopoietic system]										
spleen			< 0>				< 0>			
	extramedullary hematopoiesis		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Digestive system]										
liver			< 0>				< 0>			
	granulation		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	hepatocellular hypertrophy:central		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
[Urinary system]										
kidney			< 0>				< 0>			
	hydronephrosis		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	mineralization:papilla		-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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 K 1

IDENTITY AND IMPURITY OF p-NITROANISOLE

IN THE 2-WEEK FEED STUDY

IDENTITY AND IMPURITY OF p-NITROANISOLE IN THE 2-WEEK FEED STUDY

Test Substance : p-Nitroanisole (Kanto Chemical Co., Inc.)

Lot No. : 704S4061

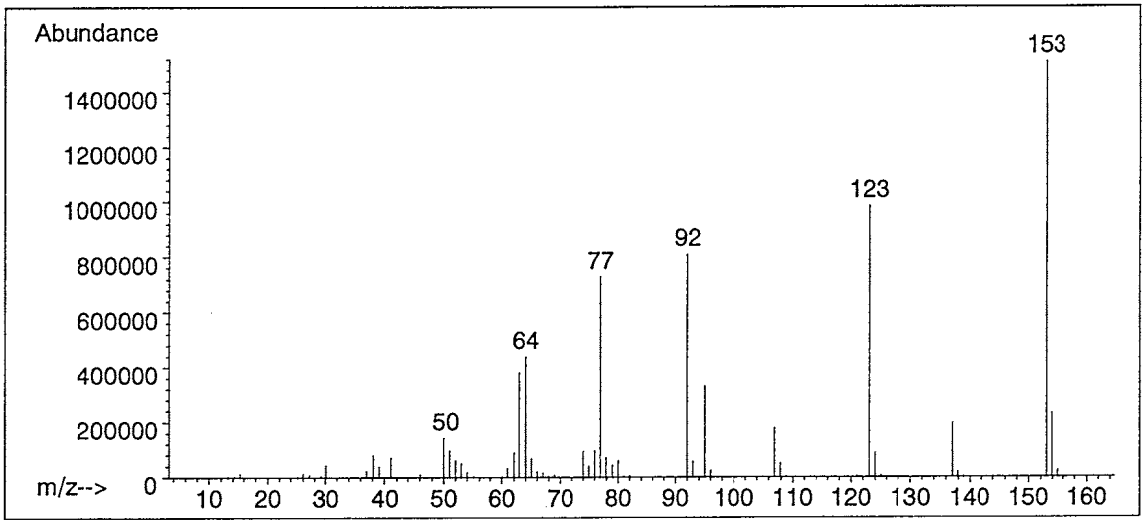
1. Spectral data

Mass Spectrometry

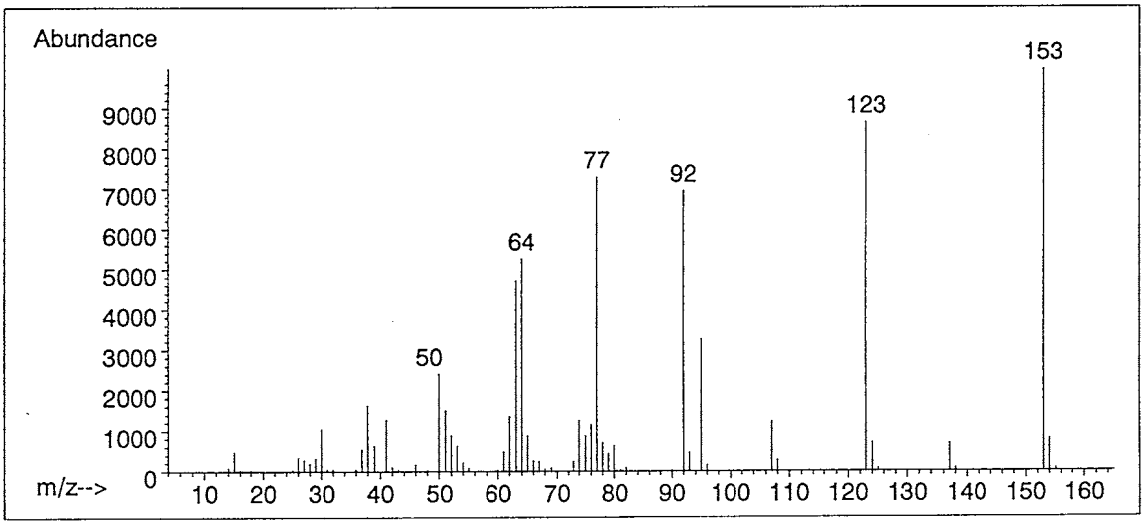
Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

Results: The mass spectrum was consistent with literature spectrum.

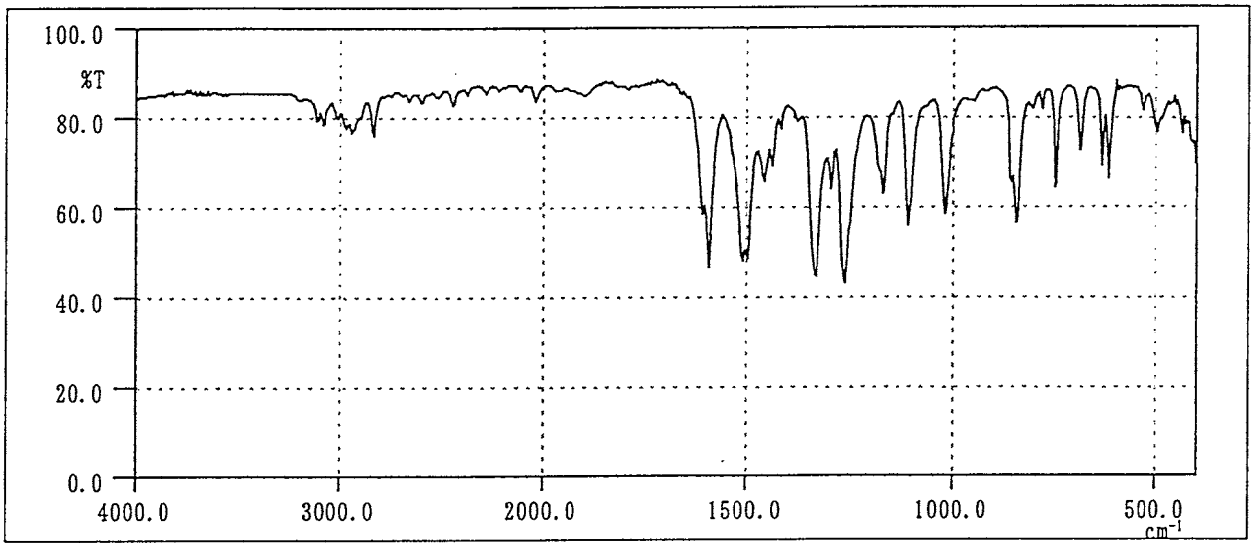
(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition. John Wiley and Sons, Inc. (U.S.), Entry Number 38330)

Infrared Spectrometry

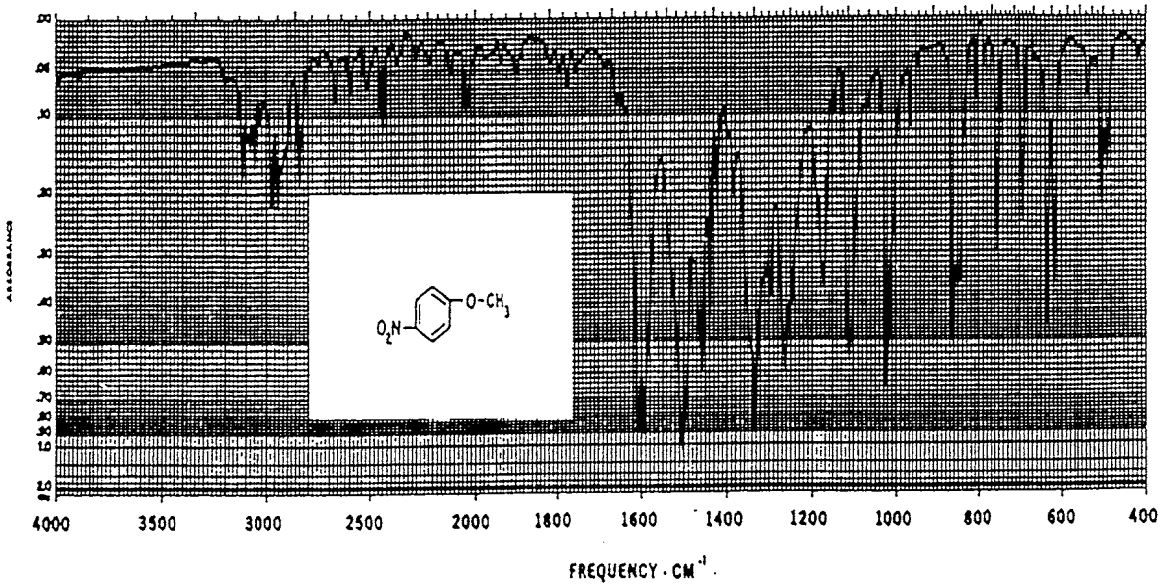
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2.0 cm^{-1}



Infrared Spectrum of Test Substance



Infrared Spectrum of Literature Data*

Results: The infrared spectrum was consistent with literature spectrum.

(*William W. Simons (1978) The Sadtler Handbook of Infrared Spectra. Sadtler Research Laboratories, Inc. (U.K.), pp.443)

2. Impurity

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mmϕ × 50 m)

Column Temperature : 80 °C → (15 °C/min) → 280 °C (5 min)

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Sample Name	Peak No.	Area (%)	Peak Name
Test Substance	1	0.14	m-Chloronitrobenzene
	2	0.11	p-Chloronitrobenzene
	3	0.01	o-Chloronitrobenzene
	4	99.74	p-Nitroanisole

Results: Gas chromatography indicated one major peak (peak No.4) and three impurities. It was identified only by comparing its gas chromatograph with that of m-chloronitrobenzene (peak No.1), p-chloronitrobenzene (peak No.2) and o-chloronitrobenzene (peak No.3) in the p-nitroanisole, the amount in the test substance were 0.14%, 0.11% and 0.01%.

3. Conclusions: The test substance was identified as p-nitroanisole, by the mass spectrum and the infrared spectrum. Gas chromatography indicated one major peak (peak No.4) and three impurities. It was identified only by comparing its gas chromatograph with that of m-chloronitrobenzene, p-chloronitrobenzene and o-chloronitrobenzene, the amount in the test substance were 0.14%, 0.11% and 0.01%.

APPENDIX K 2

STABILITY OF p-NITROANISOLE IN FEEDING OF MICE

IN THE 2-WEEK FEED STUDY

STABILITY OF p-NITROANISOLE IN THE 2-WEEK FEED STUDY

Test Substance : p-Nitroanisole (Kanto Chemical Co., Inc.)

Lot No. : 704S4061

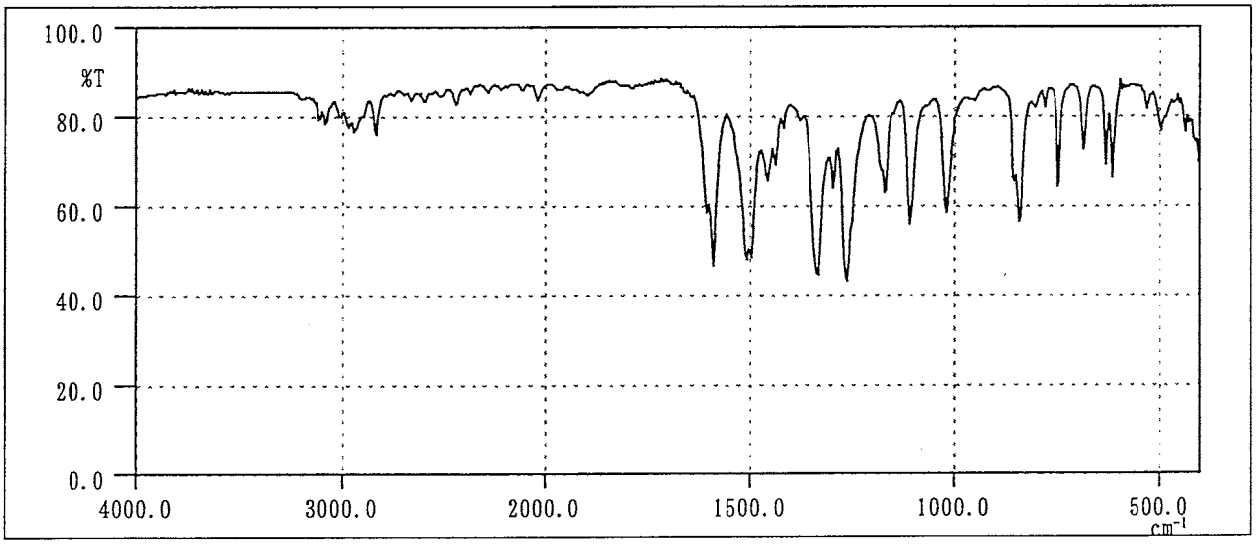
1. Sample : This lot was used from 1998.7.3 to 1998.7.17. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

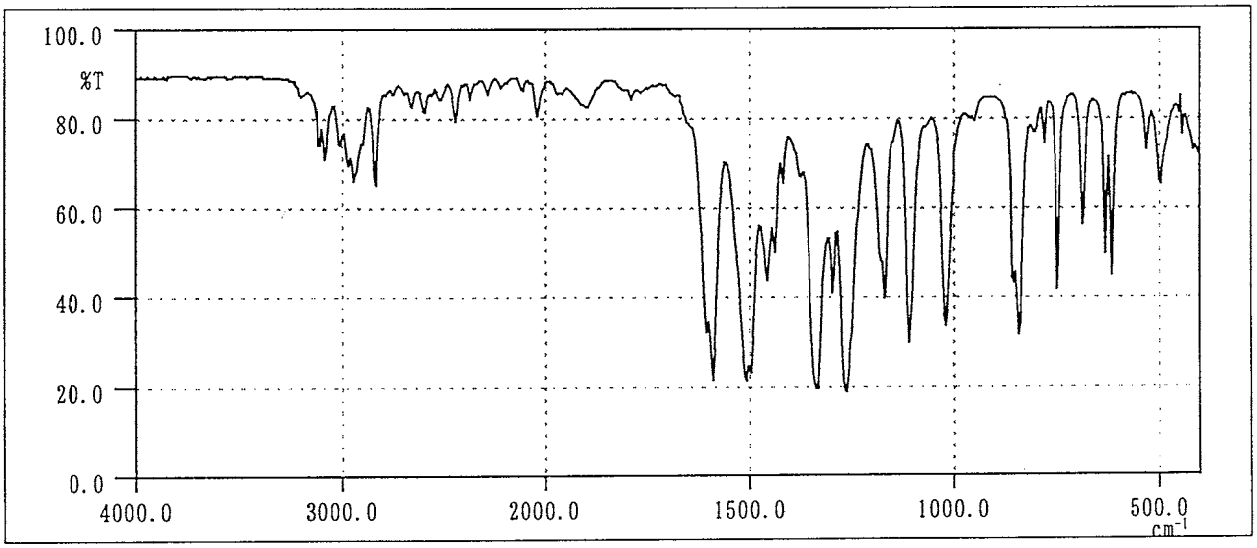
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 2.0 cm^{-1}



Infrared Spectrum of Test Substance (date analyzed : 1998.06.08)



Infrared Spectrum of Test Substance (date analyzed : 1998.07.27)

Results: The results of infrared spectrum did not change before and after the study.

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : INNOWAX (0.2 mmϕ × 50 m)

Column Temperature : 80 °C → (15 °C/min) → 280 °C (5 min)

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μL

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1998.06.08	1	10.230	0.14
	2	10.518	0.11
	3	10.983	0.01
	4	13.106	99.74
1998.07.28	1	10.235	0.15
	2	10.521	0.12
	3	10.982	0.01
	4	13.127	99.72

Results: Gas chromatography indicated one major peak (peak No.4) and three impurities (peak No. 1, 2, 3 < 0.3% of total area) analyzed at 1998.6.8 and one major peak (peak No.4) and three impurities (peak No.1, 2, 3 < 0.3% of total area) analyzed at 1998.7.28. No new trace impurity peak in the test substance analyzed at 1998.7.28 was detected.

4. Conclusions: The test substance was stable for about 2 months in a dark place at room temperature.

APPENDIX K 3

CONCENTMOUSEION OF p-NITROANISOLE IN FORMULATED DIETS IN THE 2-WEEK FEED STUDY

CONCENTRATION OF p-NITROANISOLE IN FORMULATED DIETS IN THE 2-WEEK FEED STUDY

	Target Concentration				
Date Analyzed	5000[a]	10000	20000	40000	50000
1998.07.02	4910 (98.2)[b]	9990 (99.9)	19700 (98.5)	40100 (100)	50800 (102)

[a] ppm
[b] %

Analytical method : The samples were analyzed by the high performance liquid chromatography.

Instrument : Hewlett Packard 1090 High Performance Liquid Chromatograph
Column : TSK GEL ODS-80TM (4.6 mmϕ × 15 cm)
Column Temperature : Room Temperature
Flow Rate : 1 mL/min
Mobile Phase : Distilled Water : Acetonitrile = 1 : 1
Detector : UV (295 nm)
Injection Volume : 10 μL

APPENDIX K 4

STABILITY OF p-NITROANISOLE IN FORMULATED DIETS

IN THE 2-WEEK FEED STUDY

STABILITY OF p-NITROANISOLE IN FORMULATED DIETS IN THE 2-WEEK FEED STUDY

		Target Concentration	
Date Prepared	Date Analyzed	5000[a]	50000
1998.05.28	1998.05.28	4790 (100)[b]	47500 (100)
	1998.06.05[c]	4260 (88.9)	46500 (97.9)
	1998.06.05[d]	4860 (101)	47800 (101)

[a] ppm
[b] % (Percentage was based on the concentration on date of preparation.)
[c] Animal room samples
[d] Cold storage samples

Analytical method : The samples were analyzed by the high performance liquid chromatography.

Instrument : Hewlett Packard 1090 High Performance Liquid Chromatograph
Column : TSK GEL ODS-80TM (4.6 mmϕ $\times$ 15 cm)
Column Temperature : Room Temperature
Flow Rate : 1 mL/min
Mobile Phase : Distilled Water : Acetonitrile = 1 : 1
Detector : UV (295 nm)
Injection Volume : 10 μL

APPENDIX L 1

METHODS FOR HEMATOLOGY, BIOCHEMISTRY

IN THE 2-WEEK FEED STUDY OF p-NITROANISOLE

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-WEEK FEED STUDY OF p-NITROANISOLE

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] (Wright 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	GlcK・G-6-PDH method [3]
T-cholesterol	CE・COD・POD method [3]
Phospholipid	PLD・ChOD・POD method [3]
Glutamic oxaloacetic transaminase (GOT)	JSCC method [3]
Glutamic pyruvic transaminase (GPT)	JSCC method [3]
Lactate dehydrogenase (LDH)	SFBC method [3]
γ-Glutamyl transpeptidase (γ-GTP)	L-γ-Glutamyl-p-nitroanilide method [3]
Creatine phosphokinase (CPK)	JSCC method [3]
Urea nitrogen	Urease・GLDH method [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	PNP・XOD・POD method [3]

1) Automatic blood cell analyzer (Technicon H・1 : Bayer Corporation)

2) Automatic blood cell differential analyzer (MICROX HEG-120NA : OMRON Corporation)

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

APPENDIX M 1

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-WEEK FEED STUDY OF p-NITROANISOLE

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-WEEK FEED STUDY OF p-NITROANISOLE

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
Phospholipid	mg/dL	0
Glutamic oxaloacetic transminase (GOT)	IU/L	0
Glutamic pyruvic transaminase (GPT)	IU/L	0
Lactate dehydrogenase (LDH)	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