塩化メチルのラット及びマウスを用いた
吸入によるがん原性試験報告書

試験番号：ラット/0210；マウス/0211

TABLES

TABLES

TABLE1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF METHYL CHLORIDE

Two-Year Studies

<Method of Administration>
Inhalation

<Number of Group>
Male 4,Female 4

<Size of Groups>
50 males and 50 females of each group

<Animals>
Strain and Species
F344/DuCrj(Fischer)rat
Crj:BDF1mouse
Animal Source
Charles River Japan,Inc.
Duration Held Before Study
2 wk
Age When Placed on Study
6 wk
Age When Killed
Rat; 110 ～ 111 wk
Mouse; 0,50,200ppm Group: 110 ～ 111 wk
800ppm Group : 101wk

<Exposure Concentration>
Rat------0,50,224 or 1000ppm
Mouse--0,50,200 or 800ppm

<Duration of Exposure>
Rat; 6 h/d,5 d/wk,for 104 wk
Mouse; 0,50,200ppm Group: 6 h/d,5 d/wk,for 104 wk
800ppm Group : 6 h/d,5 d/wk,for 95 wk

<Animal Maintenance>
Feed
CRF-1(Oriental Yeast Co.,Ltd.)
Sterilized by γ-ray
Available *ad libitum*
Water
Sterilized by ultraviolet rays
Automatic Watering system.
Available *ad libitum*
Animal per Cage
Single(stainless steel wire)
Animal Chambers Room Environment
Barrier system
Temperature : 23 ± 2℃
Humidity : 55 ± 10%
Fluorescent light 12 h/d
15-17 room air changes/h
Inhalation Chamber Environment
Temperature : 23 ± 2℃
Humidity : 55 ± 10%
Fluorescent light 12 h/d
12 room air changes/h
(6 room air changes/h during exposure)

<Type and Frequency of Observation>
Clinical Sign
Observed 1 per d

TABLE1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF METHYL CHLORIDE (Continued)

Two-Year Studies
Body Weight Weighed 1 per wk for 14 wk Weighed 1 per 4 wks thereafter Food Consumption Weighed 1 per wk for 14 wk Weighed 1 per 4 wks thereafter
<Hematology> Red blood cell(RBC), Hemoglobin,Hematocrit, Mean corpuscular volume(MCV), Mean corpuscular Hemoglobin(MCH), Mean corpuscular Hemoglobin concentration(MCHC), Platelet,White blood cell(WBC), Differential WBC
<Blood Biochemistry> Total protein,Albumin, A/G ratio,T-bilirubin,Glucose, T-cholesterol,Triglyceride, Phospholipid<rat only>, Glutamic oxaloacetic transaminase(GOT), Glutamic pyruvic transaminase(GPT), Lactate dehydrogenase(LDH), Alkaline phosphatase(ALP), γ-Glutamil transpeptidase(γ-GTP)<rat only>, Creatine phosphokinase(CPK),Urea nitrogen, Creatinine<rat only>, Sodium,Potassium,Chloride, Calcium,Inorganic phosphorus.
<Urinalysis> pH,Protein,Glucose,Ketone body, Bilirubin<rat only>,Occult blood, Urobilinogen.
<Necropsy> Necropsy performed on all animals.
<Organ weight> Organ weight measurement performed on scheduled sacrificed animals. The following organs were weighed: brain,lung,liver,spleen,heart,kidney, adrenal,testis,ovary.
<Histopathologic Examination> Histopathologic examination performed on all animals. The following organs were examined: skin,nasal cavity,trachea, lung,bone marrow,lymph node, thymus,spleen,heart,tongue, salivary gland,esophagus,stomach, small intestine,large intestine,liver, pancreas,kidney,urinary bladder, pituitary,thyroid,adrenal,testis, epididymis,seminal vesicle,prostate, ovary,uterus,vagina,mammary gland, brain,spinal cord,peripheral nerve, eye,harderian gland,muscle,bone.

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (TWO-YEAR STUDY)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	50 ppm Av.Wt.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	224 ppm Av.Wt.	224 ppm % of cont. <50>	224 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
0-0	120 (50)	50/50	120 (50)	100	50/50	120 (50)	100	50/50	120 (50)	100	50/50
1-7	145 (50)	50/50	145 (50)	100	50/50	145 (50)	100	50/50	142 (50)	98	50/50
2-7	174 (50)	50/50	175 (50)	101	50/50	173 (50)	99	50/50	165 (50)	95	50/50
3-7	199 (50)	50/50	201 (50)	101	50/50	201 (49)	101	49/50	180 (50)	90	50/50
4-7	223 (50)	50/50	226 (50)	101	50/50	225 (49)	101	49/50	193 (50)	87	50/50
5-7	243 (50)	50/50	246 (50)	101	50/50	244 (49)	100	49/50	207 (50)	85	50/50
6-7	257 (50)	50/50	260 (50)	101	50/50	259 (49)	101	49/50	216 (50)	84	50/50
7-7	271 (50)	50/50	276 (50)	102	50/50	273 (49)	101	49/50	227 (50)	84	50/50
8-7	285 (50)	50/50	289 (50)	101	50/50	286 (49)	100	49/50	235 (50)	82	50/50
9-7	298 (50)	50/50	306 (50)	103	50/50	299 (49)	100	49/50	246 (50)	83	50/50
10-7	308 (50)	50/50	318 (50)	103	50/50	310 (49)	101	49/50	256 (50)	83	50/50
11-7	315 (50)	50/50	322 (50)	102	50/50	318 (49)	101	49/50	261 (50)	83	50/50
12-7	323 (50)	50/50	329 (50)	102	50/50	325 (49)	101	49/50	267 (50)	83	50/50
13-7	330 (50)	50/50	338 (50)	102	50/50	334 (49)	101	49/50	274 (50)	83	50/50
14-7	337 (50)	50/50	345 (50)	102	50/50	340 (49)	101	49/50	280 (50)	83	50/50
18-7	359 (50)	50/50	367 (50)	102	50/50	364 (49)	101	49/50	299 (50)	83	50/50
22-7	381 (50)	50/50	387 (50)	102	50/50	378 (49)	99	49/50	314 (50)	82	50/50
26-7	398 (50)	50/50	404 (50)	102	50/50	396 (49)	99	49/50	323 (50)	81	50/50
30-7	413 (50)	50/50	419 (50)	101	50/50	411 (49)	100	49/50	339 (50)	82	50/50
34-7	427 (50)	50/50	433 (50)	101	50/50	425 (49)	100	49/50	349 (50)	82	50/50
38-7	437 (50)	50/50	445 (50)	102	50/50	435 (49)	100	49/50	355 (50)	81	50/50
42-7	445 (50)	50/50	452 (50)	102	50/50	444 (49)	100	49/50	363 (50)	82	50/50
46-7	453 (50)	50/50	461 (50)	102	50/50	450 (49)	99	49/50	368 (50)	81	50/50
50-7	458 (50)	50/50	466 (50)	102	50/50	456 (49)	100	49/50	372 (50)	81	50/50
54-7	464 (50)	50/50	472 (50)	102	50/50	464 (49)	100	49/50	378 (50)	81	50/50
58-7	470 (50)	50/50	476 (50)	101	50/50	467 (48)	99	48/50	382 (50)	81	50/50
62-7	474 (50)	50/50	480 (50)	101	50/50	471 (48)	99	48/50	384 (50)	81	50/50
66-7	481 (50)	50/50	483 (50)	100	50/50	477 (48)	99	48/50	389 (50)	81	49/50
70-7	483 (50)	50/50	486 (49)	101	49/50	481 (48)	100	48/50	394 (49)	82	49/50
74-7	480 (50)	50/50	483 (49)	101	49/50	479 (48)	100	48/50	393 (49)	82	49/50
78-7	481 (50)	50/50	485 (48)	101	48/50	479 (48)	100	48/50	392 (49)	81	49/50
82-7	483 (48)	48/50	487 (47)	101	47/50	481 (48)	100	48/50	399 (49)	83	49/50
86-7	481 (48)	48/50	483 (46)	100	46/50	478 (46)	99	46/50	397 (48)	83	48/50
90-7	476 (48)	48/50	480 (46)	101	46/50	471 (46)	99	46/50	391 (48)	82	48/50
94-7	472 (47)	47/50	473 (46)	100	46/50	466 (45)	99	45/50	386 (46)	82	46/50
98-7	462 (46)	46/50	455 (45)	98	45/50	456 (42)	99	42/50	379 (44)	82	44/50
102-7	451 (44)	44/50	445 (41)	99	41/50	452 (38)	100	38/50	376 (42)	83	42/50
104-7	441 (42)	42/50	433 (41)	98	41/50	446 (36)	101	36/50	372 (41)	84	41/50

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (TWO-YEAR STUDY)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <49>	50 ppm Av.Wt.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	224 ppm Av.Wt.	224 ppm % of cont. <50>	224 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
0-0	97 (49)	50/50	97 (50)	100	50/50	97 (50)	100	50/50	97 (50)	100	50/50
1-7	112 (49)	49/49	112 (50)	100	50/50	113 (50)	101	50/50	109 (50)	97	50/50
2-7	126 (49)	49/49	126 (50)	100	50/50	126 (50)	100	50/50	120 (50)	95	50/50
3-7	136 (49)	49/49	135 (50)	99	50/50	136 (50)	100	50/50	126 (50)	93	50/50
4-7	145 (49)	49/49	144 (50)	99	50/50	145 (50)	100	50/50	132 (50)	91	50/50
5-7	154 (49)	49/49	154 (50)	100	50/50	152 (50)	99	50/50	138 (50)	90	50/50
6-7	160 (49)	49/49	160 (50)	100	50/50	158 (50)	99	50/50	143 (50)	89	50/50
7-7	167 (49)	49/49	166 (50)	99	50/50	163 (50)	98	50/50	149 (50)	89	50/50
8-7	172 (49)	49/49	172 (50)	100	50/50	168 (50)	98	50/50	153 (50)	89	50/50
9-7	177 (49)	49/49	179 (50)	101	50/50	174 (50)	98	50/50	159 (50)	90	50/50
10-7	182 (49)	49/49	185 (50)	102	50/50	179 (50)	98	50/50	163 (50)	90	50/50
11-7	185 (49)	49/49	185 (50)	100	50/50	182 (50)	98	50/50	163 (50)	88	50/50
12-7	188 (49)	49/49	188 (50)	100	50/50	185 (50)	98	50/50	167 (50)	89	50/50
13-7	192 (49)	49/49	192 (50)	100	50/50	188 (50)	98	50/50	171 (50)	89	50/50
14-7	196 (49)	49/49	194 (50)	99	50/50	192 (50)	98	50/50	174 (50)	89	50/50
18-7	206 (49)	49/49	207 (50)	100	50/50	203 (50)	99	50/50	182 (50)	88	50/50
22-7	216 (49)	49/49	216 (50)	100	50/50	211 (50)	98	50/50	187 (50)	87	50/50
26-7	220 (49)	49/49	219 (50)	100	50/50	215 (50)	98	50/50	187 (50)	85	50/50
30-7	229 (49)	49/49	229 (50)	100	50/50	224 (50)	98	50/50	194 (50)	85	50/50
34-7	235 (49)	49/49	236 (50)	100	50/50	231 (50)	98	50/50	201 (50)	86	50/50
38-7	242 (49)	49/49	244 (50)	101	50/50	239 (50)	99	50/50	206 (49)	85	49/50
42-7	248 (49)	49/49	248 (50)	100	50/50	243 (50)	98	50/50	210 (49)	85	49/50
46-7	254 (49)	49/49	253 (50)	100	50/50	249 (50)	98	50/50	214 (49)	84	49/50
50-7	256 (49)	49/49	256 (50)	100	50/50	248 (50)	97	50/50	215 (49)	84	49/50
54-7	263 (49)	49/49	263 (50)	100	50/50	256 (50)	97	50/50	221 (49)	84	49/50
58-7	271 (49)	49/49	270 (50)	100	50/50	261 (50)	96	50/50	226 (49)	83	49/50
62-7	279 (48)	48/49	278 (49)	100	49/50	272 (50)	97	50/50	232 (49)	83	49/50
66-7	287 (47)	47/49	289 (49)	101	49/50	281 (50)	98	50/50	238 (49)	83	49/50
70-7	294 (47)	47/49	296 (49)	101	49/50	288 (49)	98	49/50	241 (49)	82	49/50
74-7	294 (46)	46/49	299 (48)	102	48/50	291 (49)	99	49/50	243 (48)	83	48/50
78-7	295 (45)	44/49	303 (48)	103	48/50	296 (49)	100	49/50	247 (47)	84	47/50
82-7	300 (44)	43/49	308 (47)	103	47/50	305 (49)	102	49/50	255 (47)	85	47/50
86-7	310 (42)	42/49	315 (44)	102	44/50	309 (48)	100	48/50	257 (46)	83	46/50
90-7	308 (42)	42/49	314 (43)	102	43/50	311 (48)	101	48/50	257 (44)	83	44/50
94-7	312 (41)	41/49	315 (42)	101	42/50	313 (48)	100	48/50	262 (43)	84	43/50
98-7	309 (40)	40/49	310 (42)	100	42/50	310 (48)	100	47/50	259 (43)	84	43/50
102-7	310 (37)	37/49	316 (38)	102	38/50	310 (46)	100	46/50	268 (41)	86	41/50
104-7	305 (37)	37/49	312 (37)	102	37/50	301 (45)	99	45/50	268 (41)	88	41/50

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

TABLE 4 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION :RAT :MALE

	week	0～13	14～26	27～39	40～52	53～65	66～78	79～91	92～104	0～104
External mass	Control	0/50	0/50	0/50	1/50	2/50	4/50	7/48	14/47	14/50 (3/8)
	50 ppm	0/50	0/50	0/50	0/50	2/50	3/50	8/48	9/46	9/50 (2/9)
	224 ppm	0/50	0/49	0/49	1/49	2/49	3/48	5/48	13/45	14/50 (4/14)
	1000 ppm	0/50	0/50	0/50	0/50	0/50	1/49	2/49	6/47	6/50 (1/9)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	0/50	1/48	0/47	1/50 (1/8)
	50 ppm	0/50	0/50	0/50	0/50	0/50	1/50	0/48	1/46	2/50 (1/9)
	224 ppm	0/50	0/49	0/49	0/49	0/49	0/48	2/48	6/45	7/50 (7/14)
	1000 ppm	0/50	0/50	0/50	0/50	0/50	0/49	3/49	6/47	7/50 (5/9)

No. of animals with mass/No. of survival animals at first week on each period.
(No. of dead and moribund animals with mass/No. of dead and moribund animals.)

TABLE 5 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION :RAT :FEMALE

	week	0～13	14～26	27～39	40～52	53～65	66～78	79～91	92～104	0～104
External mass	Control a)	0/49	0/49	0/49	0/49	0/49	2/47	5/44	7/41	8/49 (2/12)
	50 ppm	0/50	0/50	0/50	0/50	0/50	1/49	7/47	11/42	12/50 (2/13)
	224 ppm	0/50	0/50	0/50	0/50	0/50	1/50	5/49	15/48	15/50 (3/5)
	1000 ppm	0/50	0/50	1/50	0/49	1/49	5/49	4/47	6/43	11/50 (1/9)
Internal mass	Control a)	0/49	0/49	0/49	0/49	0/49	2/47	1/44	1/41	4/49 (4/12)
	50 ppm	0/50	0/50	0/50	0/50	1/50	0/49	2/47	1/42	4/50 (4/13)
	224 ppm	0/50	0/50	0/50	0/50	0/50	1/50	1/49	5/48	6/50 (2/5)
	1000 ppm	0/50	0/50	0/50	0/49	0/49	1/49	2/47	2/43	5/50 (4/9)

No. of animals with mass/No. of survival animals at first week on each period.
(No. of dead and moribund animals with mass/No. of dead and moribund animals.)
a):Accidental death animal excluded.

TABLE 6 FOOD CONSUMPTION IN MALE RAT (TWO-YEAR STUDY)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	50 ppm Av.FC.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	224 ppm Av.FC.	224 ppm % of cont. <50>	224 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
1-7	15.2 (50)	50/50	15.1 (50)	99	50/50	14.6 (50)	96	50/50	14.5 (50)	95	50/50
2-7	16.2 (50)	50/50	15.8 (50)	98	50/50	15.4 (50)	95	50/50	15.2 (50)	94	50/50
3-7	17.4 (50)	50/50	17.0 (50)	98	50/50	16.8 (50)	97	49/50	15.7 (50)	90	50/50
4-7	18.3 (50)	50/50	18.1 (50)	99	50/50	18.0 (49)	98	49/50	16.0 (50)	87	50/50
5-7	18.3 (50)	50/50	17.8 (50)	97	50/50	17.9 (49)	98	49/50	15.9 (50)	87	50/50
6-7	17.4 (50)	50/50	17.5 (50)	101	50/50	17.6 (49)	101	49/50	16.2 (50)	93	50/50
7-7	17.5 (50)	50/50	18.0 (50)	103	50/50	17.6 (49)	101	49/50	15.9 (50)	91	50/50
8-7	17.4 (50)	50/50	17.9 (50)	103	50/50	17.4 (49)	100	49/50	15.9 (50)	91	50/50
9-7	18.0 (50)	50/50	17.9 (50)	99	50/50	17.8 (49)	99	49/50	15.9 (50)	88	50/50
10-7	17.8 (50)	50/50	18.4 (50)	103	50/50	17.9 (49)	101	49/50	16.2 (50)	91	50/50
11-7	17.4 (50)	50/50	18.1 (50)	104	50/50	17.7 (49)	102	49/50	15.9 (50)	91	50/50
12-7	17.2 (50)	50/50	17.7 (50)	103	50/50	17.3 (49)	101	49/50	15.7 (50)	91	50/50
13-7	17.3 (50)	50/50	17.8 (50)	103	50/50	17.5 (49)	101	49/50	16.2 (50)	94	50/50
14-7	17.0 (50)	50/50	17.6 (50)	104	50/50	17.6 (49)	104	49/50	16.4 (50)	96	50/50
18-7	17.0 (50)	50/50	17.5 (50)	103	50/50	17.7 (49)	104	49/50	16.8 (50)	99	50/50
22-7	17.8 (50)	50/50	18.0 (50)	101	50/50	17.5 (49)	98	49/50	17.0 (50)	96	50/50
26-7	17.7 (50)	50/50	17.8 (50)	101	50/50	17.9 (49)	101	49/50	16.3 (50)	92	50/50
30-7	17.3 (50)	50/50	17.5 (50)	101	50/50	17.1 (49)	99	49/50	17.2 (50)	99	50/50
34-7	17.7 (50)	50/50	17.8 (50)	101	50/50	17.9 (49)	101	49/50	17.3 (50)	98	50/50
38-7	17.4 (50)	50/50	17.6 (50)	101	50/50	17.4 (49)	100	49/50	17.3 (50)	99	50/50
42-7	17.4 (50)	50/50	17.6 (50)	101	50/50	17.5 (49)	101	49/50	17.3 (50)	99	50/50
46-7	17.9 (50)	50/50	18.2 (50)	102	50/50	17.7 (49)	99	49/50	17.5 (50)	98	50/50
50-7	18.3 (50)	50/50	18.3 (50)	100	50/50	17.9 (49)	98	49/50	17.2 (50)	94	50/50
54-7	18.0 (50)	50/50	18.5 (50)	103	50/50	18.3 (49)	102	49/50	17.5 (50)	97	50/50
58-7	18.4 (50)	50/50	18.7 (50)	102	50/50	18.3 (48)	99	48/50	18.0 (50)	98	50/50
62-7	18.6 (50)	50/50	18.6 (50)	100	50/50	18.5 (48)	99	48/50	17.8 (50)	96	50/50
66-7	18.8 (50)	50/50	18.5 (50)	98	50/50	18.9 (48)	101	48/50	18.5 (50)	98	49/50
70-7	18.8 (50)	50/50	18.8 (49)	100	49/50	19.1 (48)	102	48/50	18.7 (49)	99	49/50
74-7	18.2 (50)	50/50	18.2 (49)	100	49/50	18.3 (48)	101	48/50	17.7 (49)	97	49/50
78-7	18.7 (50)	50/50	18.7 (48)	100	48/50	18.6 (48)	99	48/50	18.3 (49)	98	49/50
82-7	18.6 (48)	48/50	18.3 (47)	98	47/50	18.1 (48)	97	48/50	18.0 (49)	97	49/50
86-7	18.3 (48)	48/50	17.9 (47)	98	46/50	17.9 (46)	98	46/50	18.1 (48)	99	48/50
90-7	18.4 (48)	48/50	18.8 (46)	102	46/50	17.8 (46)	97	46/50	17.6 (48)	96	48/50
94-7	18.5 (47)	47/50	18.3 (46)	99	46/50	18.2 (45)	98	45/50	17.6 (46)	95	46/50
98-7	18.4 (46)	46/50	17.5 (44)	95	45/50	17.2 (43)	93	42/50	16.9 (44)	92	44/50
102-7	18.1 (45)	44/50	17.8 (41)	98	41/50	17.9 (39)	99	38/50	17.4 (42)	96	42/50
104-7	17.5 (42)	42/50	17.4 (41)	99	41/50	17.7 (38)	101	36/50	16.8 (42)	96	41/50

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

TABLE 7 FOOD CONSUMPTION IN FEMALE RAT (TWO-YEAR STUDY)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <49>	50 ppm Av.FC.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	224 ppm Av.FC.	224 ppm % of cont. <50>	224 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <50>	1000 ppm No.of Surviv.
1-7	12.1 (49)	49/49	11.8 (50)	98	50/50	11.6 (50)	96	50/50	11.4 (50)	94	50/50
2-7	12.4 (49)	49/49	12.0 (50)	97	50/50	12.0 (50)	97	50/50	11.4 (50)	92	50/50
3-7	12.3 (49)	49/49	11.6 (50)	94	50/50	11.9 (50)	97	50/50	11.2 (50)	91	50/50
4-7	13.0 (49)	49/49	12.3 (50)	95	50/50	12.4 (50)	95	50/50	11.5 (50)	88	50/50
5-7	13.1 (49)	49/49	12.4 (50)	95	50/50	12.0 (50)	92	50/50	11.5 (50)	88	50/50
6-7	12.4 (48)	49/49	12.0 (50)	97	50/50	12.0 (50)	97	50/50	11.5 (50)	93	50/50
7-7	12.3 (48)	49/49	12.2 (50)	99	50/50	11.6 (50)	94	50/50	11.7 (50)	95	50/50
8-7	12.1 (48)	49/49	11.9 (50)	98	50/50	11.6 (50)	96	50/50	11.9 (50)	98	50/50
9-7	12.2 (48)	49/49	12.5 (50)	102	50/50	11.8 (50)	97	50/50	12.0 (50)	98	50/50
10-7	12.4 (48)	49/49	12.9 (50)	104	50/50	12.1 (50)	98	50/50	12.3 (50)	99	50/50
11-7	12.1 (48)	49/49	11.9 (50)	98	50/50	12.0 (50)	99	50/50	11.4 (50)	94	50/50
12-7	11.6 (47)	49/49	11.8 (50)	102	50/50	11.2 (50)	97	50/50	11.4 (50)	98	50/50
13-7	12.4 (48)	49/49	12.1 (50)	98	50/50	11.8 (49)	95	50/50	12.3 (50)	99	50/50
14-7	12.4 (48)	49/49	12.4 (50)	100	50/50	12.1 (50)	98	50/50	12.5 (50)	101	50/50
18-7	12.2 (48)	49/49	12.3 (50)	101	50/50	11.9 (50)	98	50/50	12.4 (50)	102	50/50
22-7	12.4 (48)	49/49	12.3 (50)	99	50/50	11.5 (50)	93	50/50	11.9 (50)	96	50/50
26-7	11.5 (49)	49/49	11.4 (50)	99	50/50	10.9 (50)	95	50/50	10.7 (50)	93	50/50
30-7	12.5 (48)	49/49	12.4 (50)	99	50/50	11.8 (50)	94	50/50	12.0 (50)	96	50/50
34-7	12.3 (49)	49/49	12.0 (50)	98	50/50	11.8 (50)	96	50/50	11.8 (50)	96	50/50
38-7	12.3 (49)	49/49	12.5 (50)	102	50/50	12.2 (50)	99	50/50	12.3 (49)	100	49/50
42-7	12.6 (49)	49/49	12.4 (50)	98	50/50	12.0 (50)	95	50/50	11.8 (49)	94	49/50
46-7	12.9 (48)	49/49	12.8 (50)	99	50/50	12.3 (50)	95	50/50	12.5 (49)	97	49/50
50-7	12.4 (49)	49/49	12.1 (50)	98	50/50	11.7 (50)	94	50/50	11.7 (49)	94	49/50
54-7	13.0 (49)	49/49	13.0 (50)	100	50/50	12.4 (50)	95	50/50	12.3 (49)	95	49/50
58-7	13.7 (49)	49/49	13.4 (50)	98	50/50	12.6 (50)	92	50/50	12.9 (49)	94	49/50
62-7	14.0 (48)	48/49	13.7 (49)	98	49/50	13.3 (50)	95	50/50	13.0 (49)	93	49/50
66-7	13.8 (47)	47/49	14.1 (49)	102	49/50	13.2 (50)	96	50/50	12.9 (49)	93	49/50
70-7	13.7 (47)	47/49	14.0 (49)	102	49/50	13.1 (50)	96	49/50	12.9 (49)	94	49/50
74-7	13.5 (46)	46/49	13.5 (48)	100	48/50	13.1 (49)	97	49/50	12.4 (48)	92	48/50
78-7	14.2 (45)	44/49	14.0 (48)	99	48/50	13.8 (49)	97	49/50	13.3 (47)	94	47/50
82-7	14.1 (44)	43/49	13.7 (47)	97	47/50	13.7 (49)	97	49/50	12.8 (47)	91	47/50
86-7	14.1 (42)	42/49	13.8 (45)	98	44/50	13.4 (49)	95	48/50	13.0 (46)	92	46/50
90-7	14.3 (42)	42/49	14.0 (43)	98	43/50	14.1 (48)	99	48/50	12.9 (44)	90	44/50
94-7	14.2 (41)	41/49	14.0 (42)	99	42/50	13.6 (48)	96	48/50	13.1 (43)	92	43/50
98-7	14.5 (40)	40/49	13.8 (42)	95	42/50	13.4 (48)	92	47/50	12.5 (43)	86	43/50
102-7	14.7 (37)	37/49	14.0 (39)	95	38/50	13.5 (46)	92	46/50	13.4 (41)	91	41/50
104-7	14.3 (37)	37/49	14.3 (36)	100	37/50	12.7 (46)	89	45/50	13.2 (41)	92	41/50

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

TABLE 8 CAUSE OF DEATH:RAT

Group Name	Male				Female			
	Control	50ppm	224ppm	1000ppm	Control	50ppm	224ppm	1000ppm
Number of Dead/Moribund Animal	8	9	14	9	12	13	5	9
No microscopical confirmation	0	0	1	0	0	0	1	0
Chronic nephropathy	1	0	2	1	0	0	0	0
Tumor death : leukemia	2	3	5	1	5	4	0	3
: subcutis	1	1	2	0	1	0	1	0
: spleen	0	0	1	1	0	0	0	0
: urinary bladder	0	0	0	0	0	0	1	0
: pituitary gland	0	2	1	1	3	5	1	3
: adrenal gland	1	0	0	0	0	1	0	0
: ovary	0	0	0	0	1	0	0	0
: uterus	0	0	0	0	0	1	1	1
: mammary gland	0	0	0	0	0	1	0	0
: preputial/clitoral gland	1	0	0	0	0	0	0	1
: brain	0	0	0	1	2	0	0	1
: bone	1	0	0	0	0	0	0	0
: vertebra	0	0	0	1	0	0	0	0
: pleura	0	1	0	0	0	0	0	0
: mediastinum	0	0	0	0	0	1	0	0
: peritoneum	1	2	2	2	0	0	0	0
: retroperitoneum	0	0	0	1	0	0	0	0

TABLE 9 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (TWO-YEAR STUDY)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	50 ppm Av.Wt.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <48>	800 ppm No.of Surviv.
0-0	22.8 (50)	50/50	22.6 (50)	99	50/50	22.9 (50)	100	50/50	22.6 (48)	99	50/50
1-7	24.5 (50)	50/50	24.0 (50)	98	50/50	24.7 (50)	101	50/50	23.4 (48)	96	50/50
2-7	24.9 (50)	50/50	24.5 (50)	98	50/50	25.0 (50)	100	50/50	23.5 (48)	94	50/50
3-7	25.6 (50)	50/50	25.1 (50)	98	50/50	25.6 (50)	100	50/50	23.8 (48)	93	50/50
4-7	26.4 (50)	50/50	25.9 (50)	98	50/50	26.3 (50)	100	50/50	24.0 (48)	91	50/50
5-7	26.9 (50)	50/50	26.2 (50)	97	50/50	26.7 (50)	99	50/50	24.2 (48)	90	50/50
6-7	27.4 (50)	50/50	26.9 (50)	98	50/50	27.2 (50)	99	50/50	25.1 (48)	92	50/50
7-7	28.3 (50)	50/50	27.5 (50)	97	50/50	27.9 (50)	99	50/50	26.0 (48)	92	50/50
8-7	28.8 (50)	50/50	28.0 (50)	97	50/50	28.5 (50)	99	50/50	25.6 (48)	89	50/50
9-7	29.5 (50)	50/50	28.6 (50)	97	50/50	28.9 (50)	98	50/50	25.9 (48)	88	50/50
10-7	30.2 (50)	50/50	29.4 (50)	97	50/50	29.7 (50)	98	50/50	26.2 (48)	87	50/50
11-7	30.9 (50)	50/50	30.0 (50)	97	50/50	30.1 (50)	97	50/50	26.1 (48)	84	50/50
12-7	31.6 (50)	50/50	30.6 (50)	97	50/50	30.7 (50)	97	50/50	26.2 (48)	83	50/50
13-7	32.4 (50)	50/50	31.4 (50)	97	50/50	31.5 (50)	97	50/50	27.3 (47)	84	49/50
14-7	32.8 (50)	50/50	31.9 (50)	97	50/50	32.1 (50)	98	50/50	27.3 (47)	83	49/50
18-7	35.5 (50)	50/50	34.4 (50)	97	50/50	34.2 (50)	96	50/50	27.4 (47)	77	49/50
22-7	37.8 (50)	50/50	36.6 (50)	97	50/50	35.6 (50)	94	50/50	27.8 (46)	74	48/50
26-7	40.3 (50)	50/50	39.5 (50)	98	50/50	38.3 (50)	95	50/50	29.9 (46)	74	48/50
30-7	42.8 (50)	50/50	41.7 (50)	97	50/50	40.5 (49)	95	49/50	29.9 (46)	70	48/50
34-7	44.5 (50)	50/50	43.7 (50)	98	50/50	42.0 (49)	94	49/50	29.3 (45)	66	46/49
38-7	45.1 (50)	50/50	44.3 (50)	98	50/50	42.7 (49)	95	49/50	29.5 (44)	65	45/49
42-7	46.3 (50)	50/50	45.6 (50)	98	50/50	43.3 (49)	94	49/50	29.2 (44)	63	45/49
46-7	47.2 (48)	48/50	46.3 (50)	98	50/50	44.6 (49)	94	49/50	30.4 (43)	64	44/49
50-7	48.5 (48)	48/50	47.5 (50)	98	50/50	45.3 (49)	93	49/50	29.6 (43)	61	44/49
54-7	48.0 (48)	48/50	47.5 (50)	99	50/50	45.1 (49)	94	49/50	29.5 (42)	61	43/49
58-7	47.1 (48)	48/50	46.5 (50)	99	50/50	44.1 (49)	94	49/50	28.3 (41)	60	42/49
62-7	49.5 (48)	48/50	48.9 (50)	99	50/50	46.6 (49)	94	49/50	29.2 (41)	59	42/49
66-7	50.2 (47)	47/50	49.6 (50)	99	50/50	47.3 (49)	94	49/50	28.6 (40)	57	41/49
70-7	50.2 (45)	45/50	49.9 (50)	99	50/50	47.4 (49)	94	49/50	27.8 (39)	55	39/49
74-7	52.0 (43)	43/50	51.2 (50)	98	50/50	48.0 (48)	92	48/50	27.8 (36)	53	37/49
78-7	52.5 (42)	42/50	52.0 (50)	99	50/50	49.2 (48)	94	48/50	28.3 (35)	54	35/49
82-7	52.4 (42)	42/50	52.2 (50)	100	50/50	49.1 (48)	94	48/50	26.9 (33)	51	33/48
86-7	52.6 (41)	41/50	52.3 (49)	99	49/50	49.4 (46)	94	46/50	26.0 (26)	49	25/48
90-7	51.9 (41)	41/50	52.0 (46)	100	46/50	49.2 (46)	95	46/50	25.0 (21)	48	21/48
94-7	51.5 (40)	40/50	51.2 (46)	99	46/50	48.1 (45)	93	44/50	25.2 (16)	49	16/48
95-7	51.1 (40)	40/50	51.0 (46)	100	46/50	48.1 (44)	94	44/50	24.7 (12)	48	0/48
98-7	50.0 (40)	40/50	50.2 (44)	100	44/50	47.6 (43)	95	43/50	- (-)	-	0/48
102-7	49.2 (38)	38/50	48.7 (42)	99	42/50	46.1 (42)	94	42/50	- (-)	-	0/48
104-7	48.3 (38)	38/50	48.0 (42)	99	42/50	45.4 (41)	94	41/50	- (-)	-	0/48

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

TABLE 10 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (TWO-YEAR STUDY)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <50>	50 ppm Av.Wt.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <49>	200 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <49>	800 ppm No.of Surviv.
0-0	18.4 (50)	50/50	18.5 (50)	101	50/50	18.7 (49)	102	50/50	18.2 (49)	99	50/50
1-7	20.1 (50)	50/50	20.0 (50)	100	50/50	20.3 (49)	101	50/50	19.1 (49)	95	50/50
2-7	20.3 (50)	50/50	20.5 (50)	101	50/50	20.7 (49)	102	50/50	19.7 (49)	97	50/50
3-7	21.1 (50)	50/50	21.1 (50)	100	50/50	21.2 (49)	100	50/50	19.6 (49)	93	50/50
4-7	21.7 (50)	50/50	22.1 (50)	102	50/50	21.9 (49)	101	50/50	20.0 (49)	92	50/50
5-7	22.1 (50)	50/50	22.4 (50)	101	50/50	21.9 (49)	99	50/50	20.5 (49)	93	50/50
6-7	22.6 (50)	50/50	22.5 (50)	100	50/50	22.3 (49)	99	50/50	21.2 (49)	94	50/50
7-7	23.2 (50)	50/50	23.3 (50)	100	50/50	23.0 (49)	99	50/50	21.9 (49)	94	50/50
8-7	23.5 (50)	50/50	23.5 (50)	100	50/50	23.5 (49)	100	50/50	21.9 (49)	93	50/50
9-7	23.8 (50)	50/50	24.0 (50)	101	50/50	23.6 (49)	99	50/50	22.1 (49)	93	50/50
10-7	23.8 (50)	50/50	23.8 (50)	100	50/50	23.6 (49)	99	50/50	22.4 (49)	94	50/50
11-7	24.1 (50)	50/50	24.3 (50)	101	50/50	23.9 (49)	99	50/50	22.3 (49)	93	50/50
12-7	24.5 (50)	50/50	24.6 (50)	100	50/50	23.9 (49)	98	50/50	22.5 (49)	92	50/50
13-7	25.2 (50)	50/50	25.0 (50)	99	50/50	24.3 (49)	96	50/50	23.3 (49)	92	50/50
14-7	25.2 (50)	50/50	25.1 (50)	100	50/50	24.7 (49)	98	50/50	23.2 (49)	92	50/50
18-7	26.4 (50)	50/50	25.9 (50)	98	50/50	25.3 (49)	96	50/50	23.4 (49)	89	50/50
22-7	26.8 (50)	50/50	26.5 (50)	99	50/50	26.3 (49)	98	50/50	24.0 (48)	90	49/50
26-7	28.5 (50)	50/50	28.6 (50)	100	50/50	27.2 (49)	95	50/50	25.1 (48)	88	49/50
30-7	29.6 (50)	50/50	29.5 (50)	100	50/50	28.1 (49)	95	50/50	25.0 (44)	84	45/50
34-7	30.1 (50)	50/50	30.2 (50)	100	50/50	28.6 (49)	95	50/50	25.2 (44)	84	45/50
38-7	30.8 (50)	50/50	30.7 (50)	100	50/50	28.6 (49)	93	50/50	25.7 (40)	83	41/50
42-7	31.6 (50)	50/50	30.9 (50)	98	50/50	28.9 (49)	91	50/50	25.5 (40)	81	41/50
46-7	32.4 (50)	50/50	31.4 (50)	97	50/50	29.4 (49)	91	50/50	26.5 (40)	82	40/49
50-7	33.2 (50)	50/50	32.3 (50)	97	50/50	29.9 (49)	90	50/50	25.9 (40)	78	40/49
54-7	32.8 (50)	50/50	31.7 (50)	97	50/50	29.5 (49)	90	50/50	25.2 (38)	77	38/49
58-7	31.7 (49)	49/50	31.3 (50)	99	50/50	29.6 (49)	93	50/50	25.0 (37)	79	37/49
62-7	34.4 (49)	49/50	33.1 (49)	96	49/50	30.7 (49)	89	50/50	25.9 (37)	75	37/49
66-7	34.5 (49)	49/50	33.2 (49)	96	49/50	31.0 (49)	90	50/50	25.6 (36)	74	36/49
70-7	35.4 (49)	49/50	34.1 (49)	96	49/50	31.8 (49)	90	50/50	25.3 (35)	71	35/49
74-7	35.7 (49)	49/50	34.3 (46)	96	46/50	31.5 (47)	88	48/50	25.7 (34)	72	34/49
78-7	36.4 (49)	49/50	35.2 (45)	97	45/50	32.3 (45)	89	45/49	26.7 (32)	73	32/49
82-7	37.0 (49)	49/50	35.9 (43)	97	43/50	32.8 (43)	89	43/49	25.1 (30)	68	30/49
86-7	36.7 (46)	46/50	36.7 (41)	100	41/50	32.7 (41)	89	41/49	24.7 (26)	67	26/49
90-7	36.8 (43)	42/50	36.2 (39)	98	39/50	32.5 (40)	88	40/49	24.9 (21)	68	21/49
94-7	37.3 (42)	42/50	35.9 (39)	96	39/50	32.7 (38)	88	38/49	24.6 (15)	66	15/49
95-7	36.5 (41)	41/50	35.5 (39)	97	39/50	32.6 (38)	89	37/49	24.2 (13)	66	0/49
98-7	36.3 (39)	39/50	35.2 (37)	97	37/50	32.8 (37)	90	37/49	- (-)	-	0/49
102-7	35.9 (38)	37/50	34.6 (37)	96	37/50	32.3 (34)	90	34/49	- (-)	-	0/49
104-7	35.4 (35)	35/50	34.4 (36)	97	35/50	32.2 (34)	91	34/49	- (-)	-	0/49

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

TABLE 11 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION :MOUSE :MALE

	week	0～13	14～26	27～39	40～52	53～65	66～78	79～91	92～104	0～104
External mass	Control	0/50	0/50	1/50	1/50	0/48	1/47	1/42	2/40	3/50 (1/12)
	50 ppm	0/50	0/50	0/50	1/50	1/50	1/50	1/50	1/46	2/50 (1/8)
	200 ppm	0/50	0/50	0/49	0/49	1/49	1/49	2/48	5/46	7/50 (3/9)
	800 ppm a)	0/48	0/47	0/46	0/44	0/42	0/40	1/34	1/19	1/48 (1/48)
Internal mass	Control	0/50	0/50	0/50	0/50	0/48	0/47	1/42	5/40	6/50 (1/12)
	50 ppm	0/50	0/50	0/50	0/50	1/50	1/50	6/50	9/46	12/50 (6/8)
	200 ppm	0/50	0/50	0/49	0/49	0/49	2/49	4/48	4/46	7/50 (3/9)
	800 ppm a)	0/48	0/47	0/46	0/44	0/42	0/40	0/34	1/19	1/48 (1/48)

No. of animals with mass/No. of survival animals at first week on each period.
(No. of dead and moribund animals with mass/No. of dead and moribund animals.)
a):Accidental death animal excluded.

TABLE 12 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION :MOUSE :FEMALE

	week	0～13	14～26	27～39	40～52	53～65	66～78	79～91	92～104	0～104
External mass	Control	0/50	0/50	0/50	0/50	0/50	0/49	0/49	3/42	3/50 (1/15)
	50 ppm	0/50	0/50	0/50	0/50	1/50	2/49	2/43	4/39	5/50 (1/15)
	200 ppm a)	0/49	0/49	0/49	0/49	0/49	0/49	1/44	1/39	1/49 (1/15)
	800 ppm a)	0/49	0/49	0/46	0/40	1/38	0/36	0/32	0/19	1/49 (1/49)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	1/49	4/49	13/42	15/50 (7/15)
	50 ppm	0/50	0/50	0/50	0/50	1/50	5/49	5/43	9/39	15/50 (8/15)
	200 ppm a)	0/49	0/49	0/49	0/49	1/49	7/49	8/44	8/39	15/49 (9/15)
	800 ppm a)	0/49	0/49	0/46	0/40	0/38	0/36	1/32	1/19	1/49 (1/49)

No. of animals with mass/No. of survival animals at first week on each period.
(No. of dead and moribund animals with mass/No. of dead and moribund animals.)
a):Accidental death animal excluded.

TABLE 13 FOOD CONSUMPTION IN MALE MOUSE (TWO-YEAR STUDY)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	50 ppm Av.FC.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <50>	200 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <48>	800 ppm No.of Surviv.
1-7	4.1 (50)	50/50	4.1 (50)	100	50/50	4.2 (50)	102	50/50	3.7 (48)	90	50/50
2-7	3.8 (50)	50/50	3.8 (50)	100	50/50	3.8 (50)	100	50/50	4.0 (48)	105	50/50
3-7	3.8 (50)	50/50	4.0 (50)	105	50/50	4.0 (50)	105	50/50	4.2 (48)	111	50/50
4-7	3.9 (50)	50/50	4.0 (50)	103	50/50	4.1 (50)	105	50/50	4.4 (48)	113	50/50
5-7	4.1 (50)	50/50	4.1 (50)	100	50/50	4.0 (50)	98	50/50	4.3 (48)	105	50/50
6-7	4.1 (50)	50/50	4.1 (50)	100	50/50	4.2 (50)	102	50/50	4.6 (48)	112	50/50
7-7	4.1 (50)	50/50	4.1 (50)	100	50/50	4.1 (50)	100	50/50	4.4 (48)	107	50/50
8-7	4.2 (50)	50/50	4.2 (50)	100	50/50	4.3 (50)	102	50/50	4.2 (48)	100	50/50
9-7	4.2 (50)	50/50	4.2 (50)	100	50/50	3.9 (50)	93	50/50	4.3 (48)	102	50/50
10-7	4.2 (50)	50/50	4.3 (50)	102	50/50	4.2 (50)	100	50/50	4.3 (48)	102	50/50
11-7	4.3 (50)	50/50	4.3 (50)	100	50/50	4.2 (50)	98	50/50	4.4 (48)	102	50/50
12-7	4.3 (50)	50/50	4.3 (50)	100	50/50	4.4 (50)	102	50/50	4.7 (48)	109	50/50
13-7	4.3 (50)	50/50	4.3 (50)	100	50/50	4.3 (50)	100	50/50	4.6 (48)	107	49/50
14-7	4.3 (50)	50/50	4.4 (50)	102	50/50	4.3 (50)	100	50/50	4.6 (47)	107	49/50
18-7	4.4 (50)	50/50	4.4 (50)	100	50/50	4.4 (50)	100	50/50	4.5 (47)	102	49/50
22-7	4.4 (50)	50/50	4.5 (50)	102	50/50	4.4 (50)	100	50/50	4.6 (46)	105	48/50
26-7	4.5 (50)	50/50	4.6 (50)	102	50/50	4.5 (50)	100	50/50	4.6 (46)	102	48/50
30-7	4.6 (50)	50/50	4.7 (50)	102	50/50	4.6 (49)	100	49/50	4.9 (46)	107	48/50
34-7	4.7 (50)	50/50	4.7 (50)	100	50/50	4.6 (49)	98	49/50	5.0 (46)	106	46/49
38-7	4.7 (50)	50/50	4.6 (50)	98	50/50	4.7 (49)	100	49/50	4.8 (44)	102	45/49
42-7	4.8 (50)	50/50	4.9 (50)	102	50/50	4.8 (49)	100	49/50	5.0 (44)	104	45/49
46-7	5.4 (48)	48/50	5.4 (50)	100	50/50	4.8 (49)	89	49/50	5.0 (43)	93	44/49
50-7	5.2 (48)	48/50	5.1 (50)	98	50/50	5.0 (49)	96	49/50	5.0 (43)	96	44/49
54-7	5.2 (48)	48/50	5.4 (50)	104	50/50	5.3 (49)	102	49/50	5.1 (42)	98	43/49
58-7	4.8 (48)	48/50	4.9 (50)	102	50/50	4.6 (49)	96	49/50	4.8 (41)	100	42/49
62-7	5.0 (48)	48/50	5.1 (50)	102	50/50	5.0 (49)	100	49/50	5.2 (41)	104	42/49
66-7	5.1 (47)	47/50	5.2 (50)	102	50/50	5.1 (49)	100	49/50	5.0 (40)	98	41/49
70-7	5.0 (46)	45/50	5.1 (50)	102	50/50	5.0 (49)	100	49/50	4.7 (40)	94	39/49
74-7	5.2 (45)	43/50	5.3 (50)	102	50/50	5.2 (48)	100	48/50	4.7 (37)	90	37/49
78-7	5.1 (42)	42/50	5.2 (50)	102	50/50	5.0 (48)	98	48/50	4.4 (35)	86	35/49
82-7	5.2 (42)	42/50	5.2 (50)	100	50/50	5.0 (48)	96	48/50	4.6 (33)	88	33/48
86-7	5.3 (41)	41/50	5.2 (49)	98	49/50	5.3 (46)	100	46/50	4.2 (28)	79	25/48
90-7	5.1 (41)	41/50	5.1 (46)	100	46/50	5.1 (46)	100	46/50	4.0 (23)	78	21/48
94-7	5.1 (40)	40/50	5.0 (46)	98	46/50	5.0 (45)	98	44/50	4.1 (18)	80	16/48
98-7	5.0 (36)	40/50	4.9 (44)	98	44/50	5.0 (43)	100	43/50	- (-)	-	0/48
102-7	4.8 (38)	38/50	4.7 (42)	98	42/50	4.6 (43)	96	42/50	- (-)	-	0/48
104-7	4.8 (38)	38/50	4.7 (42)	98	42/50	4.8 (41)	100	41/50	- (-)	-	0/48

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

TABLE 14 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-YEAR STUDY)

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <50>	50 ppm Av.FC.	50 ppm % of cont. <50>	50 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <49>	200 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <49>	800 ppm No.of Surviv.
1-7	3.7 (50)	50/50	3.5 (50)	95	50/50	3.6 (49)	97	50/50	3.1 (49)	84	50/50
2-7	3.3 (50)	50/50	3.4 (50)	103	50/50	3.6 (49)	109	50/50	3.6 (49)	109	50/50
3-7	3.6 (50)	50/50	3.7 (50)	103	50/50	3.7 (49)	103	50/50	3.7 (49)	103	50/50
4-7	3.6 (50)	50/50	3.9 (50)	108	50/50	3.9 (49)	108	50/50	4.0 (49)	111	50/50
5-7	3.9 (50)	50/50	3.9 (50)	100	50/50	3.9 (48)	100	50/50	4.1 (49)	105	50/50
6-7	4.0 (50)	50/50	3.9 (50)	98	50/50	4.1 (49)	103	50/50	4.3 (49)	108	50/50
7-7	4.0 (50)	50/50	4.2 (50)	105	50/50	4.2 (49)	105	50/50	4.2 (49)	105	50/50
8-7	4.2 (50)	50/50	4.3 (50)	102	50/50	4.3 (49)	102	50/50	4.2 (49)	100	50/50
9-7	4.1 (50)	50/50	4.2 (50)	102	50/50	3.9 (49)	95	50/50	4.2 (49)	102	50/50
10-7	4.1 (50)	50/50	4.2 (50)	102	50/50	4.2 (49)	102	50/50	4.2 (49)	102	50/50
11-7	4.2 (50)	50/50	4.4 (50)	105	50/50	4.2 (49)	100	50/50	4.5 (49)	107	50/50
12-7	4.3 (50)	50/50	4.3 (50)	100	50/50	4.4 (49)	102	50/50	4.7 (49)	109	50/50
13-7	4.2 (50)	50/50	4.2 (50)	100	50/50	4.2 (49)	100	50/50	4.4 (49)	105	50/50
14-7	4.1 (50)	50/50	4.2 (50)	102	50/50	4.2 (49)	102	50/50	4.3 (49)	105	50/50
18-7	4.2 (50)	50/50	4.2 (50)	100	50/50	4.2 (49)	100	50/50	4.3 (49)	102	50/50
22-7	4.2 (50)	50/50	4.2 (50)	100	50/50	4.3 (49)	102	50/50	4.4 (48)	105	49/50
26-7	4.4 (50)	50/50	4.5 (50)	102	50/50	4.5 (49)	102	50/50	4.5 (48)	102	49/50
30-7	4.4 (50)	50/50	4.5 (50)	102	50/50	4.5 (49)	102	50/50	4.7 (44)	107	45/50
34-7	4.4 (50)	50/50	4.5 (50)	102	50/50	4.7 (49)	107	50/50	4.9 (44)	111	45/50
38-7	4.5 (50)	50/50	4.5 (50)	100	50/50	4.4 (49)	98	50/50	4.4 (41)	98	41/50
42-7	4.6 (50)	50/50	4.5 (50)	98	50/50	4.6 (49)	100	50/50	4.8 (40)	104	41/50
46-7	5.1 (50)	50/50	4.9 (50)	96	50/50	4.6 (49)	90	50/50	4.7 (40)	92	40/49
50-7	4.9 (50)	50/50	4.7 (50)	96	50/50	4.8 (49)	98	50/50	4.8 (40)	98	40/49
54-7	4.6 (50)	50/50	4.7 (50)	102	50/50	4.9 (49)	107	50/50	4.6 (38)	100	38/49
58-7	4.4 (49)	49/50	4.5 (50)	102	50/50	4.6 (49)	105	50/50	4.5 (37)	102	37/49
62-7	4.7 (49)	49/50	4.9 (49)	104	49/50	4.9 (49)	104	50/50	5.3 (37)	113	37/49
66-7	4.6 (49)	49/50	4.7 (49)	102	49/50	4.7 (49)	102	50/50	4.6 (36)	100	36/49
70-7	4.6 (49)	49/50	4.6 (49)	100	49/50	4.7 (49)	102	50/50	4.8 (35)	104	35/49
74-7	4.8 (49)	49/50	4.8 (47)	100	46/50	4.7 (48)	98	48/50	4.7 (35)	98	34/49
78-7	4.6 (49)	49/50	4.8 (45)	104	45/50	4.7 (45)	102	45/49	4.4 (32)	96	32/49
82-7	4.7 (49)	49/50	4.7 (43)	100	43/50	5.0 (43)	106	43/49	4.6 (31)	98	30/49
86-7	4.6 (46)	46/50	4.9 (42)	107	41/50	4.9 (42)	107	41/49	4.6 (26)	100	26/49
90-7	4.5 (43)	42/50	4.7 (39)	104	39/50	4.7 (40)	104	40/49	4.4 (22)	98	21/49
94-7	4.9 (42)	42/50	4.7 (39)	96	39/50	4.8 (39)	98	38/49	3.8 (19)	78	15/49
98-7	4.5 (40)	39/50	4.4 (38)	98	37/50	4.7 (37)	104	37/49	- (-)	-	0/49
102-7	4.4 (38)	37/50	4.5 (37)	102	37/50	4.6 (34)	105	34/49	- (-)	-	0/49
104-7	4.5 (36)	35/50	4.5 (37)	100	35/50	4.6 (34)	102	34/49	- (-)	-	0/49

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

TABLE 15 CAUSE OF DEATH:MOUSE

	Male				Female			
Group Name	Control	50ppm	200ppm	800ppm	Control	50ppm	200ppm	800ppm
Number of Dead/Moribund Animal	12	8	9	48	15	15	15	49
No microscopical confirmation	1	2	1	40	0	0	2	38
Cardiovascular lesion	0	0	0	1	0	0	0	0
Hepatic lesion	0	0	0	1	0	0	0	0
Urinary retention	2	0	0	0	0	0	0	0
Hydronephrosis	0	0	0	0	1	1	0	1
Tumor death : leukemia	1	3	4	4	8	8	6	3
: skin/apendage	1	0	0	0	0	0	0	0
: subcutis	0	0	1	0	0	1	0	1
: lung	1	0	0	0	0	0	0	0
: stomach	0	0	0	0	1	0	0	0
: liver	3	3	2	2	0	1	1	0
: ovary	0	0	0	0	1	1	0	1
: uterus	0	0	0	0	3	3	6	5
: mammary gland	0	0	0	0	1	0	0	0
: brain	1	0	0	0	0	0	0	0
: peripheral nerves	1	0	0	0	0	0	0	0
: pleura	0	0	1	0	0	0	0	0
: mediastinum	1	0	0	0	0	0	0	0