P - クロロニトロベンゼンのラット及びマウスを用いた
経口（混餌）によるがん原性試験結果報告書

TABLES

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TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE FEED(OR GAVAGE) STUDIES OF p-CHLORONITROBENZENE

Acute Studies	Two-Week Studies	Thirteen-Week Studies	Two-Year Studies
<Method of Administration>			
Gavage	Feed	Feed	Feed
<Number of Groups>			
Male 6, Female 6	Male 6, Female 6	Male 6, Female 6	Male 4, Female 4
<Size of Study Groups>			
10 males and 10 females of each groups	10 males and 10 females of each groups	10 males and 10 females of each groups	50 males and 50 females of each groups
<Animals>			
Strain and Species			
F344/DuCrj(Fischer)rat Crj:BDF$_1$mouse	F344/DuCrj(Fischer)rat Crj:BDF$_1$mouse	F344/DuCrj(Fischer)rat Crj:BDF$_1$mouse	F344/DuCrj(Fischer)rat Crj:BDF$_1$mouse
Animal Source			
Charles River Japan, Inc.	Charles River Japan, Inc.	Charles River Japan, Inc.	Charles River Japan, Inc.
During of Time Held Before Study			
1 wk	2 wk	2 wk	2 wk
Age When Placed on Study			
6 wk	6 wk	6 wk	6 wk
Age When Killed			
8 wk	8 wk	20 wk	111 wk
<Doses>			
Rat--0, 400, 600, 900, 1350, or 2030 mg/kg:Mouse--610, 977, 1560, 2500, or 4000mg/kg	Rat--0, 60, 180, 540, 1620, or 4860ppm :Mouse--111, 333, 1000, 3000, or 9000ppm	Rat--0, 24.7, 74.1, 222, 667, or 2000ppm:Mouse--74.1, 222, 667, 2000, or 6000ppm	Rat--0, 40, 200, or 1000ppm; Mouse--0, 125, 500, 2000ppm
<Duration of Dosing>			
Single	7d/wk for 2wk	7d/wk for 13wk	7d/wk for 104wk
<Animal Maintenance>			
Feed			
CRF-1 (pellet) (Oriental Yeast Co., Ltd.) Sterilized by γ-ray Available ad libitum	CRF-1 (mash) (Oriental Yeast Co., Ltd.) Sterilized by γ-ray Available ad libitum	Same as two-week studies	Same as two-week studies
Water			
Sterilized by ultraviolet rays Automatic watering system Available ad libitum	Same as acute studies	Same as acute studies	Same as acute studies
Animals per Cage			
Single (stainless steel wire)	Single (stainless steel wire)	Single (stainless steel wire)	Single (stainless steel wire)
Animal Room Environment			
Barrier system Temperature:24±1℃ Humidity :50±5% Fluorescent light 12h/d 15-17 room air changes /h	Same as acute studies	Same as acute studies	Same as acute studies
<Type and Frequency of Observation>			
Clinical Sign			
Observed 2h after 0—1, 1—2, 2—4, 4—6h administration/ observed 1×d thereafter	Observed 2×d	Observed 2×d	Observed 2×d
Body Weight			
Weighed 0-0, 1-1, 1-2, 1-4, 1-7, 2-3, and 2-7(wk-d)	Weighed 0-0, 1-1, 1-2, 1-4, 1-7, 2-3, and 2-7(wk-d)	Weighed 1×wk for 13wk	Weighed 1×wk for 14wk Weighed 1×2wk thereafter
<Food Consumption>			
None	Weighed 1×wk for 2wk	Weighed 1×wk for 13wk	Weighed 1×wk for 14wk Weighed 1×2wk thereafter

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE FEED(OR GAVAGE) STUDIES OF p-CHLORONITROBENZENE (Continued)

Acute Studies	Two-Week Studies	Thirteen-Week Studies	Two-Year Studies
<Hematology>			
None	None	Red blood cell(RBC), Hemoglobin, Hematocrit, Mean corpuscular volume(MCV), Platelet, White blood cell(WBC), Differential WBC.	Same as thirteen-week studies
<Blood Biochemistry>			
None	None	Total protein, Albumin, A/G ratio, T-bilirubin, Glucose, T-cholesterol, Triglyceride<rat only>, Glutamic oxaloacetic transaminase(GOT), Glutamic pyruvic transaminase(GPT), Lactate dehydrogenase(LDH), Alkaline phosphatase(ALP), Leucine aminopeptidase(LAP), Creatine phosphokinase(CPK) <rat only>, Urea nitrogen, Creatinine<rat only>, Sodium, Potassium, Chloride, Calcium<rat only>, Inorganic phosphorus<rat only>.	Total protein, Albumin, A/G ratio, T-bilirubin, Glucose, T-cholesterol, Triglyceride, Phospholipid, Glutamic oxaloacetic transaminase(GOT), Glutamic pyruvic transaminase(GPT), Lactate dehydrogenase(LDH), Alkaline phosphatase(ALP), Leucine aminopeptidase(LAP), γ-Glutamyl transpeptidase (G-GTP)<rat only>, Creatine phosphokinase(CPK), Urea nitrogen, Creatinine<rat only>, Sodium, Potassium, Chloride, Calcium, Inorganic phosphorus.
<Urinalysis>			
None	None	pH, Protein, Glucose, Ketone body, Bilirubin<rat only>, Occult blood, Urobilinogen.	Same as thirteen-week studies
<Necropsy>			
Necropsy performed on all animals.	Same as acute studies	Same as acute studies	Same as acute studies
<Organ Weight>			
None	None	Organ weight measurement performed on schedule sacrificed animals. The following organs were weighed : brain, lung, liver, spleen, heart, kidney, adrenal, testis, ovary, thymus.	Same as thirteen-week studies The following organs were weighed : brain, lung, liver, spleen, heart, kidney, adrenal, testis, ovary.
<Histopathologic Examination>			
Histopathologic examination performed on at least two animals per sex per group.	Same as acute studies	Histopathologic examination perfermed on all animals.	Same as thirteen-week studies
The following organs were examined: lung, bone marrow, lymph node, thymus, spleen, heart, stomach, small intes, large intes, liver, pancreas, kidney, pituitary, adrenal, testis, ovary, brain.	Same as acute studies	The following organs were examined : skin, nasal cavit, trachea, lung, bone marrow, lymph node, thymus, spleen, heart, tongue, salivary gl, esophagus, stomach, small intes, large intes, liver, pancreas, kidney, urin bladd, pituitary, thyroid, adrenal, testis, epidiymis, semin ves, prostate, ovary, uterus, vagina, mammary gl, brain, spinal cord, periph nerv, eye, Harder gl, muscle, bone.	Same as thirteen-week studies

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (ACUTE STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	400 mg/kg Av.Wt.	400 mg/kg % of cont. <10>	400 mg/kg No.of Surviv.	600 mg/kg Av.Wt.	600 mg/kg % of cont. <10>	600 mg/kg No.of Surviv.	900 mg/kg Av.Wt.	900 mg/kg % of cont. <10>	900 mg/kg No.of Surviv.	1350 mg/kg Av.Wt.	1350 mg/kg % of cont. <10>	1350 mg/kg No.of Surviv.	2030 mg/kg Av.Wt.	2030 mg/kg % of cont. <10>	2030 mg/kg No.of Surviv.
0-0	109 (10)	10/10	109 (10)	100	10/10	109 (10)	100	10/10	109 (10)	100	10/10	109 (10)	100	10/10	109 (10)	100	10/10
1-1	122 (10)	10/10	107 (10)	88	10/10	102 (10)	84	10/10	99 (10)	81	10/10	98 (10)	80	8/10	97 (10)	80	5/10
1-2	129 (10)	10/10	112 (10)	87	10/10	100 (10)	78	10/10	90 (10)	70	9/10	92 (8)	71	5/10	94 (5)	73	0/10
1-4	141 (10)	10/10	126 (10)	89	10/10	114 (10)	81	10/10	86 (3)	61	2/10	89 (2)	63	1/10	- (-)	-	0/10
1-7	160 (10)	10/10	146 (10)	91	10/10	135 (10)	84	10/10	108 (2)	68	2/10	111 (1)	69	1/10	- (-)	-	0/10
2-3	179 (10)	10/10	168 (10)	94	10/10	159 (10)	89	10/10	133 (2)	74	2/10	138 (1)	77	1/10	- (-)	-	0/10
2-7	202 (10)	10/10	196 (10)	97	10/10	188 (10)	93	10/10	165 (2)	82	2/10	175 (1)	87	1/10	- (-)	-	0/10

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (ACUTE STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	400 mg/kg Av.Wt.	400 mg/kg % of cont. <10>	400 mg/kg No.of Surviv.	600 mg/kg Av.Wt.	600 mg/kg % of cont. <10>	600 mg/kg No.of Surviv.	900 mg/kg Av.Wt.	900 mg/kg % of cont. <10>	900 mg/kg No.of Surviv.	1350 mg/kg Av.Wt.	1350 mg/kg % of cont. <10>	1350 mg/kg No.of Surviv.	2030 mg/kg Av.Wt.	2030 mg/kg % of cont. <10>	2030 mg/kg No.of Surviv.
0-0	84 (10)	10/10	84 (10)	100	10/10	84 (10)	100	10/10	84 (10)	100	10/10	84 (10)	100	10/10	84 (10)	100	10/10
1-1	92 (10)	10/10	83 (10)	90	10/10	80 (10)	87	10/10	77 (10)	84	10/10	77 (10)	84	6/10	76 (10)	83	5/10
1-2	95 (10)	10/10	86 (10)	91	10/10	80 (10)	84	10/10	73 (10)	77	9/10	73 (6)	77	0/10	74 (5)	78	1/10
1-4	100 (10)	10/10	95 (10)	95	10/10	91 (10)	91	10/10	73 (4)	73	2/10	- (-)	-	0/10	- (-)	-	0/10
1-7	111 (10)	10/10	106 (10)	95	10/10	104 (10)	94	10/10	92 (2)	83	2/10	- (-)	-	0/10	- (-)	-	0/10
2-3	122 (10)	10/10	120 (10)	98	10/10	120 (10)	98	10/10	112 (2)	92	2/10	- (-)	-	0/10	- (-)	-	0/10
2-7	133 (10)	10/10	134 (10)	101	10/10	135 (10)	102	10/10	134 (2)	101	2/10	- (-)	-	0/10	- (-)	-	0/10

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

STUDY NO. 0065 & 0066

TABLE 4 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	60 ppm Av.Wt.	60 ppm % of cont. <10>	60 ppm No.of Surviv.	180 ppm Av.Wt.	180 ppm % of cont. <10>	180 ppm No.of Surviv.	540 ppm Av.Wt.	540 ppm % of cont. <10>	540 ppm No.of Surviv.	1620 ppm Av.Wt.	1620 ppm % of cont. <10>	1620 ppm No.of Surviv.	4860 ppm Av.Wt.	4860 ppm % of cont. <10>	4860 ppm No.of Surviv.
0-0	136 (10)	10/10	136 (10)	100	10/10	136 (10)	100	10/10	136 (10)	100	10/10	136 (10)	100	10/10	136 (10)	100	10/10
1-1	142 (10)	10/10	142 (10)	100	10/10	141 (10)	99	10/10	139 (10)	98	10/10	133 (10)	94	10/10	125 (10)	88	10/10
1-2	147 (10)	10/10	148 (10)	101	10/10	146 (10)	99	10/10	145 (10)	99	10/10	137 (10)	93	10/10	123 (10)	84	10/10
1-4	156 (10)	10/10	158 (10)	101	10/10	157 (10)	101	10/10	154 (10)	99	10/10	144 (10)	92	10/10	120 (10)	77	10/10
1-7	172 (10)	10/10	173 (10)	101	10/10	173 (10)	101	10/10	169 (10)	98	10/10	157 (10)	91	10/10	117 (10)	68	10/10
2-3	189 (10)	10/10	189 (10)	100	10/10	190 (10)	101	10/10	186 (10)	98	10/10	172 (10)	91	10/10	110 (10)	58	10/10
2-7	208 (10)	10/10	209 (10)	100	10/10	210 (10)	101	10/10	206 (10)	99	10/10	191 (10)	92	10/10	104 (10)	50	10/10

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

TABLE 5 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	60 ppm Av.Wt.	60 ppm % of cont. <10>	60 ppm No.of Surviv.	180 ppm Av.Wt.	180 ppm % of cont. <10>	180 ppm No.of Surviv.	540 ppm Av.Wt.	540 ppm % of cont. <10>	540 ppm No.of Surviv.	1620 ppm Av.Wt.	1620 ppm % of cont. <10>	1620 ppm No.of Surviv.	4860 ppm Av.Wt.	4860 ppm % of cont. <10>	4860 ppm No.of Surviv.
0-0	104 (10)	10/10	104 (10)	100	10/10	104 (10)	100	10/10	104 (10)	100	10/10	104 (10)	100	10/10	104 (10)	100	10/10
1-1	107 (10)	10/10	107 (10)	100	10/10	106 (10)	99	10/10	104 (10)	97	10/10	100 (10)	93	10/10	96 (10)	90	10/10
1-2	109 (10)	10/10	109 (10)	100	10/10	98 (10)	90	10/10	108 (10)	99	10/10	101 (10)	93	10/10	95 (10)	87	10/10
1-4	113 (10)	10/10	115 (10)	102	10/10	112 (10)	99	10/10	111 (10)	98	10/10	104 (10)	92	10/10	91 (10)	81	10/10
1-7	120 (10)	10/10	122 (10)	102	10/10	118 (10)	98	10/10	118 (10)	98	10/10	110 (10)	92	10/10	86 (10)	72	10/10
2-3	130 (10)	10/10	131 (10)	101	10/10	126 (10)	97	10/10	127 (10)	98	10/10	117 (10)	90	10/10	77 (10)	59	10/10
2-7	136 (10)	10/10	138 (10)	101	10/10	134 (10)	99	10/10	135 (10)	99	10/10	129 (10)	95	10/10	72 (7)	53	7/10

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

STUDY NO. 0065 & 0066

TABLE 6 FOOD CONSUMPTION IN MALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	60 ppm Av.FC.	60 ppm % of cont. <10>	60 ppm No.of Surviv.	180 ppm Av.FC.	180 ppm % of cont. <10>	180 ppm No.of Surviv.	540 ppm Av.FC.	540 ppm % of cont. <10>	540 ppm No.of Surviv.	1620 ppm Av.FC.	1620 ppm % of cont. <10>	1620 ppm No.of Surviv.	4860 ppm Av.FC.	4860 ppm % of cont. <10>	4860 ppm No.of Surviv.
1-7	14.2 (10)	10/10	14.7 (10)	104	10/10	14.7 (10)	104	10/10	13.5 (10)	95	10/10	10.6 (10)	75	10/10	6.4 (10)	45	10/10
2-7	15.2 (10)	10/10	15.7 (10)	103	10/10	16.0 (10)	105	10/10	15.8 (10)	104	10/10	14.4 (10)	95	10/10	11.5 (10)	76	10/10

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

TABLE 7 FOOD CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	60 ppm Av.FC.	60 ppm % of cont. <10>	60 ppm No.of Surviv.	180 ppm Av.FC.	180 ppm % of cont. <10>	180 ppm No.of Surviv.	540 ppm Av.FC.	540 ppm % of cont. <10>	540 ppm No.of Surviv.	1620 ppm Av.FC.	1620 ppm % of cont. <10>	1620 ppm No.of Surviv.	4860 ppm Av.FC.	4860 ppm % of cont. <10>	4860 ppm No.of Surviv.
1-7	10.6 (10)	10/10	11.1 (10)	105	10/10	10.5 (10)	99	10/10	9.9 (10)	93	10/10	7.4 (10)	70	10/10	5.6 (10)	53	10/10
2-7	11.2 (10)	10/10	11.6 (10)	104	10/10	11.1 (10)	99	10/10	11.5 (10)	103	10/10	11.0 (10)	98	10/10	11.1 (7)	99	7/10

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

STUDY NO.0065 & 0066

TABLE 8 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	24.7 ppm Av.Wt.	24.7 ppm % of cont. <10>	24.7 ppm No.of Surviv.	74.1 ppm Av.Wt.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.Wt.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.Wt.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.
0-0	129 (10)	10/10	129 (10)	100	10/10	129 (10)	100	10/10	129 (10)	100	10/10	129 (10)	100	10/10	129 (10)	100	10/10
1-7	163 (10)	10/10	164 (10)	101	10/10	166 (10)	102	10/10	164 (10)	101	10/10	159 (10)	98	10/10	132 (10)	81	10/10
2-7	196 (10)	10/10	198 (10)	101	10/10	202 (10)	103	10/10	199 (10)	102	10/10	194 (10)	99	10/10	161 (10)	82	10/10
3-7	224 (10)	10/10	226 (10)	101	10/10	228 (10)	102	10/10	227 (10)	101	10/10	221 (10)	99	10/10	187 (10)	83	10/10
4-7	244 (10)	10/10	246 (10)	101	10/10	248 (10)	102	10/10	248 (10)	102	10/10	242 (10)	99	10/10	211 (10)	86	10/10
5-7	262 (10)	10/10	266 (10)	102	10/10	266 (10)	102	10/10	268 (10)	102	10/10	262 (10)	100	10/10	226 (10)	86	10/10
6-7	272 (10)	10/10	280 (10)	103	10/10	279 (10)	103	10/10	283 (10)	104	10/10	277 (10)	102	10/10	242 (10)	89	10/10
7-7	285 (10)	10/10	293 (10)	103	10/10	293 (10)	103	10/10	289 (10)	101	10/10	290 (10)	102	10/10	259 (10)	91	10/10
8-7	293 (10)	10/10	304 (10)	104	10/10	301 (10)	103	10/10	305 (10)	104	10/10	303 (10)	103	10/10	273 (10)	93	10/10
9-7	303 (10)	10/10	314 (10)	104	10/10	310 (10)	102	10/10	316 (10)	104	10/10	313 (10)	103	10/10	286 (10)	94	10/10
10-7	309 (10)	10/10	324 (10)	105	10/10	318 (10)	103	10/10	326 (10)	106	10/10	323 (10)	105	10/10	297 (10)	96	10/10
11-7	315 (10)	10/10	334 (10)	106	10/10	326 (10)	103	10/10	334 (10)	106	10/10	330 (10)	105	10/10	306 (10)	97	10/10
12-7	321 (10)	10/10	341 (10)	106	10/10	332 (10)	103	10/10	341 (10)	106	10/10	338 (10)	105	10/10	314 (10)	98	10/10
13-7	326 (10)	10/10	347 (10)	106	10/10	339 (10)	104	10/10	349 (10)	107	10/10	344 (10)	106	10/10	317 (10)	97	10/10

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

TABLE 9 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	24.7 ppm Av.Wt.	24.7 ppm % of cont. <10>	24.7 ppm No.of Surviv.	74.1 ppm Av.Wt.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.Wt.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.Wt.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.
0-0	100 (10)	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10	100 (10)	100	10/10
1-7	117 (10)	10/10	118 (10)	101	10/10	117 (10)	100	10/10	115 (10)	98	10/10	113 (10)	97	10/10	100 (10)	85	10/10
2-7	131 (10)	10/10	132 (10)	101	10/10	131 (10)	100	10/10	128 (10)	98	10/10	126 (10)	96	10/10	114 (10)	87	10/10
3-7	142 (10)	10/10	144 (10)	101	10/10	142 (10)	100	10/10	140 (10)	99	10/10	139 (10)	98	10/10	126 (10)	89	10/10
4-7	149 (10)	10/10	152 (10)	102	10/10	150 (10)	101	10/10	147 (10)	99	10/10	148 (10)	99	10/10	136 (10)	91	10/10
5-7	158 (10)	10/10	162 (10)	103	10/10	161 (10)	102	10/10	158 (10)	100	10/10	156 (10)	99	10/10	145 (10)	92	10/10
6-7	164 (10)	10/10	168 (10)	102	10/10	168 (10)	102	10/10	165 (10)	101	10/10	165 (10)	101	10/10	151 (10)	92	10/10
7-7	169 (10)	10/10	174 (10)	103	10/10	173 (10)	102	10/10	170 (10)	101	10/10	169 (10)	100	10/10	157 (10)	93	10/10
8-7	173 (10)	10/10	178 (10)	103	10/10	179 (10)	103	10/10	177 (10)	102	10/10	175 (10)	101	10/10	163 (10)	94	10/10
9-7	173 (10)	10/10	183 (10)	106	10/10	183 (10)	106	10/10	179 (10)	103	10/10	180 (10)	104	10/10	165 (10)	95	10/10
10-7	178 (10)	10/10	187 (10)	105	10/10	186 (10)	104	10/10	184 (10)	103	10/10	184 (10)	103	10/10	171 (10)	96	10/10
11-7	181 (10)	10/10	190 (10)	105	10/10	189 (10)	104	10/10	187 (10)	103	10/10	186 (10)	103	10/10	173 (10)	96	10/10
12-7	185 (10)	10/10	193 (10)	104	10/10	192 (10)	104	10/10	190 (10)	103	10/10	190 (10)	103	10/10	176 (10)	95	10/10
13-7	187 (10)	10/10	192 (10)	103	10/10	193 (10)	103	10/10	192 (10)	103	10/10	191 (10)	102	10/10	179 (10)	96	10/10

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

TABLE 10 FOOD CONSUMPTION IN MALE RAT (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	24.7 ppm Av.FC.	24.7 ppm % of cont. <10>	24.7 ppm No.of Surviv.	74.1 ppm Av.FC.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.FC.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.FC.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.
1-7	13.6 (10)	10/10	14.0 (10)	103	10/10	14.4 (10)	106	10/10	13.9 (10)	102	10/10	12.7 (10)	93	10/10	8.6 (10)	63	10/10
2-7	14.4 (10)	10/10	15.0 (10)	104	10/10	15.8 (10)	110	10/10	15.0 (10)	104	10/10	14.7 (10)	102	10/10	12.3 (10)	85	10/10
3-7	15.4 (10)	10/10	15.9 (10)	103	10/10	15.9 (10)	103	10/10	16.2 (10)	105	10/10	15.7 (10)	102	10/10	13.2 (10)	86	10/10
4-7	15.0 (10)	10/10	15.7 (10)	105	10/10	16.1 (10)	107	10/10	16.2 (10)	108	10/10	16.0 (10)	107	10/10	14.1 (10)	94	10/10
5-7	15.1 (10)	10/10	15.9 (10)	105	10/10	15.9 (10)	105	10/10	16.5 (10)	109	10/10	16.2 (10)	107	10/10	14.1 (10)	93	10/10
6-7	14.8 (10)	10/10	15.8 (10)	107	10/10	15.7 (10)	106	10/10	16.7 (10)	113	10/10	16.5 (10)	111	10/10	14.3 (10)	97	10/10
7-7	14.5 (10)	10/10	15.3 (10)	106	10/10	15.5 (10)	107	10/10	15.3 (10)	106	10/10	16.3 (10)	112	10/10	14.9 (10)	103	10/10
8-7	14.1 (9)	10/10	15.4 (10)	109	10/10	15.6 (9)	111	10/10	16.6 (9)	118	10/10	16.4 (9)	116	10/10	15.5 (10)	110	10/10
9-7	14.0 (10)	10/10	15.1 (10)	108	10/10	14.7 (10)	105	10/10	16.1 (10)	115	10/10	15.8 (10)	113	10/10	15.6 (10)	111	10/10
10-7	13.8 (10)	10/10	15.5 (10)	112	10/10	14.8 (10)	107	10/10	15.7 (9)	114	10/10	16.3 (9)	118	10/10	15.8 (10)	114	10/10
11-7	13.8 (10)	10/10	15.4 (10)	112	10/10	14.9 (10)	108	10/10	15.7 (10)	114	10/10	16.1 (10)	117	10/10	15.8 (10)	114	10/10
12-7	13.7 (10)	10/10	15.3 (10)	112	10/10	15.0 (10)	109	10/10	16.2 (10)	118	10/10	16.2 (10)	118	10/10	16.1 (10)	118	10/10
13-7	13.2 (10)	10/10	14.6 (10)	111	10/10	14.5 (10)	110	10/10	15.5 (10)	117	10/10	15.4 (10)	117	10/10	15.4 (10)	117	10/10

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

TABLE 11 FOOD CONSUMPTION IN FEMALE RAT (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	24.7 ppm Av.FC.	24.7 ppm % of cont. <10>	24.7 ppm No.of Surviv.	74.1 ppm Av.FC.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.FC.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.FC.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.
1-7	10.7 (10)	10/10	11.1 (10)	104	10/10	11.1 (10)	104	10/10	10.6 (10)	99	10/10	9.5 (10)	89	10/10	6.4 (10)	60	10/10
2-7	10.5 (10)	10/10	10.7 (10)	102	10/10	10.9 (10)	104	10/10	10.5 (10)	100	10/10	10.5 (10)	100	10/10	9.4 (10)	90	10/10
3-7	10.8 (10)	10/10	10.9 (10)	101	10/10	11.5 (10)	106	10/10	11.0 (10)	102	10/10	10.7 (10)	99	10/10	9.7 (10)	90	10/10
4-7	10.3 (10)	10/10	10.6 (10)	103	10/10	10.9 (10)	106	10/10	10.6 (10)	103	10/10	10.8 (10)	105	10/10	10.9 (10)	106	10/10
5-7	10.3 (10)	10/10	11.0 (10)	107	10/10	11.4 (10)	111	10/10	11.6 (10)	113	10/10	10.8 (10)	105	10/10	10.8 (10)	105	10/10
6-7	10.4 (10)	10/10	10.9 (10)	105	10/10	12.3 (10)	118	10/10	11.0 (10)	106	10/10	11.3 (10)	109	10/10	10.6 (10)	102	10/10
7-7	10.1 (10)	10/10	11.4 (10)	113	10/10	11.2 (9)	111	10/10	11.3 (10)	112	10/10	11.0 (10)	109	10/10	11.1 (10)	110	10/10
8-7	9.7 (9)	10/10	11.0 (10)	113	10/10	11.4 (10)	118	10/10	12.1 (10)	125	10/10	11.3 (10)	116	10/10	10.4 (9)	107	10/10
9-7	10.4 (10)	10/10	11.3 (10)	109	10/10	11.0 (10)	106	10/10	11.3 (10)	109	10/10	11.2 (10)	108	10/10	11.4 (9)	110	10/10
10-7	10.2 (10)	10/10	11.1 (10)	109	10/10	11.7 (10)	115	10/10	11.2 (10)	110	10/10	11.6 (10)	114	10/10	11.8 (9)	116	10/10
11-7	10.2 (10)	10/10	11.7 (10)	115	10/10	11.2 (10)	110	10/10	10.8 (10)	106	10/10	11.5 (10)	113	10/10	12.5 (9)	123	10/10
12-7	10.3 (10)	10/10	11.4 (10)	111	10/10	10.7 (9)	104	10/10	11.2 (10)	109	10/10	11.4 (9)	111	10/10	10.7 (7)	104	10/10
13-7	9.8 (10)	10/10	10.0 (10)	102	10/10	10.7 (10)	109	10/10	10.6 (10)	108	10/10	11.7 (10)	119	10/10	11.5 (8)	117	10/10

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

TABLE 12 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	40 ppm Av.Wt.	40 ppm % of cont. <50>	40 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
0-0	123 (50)	50/50	123 (50)	100	50/50	123 (50)	100	50/50	123 (50)	100	50/50
1-7	157 (50)	50/50	156 (50)	99	50/50	155 (50)	99	50/50	148 (50)	94	50/50
2-7	190 (50)	50/50	190 (50)	100	50/50	190 (50)	100	50/50	179 (50)	94	50/50
3-7	218 (50)	50/50	218 (50)	100	50/50	217 (50)	100	50/50	205 (50)	94	50/50
4-7	238 (50)	50/50	238 (50)	100	50/50	237 (50)	100	50/50	226 (50)	95	50/50
5-7	257 (50)	50/50	257 (50)	100	50/50	255 (50)	99	50/50	244 (50)	95	50/50
6-7	272 (50)	50/50	270 (50)	99	50/50	270 (50)	99	50/50	259 (50)	95	50/50
7-7	285 (50)	50/50	285 (50)	100	50/50	284 (50)	100	50/50	271 (50)	95	50/50
8-7	298 (50)	50/50	298 (50)	100	50/50	297 (50)	100	50/50	283 (50)	95	50/50
9-7	309 (50)	50/50	309 (50)	100	50/50	309 (50)	100	50/50	295 (50)	95	50/50
10-7	316 (50)	50/50	317 (50)	100	50/50	317 (50)	100	50/50	303 (50)	96	50/50
11-7	325 (50)	50/50	326 (50)	100	50/50	326 (50)	100	50/50	311 (50)	96	50/50
12-7	331 (50)	50/50	332 (50)	100	50/50	331 (50)	100	50/50	316 (50)	95	50/50
13-7	339 (50)	50/50	341 (50)	101	50/50	339 (50)	100	50/50	323 (50)	95	50/50
14-7	343 (50)	50/50	345 (50)	101	50/50	344 (50)	100	50/50	328 (50)	96	50/50
16-7	354 (49)	49/50	357 (50)	101	50/50	355 (50)	100	50/50	339 (50)	96	50/50
18-7	363 (49)	49/50	365 (50)	101	50/50	364 (50)	100	50/50	347 (50)	96	50/50
20-7	371 (49)	49/50	374 (50)	101	50/50	373 (50)	101	50/50	354 (50)	95	50/50
22-7	380 (49)	49/50	382 (50)	101	50/50	381 (50)	100	50/50	361 (50)	95	50/50
24-7	386 (49)	49/50	389 (50)	101	50/50	387 (50)	100	50/50	367 (50)	95	50/50
26-7	391 (49)	49/50	395 (50)	101	50/50	393 (50)	101	50/50	373 (50)	95	50/50
28-7	394 (49)	49/50	398 (50)	101	50/50	395 (50)	100	50/50	376 (50)	95	50/50
30-7	403 (49)	49/50	406 (50)	101	50/50	403 (50)	100	50/50	383 (50)	95	50/50
32-7	406 (49)	49/50	411 (50)	101	50/50	408 (50)	100	50/50	386 (50)	95	50/50
34-7	412 (49)	49/50	417 (50)	101	50/50	414 (50)	100	50/50	389 (50)	94	50/50
36-7	417 (49)	49/50	421 (50)	101	50/50	419 (50)	100	50/50	394 (50)	94	50/50
38-7	424 (49)	49/50	428 (50)	101	50/50	426 (50)	100	50/50	399 (50)	94	50/50
40-7	431 (49)	49/50	434 (50)	101	50/50	432 (50)	100	50/50	403 (50)	94	50/50
42-7	435 (49)	49/50	439 (50)	101	50/50	438 (50)	101	50/50	411 (50)	94	50/50
44-7	441 (49)	49/50	444 (50)	101	50/50	442 (50)	100	50/50	413 (50)	94	50/50
46-7	445 (49)	49/50	450 (50)	101	50/50	447 (50)	100	50/50	416 (50)	93	50/50
48-7	449 (49)	49/50	453 (50)	101	50/50	452 (50)	101	50/50	419 (50)	93	50/50
50-7	454 (49)	49/50	458 (50)	101	50/50	456 (50)	100	50/50	423 (50)	93	50/50
52-7	457 (49)	49/50	461 (50)	101	50/50	460 (50)	101	50/50	425 (50)	93	50/50
54-7	462 (49)	49/50	466 (50)	101	50/50	464 (50)	100	50/50	428 (50)	93	50/50
56-7	464 (49)	49/50	468 (50)	101	50/50	467 (50)	101	50/50	431 (50)	93	50/50
58-7	466 (49)	49/50	469 (50)	101	50/50	468 (50)	100	50/50	431 (49)	92	49/50
60-7	469 (49)	49/50	470 (50)	100	50/50	470 (50)	100	50/50	433 (49)	92	49/50
62-7	471 (49)	49/50	471 (50)	100	50/50	471 (50)	100	50/50	432 (49)	92	49/50
64-7	473 (49)	49/50	471 (50)	100	50/50	473 (50)	100	50/50	433 (48)	92	48/50
66-7	473 (49)	49/50	471 (50)	100	50/50	474 (50)	100	50/50	434 (47)	92	47/50
68-7	474 (49)	49/50	476 (49)	100	49/50	474 (50)	100	50/50	433 (47)	91	47/50
70-7	474 (49)	49/50	476 (49)	100	49/50	475 (50)	100	50/50	435 (47)	92	47/50
72-7	474 (49)	49/50	477 (49)	101	49/50	475 (50)	100	50/50	433 (43)	91	43/50
74-7	474 (49)	49/50	476 (49)	100	49/50	474 (50)	100	50/50	432 (41)	91	41/50
76-7	474 (49)	49/50	477 (49)	101	49/50	473 (50)	100	50/50	432 (40)	91	40/50
78-7	472 (49)	49/50	477 (49)	101	49/50	472 (50)	100	50/50	429 (38)	91	38/50
80-7	472 (49)	49/50	475 (49)	101	49/50	472 (50)	100	50/50	428 (37)	91	37/50
82-7	472 (49)	49/50	476 (49)	101	49/50	470 (49)	100	49/50	426 (36)	90	36/50
84-7	475 (48)	48/50	475 (48)	100	48/50	471 (47)	99	47/50	419 (34)	88	34/50
86-7	475 (47)	47/50	472 (48)	99	48/50	469 (47)	99	47/50	423 (30)	89	30/50
88-7	472 (47)	47/50	468 (48)	99	47/50	467 (46)	99	46/50	422 (29)	89	29/50
90-7	468 (47)	47/50	470 (47)	100	47/50	462 (46)	99	46/50	420 (26)	90	25/50
92-7	464 (46)	46/50	469 (47)	101	47/50	461 (45)	99	45/50	420 (25)	91	25/50
94-7	457 (46)	46/50	464 (47)	102	47/50	458 (45)	100	45/50	421 (25)	92	25/50
96-7	458 (45)	45/50	460 (47)	100	47/50	452 (45)	99	45/50	411 (21)	90	21/50
98-7	455 (44)	44/50	456 (47)	100	47/50	445 (45)	98	45/50	413 (17)	91	17/50
100-7	458 (43)	43/50	450 (47)	98	47/50	438 (44)	96	44/50	410 (17)	90	17/50
102-7	451 (43)	43/50	444 (46)	98	46/50	442 (42)	98	42/50	402 (14)	89	14/50
104-7	447 (43)	43/50	439 (46)	98	46/50	437 (42)	98	42/50	396 (12)	89	12/50

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

TABLE 13 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	40 ppm Av.Wt.	40 ppm % of cont. <50>	40 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
0-0	102 (50)	50/50	102 (50)	100	50/50	102 (50)	100	50/50	102 (50)	100	50/50
1-7	119 (50)	50/50	119 (50)	100	50/50	117 (50)	98	50/50	111 (50)	93	50/50
2-7	133 (50)	50/50	133 (50)	100	50/50	131 (50)	98	50/50	127 (50)	95	50/50
3-7	144 (50)	50/50	145 (50)	101	50/50	143 (50)	99	50/50	138 (50)	96	50/50
4-7	153 (50)	50/50	152 (50)	99	50/50	151 (50)	99	50/50	146 (50)	95	50/50
5-7	162 (50)	50/50	162 (50)	100	50/50	159 (50)	98	50/50	154 (50)	95	50/50
6-7	168 (50)	50/50	168 (50)	100	50/50	166 (50)	99	50/50	159 (50)	95	50/50
7-7	174 (50)	50/50	176 (50)	101	50/50	172 (50)	99	50/50	167 (50)	96	50/50
8-7	179 (50)	50/50	179 (50)	100	50/50	176 (50)	98	50/50	171 (50)	96	50/50
9-7	184 (50)	50/50	185 (50)	101	50/50	181 (50)	98	50/50	176 (50)	96	50/50
10-7	188 (50)	50/50	187 (50)	99	50/50	184 (50)	98	50/50	179 (50)	95	50/50
11-7	192 (50)	50/50	193 (50)	101	50/50	190 (50)	99	50/50	184 (50)	96	50/50
12-7	196 (50)	50/50	195 (50)	99	50/50	192 (50)	98	50/50	187 (50)	95	50/50
13-7	200 (50)	50/50	198 (50)	99	50/50	196 (50)	98	50/50	189 (50)	95	50/50
14-7	200 (50)	50/50	200 (50)	100	50/50	197 (50)	99	50/50	189 (50)	95	50/50
16-7	204 (50)	50/50	204 (50)	100	50/50	202 (50)	99	50/50	193 (50)	95	50/50
18-7	208 (50)	50/50	208 (50)	100	50/50	205 (50)	99	50/50	195 (50)	94	50/50
20-7	212 (50)	50/50	212 (50)	100	50/50	208 (50)	98	50/50	198 (50)	93	50/50
22-7	216 (50)	50/50	216 (50)	100	50/50	212 (50)	98	50/50	201 (50)	93	50/50
24-7	219 (50)	50/50	219 (50)	100	50/50	214 (50)	98	50/50	203 (50)	93	50/50
26-7	221 (50)	50/50	222 (50)	100	50/50	216 (50)	98	50/50	206 (50)	93	50/50
28-7	222 (50)	50/50	222 (50)	100	50/50	216 (50)	97	50/50	207 (50)	93	50/50
30-7	226 (50)	50/50	227 (50)	100	50/50	221 (50)	98	50/50	210 (50)	93	50/50
32-7	229 (50)	50/50	230 (50)	100	50/50	224 (50)	98	50/50	213 (50)	93	50/50
34-7	232 (50)	50/50	232 (50)	100	50/50	226 (49)	97	50/50	215 (50)	93	50/50
36-7	235 (50)	50/50	236 (50)	100	50/50	229 (50)	97	50/50	216 (50)	92	50/50
38-7	240 (50)	50/50	240 (50)	100	50/50	232 (50)	97	50/50	219 (50)	91	50/50
40-7	245 (50)	50/50	245 (50)	100	50/50	237 (50)	97	50/50	223 (50)	91	50/50
42-7	247 (50)	50/50	248 (50)	100	50/50	240 (50)	97	50/50	224 (50)	91	50/50
44-7	252 (50)	50/50	252 (50)	100	50/50	242 (50)	96	50/50	226 (50)	90	50/50
46-7	256 (50)	50/50	256 (50)	100	50/50	246 (50)	96	50/50	227 (50)	89	50/50
48-7	259 (50)	50/50	260 (50)	100	50/50	248 (50)	96	50/50	229 (50)	88	50/50
50-7	263 (50)	50/50	264 (50)	100	50/50	250 (50)	95	50/50	231 (50)	88	50/50
52-7	266 (50)	50/50	268 (50)	101	50/50	254 (50)	95	50/50	232 (50)	87	50/50
54-7	271 (50)	50/50	272 (50)	100	50/50	259 (49)	96	49/50	235 (50)	87	50/50
56-7	275 (50)	50/50	276 (50)	100	50/50	263 (49)	96	49/50	237 (50)	86	50/50
58-7	278 (50)	50/50	279 (50)	100	50/50	265 (49)	95	49/50	238 (50)	86	50/50
60-7	281 (50)	50/50	283 (50)	101	50/50	268 (49)	95	49/50	240 (50)	85	50/50
62-7	286 (50)	50/50	287 (50)	100	50/50	271 (49)	95	49/50	242 (50)	85	50/50
64-7	288 (50)	50/50	289 (50)	100	50/50	274 (49)	95	49/50	243 (50)	84	50/50
66-7	293 (50)	50/50	295 (49)	101	49/50	279 (49)	95	49/50	246 (50)	84	50/50
68-7	295 (50)	50/50	298 (49)	101	49/50	282 (49)	96	49/50	248 (50)	84	50/50
70-7	299 (49)	49/50	302 (49)	101	49/50	286 (49)	96	49/50	250 (49)	84	49/50
72-7	301 (49)	49/50	306 (49)	102	49/50	288 (49)	96	49/50	252 (47)	84	47/50
74-7	306 (48)	48/50	311 (49)	102	49/50	291 (49)	95	48/50	253 (47)	83	47/50
76-7	307 (47)	47/50	313 (49)	102	49/50	294 (48)	96	48/50	254 (45)	83	45/50
78-7	313 (46)	46/50	319 (48)	102	48/50	297 (48)	95	48/50	257 (44)	82	44/50
80-7	314 (46)	46/50	321 (48)	102	48/50	299 (48)	95	48/50	251 (44)	83	44/50
82-7	315 (45)	45/50	323 (48)	103	48/50	302 (47)	96	47/50	250 (43)	83	43/50
84-7	317 (45)	45/50	327 (47)	103	47/50	307 (46)	97	46/50	253 (43)	83	43/50
86-7	320 (44)	44/50	328 (46)	103	46/50	307 (45)	96	45/50	255 (42)	83	42/50
88-7	324 (42)	42/50	329 (45)	102	45/50	308 (42)	95	42/50	265 (41)	82	41/50
90-7	330 (41)	41/50	330 (45)	100	45/50	307 (42)	93	42/50	266 (38)	81	38/50
92-7	330 (41)	41/50	331 (45)	100	45/50	310 (41)	94	41/50	266 (37)	81	37/50
94-7	326 (41)	41/50	328 (45)	101	45/50	309 (40)	95	40/50	269 (37)	83	37/50
96-7	331 (39)	39/50	327 (45)	99	45/50	308 (40)	93	39/50	267 (36)	81	36/50
98-7	332 (38)	38/50	329 (44)	99	43/50	310 (39)	93	39/50	270 (34)	81	34/50
100-7	329 (38)	38/50	336 (42)	102	42/50	308 (39)	94	39/50	271 (32)	82	32/50
102-7	329 (38)	38/50	336 (42)	102	41/50	308 (39)	94	39/50	266 (29)	81	29/50
104-7	327 (37)	36/50	340 (41)	104	41/50	303 (38)	93	38/50	263 (28)	80	28/50

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

TABLE 14 FOOD CONSUMPTION IN MALE RAT

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	40 ppm Av.FC.	40 ppm % of cont. <50>	40 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
1-7	13.2 (50)	50/50	13.1 (50)	99	50/50	12.9 (50)	98	50/50	10.9 (50)	83	50/50
2-7	14.2 (50)	50/50	14.2 (49)	100	50/50	14.2 (50)	100	50/50	13.3 (50)	94	50/50
3-7	14.7 (50)	50/50	14.9 (50)	101	50/50	14.8 (49)	101	50/50	13.8 (50)	94	50/50
4-7	14.7 (50)	50/50	14.8 (50)	101	50/50	14.8 (50)	101	50/50	13.9 (50)	95	50/50
5-7	15.0 (49)	50/50	15.0 (50)	100	50/50	14.8 (50)	99	50/50	14.4 (50)	96	50/50
6-7	14.8 (50)	50/50	15.5 (44)	105	50/50	15.1 (50)	102	50/50	14.5 (50)	98	50/50
7-7	15.3 (50)	50/50	15.5 (50)	101	50/50	15.7 (50)	103	50/50	14.9 (50)	97	50/50
8-7	15.2 (50)	50/50	15.3 (50)	101	50/50	15.4 (50)	101	50/50	14.9 (50)	98	50/50
9-7	15.3 (50)	50/50	15.5 (50)	101	50/50	15.6 (50)	102	50/50	15.1 (50)	99	50/50
10-7	14.9 (50)	50/50	15.2 (50)	102	50/50	15.3 (50)	103	50/50	14.9 (50)	100	50/50
11-7	15.3 (50)	50/50	15.6 (50)	102	50/50	15.6 (50)	102	50/50	15.2 (50)	99	50/50
12-7	15.0 (50)	50/50	15.3 (50)	102	50/50	15.2 (50)	101	50/50	14.7 (50)	98	50/50
13-7	15.0 (50)	50/50	15.2 (50)	101	50/50	15.2 (50)	101	50/50	14.8 (50)	99	50/50
14-7	14.4 (50)	50/50	14.5 (50)	101	50/50	14.7 (50)	102	50/50	14.4 (50)	100	50/50
16-7	14.4 (49)	49/50	14.6 (50)	101	50/50	14.6 (50)	101	50/50	14.5 (50)	101	50/50
18-7	14.4 (49)	49/50	14.6 (50)	101	50/50	14.7 (50)	102	50/50	14.5 (50)	101	50/50
20-7	14.7 (49)	49/50	14.8 (50)	101	50/50	14.9 (50)	101	50/50	14.6 (50)	99	50/50
22-7	15.3 (48)	49/50	15.5 (50)	101	50/50	15.3 (50)	100	50/50	15.4 (50)	101	50/50
24-7	15.3 (49)	49/50	15.6 (50)	102	50/50	15.6 (50)	102	50/50	15.5 (50)	101	50/50
26-7	15.2 (49)	49/50	15.3 (50)	101	50/50	15.5 (50)	102	50/50	15.6 (49)	103	50/50
28-7	14.9 (49)	49/50	15.1 (50)	101	50/50	15.1 (50)	101	50/50	15.5 (50)	104	50/50
30-7	15.3 (49)	49/50	15.6 (50)	102	50/50	15.9 (50)	104	50/50	15.8 (49)	103	50/50
32-7	14.9 (48)	49/50	15.3 (50)	103	50/50	15.3 (49)	103	50/50	15.5 (48)	104	50/50
34-7	14.8 (49)	49/50	15.5 (50)	104	50/50	15.4 (50)	103	50/50	15.5 (49)	104	50/50
36-7	15.0 (49)	49/50	15.4 (50)	103	50/50	15.6 (50)	104	50/50	15.6 (50)	104	50/50
38-7	15.2 (49)	49/50	15.5 (50)	102	50/50	15.2 (50)	100	50/50	15.5 (49)	102	50/50
40-7	15.4 (49)	49/50	15.7 (50)	102	50/50	15.6 (50)	101	50/50	15.7 (50)	102	50/50
42-7	15.3 (49)	49/50	15.4 (50)	101	50/50	15.6 (50)	102	50/50	15.4 (49)	101	50/50
44-7	15.1 (49)	49/50	15.5 (50)	103	50/50	15.4 (50)	102	50/50	15.3 (50)	101	50/50
46-7	15.2 (49)	49/50	15.6 (50)	103	50/50	15.6 (50)	103	50/50	15.5 (50)	102	50/50
48-7	15.3 (49)	49/50	15.4 (50)	101	50/50	15.7 (50)	103	50/50	15.7 (50)	103	50/50
50-7	15.4 (49)	49/50	15.6 (50)	101	50/50	15.8 (50)	103	50/50	15.9 (50)	103	50/50
52-7	15.4 (49)	49/50	15.5 (50)	101	50/50	15.6 (50)	101	50/50	15.7 (50)	102	50/50
54-7	15.3 (49)	49/50	15.6 (50)	102	50/50	15.6 (50)	102	50/50	15.8 (49)	103	50/50
56-7	15.4 (49)	49/50	15.8 (50)	103	50/50	15.6 (50)	101	50/50	15.8 (50)	103	50/50
58-7	15.4 (49)	49/50	15.7 (50)	102	50/50	15.6 (50)	101	50/50	15.8 (49)	103	49/50
60-7	15.5 (49)	49/50	15.4 (50)	99	50/50	15.7 (50)	101	50/50	15.8 (49)	102	49/50
62-7	15.6 (49)	49/50	15.6 (50)	100	50/50	15.7 (50)	101	50/50	15.6 (49)	100	49/50
64-7	15.8 (49)	49/50	15.5 (49)	98	50/50	15.8 (50)	100	50/50	16.0 (48)	101	48/50
66-7	15.4 (49)	49/50	15.4 (50)	100	50/50	15.7 (50)	102	50/50	15.6 (46)	101	47/50
68-7	15.5 (49)	49/50	15.6 (49)	101	49/50	15.9 (50)	103	50/50	15.7 (46)	101	47/50
70-7	15.3 (49)	49/50	15.3 (48)	100	49/50	15.6 (50)	102	50/50	15.6 (47)	102	47/50
72-7	15.2 (49)	49/50	15.4 (49)	101	49/50	15.7 (50)	103	50/50	15.8 (43)	104	43/50
74-7	15.5 (49)	49/50	15.7 (49)	101	49/50	15.8 (50)	102	50/50	15.6 (40)	101	41/50
76-7	15.5 (49)	49/50	15.8 (49)	102	49/50	15.8 (50)	102	50/50	15.9 (40)	103	40/50
78-7	15.2 (49)	49/50	15.7 (49)	103	49/50	15.9 (50)	105	50/50	15.8 (37)	104	38/50
80-7	15.5 (49)	49/50	15.5 (49)	100	49/50	16.1 (50)	104	50/50	15.5 (36)	100	37/50
82-7	15.4 (49)	49/50	15.6 (49)	101	49/50	15.9 (49)	103	49/50	15.2 (35)	99	36/50
84-7	15.3 (48)	48/50	15.6 (48)	102	48/50	15.9 (47)	104	47/50	14.8 (33)	97	34/50
86-7	15.3 (47)	47/50	15.2 (48)	99	48/50	16.0 (47)	105	47/50	15.2 (28)	99	30/50
88-7	14.8 (47)	47/50	15.1 (48)	102	47/50	15.6 (45)	105	46/50	15.3 (28)	103	29/50
90-7	14.8 (47)	47/50	15.4 (47)	104	47/50	15.8 (45)	107	46/50	15.1 (25)	102	25/50
92-7	14.7 (46)	46/50	15.5 (47)	105	47/50	15.7 (43)	107	45/50	15.5 (23)	105	25/50
94-7	14.8 (46)	46/50	15.6 (47)	105	47/50	16.3 (43)	110	45/50	14.3 (23)	97	25/50
96-7	15.2 (45)	45/50	15.3 (47)	101	47/50	15.6 (44)	103	45/50	14.7 (20)	97	21/50
98-7	15.1 (44)	44/50	15.2 (47)	101	47/50	15.5 (43)	103	45/50	15.9 (16)	105	17/50
100-7	15.5 (43)	43/50	15.5 (46)	100	47/50	15.4 (41)	99	44/50	15.5 (16)	100	17/50
102-7	15.3 (43)	43/50	15.0 (45)	98	46/50	15.9 (40)	104	42/50	15.2 (12)	99	14/50
104-7	15.0 (43)	43/50	15.6 (45)	104	46/50	16.2 (39)	108	42/50	20.6 (11)	137	12/50

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

TABLE 15 FOOD CONSUMPTION IN FEMALE RAT

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	40 ppm Av.FC.	40 ppm % of cont. <50>	40 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
1-7	10.6 (50)	50/50	10.6 (50)	100	50/50	10.3 (50)	97	50/50	8.3 (50)	78	50/50
2-7	10.6 (50)	50/50	10.6 (50)	100	50/50	10.4 (49)	98	50/50	10.1 (50)	95	50/50
3-7	10.7 (48)	50/50	10.9 (50)	102	50/50	10.9 (49)	102	50/50	10.2 (50)	95	50/50
4-7	10.6 (50)	50/50	10.6 (49)	100	50/50	10.8 (50)	102	50/50	10.2 (50)	96	50/50
5-7	10.9 (50)	50/50	11.0 (49)	101	50/50	10.8 (50)	99	50/50	10.6 (50)	97	50/50
6-7	10.4 (50)	50/50	10.9 (49)	105	50/50	10.6 (50)	102	50/50	10.3 (50)	99	50/50
7-7	10.8 (50)	50/50	11.4 (50)	106	50/50	11.0 (50)	102	50/50	10.5 (50)	97	50/50
8-7	10.7 (50)	50/50	10.8 (50)	101	50/50	10.6 (50)	99	50/50	10.3 (50)	96	50/50
9-7	10.7 (50)	50/50	11.1 (50)	104	50/50	11.1 (50)	104	50/50	10.9 (49)	102	50/50
10-7	10.7 (50)	50/50	10.7 (50)	100	50/50	10.8 (50)	101	50/50	10.6 (50)	99	50/50
11-7	11.1 (50)	50/50	11.4 (50)	103	50/50	11.5 (50)	104	50/50	11.6 (50)	105	50/50
12-7	11.2 (50)	50/50	11.1 (50)	99	50/50	11.0 (50)	98	50/50	11.1 (49)	99	50/50
13-7	11.1 (50)	50/50	11.1 (50)	100	50/50	11.4 (50)	103	50/50	11.4 (48)	103	50/50
14-7	10.3 (50)	50/50	10.6 (50)	103	50/50	10.7 (50)	104	50/50	11.0 (50)	107	50/50
16-7	10.4 (50)	50/50	10.4 (50)	100	50/50	10.8 (50)	104	50/50	10.8 (49)	104	50/50
18-7	10.5 (50)	50/50	11.0 (50)	105	50/50	10.9 (50)	104	50/50	11.3 (50)	108	50/50
20-7	10.7 (50)	50/50	11.0 (49)	103	50/50	10.7 (50)	100	50/50	10.8 (49)	101	50/50
22-7	10.9 (50)	50/50	11.4 (50)	105	50/50	10.9 (50)	100	50/50	11.4 (50)	105	50/50
24-7	10.7 (50)	50/50	11.0 (50)	103	50/50	10.8 (50)	101	50/50	10.7 (50)	100	50/50
26-7	10.8 (50)	50/50	11.0 (50)	102	50/50	11.0 (50)	102	50/50	11.1 (50)	103	50/50
28-7	10.4 (50)	50/50	10.7 (50)	103	50/50	10.6 (50)	102	50/50	10.7 (50)	103	50/50
30-7	11.0 (50)	50/50	11.5 (49)	105	50/50	11.3 (50)	103	50/50	11.3 (50)	103	50/50
32-7	11.0 (50)	50/50	11.6 (50)	105	50/50	11.2 (50)	102	50/50	11.3 (50)	103	50/50
34-7	11.1 (50)	50/50	11.4 (50)	103	50/50	11.1 (50)	100	50/50	11.2 (50)	101	50/50
36-7	11.1 (50)	50/50	11.4 (50)	103	50/50	11.3 (50)	102	50/50	11.3 (50)	102	50/50
38-7	11.5 (50)	50/50	11.7 (50)	102	50/50	11.4 (50)	99	50/50	11.5 (50)	100	50/50
40-7	11.4 (50)	50/50	11.7 (50)	103	50/50	11.5 (50)	101	50/50	11.4 (50)	100	50/50
42-7	11.3 (50)	50/50	11.9 (50)	105	50/50	11.2 (50)	99	50/50	10.8 (50)	96	50/50
44-7	11.5 (50)	50/50	12.1 (50)	105	50/50	11.2 (50)	97	50/50	11.0 (50)	96	50/50
46-7	11.6 (50)	50/50	12.1 (50)	104	50/50	11.4 (50)	98	50/50	11.3 (50)	97	50/50
48-7	11.6 (50)	50/50	12.1 (50)	104	50/50	11.5 (50)	99	50/50	11.6 (50)	100	50/50
50-7	11.7 (50)	50/50	12.4 (50)	106	50/50	11.6 (50)	99	50/50	11.7 (50)	100	50/50
52-7	11.7 (50)	50/50	12.3 (50)	105	50/50	11.9 (50)	102	50/50	11.9 (50)	102	50/50
54-7	11.7 (50)	50/50	12.3 (50)	105	50/50	11.8 (49)	101	49/50	12.1 (50)	103	50/50
56-7	11.8 (50)	50/50	12.5 (50)	106	50/50	11.9 (49)	101	49/50	12.2 (50)	103	50/50
58-7	12.0 (50)	50/50	12.5 (50)	104	50/50	11.9 (49)	99	49/50	12.5 (50)	104	50/50
60-7	12.2 (50)	50/50	12.5 (50)	102	50/50	12.1 (49)	99	49/50	12.3 (50)	101	50/50
62-7	12.2 (50)	50/50	12.6 (50)	103	50/50	12.2 (49)	100	49/50	12.6 (50)	103	50/50
64-7	12.1 (49)	50/50	12.6 (50)	104	50/50	12.4 (49)	102	49/50	12.7 (50)	105	50/50
66-7	12.5 (49)	50/50	12.9 (49)	103	49/50	12.4 (49)	99	49/50	12.7 (50)	102	50/50
68-7	12.3 (50)	50/50	12.8 (49)	104	49/50	12.3 (49)	100	49/50	12.7 (50)	103	50/50
70-7	12.4 (49)	49/50	12.9 (49)	104	49/50	12.2 (49)	98	49/50	12.3 (49)	99	49/50
72-7	12.1 (49)	49/50	13.1 (49)	108	49/50	12.3 (49)	102	49/50	12.8 (47)	106	47/50
74-7	12.5 (48)	48/50	13.7 (49)	110	49/50	12.6 (48)	101	48/50	13.0 (47)	104	47/50
76-7	12.6 (47)	47/50	13.1 (48)	104	49/50	12.5 (48)	99	48/50	13.2 (45)	105	45/50
78-7	12.8 (46)	46/50	13.5 (48)	105	48/50	12.8 (48)	100	48/50	13.2 (44)	103	44/50
80-7	12.7 (46)	46/50	13.3 (48)	105	48/50	12.7 (48)	100	48/50	13.3 (44)	105	44/50
82-7	12.7 (45)	45/50	13.2 (48)	104	48/50	12.9 (47)	102	47/50	13.4 (43)	106	43/50
84-7	12.4 (45)	45/50	13.4 (47)	108	47/50	12.9 (46)	104	46/50	13.5 (43)	109	43/50
86-7	12.4 (44)	44/50	13.3 (46)	107	46/50	12.7 (45)	102	45/50	13.3 (41)	107	42/50
88-7	12.8 (42)	42/50	13.2 (45)	103	45/50	12.8 (42)	100	42/50	13.6 (41)	106	41/50
90-7	12.9 (41)	41/50	13.4 (45)	104	45/50	12.8 (42)	99	42/50	13.5 (38)	105	38/50
92-7	12.8 (41)	41/50	13.5 (44)	105	45/50	13.2 (41)	103	41/50	13.4 (37)	105	37/50
94-7	12.8 (41)	41/50	13.2 (44)	103	45/50	13.7 (40)	107	40/50	13.2 (37)	103	37/50
96-7	12.9 (39)	39/50	13.2 (44)	102	45/50	12.6 (40)	98	39/50	12.8 (36)	99	36/50
98-7	13.1 (38)	38/50	13.3 (44)	102	43/50	13.5 (39)	103	39/50	13.5 (34)	103	34/50
100-7	12.6 (38)	38/50	14.1 (42)	112	42/50	13.4 (39)	106	39/50	12.8 (32)	102	32/50
102-7	13.0 (38)	38/50	13.7 (41)	105	41/50	13.2 (39)	102	39/50	13.6 (29)	105	29/50
104-7	12.6 (37)	36/50	13.4 (40)	106	41/50	12.3 (38)	98	38/50	13.5 (27)	107	28/50

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

Table 16 CLINICAL OBSERVATION (104W-SUMMRY) -RAT:TWO-YEAR STUDIES-

Findings	Male				Female			
	1000ppm S(DM)*	200ppm S(DM)	40ppm S(DM)	0ppm S(DM)	1000ppm S(DM)	200ppm S(DM)	40ppm S(DM)	0ppm S(DM)
COLORED(着色)	0(12)	1(0)	0(1)	0(1)	25(20)	18(6)	13(1)	6(3)
FROG BELLY(腹部膨隆)	0(4)	0(0)	0(0)	2(0)	0(6)	0(0)	0(1)	0(0)
ANEMIA(貧血)	12(38)	42(8)	6(2)	6(1)	28(22)	38(12)	2(1)	3(10)
INTERNAL MASS(内部腫瘤)	2(15)	0(0)	0(0)	0(0)	1(7)	0(0)	0(0)	0(2)
EXTERNAL MASS(外部腫瘤)								
M.EYE(眼腫瘤)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
M.NOSE(鼻腫瘤)	1(1)	0(0)	0(0)	0(0)	0(0)	0(0)	1(0)	0(0)
M.PERI MOUTH(口周囲腫瘤)	0(1)	0(0)	1(0)	0(0)	1(0)	2(0)	1(0)	0(1)
M.MANDIBULAR(下顎部腫瘤)	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)
M.EAR(耳介部腫瘤)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)
M.PERI EAR(耳根部腫瘤)	0(0)	0(2)	1(1)	0(0)	0(1)	1(0)	0(1)	0(0)
M.NECK(頸部腫瘤)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	1(0)
M.FORLIMB(前肢腫瘤)	0(0)	0(0)	0(0)	1(0)	0(0)	1(0)	1(0)	0(0)
M.BREAST(胸部腫瘤)	1(0)	2(1)	2(1)	1(0)	4(1)	2(0)	1(0)	2(0)
M.ABDOMEN(腹部腫瘤)	0(2)	2(0)	2(0)	3(1)	3(3)	1(2)	1(0)	4(2)
M.ANTERIOR.DORSUM(背側前部腫瘤)	0(1)	2(0)	1(0)	1(1)	0(0)	2(0)	1(0)	1(0)
M.POSTERIOR.DORSUM(背側後部腫瘤)	0(1)	1(1)	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)
M.SCROTUM(陰嚢腫瘤)	0(0)	2(0)	1(0)	1(0)	-	-	-	-
M.HINDLIMB(後肢腫瘤)	0(1)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)
M.GENITALIA(外陰部腫瘤)	0(1)	0(0)	0(0)	0(0)	4(1)	5(1)	2(1)	4(2)
M.TAIL(尾腫瘤)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)
NO.of Animals with EXTERNAL MASS	2(7)	10(3)	11(2)	6(2)	11(5)	9(3)	8(2)	8(4)
NO.of Survival Amimals (Dead & Moribund Animals)	12(38)	42(8)	46(4)	43(7)	28(22)	38(12)	41(9)	36(14)
NO.of Observed Animals	50	50	50	50	50	50	50	50

* : S=Survival Amimals (DM=Dead & Moribund Animals)

Table 16 CLINICAL OBSERVATION (104W-SUMMRY) -RAT:TWO-YEAR STUDIES-

Findings	Male				Female			
	1000ppm S(DM)*	200ppm S(DM)	40ppm S(DM)	0ppm S(DM)	1000ppm S(DM)	200ppm S(DM)	40ppm S(DM)	0ppm S(DM)
COLORED(着色)	0(12)	1(0)	0(1)	0(1)	25(20)	18(6)	13(1)	6(3)
FROG BELLY(腹部膨隆)	0(4)	0(0)	0(0)	2(0)	0(6)	0(0)	0(1)	0(0)
ANEMIA(貧血)	12(38)	42(8)	6(2)	6(1)	28(22)	38(12)	2(1)	3(10)
INTERNAL MASS(内部腫瘤)	2(15)	0(0)	0(0)	0(0)	1(7)	0(0)	0(0)	0(2)
EXTERNAL MASS(外部腫瘤)								
M.EYE(眼腫瘤)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
M.NOSE(鼻腫瘤)	1(1)	0(0)	0(0)	0(0)	0(0)	0(0)	1(0)	0(0)
M.PERI MOUTH(口周囲腫瘤)	0(1)	0(0)	1(0)	0(0)	1(0)	2(0)	1(0)	0(1)
M.MANDIBULAR(下顎部腫瘤)	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)
M.EAR(耳介部腫瘤)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)
M.PERI EAR(耳根部腫瘤)	0(0)	0(2)	1(1)	0(0)	0(1)	1(0)	0(1)	0(0)
M.NECK(頸部腫瘤)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	1(0)
M.FORLIMB(前肢腫瘤)	0(0)	0(0)	0(0)	1(0)	0(0)	1(0)	1(0)	0(0)
M.BREAST(胸部腫瘤)	1(0)	2(1)	2(1)	1(0)	4(1)	2(0)	1(0)	2(0)
M.ABDOMEN(腹部腫瘤)	0(2)	2(0)	2(0)	3(1)	3(3)	1(2)	1(0)	4(2)
M.ANTERIOR.DORSUM(背側前部腫瘤)	0(1)	2(0)	1(0)	1(1)	0(0)	2(0)	1(0)	1(0)
M.POSTERIOR.DORSUM(背側後部腫瘤)	0(1)	1(1)	2(0)	0(0)	0(0)	0(0)	0(0)	0(0)
M.SCROTUM(陰嚢腫瘤)	0(0)	2(0)	1(0)	1(0)	-	-	-	-
M.HINDLIMB(後肢腫瘤)	0(1)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)
M.GENITALIA(外陰部腫瘤)	0(1)	0(0)	0(0)	0(0)	4(1)	5(1)	2(1)	4(2)
M.TAIL(尾腫瘤)	1(0)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)
No.of Animals with EXTERNAL MASS	2(7)	10(3)	11(2)	6(2)	11(5)	9(3)	8(2)	8(4)
No.of Survival Amimals (Dead & Moribund Animals)	12(38)	42(8)	46(4)	43(7)	28(22)	38(12)	41(9)	36(14)
No.of Observed Animals	50	50	50	50	50	50	50	50

* : S=Survival Amimals (DM=Dead & Moribund Animals)

TABLE 17 NEOPLASTIC LESIONS (SPLEEN) INCIDENCE AND STATISTICAL ANALYSIS : RAT:MALE

Group Name	Control	40 ppm	200 ppm	1000 ppm
SITE : spleen TUMOUR : fibroma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	1/50 (2.0)	15/50 (30.0)
Adjusted Rates(b)	0.0	0.0	2.38	58.82
Terminal Rates(c)	0/43 (0.0)	0/46 (0.0)	1/42 (2.4)	7/12 (58.3)
Standard Rates(d)	P=0.1627			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.5000	P=0.4950	P=0.0001**
SITE : spleen TUMOUR : fibrosarcoma				
Overall Rates(a)	0/50 (0.0)	1/50 (2.0)	0/50 (0.0)	29/50 (58.0)
Adjusted Rates(b)	0.0	2.17	0.0	58.33
Terminal Rates(c)	0/43 (0.0)	1/46 (2.2)	0/42 (0.0)	7/12 (58.3)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.4950	P=0.5000	P<0.0001**
SITE : spleen TUMOUR : osteosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	0/50 (0.0)	11/50 (22.0)
Adjusted Rates(b)	0.0	0.0	0.0	22.73
Terminal Rates(c)	0/43 (0.0)	0/46 (0.0)	0/42 (0.0)	1/12 (8.3)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.5000	P=0.5000	P=0.0009**
SITE : spleen TUMOUR : sarcoma NOS				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	1/50 (2.0)	6/50 (12.0)
Adjusted Rates(b)	0.0	0.0	2.38	21.05
Terminal Rates(c)	0/43 (0.0)	0/46 (0.0)	1/42 (2.4)	2/12 (16.7)
Standard Rates(d)	P=0.0028**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P=0.0001**			
Fisher Exact Test(e)		P=0.5000	P=0.4950	P=0.0190*
SITE : spleen TUMOUR : mononuclear cell leukemia				
Overall Rates(a)	7/50 (14.0)	2/50 (4.0)	1/50 (2.0)	2/50 (4.0)
Adjusted Rates(b)	9.30	4.35	2.17	0.0
Terminal Rates(c)	4/43 (9.3)	2/46 (4.3)	0/42 (0.0)	0/12 (0.0)
Standard Rates(d)	P=0.1749			
Prevalence Rates(d)	P=0.9537			
Combind analysis(d)	P=0.6320			
Cochran-Armitage Test(e)	P=0.2902			
Fisher Exact Test(e)		P=0.1045	P=0.0430*	P=0.1045
SITE : spleen TUMOUR : hemangiosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	5/50 (10.0)	7/50 (14.0)
Adjusted Rates(b)	0.0	0.0	10.42	17.65
Terminal Rates(c)	0/43 (0.0)	0/46 (0.0)	4/42 (9.5)	2/12 (16.7)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P=0.0179*			
Combind analysis(d)	P=0.0001**			
Cochran-Armitage Test(e)	P=0.0017**			
Fisher Exact Test(e)		P=0.5000	P=0.0360*	P=0.0101*
SITE : spleen TUMOUR : fibroma,fibrosarcoma,osteosarcoma,sarcoma:NOS,hemangiosarcoma				
Overall Rates(a)	0/50 (0.0)	1/50 (2.0)	7/50 (14.0)	47/50 (94.0)
Adjusted Rates(b)	0.0	2.17	14.58	100.00
Terminal Rates(c)	0/43 (0.0)	1/46 (2.2)	6/42 (14.3)	12/12(100.0)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.4950	P=0.0101*	P<0.0001**

TABLE 18 NEOPLASTIC LESIONS (SPLEEN) INCIDENCE AND STATISTICAL ANALYSIS : RAT:FEMALE

Group Name	Control	40 ppm	200 ppm	1000 ppm
SITE : spleen TUMOUR : fibroma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	1/50 (2.0)	3/50 (6.0)
Adjusted Rates(b)	0.0	0.0	2.63	7.14
Terminal Rates(c)	0/36 (0.0)	0/42 (0.0)	1/38 (2.6)	2/28 (7.1)
Standard Rates(d)	P=------			
Prevalence Rates(d)	P=0.0123*			
Combind analysis(d)	P=------			
Cochran-Armitage Test(e)	P=0.0146*			
Fisher Exact Test(e)		P=0.5000	P=0.4950	P=0.1325
SITE : spleen TUMOUR : fibrosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	0/50 (0.0)	17/50 (34.0)
Adjusted Rates(b)	0.0	0.0	0.0	25.00
Terminal Rates(c)	0/36 (0.0)	0/41 (0.0)	0/38 (0.0)	7/28 (25.0)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.5000	P=0.5000	P<0.0001**
SITE : spleen TUMOUR : osteosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	0/50 (0.0)	3/50 (6.0)
Adjusted Rates(b)	0.0	0.0	0.0	0.0
Terminal Rates(c)	0/36 (0.0)	0/41 (0.0)	0/38 (0.0)	1/28 (0.0)
Standard Rates(d)	P=0.0005**?			
Prevalence Rates(d)	P=------			
Combind analysis(d)	P=0.0005**?			
Cochran-Armitage Test(e)	P=0.0030**			
Fisher Exact Test(e)		P=0.5000	P=0.5000	P=0.0009**
SITE : spleen TUMOUR : mononuclear cell leukemia				
Overall Rates(a)	11/50 (22.0)	1/50 (2.0)	7/50 (14.0)	4/50 (8.0)
Adjusted Rates(b)	12.50	2.44	5.26	4.35
Terminal Rates(c)	4/36 (11.1)	1/41 (2.4)	2/38 (5.3)	0/28 (0.0)
Standard Rates(d)	P=0.7000			
Prevalence Rates(d)	P=0.6696			
Combind analysis(d)	P=0.7686			
Cochran-Armitage Test(e)	P=0.3554			
Fisher Exact Test(e)		P=0.0052**	P=0.2711	P=0.0777
SITE : spleen TUMOUR : hemangiosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	2/50 (4.0)	4/50 (8.0)
Adjusted Rates(b)	0.0	0.0	2.63	8.11
Terminal Rates(c)	0/36 (0.0)	0/41 (0.0)	1/38 (2.6)	1/28 (3.6)
Standard Rates(d)	P=0.1606			
Prevalence Rates(d)	P=0.0093**			
Combind analysis(d)	P=0.0057**			
Cochran-Armitage Test(e)	P=0.0097**			
Fisher Exact Test(e)		P=0.5000	P=0.2574	P=0.0688
SITE : spleen TUMOUR : fibroma,fibrosarcoma,osteosarcoma,sarcoma:NOS,hemangiosarcoma				
Overall Rates(a)	0/50 (0.0)	0/50 (0.0)	3/50 (6.0)	26/50 (52.0)
Adjusted Rates(b)	0.0	0.0	5.26	38.24
Terminal Rates(c)	0/36 (0.0)	0/41 (0.0)	2/38 (5.3)	10/28(35.7)
Standard Rates(d)	P<0.0001**?			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P<0.0001**?			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.5000	P=0.1325	P<0.0001**

TABLE 19 NUMBER OF RAT WITH SELECTED SPLEEN LESION (MALE)

	Control	40ppm	200ppm	1000ppm
Number examined	50	50	50	50
Non-neoplastic lesions				
Capsule hyperplasia	0	0	43	47
Fibrosis	0	1	40	47
Fatty metamorphosis	0	0	14	24
Extramedullary hematopoiesis	4	4	18	13
Congestion	0	0	10	0
Deposit of hemosiderin	4	5	6	0
Follicular hyperplasia	0	1	0	0
Neoplastic lesions				
Fibrosarcoma (a)	0	1	0	29
Fibroma (b)	0	0	1	15
Osteosarcoma (c)	0	0	0	11
Hemangiosarcoma (d)	0	0	5	7
Sarcoma:NOS (e)	0	0	1	6
(a)/(b)/(c)/(d)/(e)#	0	1	7	47
Mononuclear cell leukemia	7	2	1	2
Metastasis:spleen tumor to other organs				
Liver	0	0	0	24
Pancreas	0	0	0	23
Peritoneum	0	0	0	21
Testis	0	0	0	4
Prostate	0	0	0	3
Lung/bronchus	0	0	0	2
Lymph node	0	0	0	2
Semin vesicle	0	0	0	2
Subcutis	0	0	0	1
Urin bladder	0	0	0	1
Adrenal gland	0	0	0	1
All site ##	0	0	0	30

: Number of rat with neoplatic lesions except mononuclear cell leukemia.
: Number of rat with metastasis of spleen tumor

TABLE 20 NUMBER OF RAT WITH SELECTED SPLEEN LESION (FEMALE)

	Control	40ppm	200ppm	1000ppm
Number examined	50	50	50	50
Non-neoplastic lesions				
Capsule hyperplasia	0	0	42	46
Fibrosis	2	3	31	45
Extramedullary hematopoiesis	8	16	26	20
Congestion	0	0	24	11
Fatty metamorphosis	0	0	6	9
Deposit of hemosiderin	7	8	10	6
Neoplastic lesions				
Fibrosarcoma (a)	0	0	0	17
Hemangiosarcoma (b)	0	0	2	4
Fibroma (c)	0	0	1	3
Osteosarcoma (d)	0	0	0	3
Sarcoma:NOS (e)	0	0	0	1
(a)/(b)/(c)/(d)/(e)#	0	0	3	26
Mononuclear cell leukemia	11	1	7	4
Metastasis:spleen tumor to other organs				
Liver	0	0	0	13
Peritoneum	0	0	0	11
Pancreas	0	0	0	9
Lung/bronchus	0	0	0	4
Adrenal gland	0	0	0	4
Lymph node	0	0	0	1
Heart	0	0	0	1
Large intestine	0	0	0	1
All site ##	0	0	0	20

: Number of rat with neoplatic lesions except mononuclear cell leukemia.
: Number of rat with metastasis of spleen tumor

TABLE 21 NEOPLASTIC LESIONS (LIVER) INCIDENCE AND STATISTICAL ANALYSIS : RAT:MALE

Group Name	Control	40 ppm	200 ppm	1000 ppm
SITE : liver TUMOUR : hepatocellular adenoma				
Overall Rates(a)	0/50 (0.0)	2/50 (4.0)	5/50 (10.0)	0/50 (0.0)
Adjusted Rates(b)	0.0	4.35	11.90	0.0
Terminal Rates(c)	0/43 (0.0)	2/46 (4.3)	5/42 (11.9)	0/12 (0.0)
Standard Rates(d)	P=------			
Prevalence Rates(d)	P=0.4313			
Combind analysis(d)	P=------			
Cochran-Armitage Test(e)	P=0.3008			
Fisher Exact Test(e)		P=0.2574	P=0.0360*	P=0.5000

TABLE 22 NEOPLASTIC LESIONS (ADRENAL GLAND) INCIDENCE AND STATISTICAL ANALYSIS : RAT:MALE

Group Name	Control	40 ppm	200 ppm	1000 ppm
SITE : adrenal gland TUMOUR : pheochromocytoma				
Overall Rates(a)	7/50 (14.0)	7/50 (14.0)	6/50 (12.0)	16/50 (32.0)
Adjusted Rates(b)	15.56	15.22	14.29	61.54
Terminal Rates(c)	6/43 (14.0)	7/46 (15.2)	6/42 (14.3)	7/12 (58.3)
Standard Rates(d)	P=------			
Prevalence Rates(d)	P<0.0001**			
Combind analysis(d)	P=------			
Cochran-Armitage Test(e)	P=0.0041**			
Fisher Exact Test(e)		P=0.3882	P=0.4863	P=0.0704

TABLE 23 NEOPLASTIC LESIONS (ADRENAL GLAND) INCIDENCE AND STATISTICAL ANALYSIS : RAT:FEMALE

Group Name	Control	40 ppm	200 ppm	1000 ppm
SITE : adrenal gland TUMOUR : pheochromocytoma				
Overall Rates(a)	3/50 (6.0)	6/50 (12.0)	4/50 (8.0)	16/50 (32.0)
Adjusted Rates(b)	7.50	12.77	10.53	40.00
Terminal Rates(c)	2/36 (5.6)	4/41 (9.8)	4/38 (10.5)	10/28 (35.7)
Standard Rates(d)	P=0.1648			
Prevalence Rates(d)	P=0.0001**			
Combind analysis(d)	P<0.0001**			
Cochran-Armitage Test(e)	P=0.0001**			
Fisher Exact Test(e)		P=0.2728	P=0.4895	P=0.0049**

TABLE 24 CAUSE OF DEATH(SUMMARY) :RAT

Sex	Male				Female			
Group Name	Control	40ppm	200ppm	1000ppm	Control	40ppm	200ppm	1000ppm
Number of Dead/Moribund Animal	7	4	8	38	14	9	12	22
no microscopical confirmation	1	0	0	0	1	0	2	0
urinary retention	0	0	0	1	0	0	0	0
chronic nephropathy	1	1	3	0	1	0	0	1
Tumor death : leukemia	3	0	0	0	6	0	5	0
: nasal cavity	0	0	0	0	1	1	0	0
: subcutis	0	1	2	0	0	0	0	0
: spleen	0	0	0	37	0	0	1	15
: liver	0	0	0	0	1	0	0	0
: pituitary	1	1	1	0	2	3	3	2
: adrenal	0	0	1	0	0	0	0	1
: uterus	-	-	-	-	1	3	0	2
: mammary gland	0	0	0	0	0	0	1	0
: peripheral nerves	0	0	0	0	0	1	0	0
: spinal cord	1	0	0	0	0	0	0	0
: Zymbal gland	0	1	1	0	0	1	0	1
: retroperitoneum	0	0	0	0	1	0	0	0

TABLE 27 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	111 ppm Av.Wt.	111 ppm % of cont. <10>	111 ppm No.of Surviv.	333 ppm Av.Wt.	333 ppm % of cont. <10>	333 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	9000 ppm Av.Wt.	9000 ppm % of cont. <10>	9000 ppm No.of Surviv.
0-0	23.5 (10)	10/10	23.5 (10)	100	10/10	23.5 (10)	100	10/10	23.5 (10)	100	10/10	23.6 (10)	100	10/10	23.6 (10)	100	10/10
1-1	23.6 (10)	10/10	24.1 (10)	102	10/10	23.5 (10)	100	10/10	23.8 (10)	101	10/10	23.1 (10)	98	10/10	21.7 (10)	92	10/10
1-2	23.6 (10)	10/10	24.0 (10)	102	10/10	23.5 (10)	100	10/10	23.7 (10)	100	10/10	23.0 (10)	97	10/10	20.8 (10)	88	10/10
1-4	23.1 (10)	10/10	23.3 (10)	101	10/10	22.7 (10)	98	10/10	22.9 (10)	99	10/10	23.1 (10)	100	10/10	19.5 (10)	84	10/10
1-7	24.0 (10)	10/10	25.0 (10)	104	10/10	24.7 (10)	103	10/10	24.4 (10)	102	10/10	23.7 (10)	99	10/10	18.1 (10)	75	10/10
2-3	25.1 (10)	10/10	25.4 (10)	101	10/10	24.4 (10)	97	10/10	25.3 (10)	101	10/10	24.3 (10)	97	10/10	16.3 (10)	65	7/10
2-7	24.7 (10)	10/10	24.3 (10)	98	10/10	24.4 (10)	99	10/10	24.1 (10)	98	10/10	24.7 (10)	100	10/10	17.6 (5)	71	5/10

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

TABLE 28 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	111 ppm Av.Wt.	111 ppm % of cont. <10>	111 ppm No.of Surviv.	333 ppm Av.Wt.	333 ppm % of cont. <10>	333 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	9000 ppm Av.Wt.	9000 ppm % of cont. <10>	9000 ppm No.of Surviv.
0-0	18.8 (10)	10/10	18.8 (10)	100	10/10	18.8 (10)	100	10/10	18.8 (10)	100	10/10	18.8 (10)	100	10/10	18.8 (10)	100	10/10
1-1	18.5 (10)	10/10	18.8 (10)	102	10/10	19.0 (10)	103	10/10	18.4 (10)	99	10/10	18.2 (10)	98	10/10	16.8 (10)	91	10/10
1-2	18.5 (10)	10/10	18.9 (10)	102	10/10	18.9 (10)	102	10/10	18.3 (10)	99	10/10	18.1 (10)	98	10/10	15.8 (10)	85	10/10
1-4	18.0 (10)	10/10	18.5 (10)	103	10/10	18.4 (10)	102	10/10	18.4 (10)	102	10/10	18.1 (10)	101	10/10	14.5 (10)	81	10/10
1-7	19.0 (10)	10/10	19.2 (10)	101	10/10	18.9 (10)	99	10/10	18.7 (10)	98	10/10	18.4 (10)	97	10/10	12.8 (10)	67	8/10
2-3	19.4 (10)	10/10	19.6 (10)	101	10/10	19.6 (10)	101	10/10	19.4 (10)	100	10/10	19.5 (10)	101	10/10	13.0 (3)	67	2/10
2-7	19.0 (10)	10/10	19.3 (10)	102	10/10	19.4 (10)	102	10/10	19.4 (10)	102	10/10	19.8 (10)	104	10/10	13.1 (1)	69	1/10

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

TABLE 29 FOOD CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	111 ppm Av.FC.	111 ppm % of cont. <10>	111 ppm No.of Surviv.	333 ppm Av.FC.	333 ppm % of cont. <10>	333 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	9000 ppm Av.FC.	9000 ppm % of cont. <10>	9000 ppm No.of Surviv.
1-7	3.8 (10)	10/10	3.9 (10)	103	10/10	3.8 (10)	100	10/10	3.8 (10)	100	10/10	3.5 (10)	92	10/10	1.7 (10)	45	10/10
2-7	3.6 (10)	10/10	3.3 (10)	92	10/10	3.5 (10)	97	10/10	3.7 (10)	103	10/10	3.6 (10)	100	10/10	2.0 (5)	56	5/10

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

TABLE 30 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	111 ppm Av.FC.	111 ppm % of cont. <10>	111 ppm No.of Surviv.	333 ppm Av.FC.	333 ppm % of cont. <10>	333 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	9000 ppm Av.FC.	9000 ppm % of cont. <10>	9000 ppm No.of Surviv.
1-7	3.3 (10)	10/10	3.4 (10)	103	10/10	3.4 (10)	103	10/10	3.3 (10)	100	10/10	2.6 (10)	79	10/10	2.0 (10)	61	8/10
2-7	3.3 (10)	10/10	3.4 (10)	103	10/10	3.5 (10)	106	10/10	3.7 (10)	112	10/10	3.1 (10)	94	10/10	2.6 (1)	79	1/10

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

TABLE 31 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	74.1 ppm Av.Wt.	74.1 ppm % of cont. < 9>	74.1 ppm No.of Surviv.	222 ppm Av.Wt.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.Wt.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	6000 ppm Av.Wt.	6000 ppm % of cont. <10>	6000 ppm No.of Surviv.
0-0	22.7 (10)	10/10	22.6 (9)	100	10/10	22.7 (10)	100	10/10	22.7 (10)	100	10/10	22.7 (10)	100	10/10	22.7 (10)	100	10/10
1-7	22.8 (10)	10/10	23.3 (9)	102	9/ 9 *	23.4 (10)	103	10/10	22.7 (10)	100	10/10	23.2 (10)	102	10/10	20.2 (10)	89	10/10
2-7	25.5 (10)	10/10	25.8 (9)	101	9/ 9	25.2 (10)	99	10/10	25.2 (10)	99	10/10	24.4 (10)	96	10/10	20.4 (10)	80	10/10
3-7	26.1 (10)	10/10	26.6 (9)	102	9/ 9	25.9 (10)	99	10/10	25.6 (10)	98	10/10	25.1 (10)	96	10/10	21.0 (10)	80	10/10
4-7	27.1 (10)	10/10	27.3 (9)	101	9/ 9	26.9 (10)	99	10/10	27.3 (10)	101	10/10	26.4 (10)	97	10/10	22.6 (10)	83	10/10
5-7	27.9 (10)	10/10	27.7 (9)	99	9/ 9	27.7 (10)	99	10/10	27.4 (10)	98	10/10	26.3 (10)	94	10/10	22.9 (10)	82	10/10
6-7	28.4 (10)	10/10	28.5 (9)	100	9/ 9	28.9 (10)	102	10/10	28.2 (10)	99	10/10	27.5 (10)	97	10/10	24.2 (10)	85	10/10
7-7	29.2 (10)	10/10	28.9 (9)	99	9/ 9	29.6 (10)	101	10/10	29.5 (10)	101	10/10	28.0 (10)	96	10/10	25.1 (10)	86	10/10
8-7	30.0 (10)	10/10	30.6 (9)	102	9/ 9	30.7 (10)	102	10/10	30.5 (10)	102	10/10	28.8 (10)	96	10/10	26.4 (10)	88	10/10
9-7	30.3 (10)	10/10	30.7 (9)	101	9/ 9	31.0 (10)	102	10/10	30.9 (10)	102	10/10	29.0 (10)	96	10/10	26.7 (10)	88	10/10
10-7	31.1 (10)	10/10	32.4 (9)	104	9/ 9	32.5 (10)	105	10/10	32.2 (10)	104	10/10	30.2 (10)	97	10/10	27.1 (10)	87	10/10
11-7	30.7 (10)	10/10	32.2 (9)	105	9/ 9	32.0 (10)	104	10/10	31.9 (10)	104	10/10	29.6 (10)	96	10/10	27.6 (10)	90	10/10
12-7	32.2 (10)	10/10	33.7 (9)	105	9/ 9	33.7 (10)	105	10/10	33.6 (10)	104	10/10	31.4 (10)	98	10/10	27.7 (10)	86	10/10
13-7	33.1 (10)	10/10	33.9 (9)	102	9/ 9	34.9 (10)	105	10/10	35.4 (10)	107	10/10	32.5 (10)	98	10/10	28.2 (10)	85	10/10

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

* One male mouse of the 74.1ppm group accidentally died on 1st-week 6th-day(1-6)

TABLE 32 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	74.1 ppm Av.Wt.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.Wt.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.Wt.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	6000 ppm Av.Wt.	6000 ppm % of cont. <10>	6000 ppm No.of Surviv.
0-0	19.1 (10)	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10
1-7	19.2 (10)	10/10	19.4 (10)	101	10/10	19.8 (10)	103	10/10	19.7 (10)	103	10/10	19.6 (10)	102	10/10	15.8 (10)	82	10/10
2-7	19.8 (10)	10/10	20.1 (10)	102	10/10	20.2 (10)	102	10/10	20.2 (10)	102	10/10	20.3 (10)	103	10/10	17.0 (10)	86	10/10
3-7	20.1 (10)	10/10	20.2 (10)	100	10/10	20.7 (10)	103	10/10	20.1 (10)	100	10/10	20.6 (10)	102	10/10	17.9 (10)	89	10/10
4-7	20.1 (10)	10/10	20.2 (10)	100	10/10	20.2 (10)	100	10/10	21.1 (10)	105	10/10	20.9 (10)	104	10/10	19.1 (10)	95	10/10
5-7	20.9 (10)	10/10	21.3 (10)	102	10/10	21.4 (10)	102	10/10	21.6 (10)	103	10/10	22.5 (10)	108	10/10	19.6 (10)	94	10/10
6-7	22.0 (10)	10/10	22.1 (10)	100	10/10	22.9 (10)	104	10/10	22.6 (10)	103	10/10	22.8 (10)	104	10/10	20.3 (10)	92	10/10
7-7	21.9 (10)	10/10	22.5 (10)	103	10/10	23.0 (10)	105	10/10	23.1 (10)	105	10/10	23.3 (10)	106	10/10	20.7 (10)	95	9/10
8-7	22.4 (10)	10/10	23.3 (10)	104	10/10	23.6 (10)	105	10/10	23.4 (10)	104	10/10	23.6 (10)	105	10/10	21.0 (9)	94	9/10
9-7	22.8 (10)	10/10	23.7 (10)	104	10/10	23.0 (10)	101	10/10	23.8 (10)	104	10/10	24.2 (10)	106	10/10	21.5 (9)	94	9/10
10-7	23.7 (10)	10/10	24.4 (10)	103	10/10	25.2 (10)	106	10/10	24.7 (10)	104	10/10	25.2 (10)	106	10/10	21.9 (9)	92	9/10
11-7	22.0 (10)	10/10	23.4 (10)	106	10/10	24.6 (10)	112	10/10	24.0 (10)	109	10/10	24.4 (10)	111	10/10	22.6 (9)	103	9/10
12-7	24.2 (10)	10/10	25.6 (10)	106	10/10	26.0 (10)	107	10/10	25.9 (10)	107	10/10	25.5 (10)	105	10/10	22.9 (9)	95	9/10
13-7	24.3 (10)	10/10	25.7 (10)	106	10/10	26.4 (10)	109	10/10	26.0 (10)	107	10/10	25.7 (10)	106	10/10	23.0 (9)	95	9/10

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

TABLE 33 FOOD CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	74.1 ppm Av.FC.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.FC.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.FC.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	6000 ppm Av.FC.	6000 ppm % of cont. <10>	6000 ppm No.of Surviv.
1-7	3.6 (10)	10/10	3.8 (9)	106	9/ 9 *	4.0 (10)	111	10/10	3.6 (10)	100	10/10	3.6 (10)	100	10/10	2.3 (10)	64	10/10
2-7	4.2 (10)	10/10	4.2 (9)	100	9/ 9	4.2 (10)	100	10/10	4.1 (10)	98	10/10	3.7 (10)	88	10/10	2.9 (10)	69	10/10
3-7	3.7 (10)	10/10	3.9 (9)	105	9/ 9	3.9 (10)	105	10/10	3.7 (10)	100	10/10	3.7 (10)	100	10/10	3.1 (10)	84	10/10
4-7	3.5 (10)	10/10	3.9 (9)	111	9/ 9	3.9 (10)	111	10/10	3.8 (10)	111	10/10	3.8 (10)	109	10/10	3.1 (10)	89	10/10
5-7	3.6 (10)	10/10	3.7 (9)	103	9/ 9	3.7 (10)	103	10/10	3.4 (10)	94	10/10	3.5 (10)	97	10/10	2.8 (10)	78	10/10
6-7	3.5 (10)	10/10	3.7 (9)	106	9/ 9	4.0 (10)	114	10/10	3.7 (10)	106	10/10	3.7 (10)	106	10/10	3.1 (10)	89	10/10
7-7	3.8 (10)	10/10	3.7 (9)	97	9/ 9	3.9 (10)	103	10/10	3.9 (10)	103	10/10	3.7 (10)	97	10/10	3.4 (10)	89	10/10
8-7	3.6 (10)	10/10	3.9 (9)	108	9/ 9	4.0 (10)	111	10/10	3.8 (10)	106	10/10	3.8 (10)	106	10/10	3.3 (10)	92	10/10
9-7	3.6 (10)	10/10	3.8 (9)	106	9/ 9	3.9 (10)	108	10/10	3.7 (10)	103	10/10	3.8 (10)	106	10/10	3.3 (10)	92	10/10
10-7	3.6 (10)	10/10	4.2 (9)	117	9/ 9	4.1 (10)	114	10/10	4.1 (10)	114	10/10	4.0 (10)	111	10/10	3.2 (10)	89	10/10
11-7	3.3 (10)	10/10	3.6 (9)	109	9/ 9	3.5 (10)	106	10/10	3.4 (10)	103	10/10	3.5 (10)	106	10/10	3.3 (10)	100	10/10
12-7	4.0 (10)	10/10	4.3 (9)	108	9/ 9	4.3 (10)	108	10/10	4.2 (10)	105	10/10	4.2 (10)	105	10/10	3.4 (10)	85	10/10
13-7	3.5 (10)	10/10	3.5 (9)	100	9/ 9	3.9 (10)	111	10/10	4.1 (10)	117	10/10	4.0 (10)	114	10/10	3.4 (10)	97	10/10

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

* One male mouse of the 74.1ppm group accidentally died on 1st-week 6th-day(1-6)

TABLE 34 FOOD CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	74.1 ppm Av.FC.	74.1 ppm % of cont. <10>	74.1 ppm No.of Surviv.	222 ppm Av.FC.	222 ppm % of cont. <10>	222 ppm No.of Surviv.	667 ppm Av.FC.	667 ppm % of cont. <10>	667 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	6000 ppm Av.FC.	6000 ppm % of cont. <10>	6000 ppm No.of Surviv.
1-7	3.4 (10)	10/10	3.5 (10)	103	10/10	3.8 (10)	112	10/10	3.7 (10)	109	10/10	3.2 (10)	94	10/10	3.1 (10)	91	10/10
2-7	3.8 (10)	10/10	3.9 (10)	103	10/10	4.0 (10)	105	10/10	4.0 (10)	105	10/10	3.6 (10)	95	10/10	3.9 (10)	103	10/10
3-7	3.8 (10)	10/10	3.9 (10)	103	10/10	4.1 (10)	108	10/10	3.9 (10)	103	10/10	3.7 (9)	97	10/10	3.1 (10)	82	10/10
4-7	3.6 (10)	10/10	3.7 (10)	103	10/10	3.7 (10)	103	10/10	4.2 (10)	117	10/10	3.6 (10)	100	10/10	2.9 (10)	81	10/10
5-7	3.5 (10)	10/10	3.6 (10)	103	10/10	3.7 (10)	106	10/10	3.7 (10)	106	10/10	3.6 (10)	103	10/10	2.5 (10)	71	10/10
6-7	3.8 (10)	10/10	3.9 (10)	103	10/10	4.2 (10)	111	10/10	4.1 (10)	108	10/10	3.6 (10)	95	10/10	2.9 (10)	76	10/10
7-7	3.8 (10)	10/10	4.0 (10)	105	10/10	4.0 (10)	105	10/10	4.2 (10)	111	10/10	3.9 (10)	103	10/10	3.0 (10)	79	9/10
8-7	3.8 (10)	10/10	4.0 (10)	105	10/10	4.1 (10)	108	10/10	4.1 (10)	108	10/10	3.8 (10)	100	10/10	3.3 (9)	87	9/10
9-7	4.1 (10)	10/10	4.4 (10)	107	10/10	4.2 (10)	102	10/10	4.5 (10)	110	10/10	4.0 (10)	98	10/10	3.9 (9)	95	9/10
10-7	4.3 (10)	10/10	4.4 (10)	102	10/10	4.8 (10)	112	10/10	4.5 (10)	105	10/10	4.0 (10)	93	10/10	3.3 (9)	77	9/10
11-7	3.5 (10)	10/10	3.7 (10)	106	10/10	3.8 (10)	109	10/10	3.9 (10)	111	10/10	3.7 (10)	106	10/10	3.6 (9)	103	9/10
12-7	4.6 (10)	10/10	4.8 (10)	104	10/10	4.8 (10)	104	10/10	5.0 (10)	109	10/10	4.0 (10)	87	10/10	3.9 (9)	85	9/10
13-7	4.0 (10)	10/10	4.2 (10)	105	10/10	4.5 (10)	113	10/10	4.6 (10)	115	10/10	4.1 (10)	103	10/10	3.9 (9)	98	9/10

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

STUDY NO.0065 & 0066

TABLE 35 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	125 ppm Av.Wt.	125 ppm % of cont. <50>	125 ppm No.of Surviv.	500 ppm Av.Wt.	500 ppm % of cont. <50>	500 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <50>	2000 ppm No.of Surviv.
0-0	17.2 (50)	50/50	17.1 (50)	99	50/50	17.1 (50)	99	50/50	17.1 (50)	99	50/50
1-7	22.1 (50)	50/50	22.7 (50)	103	50/50	23.0 (50)	104	50/50	21.6 (50)	98	50/50
2-7	24.7 (50)	50/50	23.7 (50)	96	50/50	24.0 (50)	97	50/50	23.4 (50)	95	50/50
3-7	25.1 (50)	50/50	25.2 (50)	100	50/50	25.4 (50)	101	50/50	24.5 (50)	98	50/50
4-7	26.1 (50)	50/50	26.1 (50)	100	50/50	25.6 (50)	98	50/50	25.2 (50)	97	50/50
5-7	26.3 (50)	50/50	26.1 (50)	99	50/50	26.2 (50)	100	50/50	25.9 (50)	98	50/50
6-7	27.0 (50)	50/50	27.0 (50)	100	50/50	27.1 (50)	100	50/50	26.5 (50)	98	50/50
7-7	27.8 (50)	50/50	28.0 (50)	100	50/50	28.1 (50)	101	50/50	27.3 (50)	98	50/50
8-7	28.3 (50)	50/50	28.6 (50)	101	50/50	28.5 (50)	101	50/50	27.6 (50)	98	50/50
9-7	26.9 (50)	50/50	27.1 (50)	101	50/50	27.3 (50)	101	50/50	26.4 (50)	98	50/50
10-7	29.1 (50)	50/50	28.4 (50)	98	50/50	28.8 (50)	99	50/50	27.1 (50)	93	50/50
11-7	30.0 (50)	50/50	29.7 (50)	99	50/50	30.2 (50)	101	50/50	28.6 (49)	95	49/50
12-7	30.6 (50)	50/50	30.6 (50)	100	50/50	30.7 (50)	100	50/50	29.3 (49)	96	49/50
13-7	29.2 (50)	50/50	29.6 (50)	101	50/50	29.2 (50)	100	50/50	28.4 (49)	97	49/50
14-7	30.2 (50)	50/50	30.3 (50)	100	50/50	30.6 (50)	101	50/50	29.6 (49)	98	49/50
16-7	31.5 (50)	50/50	31.2 (50)	99	50/50	29.3 (50)	93	50/50	30.1 (49)	96	49/50
18-7	33.2 (50)	50/50	32.9 (50)	99	50/50	32.4 (50)	98	50/50	31.1 (49)	94	49/50
20-7	32.7 (50)	50/50	32.8 (50)	100	50/50	32.0 (50)	98	50/50	30.5 (49)	93	49/50
22-7	32.9 (50)	50/50	32.9 (50)	100	50/50	32.0 (50)	97	50/50	30.4 (49)	92	49/50
24-7	33.0 (50)	50/50	33.0 (50)	100	50/50	32.9 (49)	100	49/50	31.5 (49)	95	49/50
26-7	33.8 (50)	50/50	33.6 (50)	99	50/50	33.0 (49)	98	49/50	31.0 (49)	92	49/50
28-7	34.3 (50)	50/50	33.6 (50)	98	50/50	34.3 (49)	100	49/50	32.3 (49)	94	49/50
30-7	34.7 (50)	50/50	34.5 (50)	99	50/50	34.9 (49)	101	49/50	32.9 (49)	95	49/50
32-7	35.9 (50)	50/50	35.5 (50)	99	50/50	35.7 (49)	99	49/50	33.7 (49)	94	49/50
34-7	34.8 (50)	50/50	34.3 (50)	99	50/50	34.6 (49)	99	49/50	32.9 (49)	95	49/50
36-7	34.8 (50)	50/50	33.8 (50)	97	50/50	34.5 (49)	99	49/50	33.1 (49)	95	49/50
38-7	35.1 (50)	50/50	34.5 (50)	98	50/50	35.3 (48)	101	48/50	34.0 (49)	97	49/50
40-7	36.4 (50)	50/50	35.8 (50)	98	50/50	36.8 (48)	101	48/50	35.0 (49)	96	49/50
42-7	35.7 (50)	50/50	34.7 (50)	97	50/50	35.8 (48)	100	48/50	34.2 (48)	96	48/50
44-7	36.5 (50)	50/50	35.3 (50)	97	50/50	36.5 (48)	100	48/50	34.6 (48)	95	48/50
46-7	35.2 (50)	50/50	34.4 (49)	98	50/50	34.0 (48)	97	48/50	32.7 (48)	93	48/50
48-7	35.7 (50)	50/50	34.3 (50)	96	50/50	35.4 (48)	99	48/50	34.5 (48)	97	48/50
50-7	36.5 (50)	50/50	35.9 (50)	98	50/50	36.9 (48)	101	48/50	35.4 (48)	97	48/50
52-7	35.0 (50)	50/50	34.3 (50)	98	50/50	35.1 (48)	100	48/50	34.1 (48)	97	48/50
54-7	34.9 (50)	50/50	34.5 (50)	99	50/50	35.5 (48)	102	48/50	34.5 (48)	99	48/50
56-7	36.2 (50)	50/50	35.8 (50)	99	50/50	36.8 (48)	102	48/50	35.8 (48)	99	48/50
58-7	36.3 (50)	50/50	36.3 (50)	100	50/50	37.7 (48)	104	48/50	36.5 (48)	101	48/50
60-7	36.4 (49)	49/50	36.8 (50)	101	50/50	38.0 (48)	104	48/50	36.2 (48)	99	48/50
62-7	36.8 (49)	49/50	36.6 (50)	99	50/50	37.4 (48)	102	48/50	36.2 (48)	98	48/50
64-7	36.5 (49)	49/50	36.2 (50)	99	50/50	37.4 (48)	102	48/50	36.3 (48)	99	48/50
66-7	34.6 (49)	49/50	34.0 (50)	98	50/50	35.4 (47)	102	47/50	34.3 (48)	99	48/50
68-7	35.3 (49)	49/50	33.5 (50)	95	50/50	34.8 (46)	99	46/50	34.0 (48)	96	48/50
70-7	35.2 (49)	49/50	33.2 (50)	94	50/50	34.9 (46)	99	46/50	34.4 (47)	98	47/50
72-7	34.8 (49)	49/50	32.2 (50)	93	50/50	34.6 (46)	99	46/50	34.0 (47)	98	47/50
74-7	34.7 (49)	49/50	32.7 (50)	94	50/50	35.1 (46)	101	46/50	34.1 (47)	98	47/50
76-7	35.5 (49)	49/50	33.1 (50)	93	50/50	34.3 (46)	97	46/50	33.6 (47)	95	47/50
78-7	34.9 (49)	49/50	32.5 (50)	93	50/50	34.0 (46)	97	46/50	33.4 (47)	96	47/50
80-7	35.6 (49)	48/50	34.2 (50)	96	50/50	35.5 (46)	100	46/50	34.7 (47)	97	47/50
82-7	34.9 (48)	48/50	34.1 (50)	98	50/50	35.5 (46)	102	46/50	34.6 (47)	99	47/50
84-7	35.1 (48)	48/50	34.5 (50)	98	50/50	35.7 (45)	102	45/50	34.9 (46)	99	46/50
86-7	35.3 (48)	48/50	34.4 (50)	97	50/50	35.3 (45)	100	45/50	35.3 (46)	100	46/50
88-7	35.1 (48)	48/50	34.5 (50)	98	50/50	34.7 (45)	99	45/50	34.8 (46)	99	46/50
90-7	35.3 (48)	48/50	34.6 (50)	98	50/50	35.1 (45)	99	45/50	35.5 (45)	101	45/50
92-7	35.1 (48)	48/50	34.5 (49)	98	49/50	35.4 (45)	101	45/50	35.7 (44)	102	44/50
94-7	35.7 (47)	47/50	35.2 (49)	99	49/50	35.7 (44)	100	44/50	35.8 (44)	100	44/50
96-7	35.5 (47)	47/50	34.7 (49)	98	49/50	35.5 (44)	100	44/50	35.3 (43)	99	43/50
98-7	35.8 (47)	47/50	34.8 (49)	97	49/50	35.9 (44)	100	44/50	35.2 (43)	98	43/50
100-7	35.6 (47)	47/50	34.7 (49)	97	49/50	35.6 (44)	100	44/50	35.5 (42)	100	42/50
102-7	36.4 (47)	47/50	35.5 (49)	98	49/50	36.5 (43)	100	43/50	34.7 (42)	95	42/50
104-7	38.5 (47)	47/50	37.1 (49)	96	49/50	37.4 (42)	97	42/50	35.8 (38)	93	38/50

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

TABLE 36 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	125 ppm Av.Wt.	125 ppm % of cont. <50>	125 ppm No.of Surviv.	500 ppm Av.Wt.	500 ppm % of cont. <50>	500 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <50>	2000 ppm No.of Surviv.
0-0	15.1 (50)	50/50	15.1 (50)	100	50/50	15.1 (50)	100	50/50	15.1 (50)	100	50/50
1-7	19.1 (50)	50/50	19.2 (50)	101	50/50	18.5 (50)	97	50/50	17.7 (50)	93	50/50
2-7	20.2 (50)	50/50	20.4 (50)	101	50/50	20.4 (50)	101	50/50	20.1 (50)	100	50/50
3-7	21.1 (50)	50/50	21.4 (50)	101	50/50	21.0 (50)	100	50/50	20.8 (50)	99	50/50
4-7	20.6 (50)	50/50	20.7 (50)	100	50/50	20.7 (50)	100	50/50	21.4 (50)	104	50/50
5-7	21.3 (50)	50/50	21.5 (50)	101	50/50	21.0 (50)	99	50/50	21.8 (50)	102	50/50
6-7	20.8 (50)	50/50	21.3 (50)	102	50/50	21.7 (50)	104	50/50	22.0 (50)	106	50/50
7-7	22.9 (50)	50/50	23.0 (50)	100	50/50	22.8 (50)	100	50/50	22.9 (50)	100	50/50
8-7	22.2 (50)	50/50	22.0 (50)	99	50/50	22.2 (50)	100	50/50	22.3 (50)	100	50/50
9-7	21.1 (50)	50/50	21.6 (50)	102	50/50	21.9 (50)	104	50/50	22.6 (50)	107	50/50
10-7	23.0 (50)	50/50	23.3 (50)	101	50/50	22.9 (50)	100	50/50	23.9 (50)	104	50/50
11-7	23.7 (50)	50/50	23.5 (50)	99	50/50	23.4 (50)	99	50/50	23.9 (50)	101	50/50
12-7	24.1 (50)	50/50	24.3 (50)	101	50/50	24.0 (50)	100	50/50	24.4 (49)	101	49/50
13-7	23.9 (50)	50/50	24.2 (50)	101	50/50	23.6 (50)	99	50/50	24.4 (49)	102	49/50
14-7	24.1 (50)	50/50	25.0 (50)	104	50/50	23.8 (50)	99	50/50	25.0 (49)	104	49/50
16-7	24.1 (50)	50/50	23.5 (50)	98	50/50	24.5 (50)	102	50/50	25.6 (49)	106	48/50
18-7	24.7 (50)	50/50	25.2 (50)	102	50/50	25.0 (50)	101	50/50	25.1 (48)	102	48/50
20-7	25.5 (49)	49/50	26.0 (50)	102	50/50	25.3 (50)	99	50/50	25.9 (48)	102	48/50
22-7	25.0 (49)	49/50	24.9 (50)	100	50/50	25.0 (50)	100	50/50	25.6 (48)	102	48/50
24-7	25.7 (49)	49/50	25.8 (50)	100	50/50	25.2 (50)	98	50/50	26.0 (48)	101	48/50
26-7	26.3 (49)	49/50	25.4 (50)	97	50/50	26.2 (50)	100	50/50	26.4 (48)	100	47/50
28-7	26.5 (49)	49/50	26.1 (50)	98	50/50	25.7 (50)	97	50/50	26.5 (47)	100	47/50
30-7	27.3 (49)	49/50	27.6 (50)	101	50/50	28.0 (50)	103	50/50	28.5 (47)	104	47/50
32-7	27.4 (49)	49/50	27.6 (50)	101	50/50	26.5 (50)	97	50/50	27.3 (47)	100	47/50
34-7	28.3 (49)	49/50	28.5 (50)	101	50/50	28.6 (50)	101	50/50	29.1 (47)	103	47/50
36-7	29.1 (49)	49/50	29.2 (50)	100	50/50	28.7 (50)	99	50/50	29.2 (47)	100	47/50
38-7	27.2 (49)	49/50	27.9 (50)	103	50/50	28.3 (50)	104	50/50	28.4 (47)	104	47/50
40-7	29.6 (49)	49/50	29.8 (50)	101	50/50	29.9 (50)	101	50/50	30.1 (47)	102	47/50
42-7	28.5 (49)	49/50	28.8 (50)	101	50/50	28.5 (50)	100	50/50	29.2 (46)	102	46/50
44-7	28.1 (49)	49/50	28.9 (50)	103	50/50	29.0 (49)	103	49/50	29.1 (46)	104	46/50
46-7	29.5 (49)	49/50	30.3 (50)	103	50/50	30.1 (49)	102	49/50	30.4 (46)	103	46/50
48-7	30.0 (49)	49/50	30.8 (50)	103	50/50	31.2 (49)	104	49/50	30.9 (46)	103	46/50
50-7	29.8 (48)	48/50	30.7 (50)	103	50/50	30.9 (49)	104	49/50	31.1 (46)	104	46/50
52-7	29.1 (48)	48/50	30.1 (50)	103	50/50	30.5 (49)	105	49/50	30.4 (46)	104	46/50
54-7	30.9 (48)	48/50	31.5 (50)	102	50/50	31.8 (49)	103	49/50	30.6 (45)	99	45/50
56-7	29.7 (48)	48/50	30.4 (50)	102	50/50	31.1 (49)	105	49/50	31.0 (45)	104	45/50
58-7	29.6 (48)	48/50	30.8 (50)	104	50/50	31.2 (49)	105	49/50	31.3 (45)	106	45/50
60-7	30.4 (48)	48/50	31.2 (50)	103	50/50	31.3 (49)	103	49/50	31.9 (45)	105	45/50
62-7	29.9 (48)	48/50	30.5 (49)	102	49/50	30.8 (49)	103	49/50	31.0 (45)	104	45/50
64-7	30.5 (48)	48/50	31.9 (49)	105	49/50	32.3 (49)	106	49/50	31.8 (44)	104	44/50
66-7	31.2 (48)	48/50	32.0 (49)	103	49/50	32.6 (49)	104	49/50	32.0 (44)	103	44/50
68-7	30.3 (48)	48/50	30.8 (49)	102	49/50	31.1 (49)	103	49/50	30.7 (44)	101	44/50
70-7	30.3 (48)	48/50	31.1 (49)	103	49/50	30.7 (49)	101	49/50	30.7 (44)	101	44/50
72-7	30.0 (48)	48/50	31.3 (48)	104	48/50	31.0 (49)	103	49/50	30.8 (43)	103	43/50
74-7	29.6 (47)	46/50	30.7 (48)	104	48/50	31.1 (47)	105	47/50	31.2 (42)	105	42/50
76-7	29.8 (45)	45/50	30.9 (48)	104	48/50	30.8 (46)	103	46/50	30.7 (41)	103	41/50
78-7	29.6 (44)	44/50	30.8 (48)	104	48/50	30.6 (45)	103	44/50	30.1 (41)	102	41/50
80-7	30.4 (44)	44/50	31.4 (48)	103	48/50	31.2 (43)	103	43/50	31.1 (41)	102	41/50
82-7	29.5 (42)	42/50	31.4 (47)	106	47/50	31.7 (43)	107	43/50	30.9 (41)	105	40/50
84-7	29.9 (41)	41/50	31.0 (46)	104	46/50	31.4 (43)	105	43/50	31.2 (40)	104	40/50
86-7	29.6 (41)	41/50	31.0 (46)	105	46/50	31.1 (43)	105	43/50	30.7 (40)	104	40/50
88-7	30.3 (41)	41/50	31.8 (45)	105	44/50	31.3 (42)	103	42/50	30.9 (39)	102	39/50
90-7	30.5 (41)	41/50	31.8 (44)	104	44/50	31.6 (42)	104	42/50	30.6 (39)	100	39/50
92-7	30.3 (41)	40/50	31.9 (43)	105	43/50	31.2 (42)	103	42/50	30.5 (39)	101	39/50
94-7	29.9 (39)	39/50	31.1 (43)	104	43/50	31.4 (41)	105	41/50	30.9 (37)	103	36/50
96-7	30.2 (39)	38/50	31.2 (41)	103	41/50	31.3 (41)	104	40/50	31.2 (34)	103	34/50
98-7	31.0 (38)	37/50	31.5 (40)	102	39/50	31.9 (39)	103	39/50	31.3 (33)	101	33/50
100-7	29.8 (37)	37/50	31.5 (38)	106	38/50	30.7 (37)	103	37/50	29.8 (32)	100	32/50
102-7	29.7 (36)	35/50	30.5 (38)	103	37/50	31.0 (36)	104	36/50	30.0 (30)	101	30/50
104-7	29.0 (32)	32/50	30.4 (35)	105	35/50	31.0 (35)	107	35/50	30.6 (29)	106	29/50

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

TABLE 37 FOOD CONSUMPTION IN MALE MOUSE

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	125 ppm Av.FC.	125 ppm % of cont. <50>	125 ppm No.of Surviv.	500 ppm Av.FC.	500 ppm % of cont. <50>	500 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <50>	2000 ppm No.of Surviv.
1-7	4.4 (50)	50/50	4.6 (50)	105	50/50	4.7 (50)	107	50/50	3.8 (50)	86	50/50
2-7	4.0 (50)	50/50	3.6 (50)	90	50/50	3.6 (50)	90	50/50	3.5 (50)	88	50/50
3-7	3.5 (50)	50/50	3.7 (50)	106	50/50	4.4 (50)	126	50/50	3.5 (50)	100	50/50
4-7	3.7 (50)	50/50	3.7 (50)	100	50/50	3.6 (50)	97	50/50	3.5 (50)	95	50/50
5-7	3.6 (50)	50/50	3.7 (50)	103	50/50	3.7 (50)	103	50/50	3.6 (50)	100	50/50
6-7	3.9 (50)	50/50	4.0 (50)	103	50/50	3.9 (50)	100	50/50	3.7 (50)	95	50/50
7-7	4.0 (50)	50/50	4.1 (50)	103	50/50	4.1 (50)	103	50/50	3.7 (50)	93	50/50
8-7	3.8 (50)	50/50	3.8 (50)	100	50/50	3.6 (50)	95	50/50	3.8 (50)	100	50/50
9-7	3.3 (50)	50/50	3.4 (50)	103	50/50	3.4 (50)	103	50/50	3.3 (50)	100	50/50
10-7	4.0 (50)	50/50	3.7 (50)	93	50/50	3.7 (50)	93	50/50	3.3 (50)	83	50/50
11-7	4.0 (50)	50/50	4.1 (50)	103	50/50	4.0 (50)	100	50/50	3.7 (49)	93	49/50
12-7	3.9 (50)	50/50	3.9 (50)	100	50/50	3.8 (50)	97	50/50	3.6 (49)	92	49/50
13-7	3.3 (50)	50/50	3.5 (50)	106	50/50	3.4 (50)	103	50/50	3.3 (49)	100	49/50
14-7	4.0 (50)	50/50	3.9 (50)	98	50/50	3.9 (50)	98	50/50	3.8 (49)	95	49/50
16-7	3.9 (50)	50/50	3.7 (50)	95	50/50	3.1 (50)	79	50/50	3.6 (49)	92	49/50
18-7	4.3 (50)	50/50	4.1 (50)	95	50/50	4.1 (50)	95	50/50	4.0 (49)	93	49/50
20-7	4.3 (50)	50/50	4.4 (50)	102	50/50	4.3 (50)	100	50/50	3.8 (49)	88	49/50
22-7	3.7 (50)	50/50	3.6 (50)	97	50/50	3.2 (50)	86	50/50	3.4 (49)	92	49/50
24-7	4.2 (50)	50/50	4.1 (49)	98	50/50	4.0 (49)	95	49/50	3.8 (49)	90	49/50
26-7	4.0 (49)	50/50	4.0 (50)	100	50/50	3.8 (49)	95	49/50	3.5 (49)	88	49/50
28-7	4.0 (50)	50/50	3.8 (50)	95	50/50	3.9 (49)	98	49/50	3.8 (49)	95	49/50
30-7	4.1 (50)	50/50	4.2 (50)	102	50/50	4.1 (49)	100	49/50	3.9 (49)	95	49/50
32-7	4.4 (50)	50/50	4.5 (50)	102	50/50	4.4 (49)	100	49/50	4.0 (49)	91	49/50
34-7	3.7 (50)	50/50	3.6 (50)	97	50/50	3.6 (49)	97	49/50	3.6 (49)	97	49/50
36-7	3.8 (50)	50/50	3.5 (50)	92	50/50	3.6 (49)	95	49/50	3.6 (49)	95	49/50
38-7	4.2 (50)	50/50	4.1 (50)	98	50/50	4.2 (48)	100	48/50	3.9 (49)	93	49/50
40-7	4.5 (50)	50/50	4.4 (50)	98	50/50	4.4 (48)	98	48/50	4.1 (49)	91	49/50
42-7	4.2 (50)	50/50	4.0 (50)	95	50/50	4.2 (48)	100	48/50	3.9 (48)	93	48/50
44-7	4.2 (50)	50/50	4.1 (50)	98	50/50	4.1 (48)	98	48/50	4.0 (48)	95	48/50
46-7	3.8 (50)	50/50	3.7 (50)	97	50/50	3.4 (48)	89	48/50	3.2 (48)	84	48/50
48-7	4.0 (50)	50/50	3.8 (50)	95	50/50	3.8 (48)	95	48/50	3.8 (48)	95	48/50
50-7	- (-)	50/50	4.1 (25)	103	50/50	4.3 (48)	108	48/50	4.0 (48)	100	48/50
52-7	3.7 (50)	50/50	3.6 (50)	97	50/50	3.5 (48)	95	48/50	3.6 (48)	97	48/50
54-7	4.0 (50)	50/50	4.3 (50)	108	50/50	4.3 (48)	108	48/50	4.1 (48)	103	48/50
56-7	4.5 (50)	50/50	4.7 (50)	104	50/50	4.6 (48)	102	48/50	4.4 (48)	98	48/50
58-7	4.2 (50)	50/50	4.3 (50)	102	50/50	4.6 (48)	110	48/50	4.4 (48)	105	48/50
60-7	4.2 (49)	49/50	4.2 (50)	100	50/50	4.1 (48)	98	48/50	4.0 (48)	95	48/50
62-7	4.5 (49)	49/50	4.5 (50)	100	50/50	4.4 (40)	98	48/50	4.4 (48)	98	48/50
64-7	4.3 (49)	49/50	3.9 (50)	91	50/50	4.0 (48)	93	48/50	4.1 (48)	95	48/50
66-7	3.4 (49)	49/50	3.3 (50)	97	50/50	3.4 (47)	100	47/50	3.5 (48)	103	48/50
68-7	3.8 (49)	49/50	3.4 (50)	89	50/50	3.5 (46)	92	46/50	3.6 (48)	95	48/50
70-7	4.0 (49)	49/50	3.7 (50)	93	50/50	3.9 (46)	98	46/50	3.9 (47)	98	47/50
72-7	4.1 (49)	49/50	3.8 (50)	93	50/50	4.0 (46)	98	46/50	4.0 (47)	98	47/50
74-7	4.2 (49)	49/50	4.2 (50)	100	50/50	4.4 (46)	105	46/50	4.2 (47)	100	47/50
76-7	4.4 (49)	49/50	4.2 (50)	95	50/50	3.9 (46)	89	46/50	3.9 (47)	89	47/50
78-7	4.3 (49)	49/50	3.8 (50)	88	50/50	3.9 (46)	91	46/50	4.0 (47)	93	47/50
80-7	4.3 (49)	48/50	4.3 (50)	100	50/50	4.4 (46)	102	46/50	4.2 (47)	98	47/50
82-7	4.1 (48)	48/50	4.2 (50)	102	50/50	4.2 (46)	102	46/50	4.0 (47)	98	47/50
84-7	3.8 (48)	48/50	4.0 (50)	105	50/50	4.0 (45)	105	45/50	4.0 (46)	105	46/50
86-7	4.0 (48)	48/50	3.9 (50)	98	50/50	3.9 (45)	98	45/50	4.0 (46)	100	46/50
88-7	4.2 (48)	48/50	4.2 (50)	100	50/50	4.0 (45)	95	45/50	4.0 (46)	95	46/50
90-7	4.4 (48)	48/50	4.2 (50)	95	50/50	4.3 (45)	98	45/50	4.2 (45)	95	45/50
92-7	4.3 (48)	48/50	4.3 (49)	100	49/50	4.3 (45)	100	45/50	4.3 (44)	100	44/50
94-7	4.5 (47)	47/50	4.5 (49)	100	49/50	4.3 (43)	96	44/50	4.2 (44)	93	44/50
96-7	4.3 (47)	47/50	4.3 (49)	100	49/50	4.3 (44)	100	44/50	4.2 (43)	98	43/50
98-7	4.6 (47)	47/50	4.4 (49)	96	49/50	4.5 (44)	98	44/50	4.4 (43)	96	43/50
100-7	4.6 (47)	47/50	4.3 (49)	93	49/50	4.3 (44)	93	44/50	4.4 (42)	96	42/50
102-7	4.8 (47)	47/50	4.8 (49)	100	49/50	4.6 (43)	96	43/50	4.1 (42)	85	42/50
104-7	5.0 (47)	47/50	4.7 (49)	94	49/50	4.6 (42)	92	42/50	4.4 (38)	88	38/50

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

TABLE 38 FOOD CONSUMPTION IN FEMALE MOUSE

(TWO-YEAR STUDIES)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	125 ppm Av.FC.	125 ppm % of cont. <50>	125 ppm No.of Surviv.	500 ppm Av.FC.	500 ppm % of cont. <50>	500 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <50>	2000 ppm No.of Surviv.
1-7	4.4 (50)	50/50	4.4 (49)	100	50/50	4.3 (50)	98	50/50	3.2 (50)	73	50/50
2-7	3.3 (50)	50/50	3.4 (50)	103	50/50	3.5 (50)	106	50/50	3.3 (50)	100	50/50
3-7	4.3 (42)	50/50	3.5 (49)	81	50/50	3.4 (50)	79	50/50	3.2 (50)	74	50/50
4-7	3.3 (50)	50/50	3.3 (50)	100	50/50	3.4 (50)	103	50/50	3.3 (50)	100	50/50
5-7	3.5 (50)	50/50	3.6 (50)	103	50/50	3.6 (50)	103	50/50	3.3 (50)	94	50/50
6-7	3.4 (50)	50/50	3.5 (50)	103	50/50	3.8 (50)	112	50/50	3.4 (50)	100	50/50
7-7	4.0 (50)	50/50	3.9 (50)	98	50/50	3.9 (50)	98	50/50	3.7 (50)	93	50/50
8-7	3.6 (50)	50/50	3.4 (50)	94	50/50	3.4 (50)	94	50/50	3.4 (50)	94	50/50
9-7	3.5 (50)	50/50	3.4 (50)	97	50/50	3.6 (50)	103	50/50	3.6 (50)	103	50/50
10-7	4.2 (50)	50/50	4.0 (50)	95	50/50	4.0 (50)	95	50/50	3.7 (50)	88	50/50
11-7	3.9 (50)	50/50	3.7 (50)	95	50/50	3.9 (50)	100	50/50	3.5 (50)	90	50/50
12-7	3.7 (50)	50/50	3.6 (50)	97	50/50	3.7 (50)	100	50/50	3.5 (49)	95	49/50
13-7	3.9 (50)	50/50	3.7 (50)	95	50/50	3.7 (50)	95	50/50	3.5 (49)	90	49/50
14-7	3.9 (50)	50/50	3.8 (50)	97	50/50	3.8 (50)	97	50/50	3.8 (49)	97	49/50
16-7	3.9 (50)	50/50	3.3 (50)	85	50/50	3.8 (50)	97	50/50	3.6 (49)	92	48/50
18-7	4.0 (50)	50/50	3.7 (50)	93	50/50	3.8 (50)	95	50/50	3.7 (48)	93	48/50
20-7	4.2 (49)	49/50	4.2 (50)	100	50/50	4.2 (50)	100	50/50	3.8 (48)	90	48/50
22-7	3.7 (49)	49/50	3.5 (50)	95	50/50	3.6 (50)	97	50/50	3.6 (48)	97	48/50
24-7	4.0 (49)	49/50	3.8 (50)	95	50/50	3.8 (49)	95	50/50	3.7 (48)	93	48/50
26-7	4.2 (49)	49/50	3.6 (50)	86	50/50	4.2 (50)	100	50/50	3.7 (48)	88	47/50
28-7	4.5 (49)	49/50	4.0 (50)	89	50/50	4.0 (50)	89	50/50	3.9 (47)	87	47/50
30-7	4.4 (49)	49/50	4.2 (50)	95	50/50	4.4 (50)	100	50/50	4.1 (47)	93	47/50
32-7	4.3 (49)	49/50	4.3 (50)	100	50/50	4.0 (50)	93	50/50	3.9 (47)	91	47/50
34-7	4.0 (49)	49/50	4.0 (50)	100	50/50	4.2 (50)	105	50/50	4.1 (47)	103	47/50
36-7	4.2 (49)	49/50	4.0 (50)	95	50/50	4.1 (50)	98	50/50	4.0 (47)	95	47/50
38-7	3.6 (49)	49/50	3.8 (50)	106	50/50	3.9 (50)	108	50/50	3.4 (47)	94	47/50
40-7	4.5 (49)	49/50	4.1 (50)	91	50/50	4.2 (50)	93	50/50	4.2 (47)	93	47/50
42-7	3.7 (49)	49/50	3.7 (50)	100	50/50	3.9 (50)	105	50/50	3.8 (46)	103	46/50
44-7	3.6 (49)	49/50	3.7 (50)	103	50/50	3.9 (49)	108	49/50	3.6 (46)	100	46/50
46-7	4.0 (49)	49/50	4.1 (50)	103	50/50	4.1 (49)	103	49/50	4.0 (46)	100	46/50
48-7	4.0 (48)	49/50	3.9 (50)	98	50/50	4.2 (49)	105	49/50	4.0 (46)	100	46/50
50-7	3.9 (48)	48/50	4.0 (50)	103	50/50	4.4 (49)	113	49/50	4.0 (46)	103	46/50
52-7	3.7 (48)	48/50	3.7 (50)	100	50/50	3.9 (49)	105	49/50	3.7 (46)	100	46/50
54-7	4.9 (48)	48/50	4.8 (50)	98	50/50	4.9 (49)	100	49/50	3.9 (45)	80	45/50
56-7	4.2 (48)	48/50	4.1 (50)	98	50/50	4.3 (49)	102	49/50	4.0 (45)	95	45/50
58-7	4.1 (48)	48/50	4.0 (50)	98	50/50	4.1 (49)	100	49/50	3.8 (45)	93	45/50
60-7	4.3 (48)	48/50	4.0 (50)	93	50/50	4.0 (49)	93	49/50	3.9 (45)	91	45/50
62-7	4.1 (48)	48/50	4.1 (49)	100	49/50	3.9 (49)	95	49/50	3.8 (45)	93	45/50
64-7	4.3 (48)	48/50	4.3 (49)	100	49/50	4.4 (49)	102	49/50	4.0 (44)	93	44/50
66-7	4.4 (48)	48/50	4.3 (49)	98	49/50	4.4 (49)	100	49/50	4.2 (44)	95	44/50
68-7	4.0 (48)	48/50	3.8 (49)	95	49/50	3.8 (49)	95	49/50	3.8 (44)	95	44/50
70-7	4.5 (48)	48/50	4.2 (49)	93	49/50	4.2 (49)	93	49/50	4.0 (44)	89	44/50
72-7	4.2 (48)	48/50	4.3 (48)	102	48/50	4.2 (49)	100	49/50	4.0 (43)	95	43/50
74-7	4.2 (47)	46/50	4.0 (48)	95	48/50	4.4 (47)	105	47/50	3.9 (42)	93	42/50
76-7	4.0 (45)	45/50	4.0 (48)	100	48/50	4.1 (46)	103	46/50	3.7 (41)	93	41/50
78-7	3.9 (44)	44/50	3.9 (48)	100	48/50	4.1 (45)	105	44/50	3.7 (41)	95	41/50
80-7	4.2 (44)	44/50	3.9 (48)	93	48/50	4.1 (43)	98	43/50	3.8 (41)	90	41/50
82-7	3.9 (42)	42/50	4.1 (47)	105	47/50	4.3 (43)	110	43/50	3.9 (41)	100	40/50
84-7	4.1 (41)	41/50	4.1 (46)	100	46/50	4.1 (43)	100	43/50	4.0 (40)	98	40/50
86-7	4.2 (41)	41/50	4.1 (46)	98	46/50	4.2 (43)	100	43/50	3.9 (40)	93	40/50
88-7	4.6 (41)	41/50	4.3 (45)	93	44/50	4.3 (42)	93	42/50	4.1 (39)	89	39/50
90-7	4.5 (41)	41/50	4.5 (44)	100	44/50	4.5 (42)	100	42/50	4.2 (39)	93	39/50
92-7	4.2 (41)	40/50	4.2 (43)	100	43/50	4.4 (42)	105	42/50	4.3 (39)	102	39/50
94-7	4.1 (39)	39/50	4.2 (43)	102	43/50	4.2 (41)	102	41/50	4.3 (37)	105	36/50
96-7	4.4 (39)	38/50	4.2 (41)	95	41/50	4.4 (41)	100	40/50	4.2 (34)	95	34/50
98-7	4.4 (38)	37/50	4.2 (40)	95	39/50	4.4 (39)	100	39/50	4.4 (33)	100	33/50
100-7	4.3 (37)	37/50	4.3 (38)	100	38/50	4.2 (37)	98	37/50	4.2 (32)	98	32/50
102-7	3.8 (36)	35/50	3.5 (38)	92	37/50	4.0 (36)	105	36/50	3.7 (30)	97	30/50
104-7	3.8 (32)	32/50	3.8 (35)	100	35/50	4.0 (35)	105	35/50	4.0 (29)	105	29/50

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

Table 39 CLINICAL OBSERVATION (104W-SUMMRY) -MOUSE:TWO-YEAR STUDIES-

Findings	Male				Female			
	2000ppm S(DM)*	500ppm S(DM)	125ppm S(DM)	0ppm S(DM)	2000ppm S(DM)	500ppm S(DM)	125ppm S(DM)	0ppm S(DM)
ANEMIA(貧血)	38(12)	42(8)	1(1)	2(2)	29(21)	20(10)	3(7)	2(5)
INTERNAL MASS(内部腫瘤)	1(2)	1(0)	0(0)	0(1)	1(2)	1(6)	4(2)	2(3)
EXTERNAL MASS(外部腫瘤)								
M.EYE(眼腫瘤)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(1)	0(0)
M.NOSE(鼻腫瘤)	1(1)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(0)
M.PERI MOUTH(口周囲腫瘤)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(0)	0(1)
M.ORAL CAVITY(口腔内部腫瘤)	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)
M.PERI EAR(耳根部腫瘤)	0(0)	1(0)	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)
M.NECK(頸部腫瘤)	0(0)	0(1)	0(0)	0(0)	0(0)	0(2)	1(1)	0(0)
M.FORLIMB(前肢腫瘤)	0(0)	0(0)	0(0)	1(0)	0(0)	1(0)	1(0)	0(0)
M.BREAST(胸部腫瘤)	0(0)	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)
M.ABDOMEN(腹部腫瘤)	1(0)	0(0)	0(0)	0(0)	0(0)	0(2)	0(1)	0(1)
M.ANTERIOR.DORSUM(背側前部腫瘤)	0(1)	0(0)	0(0)	0(0)	1(0)	0(0)	0(0)	0(0)
M.ANUS(肛門腫瘤)	0(0)	0(0)	0(1)	0(0)	0(0)	0(1)	0(0)	0(0)
No.of Animals with EXTERNAL MASS	2(2)	1(1)	1(1)	2(0)	1(1)	1(6)	3(4)	0(2)
No.of Survival Amimals (Dead & Moribund Animals)	38(12)	42(8)	49(1)	47(3)	29(21)	35(15)	35(15)	32(18)
No.of Observed Animals	50	50	50	50	50	50	50	50

* : S=Survival Amimals (DM=Dead & Moribund Animals)

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TABLE 40 NUMBER OF MOUSE WITH SELECTED SPLEEN LESION (MALE)

	Control	125ppm	500ppm	2000ppm
Number examined	50	50	50	50
Non-neoplastic lesions				
Congestion	0	0	0	29
Extramedullary hematopoiesis	1	2	6	9
Leukemic cell infiltration	1	0	0	3
Deposit of melanin	2	4	4	2
Follicular hyperplasia	4	5	4	2
Atrophy	0	1	0	0
Deposit of hemosiderin	0	0	1	0
Neoplastic lesions				
Hemangioma/hemangiosarcoma	5	0	2	4

TABLE 41 NUMBER OF MOUSE WITH SELECTED SPLEEN LESION (FEMALE)

	Control	125ppm	500ppm	2000ppm
Number examined	50	50	50	50
Non-neoplastic lesions				
Congestion	0	1	0	26
Deposit of hemosiderin	0	0	3	9
Ossification	0	0	0	6
Extramedullary hematopoiesis	3	7	8	6
Leukemic cell infiltration	5	8	1	3
Follicular hyperplasia	3	4	0	3
Metastasis:uterus tumor	1	0	1	2
Deposit of melanin	5	6	6	1
Atrophy	5	2	0	0
Neoplastic lesions				
Hemangiosarcoma	0	1	5	2
Hemangioma/hemangiosarcoma	0	1	5	3

TABLE 42 CAUSE OF DEATH(SUMMARY) :MOUSE

Sex	Male				Female			
Group Name	Control	125ppm	500ppm	2000ppm	Control	125ppm	500ppm	2000ppm
Number of Dead/Moribund Animal	3	1	8	12	18	15	15	21
no microscopical confirmation	0	0	0	2	3	1	0	6
trauma	0	0	1	0	0	0	0	0
respiratory system lesion	0	1	0	1	0	0	0	2
hepatic lesion	0	0	1	0	0	2	0	0
urinary system lesion	1	0	0	0	0	0	0	0
renal lesion	0	0	0	0	0	1	0	0
CNS disorders	0	0	1	0	1	0	0	0
pneumonia	0	0	0	0	0	0	0	1
arteritis	0	0	1	0	1	0	0	1
Tumor death : leukemia	1	0	1	5	7	5	7	5
: lung	0	0	0	0	1	1	0	0
: bone marrow	0	0	0	1	0	0	0	0
: spleen	1	0	0	1	0	0	1	0
: tooth	0	0	0	0	1	0	0	0
: liver	0	0	2	2	1	0	0	2
: parathyroid	0	0	1	0	0	0	0	0
: uterus	-	-	-	-	3	4	7	3
: Harder gland	0	0	0	0	0	1	0	0
: peritoneum	0	0	0	0	0	0	0	1

P - クロロニトロベンゼンのラット及びマウスを用いた
経口（混餌）によるがん原性試験結果報告書

FIGURES

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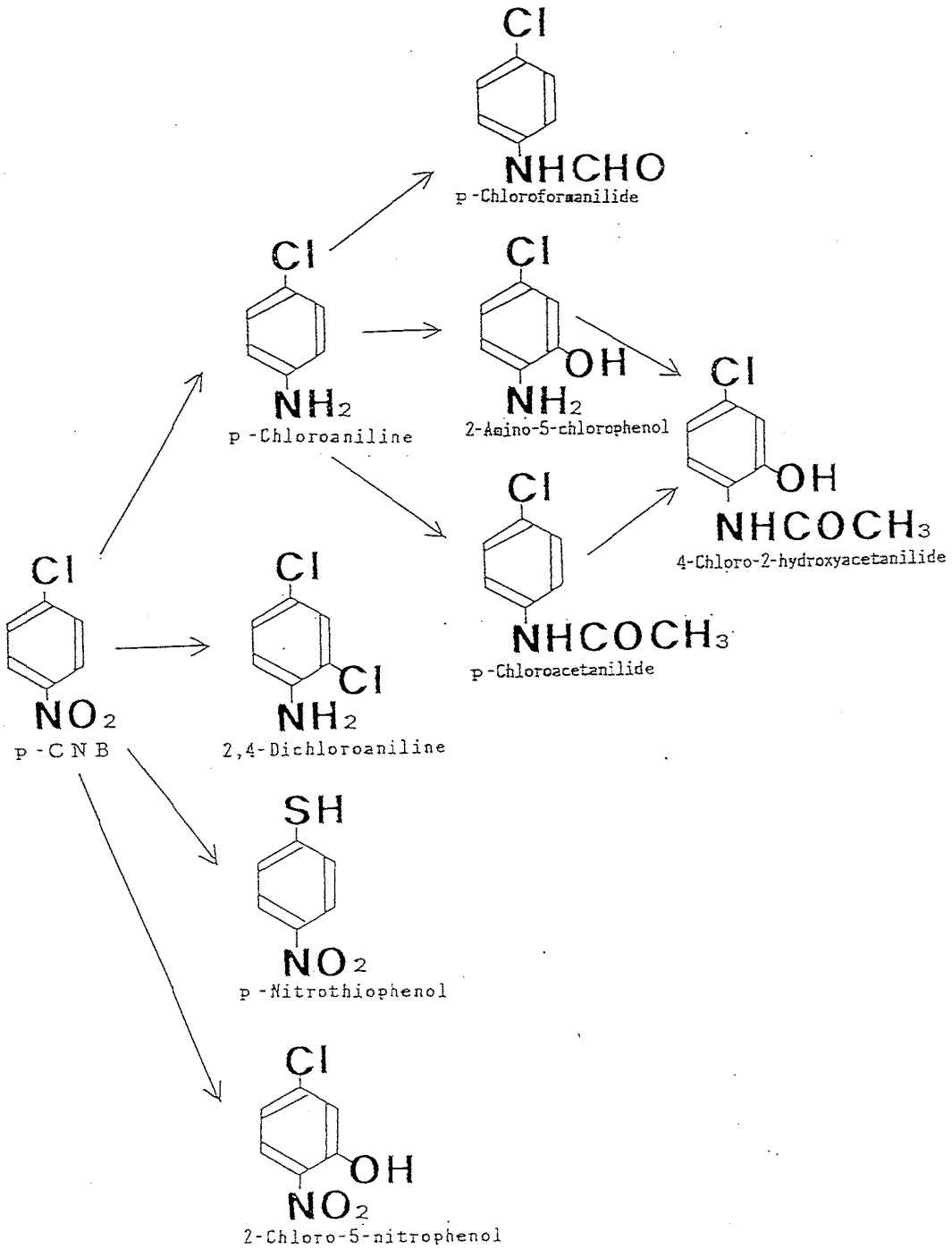
日本バイオアッセイ研究センター

FIGURE 1. METABOLIC PATHWAY OF P-CHLORONITROBENZENE



(Reference NO.12)

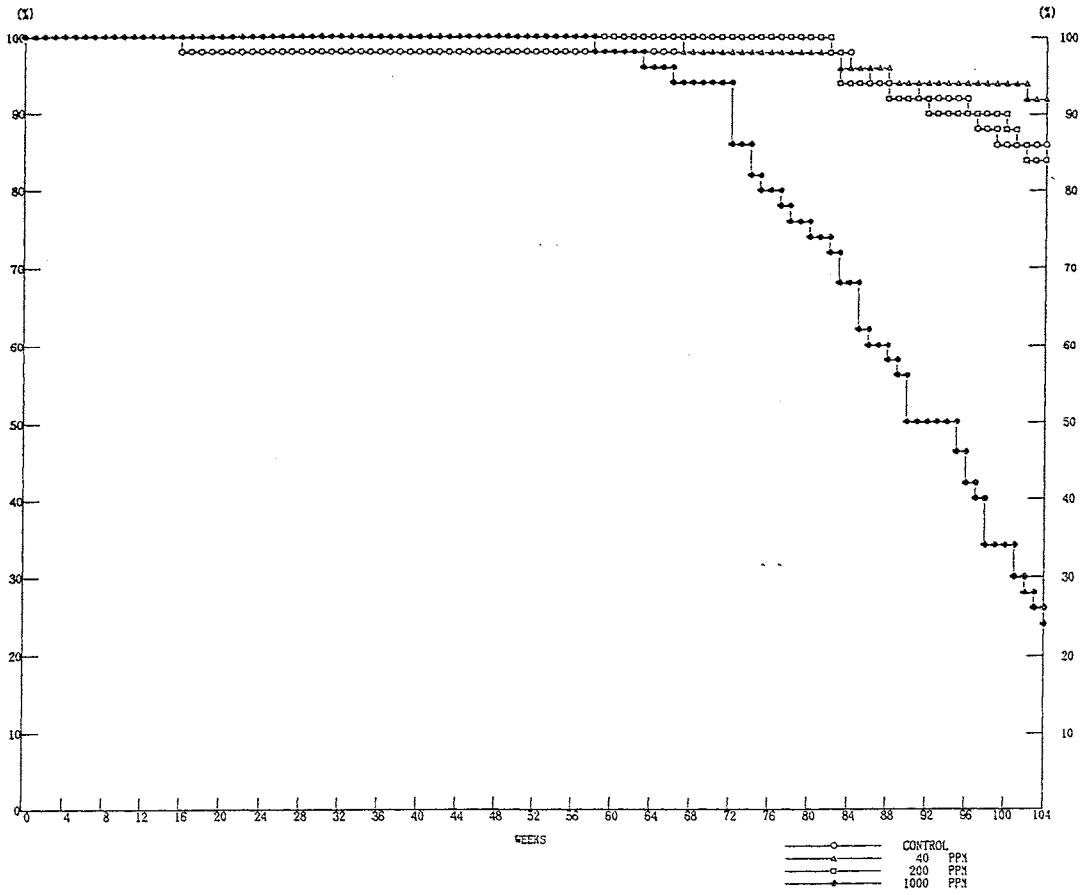


FIGURE 2 SURVIVAL ANIMAL RATE : RAT:MALE(TWO-YEAR STUDIES)

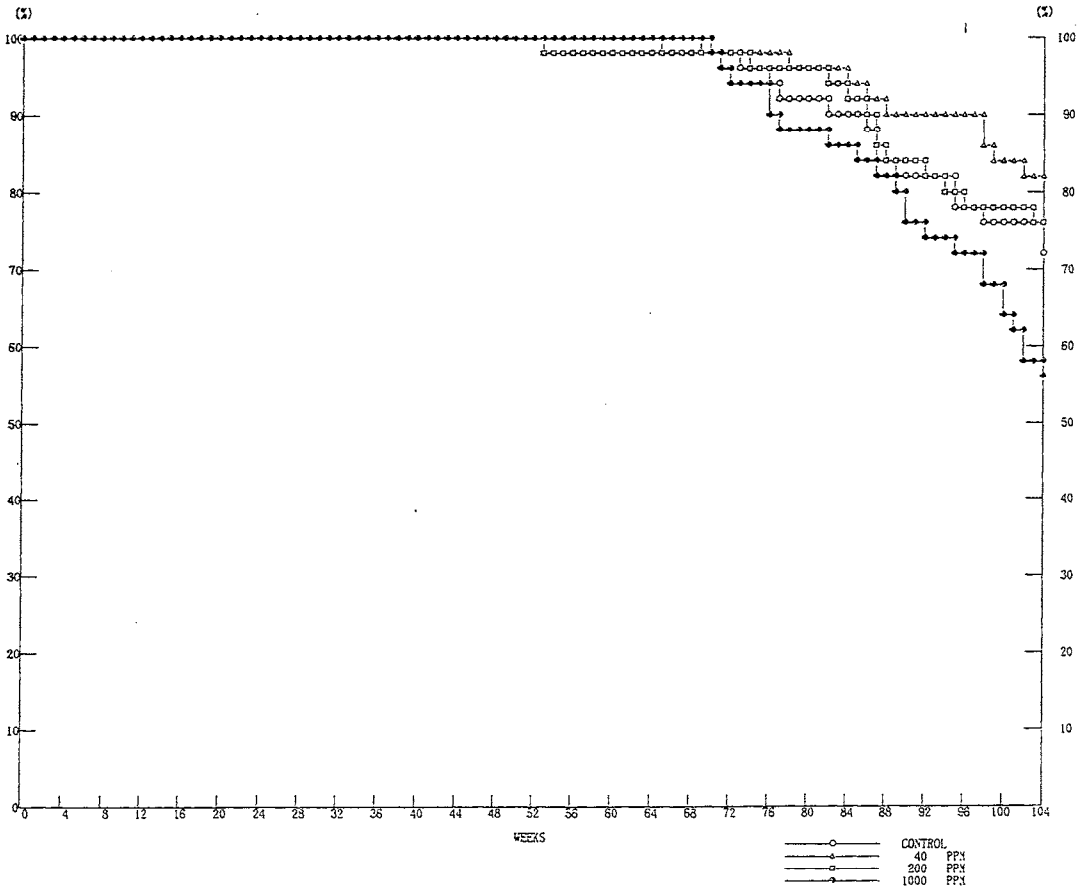


FIGURE 3 SURVIVAL ANIMAL RATE : RAT:FEMALE(TWO-YEAR STUDIES)

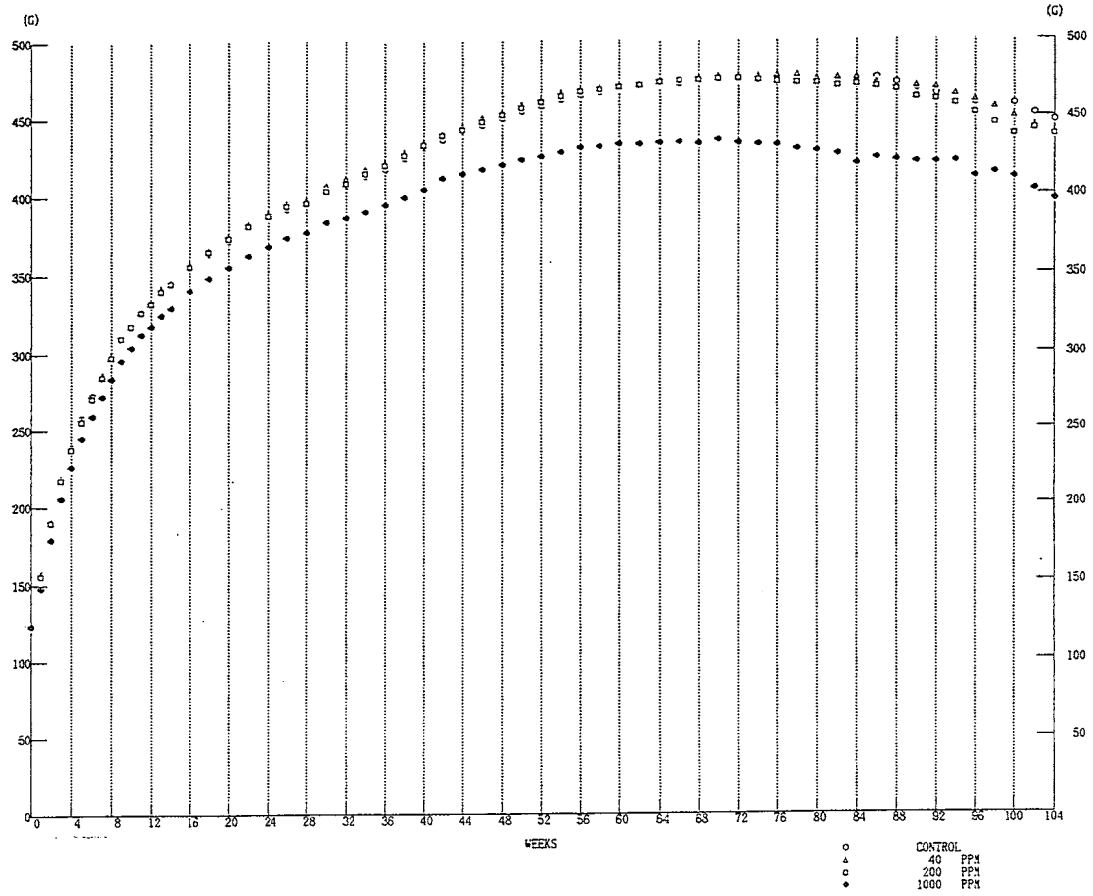


FIGURE 4 BODY WEIGHT CHANGES : RAT:MALE(TWO-YEAR STUDIES)

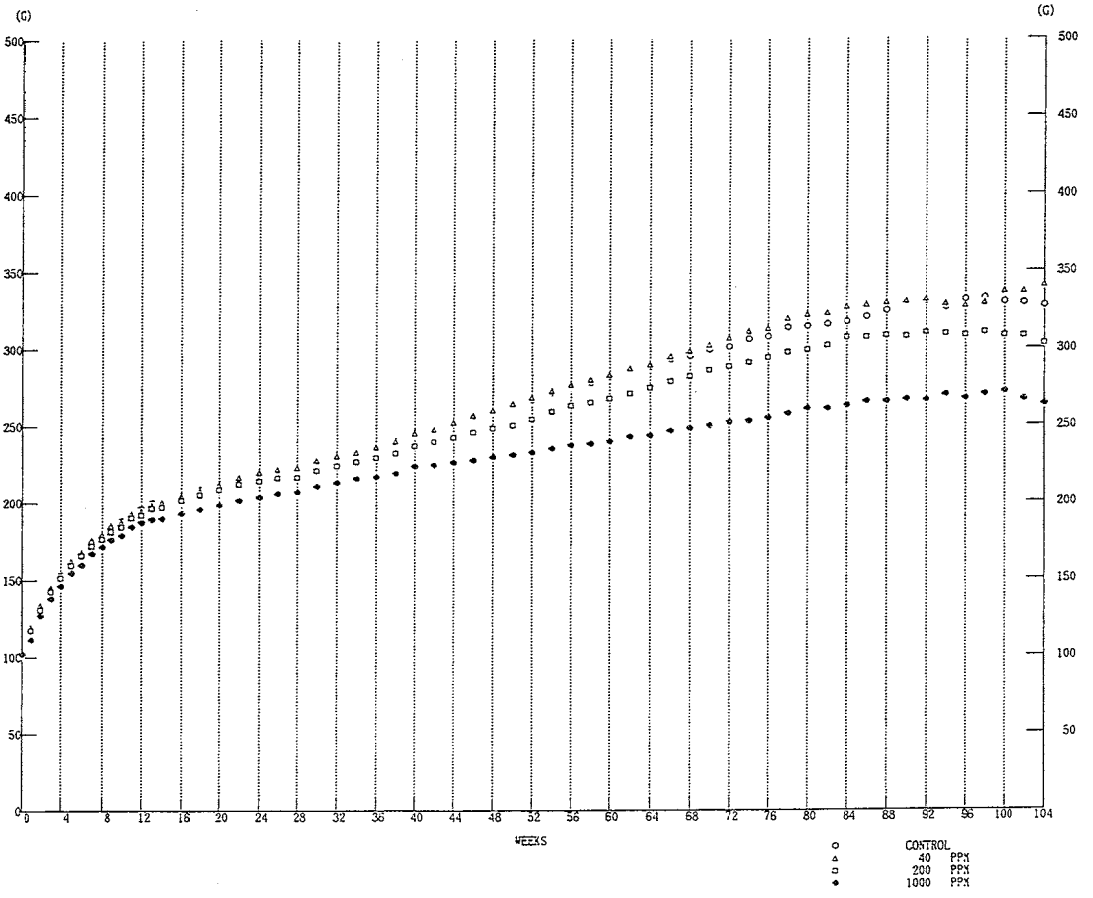


FIGURE 5 BODY WEIGHT CHANGES : RAT:FEMALE(TWO-YEAR STUDIES)

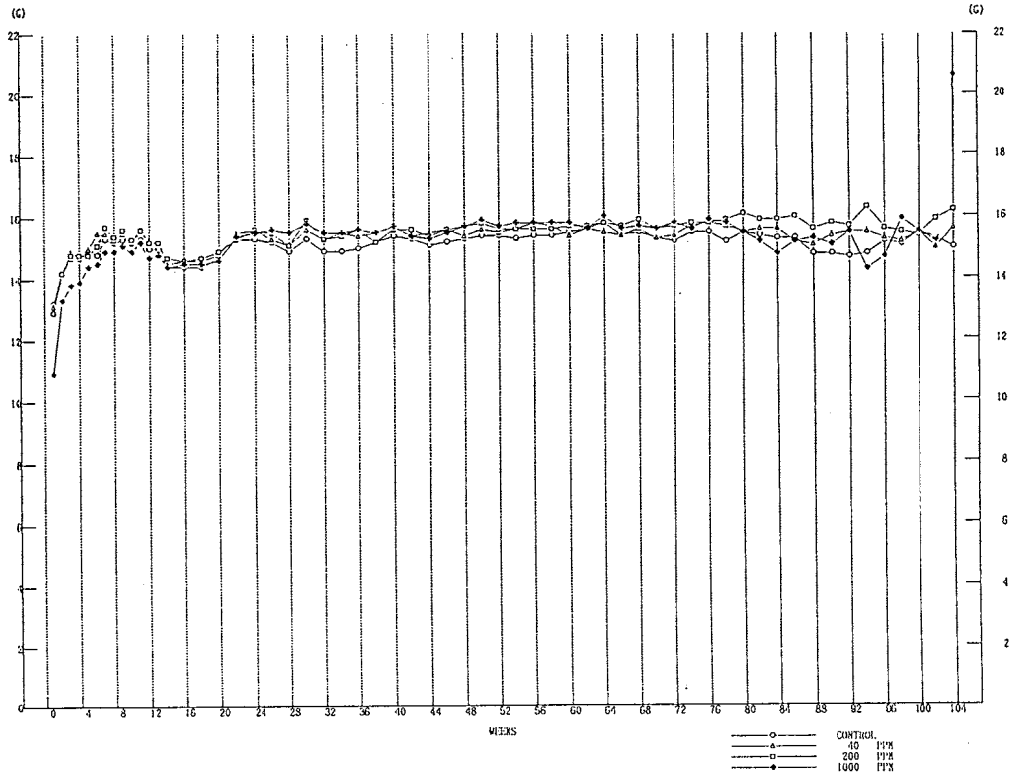


FIGURE 6 FOOD CONSUMPTION : RAT:MALE(TWO-YEAR STUDIES)

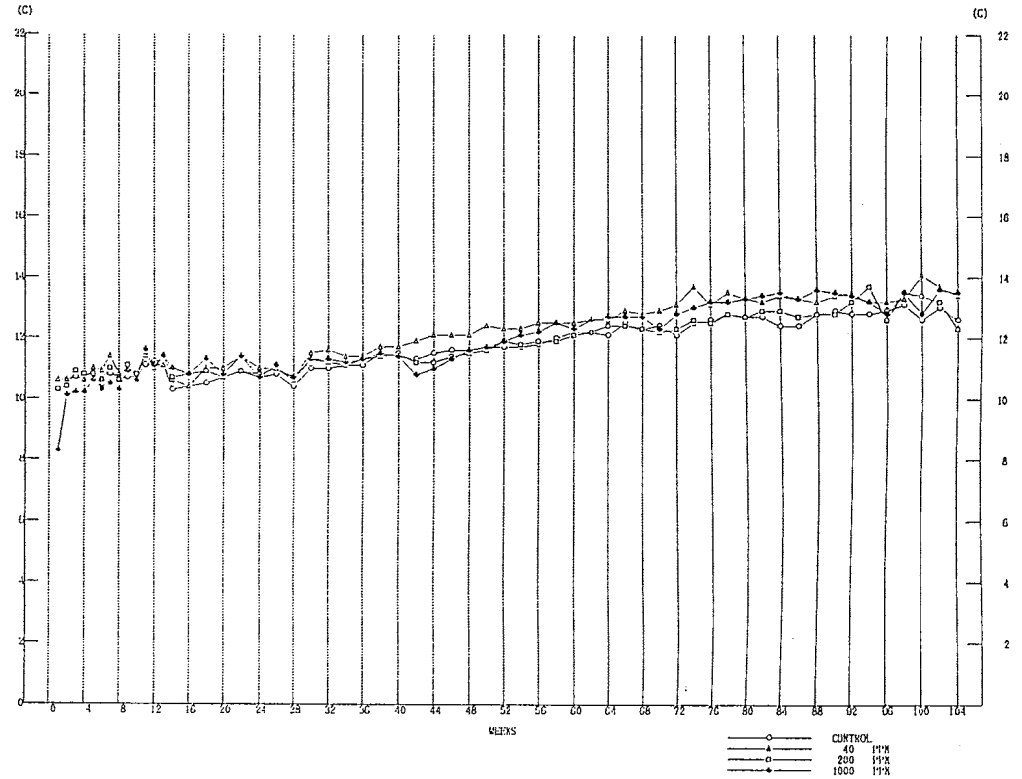


FIGURE 7 FOOD CONSUMPTION : RAT:FEMALE(TWO-YEAR STUDIES)

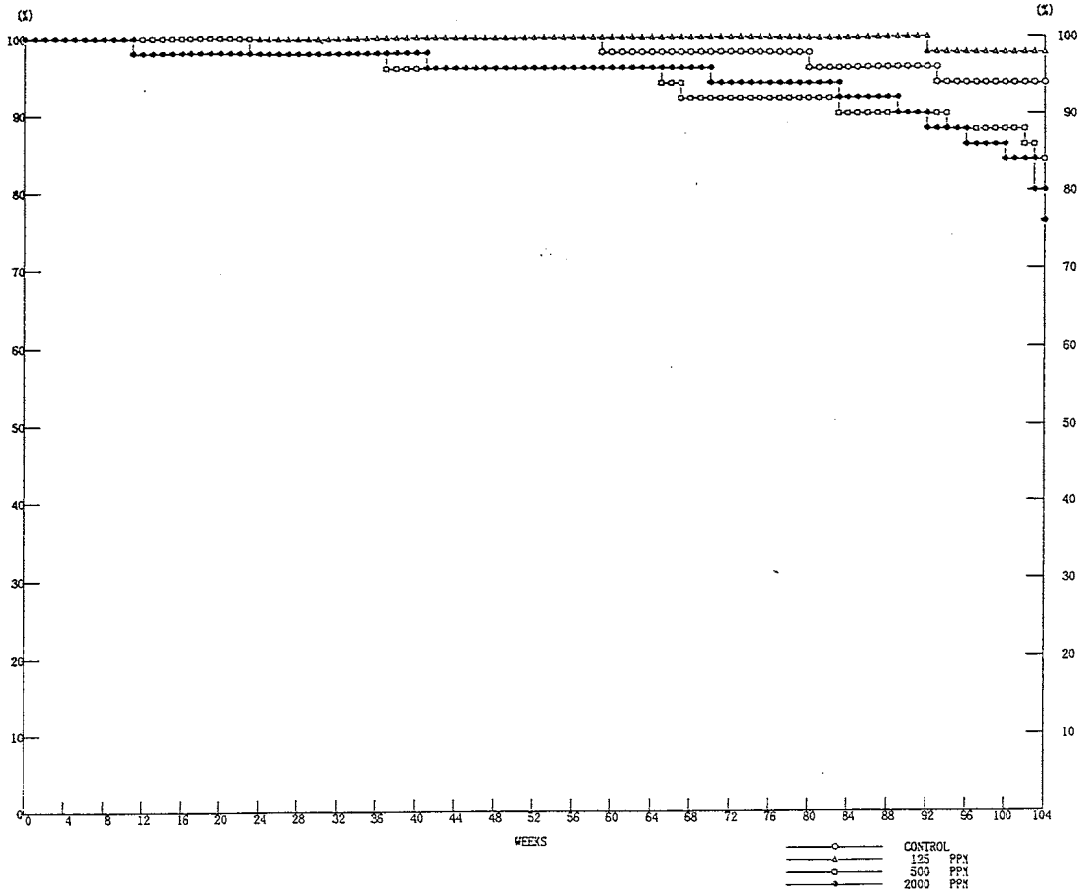


FIGURE 8 SURVIVAL ANIMAL RATE : MOUSE:MALE(TWO-YEAR STUDIES)

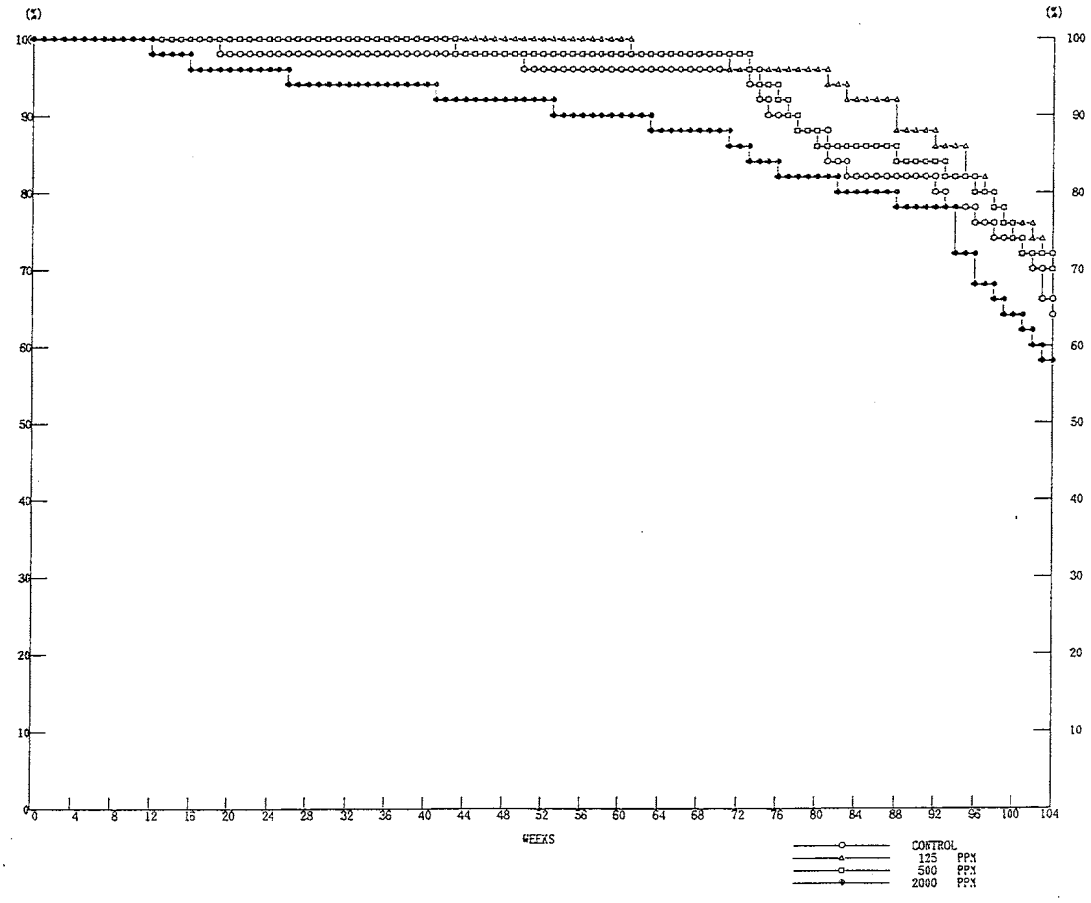


FIGURE 9 SURVIVAL ANIMAL RATE : MOUSE:FEMALE(TWO-YEAR STUDIES)

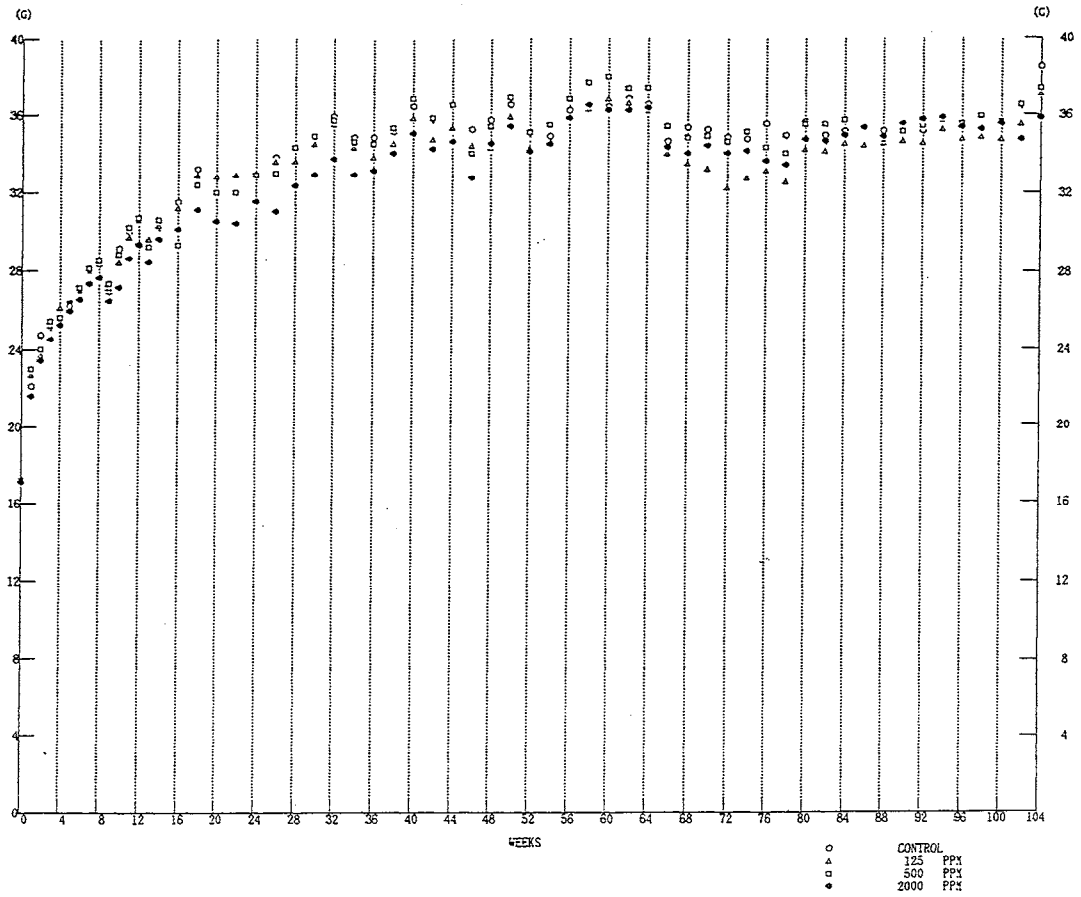


FIGURE 10 BODY WEIGHT CHANGES : MOUSE:MALE(TWO-YEAR STUDIES)

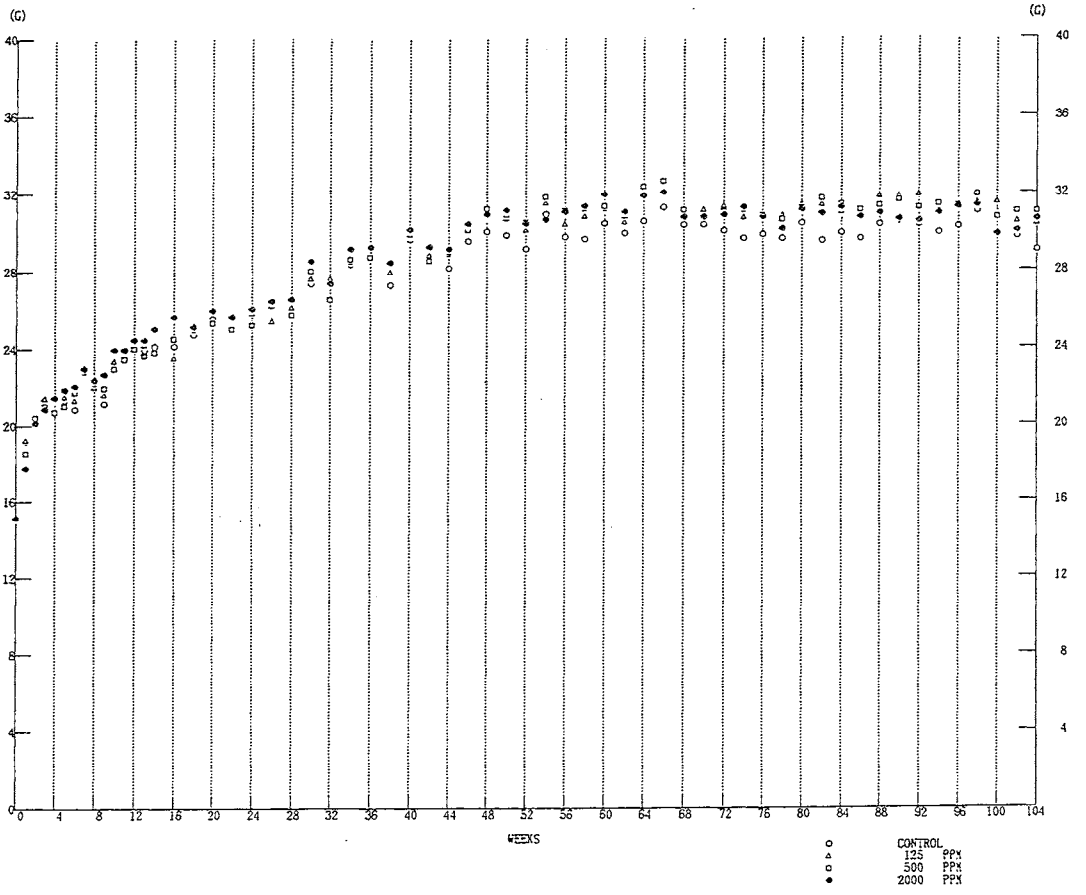


FIGURE 11 BODY WEIGHT CHANGES : MOUSE:FEMALE(TWO-YEAR STUDIES)

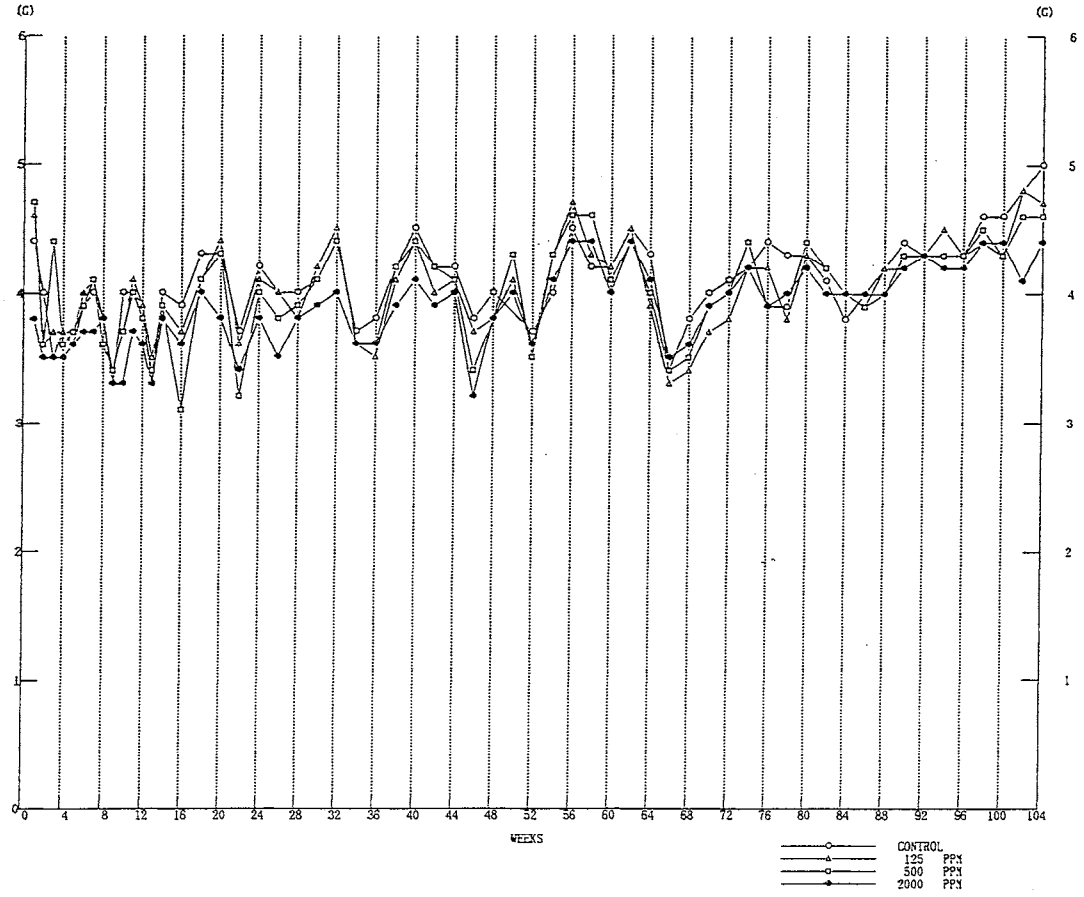


FIGURE 12 FOOD CONSUMPTION : MOUSE:MALE(TWO-YEAR STUDIES)

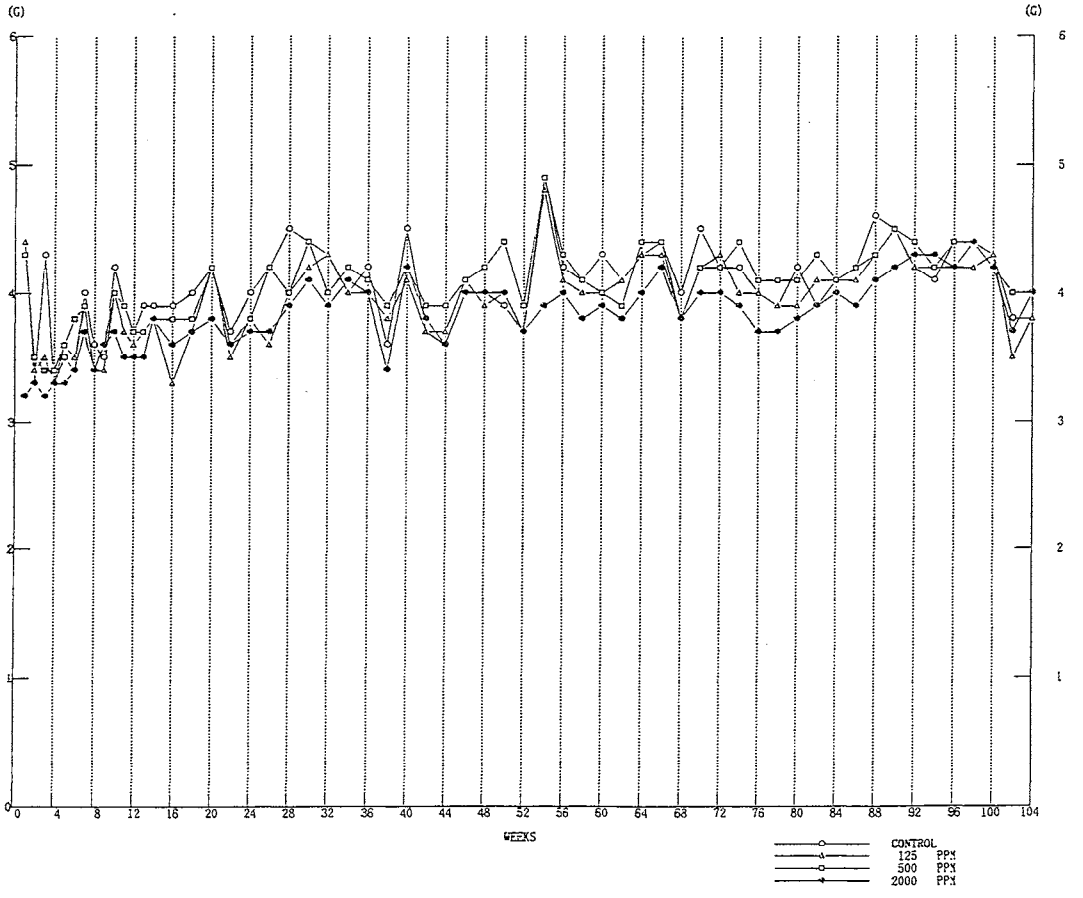


FIGURE 13 FOOD CONSUMPTION : MOUSE:FEMALE(TWO-YEAR STUDIES)