

1, 1, 1 - トリクロロエタン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/0189 ; マウス/0190

TABLES

TABLES

- TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
IN THE INHALATION STUDIES OF 1,1,1-TRICHLOROETHANE
- TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT
(TWO-YEAR STUDY)
- TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT
(TWO-YEAR STUDY)
- TABLE 4 INCIDENCE AND TIME OF MASS OCCURRENCE IN CLINICAL OBSERVATION
:RAT:MALE
- TABLE 5 INCIDENCE AND TIME OF MASS OCCURRENCE IN CLINICAL OBSERVATION
:RAT:FEMALE
- TABLE 6 FOOD CONSUMPTION IN MALE RAT(TWO-YEAR STUDY)
- TABLE 7 FOOD CONSUMPTION IN FEMALE RAT(TWO-YEAR STUDY)
- TABLE 8 CAUSE OF DEATH:RAT
- TABLE 9 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE
(TWO-YEAR STUDY)
- TABLE 10 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE
(TWO-YEAR STUDY)
- TABLE 11 INCIDENCE AND TIME OF MASS OCCURRENCE IN CLINICAL OBSERVATION
:MOUSE:MALE
- TABLE 12 INCIDENCE AND TIME OF MASS OCCURRENCE IN CLINICAL OBSERVATION
:MOUSE:FEMALE
- TABLE 13 FOOD CONSUMPTION IN MALE MOUSE(TWO-YEAR STUDY)
- TABLE 14 FOOD CONSUMPTION IN FEMALE MOUSE(TWO-YEAR STUDY)
- TABLE 15 CAUSE OF DEATH:MOUSE

TABLE1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
IN THE INHALATION STUDIES OF 1,1,1-TRICHLOROETHANE

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:BDF 1 mouse

Animal Source

Charles River Japan, Inc.

Duration Held Before Study

2 wk

Age When Placed on Study

6 wk

Age When Killed

110 ~ 111 wk

<Exposure Concentration>

Rat---0,200,800 or 3200ppm

Mouse--0,200,800 or 3200ppm

<Duration of Exposure>

6 h/d, 5 d/wk, for 104 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 : $23 \pm 2^{\circ}\text{C}$

Humidity : $55 \pm 10\%$

Fluorescent light 12 h/d

15-17 room air changes/h

Inhalation Chamber Environment

Temperature : $23 \pm 2^{\circ}\text{C}$

Humidity : $55 \pm 10\%$

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

Body Weight

Weighed 1 per wk for 14 wk

Weighed 1 per 2 wks thereafter

Food Consumption

Weighed 1 per wk for 14 wk

Weighed 1 per 4 wks thereafter

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

Week on Study	Control		200ppm		800ppm			3200ppm			
	Au.Wt.	No.of Surviv. <50>	Au.Wt.	% of cont. <50>	No.of Surviv.	Au.Wt.	% of cont. <50>	No.of Surviv.	Au.Wt.	% of cont. <50>	No.of Surviv.
0	133 (50)	50/50	134 (50)	101	50/50	133 (50)	100	50/50	133 (50)	100	50/50
1	168 (50)	50/50	167 (50)	99	50/50	166 (50)	99	50/50	160 (50)	95	50/50
2	201 (50)	50/50	198 (50)	99	50/50	199 (50)	99	50/50	184 (50)	92	50/50
3	227 (50)	50/50	224 (50)	99	50/50	225 (50)	99	50/50	205 (50)	90	50/50
4	248 (50)	50/50	245 (50)	99	50/50	247 (50)	100	50/50	223 (50)	90	50/50
5	265 (50)	50/50	263 (50)	99	50/50	265 (50)	100	50/50	241 (50)	91	50/50
6	278 (50)	50/50	276 (50)	99	50/50	278 (50)	100	50/50	256 (50)	92	50/50
7	294 (50)	50/50	293 (50)	100	50/50	294 (50)	100	50/50	270 (50)	92	50/50
8	308 (50)	50/50	308 (50)	100	50/50	307 (50)	100	50/50	282 (50)	92	50/50
9	320 (50)	50/50	318 (50)	99	50/50	317 (50)	99	50/50	291 (50)	91	50/50
10	329 (50)	50/50	327 (50)	99	50/50	326 (50)	99	50/50	299 (50)	91	50/50
11	338 (50)	50/50	337 (50)	100	50/50	335 (50)	99	50/50	306 (50)	91	50/50
12	347 (50)	50/50	345 (50)	99	50/50	344 (50)	99	50/50	314 (50)	90	50/50
13	353 (50)	50/50	350 (50)	99	50/50	351 (50)	99	50/50	321 (50)	91	50/50
14	356 (50)	50/50	354 (50)	99	50/50	355 (50)	100	50/50	325 (50)	91	50/50
18	369 (50)	50/50	368 (50)	100	50/50	373 (50)	101	50/50	346 (50)	94	50/50
22	391 (50)	50/50	389 (50)	99	50/50	396 (50)	101	50/50	372 (50)	95	50/50
26	413 (50)	50/50	413 (50)	100	50/50	411 (50)	100	50/50	389 (50)	94	50/50
30	430 (50)	50/50	432 (50)	100	50/50	427 (50)	99	50/50	409 (50)	95	50/50
34	444 (50)	50/50	445 (50)	100	50/50	441 (50)	99	50/50	424 (50)	95	50/50
38	454 (50)	50/50	456 (50)	100	50/50	450 (50)	99	50/50	435 (50)	96	50/50
42	464 (50)	50/50	467 (50)	101	50/50	457 (50)	98	50/50	446 (50)	96	50/50
46	469 (50)	50/50	469 (50)	100	50/50	457 (50)	97	50/50	448 (50)	96	50/50
50	481 (50)	50/50	482 (50)	100	50/50	469 (50)	98	50/50	454 (50)	94	50/50
54	484 (50)	50/50	485 (50)	100	50/50	470 (50)	97	50/50	451 (50)	93	50/50
58	480 (50)	50/50	482 (50)	100	50/50	471 (50)	98	50/50	451 (50)	94	50/50
62	480 (49)	49/50	480 (50)	100	50/50	470 (50)	98	50/50	452 (50)	94	50/50
66	484 (49)	49/50	485 (50)	100	50/50	473 (50)	98	50/50	457 (49)	94	49/50
70	490 (49)	49/50	492 (50)	100	50/50	479 (50)	98	50/50	460 (49)	94	49/50
74	490 (49)	49/50	494 (49)	101	49/50	480 (50)	98	50/50	463 (47)	94	47/50
78	489 (49)	49/50	494 (49)	101	49/50	480 (50)	98	50/50	462 (47)	94	47/50
82	488 (47)	47/50	491 (49)	101	49/50	482 (48)	99	48/50	463 (47)	95	47/50
86	483 (45)	45/50	486 (48)	101	48/50	478 (47)	99	47/50	463 (47)	96	47/50
90	477 (44)	44/50	478 (48)	100	48/50	477 (46)	100	46/50	460 (44)	96	44/50
94	462 (42)	42/50	477 (46)	103	46/50	468 (46)	101	46/50	462 (42)	100	42/50
98	453 (37)	37/50	459 (45)	101	45/50	453 (44)	100	44/50	434 (34)	96	34/50
102	441 (35)	34/50	439 (40)	100	40/50	441 (39)	100	37/50	418 (29)	95	29/50
104	429 (34)	34/50	438 (36)	102	36/50	442 (36)	103	36/50	410 (28)	96	28/50

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

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.Wt.	No. of Surviv. <50>	Au.Wt.	% of cont. <50>	No. of Surviv.	Au.Wt.	% of cont. <50>	No. of Surviv.	Au.Wt.	% of cont. <50>	No. of Surviv.
0	103 (50)	50/50	103 (50)	100	50/50	103 (50)	100	50/50	102 (50)	99	50/50
1	121 (50)	50/50	120 (50)	99	50/50	120 (50)	99	50/50	116 (50)	96	50/50
2	137 (50)	50/50	134 (50)	98	50/50	135 (50)	99	50/50	128 (50)	93	50/50
3	148 (50)	50/50	143 (50)	97	50/50	145 (50)	98	50/50	138 (50)	93	50/50
4	158 (50)	50/50	151 (50)	96	50/50	156 (50)	99	50/50	146 (50)	92	50/50
5	167 (50)	50/50	160 (50)	96	50/50	164 (50)	98	50/50	154 (50)	92	50/50
6	174 (50)	50/50	166 (50)	95	50/50	171 (50)	98	50/50	160 (50)	92	50/50
7	182 (50)	50/50	175 (50)	96	50/50	178 (50)	98	50/50	166 (50)	91	50/50
8	187 (50)	50/50	180 (50)	96	50/50	183 (50)	98	50/50	172 (50)	92	50/50
9	193 (50)	50/50	186 (50)	96	50/50	188 (50)	97	50/50	175 (50)	91	50/50
10	198 (50)	50/50	191 (50)	96	50/50	193 (50)	97	50/50	179 (50)	90	50/50
11	202 (50)	50/50	195 (50)	97	50/50	197 (50)	98	50/50	182 (50)	90	50/50
12	206 (50)	50/50	199 (50)	97	50/50	201 (50)	98	50/50	187 (50)	91	50/50
13	210 (50)	50/50	204 (50)	97	50/50	206 (50)	98	50/50	191 (50)	91	50/50
14	212 (50)	50/50	207 (50)	98	50/50	210 (50)	99	50/50	194 (50)	92	50/50
18	224 (50)	50/50	220 (50)	98	50/50	221 (50)	99	50/50	207 (50)	92	50/50
22	232 (50)	50/50	230 (50)	99	50/50	229 (50)	99	50/50	214 (50)	92	50/50
26	238 (50)	50/50	235 (49)	99	49/50	232 (50)	97	50/50	222 (50)	93	50/50
30	247 (50)	50/50	244 (49)	99	49/50	240 (50)	97	50/50	230 (50)	93	50/50
34	252 (50)	50/50	252 (49)	100	49/50	246 (50)	98	50/50	235 (50)	93	50/50
38	260 (50)	50/50	257 (49)	99	49/50	256 (49)	98	49/50	242 (50)	93	50/50
42	263 (50)	50/50	263 (49)	100	49/50	260 (49)	99	49/50	245 (50)	93	50/50
46	267 (50)	50/50	269 (49)	101	49/50	267 (49)	100	49/50	249 (50)	93	50/50
50	272 (50)	50/50	274 (48)	101	48/50	269 (49)	99	49/50	251 (50)	92	50/50
54	276 (50)	50/50	275 (48)	100	48/50	273 (49)	99	49/50	248 (50)	90	50/50
58	281 (50)	50/50	283 (48)	101	48/50	279 (49)	99	49/50	257 (49)	91	49/50
62	288 (50)	50/50	288 (48)	100	48/50	283 (49)	98	49/50	261 (49)	91	49/50
66	294 (50)	50/50	292 (48)	99	48/50	286 (49)	97	49/50	267 (49)	91	49/50
70	303 (50)	50/50	300 (48)	99	48/50	296 (48)	98	48/50	275 (49)	91	49/50
74	307 (50)	50/50	308 (48)	100	48/50	304 (48)	99	48/50	281 (49)	92	49/50
78	317 (49)	49/50	314 (46)	99	46/50	313 (48)	99	48/50	288 (49)	91	49/50
82	321 (49)	49/50	316 (46)	98	46/50	319 (48)	99	48/50	295 (49)	92	49/50
86	324 (49)	49/50	320 (46)	99	46/50	323 (48)	100	48/50	297 (49)	92	49/50
90	323 (47)	46/50	322 (45)	100	45/50	327 (46)	101	46/50	297 (49)	92	49/50
94	326 (43)	43/50	327 (42)	100	42/50	327 (45)	100	45/50	301 (48)	92	48/50
98	329 (41)	41/50	331 (41)	101	41/50	326 (45)	99	45/50	299 (47)	91	47/50
102	332 (39)	39/50	325 (39)	98	39/50	326 (42)	98	42/50	302 (43)	91	41/50
104	328 (38)	38/50	324 (38)	99	38/50	325 (42)	99	42/50	298 (39)	91	38/50

< >:No. of effective animals, ():No. of measured animals Au.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	0/50	3/50	6/49	9/49	10/44	14/50 (6/16)
	200 ppm	0/50	0/50	0/50	1/50	2/50	4/50	8/49	11/48	13/50 (6/14)
	800 ppm	0/50	0/50	0/50	1/50	1/50	3/50	7/50	14/46	18/50 (4/14)
	3200 ppm	0/50	0/50	0/50	0/50	0/50	2/49	7/47	10/43	12/50 (6/22)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	0/49	1/49	4/44	4/50 (3/16)
	200 ppm	0/50	0/50	0/50	0/50	0/50	1/50	1/49	4/48	5/50 (3/14)
	800 ppm	0/50	0/50	0/50	0/50	0/50	0/50	2/50	3/46	5/50 (5/14)
	3200 ppm	0/50	0/50	0/50	0/50	0/50	0/49	0/47	3/43	3/50 (3/22)

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	0/50	0/50	0/50	0/50	0/50	4/50	10/49	8/44	12/50 (6/12)
	200 ppm	0/50	0/50	0/49	0/49	1/48	3/48	6/46	10/44	10/50 (1/12)
	800 ppm	0/50	0/50	1/50	0/49	0/49	5/49	7/48	6/46	10/50 (4/8)
	3200 ppm	0/50	0/50	0/50	0/50	1/50	2/49	5/49	10/48	11/50 (3/12)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	1/50	2/49	3/44	5/50 (3/12)
	200 ppm	0/50	0/50	0/49	1/49	0/48	1/48	2/46	4/44	6/50 (6/12)
	800 ppm	0/50	0/50	0/50	0/49	0/49	0/49	0/48	3/46	3/50 (1/8)
	3200 ppm	0/50	0/50	0/50	0/50	0/50	0/49	1/49	3/48	4/50 (3/12)

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.FC. (50)	No.of Surviv. <50>	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)
1	16.7 (50)	50/50	16.7 (50)	100	50/50	16.1 (50)	96	50/50	15.7 (50)	94	50/50
2	17.6 (50)	50/50	17.3 (50)	98	50/50	17.1 (50)	97	50/50	16.2 (50)	92	50/50
3	18.6 (50)	50/50	18.5 (50)	99	50/50	18.0 (50)	97	50/50	16.6 (50)	89	50/50
4	19.3 (50)	50/50	18.7 (50)	97	50/50	19.0 (50)	98	50/50	17.5 (50)	91	50/50
5	18.9 (50)	50/50	18.6 (50)	98	50/50	18.8 (50)	99	50/50	17.8 (50)	94	50/50
6	19.7 (50)	50/50	19.4 (50)	98	50/50	18.9 (50)	96	50/50	18.2 (50)	92	50/50
7	19.1 (50)	50/50	18.9 (50)	99	50/50	18.7 (50)	98	50/50	18.0 (50)	94	50/50
8	19.2 (50)	50/50	18.8 (50)	98	50/50	18.7 (50)	97	50/50	18.2 (50)	95	50/50
9	19.0 (50)	50/50	19.1 (50)	101	50/50	18.4 (50)	97	50/50	17.7 (50)	93	50/50
10	19.0 (50)	50/50	18.8 (50)	99	50/50	18.4 (50)	97	50/50	17.9 (50)	94	50/50
11	18.8 (50)	50/50	18.7 (50)	99	50/50	18.3 (50)	97	50/50	17.8 (49)	95	50/50
12	18.7 (50)	50/50	18.5 (50)	99	50/50	18.4 (50)	98	50/50	17.6 (50)	94	50/50
13	19.4 (50)	50/50	19.0 (50)	98	50/50	18.4 (50)	95	50/50	17.9 (50)	92	50/50
14	18.3 (50)	50/50	18.6 (50)	102	50/50	18.1 (50)	99	50/50	17.7 (50)	97	50/50
18	18.7 (50)	50/50	18.9 (50)	101	50/50	18.4 (50)	98	50/50	17.8 (50)	95	50/50
22	17.9 (50)	50/50	18.4 (50)	103	50/50	18.1 (50)	101	50/50	18.2 (50)	102	50/50
26	18.3 (50)	50/50	18.3 (50)	100	50/50	17.3 (50)	95	50/50	17.6 (50)	96	50/50
30	18.1 (50)	50/50	18.6 (50)	103	50/50	17.7 (50)	98	50/50	18.2 (50)	101	50/50
34	18.4 (50)	50/50	18.4 (50)	100	50/50	18.0 (50)	98	50/50	18.4 (50)	100	50/50
38	19.2 (50)	50/50	19.4 (50)	101	50/50	18.9 (50)	98	50/50	19.0 (50)	99	50/50
42	19.4 (50)	50/50	19.5 (50)	101	50/50	19.1 (50)	98	50/50	19.1 (50)	98	50/50
46	19.0 (50)	50/50	18.4 (50)	97	50/50	18.2 (50)	96	50/50	18.4 (50)	97	50/50
50	19.3 (50)	50/50	19.5 (50)	101	50/50	19.2 (50)	99	50/50	19.3 (50)	100	50/50
54	19.1 (50)	50/50	19.1 (50)	100	50/50	18.2 (50)	95	50/50	17.6 (50)	92	50/50
57	17.8 (50)	50/50	17.7 (50)	99	50/50	17.9 (50)	101	50/50	17.4 (50)	98	50/50
62	18.3 (49)	49/50	18.1 (50)	99	50/50	17.6 (50)	96	50/50	17.7 (50)	97	50/50
66	19.1 (49)	49/50	18.9 (50)	99	50/50	18.1 (50)	95	50/50	18.3 (49)	96	49/50
70	18.9 (49)	49/50	18.8 (50)	99	50/50	18.3 (50)	97	50/50	18.4 (49)	97	49/50
74	18.4 (49)	49/50	18.6 (49)	101	49/50	18.2 (50)	99	50/50	18.6 (47)	101	47/50
78	18.6 (49)	49/50	18.6 (49)	100	49/50	18.5 (50)	99	50/50	18.8 (47)	101	47/50
82	18.4 (47)	47/50	18.6 (48)	101	49/50	18.2 (48)	99	48/50	18.5 (47)	101	47/50
86	18.3 (46)	45/50	17.8 (48)	97	48/50	18.7 (47)	102	47/50	18.4 (46)	101	47/50
90	19.1 (44)	44/50	18.7 (48)	98	48/50	19.5 (46)	102	46/50	19.0 (45)	99	44/50
94	18.5 (41)	42/50	19.0 (46)	103	46/50	19.2 (45)	104	46/50	19.0 (43)	103	42/50
98	17.9 (38)	37/50	18.4 (45)	103	45/50	18.5 (44)	103	44/50	18.8 (34)	105	34/50
102	18.6 (35)	34/50	18.4 (40)	99	40/50	18.4 (39)	99	37/50	18.0 (29)	102	29/50
104	18.3 (34)	34/50	17.4 (38)	95	36/50	19.0 (36)	104	36/50	19.6 (27)	107	28/50

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

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

Week on Study	Control			200ppm			800ppm			3200ppm		
	Av.FC.	No.of Surviv. <50>		Av.FC.	% of cont. <50>	No.of Surviv.	Av.FC.	% of cont. <50>	No.of Surviv.	Av.FC.	% of cont. <50>	No.of Surviv.
1	12.9 (50)	50/50		12.5 (50)	97	50/50	12.2 (50)	95	50/50	12.0 (50)	93	50/50
2	13.0 (50)	50/50		12.6 (50)	97	50/50	12.2 (50)	94	50/50	12.1 (50)	93	50/50
3	13.2 (50)	50/50		12.5 (50)	95	50/50	12.4 (50)	94	50/50	12.2 (50)	92	50/50
4	13.9 (50)	50/50		12.8 (50)	92	50/50	13.1 (50)	94	50/50	12.5 (50)	90	50/50
5	13.9 (50)	50/50		13.2 (50)	95	50/50	13.1 (50)	94	50/50	12.6 (50)	91	50/50
6	14.6 (50)	50/50		14.2 (50)	97	50/50	13.7 (50)	94	50/50	13.0 (50)	89	50/50
7	14.0 (50)	50/50		13.6 (50)	97	50/50	13.4 (50)	96	50/50	13.0 (50)	93	50/50
8	14.1 (50)	50/50		13.4 (50)	95	50/50	13.2 (50)	94	50/50	12.8 (50)	91	50/50
9	13.9 (50)	50/50		13.6 (50)	98	50/50	13.2 (50)	95	50/50	12.2 (50)	88	50/50
10	13.8 (50)	50/50		13.8 (50)	100	50/50	13.0 (50)	94	50/50	12.7 (50)	92	50/50
11	13.6 (50)	50/50		13.2 (50)	97	50/50	13.0 (50)	96	50/50	12.5 (50)	92	50/50
12	13.4 (50)	50/50		13.2 (50)	99	50/50	12.9 (50)	96	50/50	12.6 (50)	94	50/50
13	13.9 (50)	50/50		14.4 (50)	104	50/50	13.2 (50)	95	50/50	13.2 (50)	95	50/50
14	14.2 (50)	50/50		14.9 (50)	105	50/50	14.0 (50)	99	50/50	13.4 (50)	94	50/50
18	14.2 (50)	50/50		15.2 (49)	107	50/50	13.4 (49)	94	50/50	13.7 (50)	96	50/50
22	13.3 (50)	50/50		14.0 (50)	105	50/50	12.7 (48)	95	50/50	12.5 (48)	94	50/50
26	12.7 (50)	50/50		12.7 (50)	100	49/50	11.7 (50)	92	50/50	12.4 (50)	98	50/50
30	13.0 (50)	50/50		13.2 (49)	102	49/50	12.4 (50)	95	50/50	12.6 (50)	97	50/50
34	12.7 (50)	50/50		12.9 (49)	102	49/50	12.4 (50)	98	50/50	12.3 (50)	97	50/50
38	13.7 (50)	50/50		13.5 (49)	99	49/50	13.7 (49)	100	49/50	13.1 (50)	96	50/50
42	13.3 (50)	50/50		13.6 (49)	102	49/50	13.3 (49)	100	49/50	12.9 (50)	97	50/50
46	12.9 (50)	50/50		13.2 (49)	102	49/50	13.1 (49)	102	49/50	12.9 (50)	100	50/50
50	13.6 (50)	50/50		13.6 (49)	100	48/50	13.3 (49)	98	49/50	13.7 (50)	101	50/50
54	13.1 (50)	50/50		12.7 (48)	97	48/50	12.8 (49)	98	49/50	11.8 (50)	90	50/50
57	13.1 (50)	50/50		13.5 (48)	103	48/50	13.0 (48)	99	49/50	13.0 (50)	99	49/50
62	13.3 (50)	50/50		13.2 (47)	99	48/50	13.0 (49)	98	49/50	12.8 (48)	96	49/50
66	14.1 (50)	50/50		13.9 (48)	99	48/50	13.1 (49)	93	49/50	13.4 (49)	95	49/50
70	14.4 (50)	50/50		14.0 (48)	97	48/50	13.8 (48)	96	48/50	14.0 (49)	97	49/50
74	13.3 (50)	50/50		13.8 (48)	104	48/50	13.7 (48)	103	48/50	13.6 (49)	102	49/50
78	14.2 (49)	49/50		13.9 (47)	98	46/50	14.0 (48)	99	48/50	13.8 (49)	97	49/50
82	13.8 (49)	49/50		13.7 (46)	99	46/50	13.9 (48)	101	48/50	13.8 (49)	100	49/50
86	13.9 (49)	49/50		14.2 (46)	102	46/50	14.5 (48)	104	48/50	14.3 (49)	103	49/50
90	13.8 (48)	46/50		15.0 (45)	109	45/50	14.5 (46)	105	46/50	14.0 (49)	101	49/50
94	14.6 (43)	43/50		14.8 (42)	101	42/50	14.7 (45)	101	45/50	14.7 (48)	101	48/50
98	15.3 (41)	41/50		14.7 (42)	96	41/50	14.1 (45)	92	45/50	14.3 (47)	93	47/50
102	15.6 (39)	39/50		14.7 (39)	94	39/50	14.8 (42)	95	42/50	14.8 (42)	95	41/50
104	14.9 (38)	38/50		15.1 (38)	101	38/50	15.5 (42)	104	42/50	14.8 (38)	99	38/50

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

TABLE 8 CAUSE OF DEATH:RAT

Group Name	Male				Female			
	Control	200ppm	800ppm	3200ppm	Control	200ppm	800ppm	3200ppm
Number of Dead/Moribund Animal	16	14	14	22	12	12	8	12
No microscopical confirmation	0	0	1	2	1	1	0	1
Respiratory system lesion	0	0	0	1	0	0	0	0
Digestive system lesion	1	0	0	0	0	0	0	0
Urinary system lesion	0	0	1	0	0	0	0	0
Chronic nephropathy	1	3	0	2	0	0	0	1
Tumor death : leukemia	3	6	6	4	1	5	3	3
: subcutis	2	1	0	1	1	0	0	2
: bone marrow	0	0	0	0	1	0	0	0
: spleen	0	0	0	0	1	0	0	0
: kidney	0	0	0	1	0	0	0	0
: urinary bladder	0	1	0	0	0	0	0	0
: pituitary gland	6	1	3	0	4	4	2	2
: thyroid	0	0	1	0	0	0	0	0
: adrenal gland	1	0	1	0	0	1	0	0
: uterus	0	0	0	0	0	1	0	1
: preputial/clitoral gland	0	0	0	0	0	0	1	0
: brain	0	0	0	0	0	0	1	2
: Zymbal gland	0	0	0	0	1	0	0	0
: muscle	0	0	0	0	0	0	1	0
: bone	0	0	1	0	1	0	0	0
: mediastinum	0	1	0	1	0	0	0	0
: peritoneum	1	1	0	10	1	0	0	0
: retroperitoneum	1	0	0	0	0	0	0	0

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.Wt. (50)	No.of Surviv. (50)	Au.Wt. (50)	% of cont. (50)	No.of Surviv. (50)	Au.Wt. (50)	% of cont. (50)	No.of Surviv. (50)	Au.Wt. (50)	% of cont. (50)	No.of Surviv. (50)
0	23.0 (50)	50/50	23.0 (50)	100	50/50	22.9 (50)	100	50/50	22.8 (50)	99	50/50
1	24.9 (50)	50/50	24.5 (50)	98	50/50	25.0 (50)	100	50/50	24.6 (50)	99	50/50
2	25.5 (50)	50/50	25.0 (50)	98	50/50	25.8 (50)	101	50/50	25.3 (50)	99	50/50
3	26.4 (50)	50/50	26.1 (50)	99	50/50	26.6 (50)	101	50/50	26.3 (50)	100	50/50
4	26.9 (50)	50/50	26.3 (49)	98	49/50	26.8 (50)	100	50/50	26.5 (50)	99	50/50
5	27.4 (50)	50/50	27.0 (49)	99	49/50	27.4 (50)	100	50/50	27.2 (50)	99	50/50
6	28.0 (50)	50/50	27.3 (49)	98	49/50	28.0 (50)	100	50/50	27.7 (50)	99	50/50
7	28.7 (50)	50/50	27.4 (49)	95	49/50	28.6 (50)	100	50/50	28.2 (50)	98	50/50
8	29.6 (50)	50/50	28.2 (49)	95	49/50	29.3 (50)	99	50/50	28.8 (50)	97	50/50
9	30.3 (50)	50/50	28.7 (49)	95	49/50	30.0 (50)	99	50/50	29.3 (50)	97	50/50
10	31.3 (50)	50/50	29.6 (49)	95	49/50	30.8 (50)	98	50/50	29.8 (50)	95	50/50
11	31.7 (50)	50/50	30.1 (49)	95	49/50	31.1 (50)	98	50/50	30.1 (50)	95	50/50
12	32.3 (50)	50/50	30.6 (49)	95	49/50	31.8 (50)	98	50/50	30.7 (50)	95	50/50
13	33.0 (50)	50/50	31.8 (49)	96	49/50	32.7 (50)	99	50/50	31.8 (50)	96	50/50
14	33.9 (50)	50/50	32.5 (49)	96	49/50	33.3 (50)	98	50/50	32.2 (50)	95	50/50
18	36.0 (50)	50/50	34.7 (49)	96	49/50	35.7 (50)	99	50/50	34.6 (50)	96	50/50
22	38.6 (50)	50/50	38.1 (47)	99	47/50	38.3 (50)	99	50/50	37.5 (50)	97	50/50
26	41.1 (50)	50/50	40.1 (47)	98	47/50	40.7 (50)	99	50/50	39.7 (50)	97	50/50
30	43.5 (50)	50/50	42.2 (47)	97	47/50	42.8 (50)	98	50/50	41.7 (50)	96	50/50
34	45.7 (50)	50/50	44.1 (47)	96	47/50	44.5 (50)	97	50/50	43.1 (50)	94	50/50
38	47.3 (50)	50/50	45.5 (47)	96	47/50	46.1 (50)	97	50/50	45.0 (50)	95	50/50
42	48.5 (50)	50/50	46.8 (47)	96	47/50	47.2 (50)	97	50/50	46.1 (50)	95	50/50
46	48.8 (50)	50/50	47.0 (47)	96	47/50	47.7 (50)	98	50/50	46.4 (50)	95	50/50
50	49.7 (50)	50/50	47.5 (46)	96	46/50	48.6 (50)	98	50/50	47.7 (50)	96	50/50
54	50.4 (50)	50/50	48.1 (46)	95	46/50	49.2 (50)	98	50/50	47.7 (50)	95	50/50
58	50.3 (50)	50/50	47.8 (46)	95	46/50	48.5 (50)	96	50/50	48.0 (50)	95	50/50
62	50.4 (50)	50/50	48.6 (46)	96	46/50	49.0 (50)	97	49/50	48.1 (50)	95	50/50
66	50.4 (50)	50/50	48.9 (46)	97	46/50	49.7 (49)	99	49/50	47.9 (49)	95	49/50
70	50.6 (50)	50/50	49.3 (46)	97	46/50	50.3 (49)	99	49/50	48.0 (48)	95	48/50
74	53.1 (49)	49/50	50.8 (46)	96	46/50	51.6 (48)	97	48/50	50.6 (46)	95	46/50
78	53.1 (49)	49/50	51.3 (45)	97	45/50	52.5 (47)	99	47/50	51.0 (46)	96	46/50
82	53.5 (49)	49/50	50.8 (45)	95	45/50	52.7 (46)	99	46/50	50.7 (45)	95	45/50
86	52.2 (49)	49/50	49.8 (44)	95	44/50	51.2 (45)	98	45/50	50.0 (42)	96	42/50
90	52.4 (48)	48/50	50.1 (41)	96	41/50	50.9 (43)	97	43/50	48.5 (41)	93	41/50
94	52.3 (46)	46/50	49.2 (39)	94	39/50	50.0 (40)	96	40/50	47.1 (38)	90	38/50
98	49.1 (43)	43/50	46.5 (38)	95	37/50	46.7 (38)	95	38/50	44.1 (36)	90	36/50
102	47.0 (42)	42/50	45.8 (35)	97	35/50	44.9 (36)	96	36/50	42.9 (31)	91	31/50
104	45.2 (40)	40/50	44.6 (34)	99	34/50	44.3 (34)	98	34/50	41.6 (31)	92	31/50

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

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.Wt.	No.of Surviv. <50>	Au.Wt.	% of cont. <48>	No.of Surviv.	Au.Wt.	% of cont. <50>	No.of Surviv.	Au.Wt.	% of cont. <49>	No.of Surviv.
0	18.7 (50)	50/50	18.5 (48)	99	50/50	18.5 (50)	99	50/50	18.4 (49)	98	50/50
1	20.5 (50)	50/50	20.1 (48)	98	49/49	20.4 (50)	100	50/50	20.5 (49)	100	50/50
2	21.0 (50)	50/50	20.9 (48)	100	49/49	20.8 (50)	99	50/50	21.0 (49)	100	50/50
3	22.1 (50)	50/50	21.6 (48)	98	49/49	21.8 (50)	99	50/50	22.0 (49)	100	50/50
4	22.4 (50)	50/50	22.0 (48)	98	49/49	22.0 (50)	98	50/50	22.6 (49)	101	50/50
5	22.9 (50)	50/50	22.5 (48)	98	49/49	22.6 (50)	99	50/50	22.9 (49)	100	50/50
6	23.1 (50)	50/50	22.8 (48)	99	49/49	23.0 (50)	100	50/50	23.6 (49)	102	50/50
7	23.4 (50)	50/50	23.0 (48)	98	48/48	23.4 (50)	100	50/50	24.0 (49)	103	50/50
8	24.2 (50)	50/50	23.7 (48)	98	48/48	24.0 (50)	99	50/50	24.4 (49)	101	50/50
9	24.7 (50)	50/50	23.8 (48)	96	48/48	24.2 (50)	98	50/50	24.6 (49)	100	50/50
10	24.9 (50)	50/50	24.5 (48)	98	48/48	24.8 (50)	100	50/50	25.0 (49)	100	50/50
11	24.6 (50)	50/50	24.4 (48)	99	48/48	24.5 (50)	100	50/50	25.0 (49)	102	50/50
12	24.7 (50)	50/50	24.4 (48)	99	48/48	24.9 (50)	101	50/50	25.0 (49)	101	50/50
13	25.6 (50)	50/50	25.0 (48)	98	48/48	25.4 (50)	99	50/50	25.9 (49)	101	50/50
14	25.7 (50)	50/50	25.2 (48)	98	48/48	25.6 (50)	100	50/50	26.0 (49)	101	50/50
18	26.5 (50)	50/50	26.0 (48)	98	48/48	26.2 (50)	99	50/50	26.7 (49)	101	49/49
22	28.2 (50)	50/50	27.4 (48)	97	48/48	27.6 (50)	98	50/50	28.6 (49)	101	49/49
26	29.3 (50)	50/50	28.1 (48)	96	48/48	28.9 (50)	99	50/50	29.2 (49)	100	49/49
30	30.3 (50)	50/50	29.1 (48)	96	48/48	29.5 (50)	97	50/50	30.0 (49)	99	49/49
34	31.2 (50)	50/50	30.3 (48)	97	48/48	30.0 (50)	96	50/50	30.2 (49)	97	49/49
38	32.0 (50)	50/50	31.3 (48)	98	48/48	31.1 (50)	97	50/50	31.5 (48)	98	48/49
42	32.8 (50)	50/50	32.3 (48)	98	48/48	31.5 (50)	96	50/50	32.1 (48)	98	48/49
46	32.5 (50)	50/50	32.3 (48)	99	48/48	31.5 (50)	97	50/50	31.9 (48)	98	48/49
50	33.3 (50)	50/50	32.7 (47)	98	47/48	32.4 (50)	97	50/50	32.9 (48)	99	48/49
54	33.9 (50)	50/50	33.4 (46)	99	46/48	32.6 (50)	96	50/50	32.6 (48)	96	48/49
58	33.7 (50)	50/50	33.0 (46)	98	46/48	32.1 (49)	95	49/50	32.6 (47)	97	47/49
62	34.2 (50)	50/50	33.5 (46)	98	46/48	32.6 (49)	95	49/50	32.6 (47)	95	47/49
66	34.4 (49)	49/50	33.7 (46)	98	46/48	32.6 (49)	95	49/50	32.9 (47)	96	47/49
70	34.5 (48)	48/50	34.6 (46)	100	46/48	32.9 (49)	95	49/50	33.2 (46)	96	46/49
74	35.8 (48)	48/50	35.8 (45)	100	45/48	34.6 (48)	97	48/50	34.7 (45)	97	45/49
78	36.3 (47)	47/50	36.4 (45)	100	45/48	35.3 (46)	97	45/50	34.9 (45)	96	45/49
82	36.7 (43)	43/50	36.6 (44)	100	44/48	35.8 (44)	98	44/50	34.7 (44)	95	44/49
86	35.9 (43)	43/50	36.0 (39)	100	39/48	35.0 (43)	97	43/50	33.7 (43)	94	43/49
90	35.4 (40)	40/50	35.5 (38)	100	38/48	35.6 (41)	101	41/50	33.6 (41)	95	41/49
94	34.6 (37)	37/50	35.6 (37)	103	37/48	35.0 (36)	101	36/50	33.3 (37)	96	37/49
98	33.2 (35)	35/50	34.7 (32)	105	32/48	33.7 (36)	102	36/50	33.2 (34)	100	34/49
102	33.2 (31)	31/50	34.1 (31)	103	29/48	32.5 (34)	98	33/50	31.8 (31)	96	30/49
104	32.9 (29)	29/50	34.7 (28)	105	28/48	32.0 (29)	97	29/50	31.4 (29)	95	29/49

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

Au.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	0/50	0/50	3/50	6/50	9/49	10/47	14/50 (0/10)
	200 ppm	0/50	0/49	0/47	1/47	2/46	4/46	8/45	11/40	13/50 (1/16)
	800 ppm	0/50	0/50	0/50	1/50	1/50	3/49	7/47	14/42	18/50 (1/16)
	3200 ppm	0/50	0/50	0/50	0/50	0/50	2/49	7/46	10/40	12/50 (2/19)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	0/50	1/49	4/47	4/50 (4/10)
	200 ppm	0/50	0/49	0/47	0/47	0/46	1/46	1/45	4/40	5/50 (8/16)
	800 ppm	0/50	0/50	0/50	0/50	0/50	0/49	2/47	3/42	5/50 (5/16)
	3200 ppm	0/50	0/50	0/50	0/50	0/50	0/49	0/46	3/40	3/50 (4/19)

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 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	4/49	10/45	8/38	12/50 (1/21)
	200 ppm	0/50	0/48	0/48	0/48	1/46	3/46	6/44	10/38	10/50 (1/22)
	800 ppm	0/50	0/50	1/50	0/50	0/50	5/49	7/45	6/38	10/50 (3/21)
	3200 ppm	0/50	0/50	0/49	0/48	1/48	2/47	5/45	10/40	11/50 (5/21)
Internal mass	Control	0/50	0/50	0/50	0/50	0/50	1/49	2/45	3/38	5/50 (10/21)
	200 ppm	0/50	0/48	0/48	1/48	0/46	1/46	2/44	4/38	6/50 (12/22)
	800 ppm	0/50	0/50	0/50	0/50	0/50	0/49	0/45	3/38	3/50 (14/21)
	3200 ppm	0/50	0/50	0/49	0/48	0/48	0/47	1/45	3/40	4/50 (10/21)

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.FC. (50)	No.of Surviv. <50>	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)	Au.FC. (50)	% of cont. <50>	No.of Surviv. (50)
1	4.5 (50)	50/50	4.2 (50)	93	50/50	4.5 (50)	100	50/50	4.5 (50)	100	50/50
2	4.2 (50)	50/50	3.9 (50)	93	50/50	4.1 (50)	98	50/50	4.1 (50)	98	50/50
3	4.4 (50)	50/50	4.0 (50)	91	50/50	4.2 (50)	95	50/50	4.5 (50)	102	50/50
4	4.5 (50)	50/50	4.2 (49)	93	49/50	4.2 (50)	93	50/50	4.3 (50)	96	50/50
5	4.5 (50)	50/50	4.2 (49)	93	49/50	4.3 (50)	96	50/50	4.5 (50)	100	50/50
6	4.5 (50)	50/50	4.4 (49)	98	49/50	4.4 (50)	98	50/50	4.5 (50)	100	50/50
7	4.5 (50)	50/50	4.2 (49)	93	49/50	4.4 (50)	98	50/50	4.4 (50)	98	50/50
8	4.5 (50)	50/50	4.4 (49)	98	49/50	4.4 (50)	98	50/50	4.5 (50)	100	50/50
9	4.5 (50)	50/50	4.4 (49)	98	49/50	4.5 (50)	100	50/50	4.5 (50)	100	50/50
10	4.7 (50)	50/50	4.5 (49)	96	49/50	4.4 (50)	94	50/50	4.5 (50)	96	50/50
11	4.6 (50)	50/50	4.5 (49)	98	49/50	4.6 (50)	100	50/50	4.6 (50)	100	50/50
12	4.5 (50)	50/50	4.5 (49)	100	49/50	4.5 (50)	100	50/50	4.6 (50)	102	50/50
13	4.6 (50)	50/50	4.6 (49)	100	49/50	4.6 (50)	100	50/50	4.7 (50)	102	50/50
14	4.6 (50)	50/50	4.5 (49)	98	49/50	4.5 (50)	98	50/50	4.7 (50)	102	50/50
18	4.6 (50)	50/50	4.5 (49)	98	49/50	4.6 (50)	100	50/50	4.6 (50)	100	50/50
22	4.7 (50)	50/50	4.7 (47)	100	47/50	4.6 (50)	98	50/50	4.5 (50)	96	50/50
26	4.7 (50)	50/50	4.7 (47)	100	47/50	4.6 (50)	98	50/50	4.5 (50)	96	50/50
30	4.9 (50)	50/50	4.8 (47)	98	47/50	4.7 (50)	96	50/50	4.7 (50)	96	50/50
34	5.0 (50)	50/50	4.9 (47)	98	47/50	4.9 (50)	98	50/50	4.9 (50)	98	50/50
38	5.2 (50)	50/50	5.1 (47)	98	47/50	5.0 (50)	96	50/50	5.0 (50)	96	50/50
42	5.2 (50)	50/50	5.1 (47)	98	47/50	5.0 (50)	96	50/50	5.0 (50)	96	50/50
46	5.1 (50)	50/50	4.9 (47)	96	47/50	4.9 (50)	96	50/50	4.8 (50)	94	50/50
50	4.9 (50)	50/50	4.7 (46)	96	46/50	4.8 (50)	98	50/50	4.7 (50)	96	50/50
54	4.9 (50)	50/50	4.9 (46)	100	46/50	4.9 (50)	100	50/50	4.8 (50)	98	50/50
58	5.0 (50)	50/50	5.0 (46)	100	46/50	4.9 (50)	98	50/50	4.8 (50)	96	50/50
62	5.2 (50)	50/50	5.0 (46)	96	46/50	5.0 (50)	96	49/50	4.8 (50)	92	50/50
66	5.1 (50)	50/50	4.9 (46)	96	46/50	4.9 (49)	96	49/50	4.8 (49)	94	49/50
70	5.0 (50)	50/50	4.9 (46)	98	46/50	5.7 (49)	114	49/50	5.4 (49)	108	48/50
74	5.2 (50)	49/50	5.0 (46)	96	46/50	5.1 (48)	98	48/50	5.0 (46)	96	46/50
78	5.2 (49)	49/50	5.0 (45)	96	45/50	5.1 (47)	98	47/50	5.1 (46)	98	46/50
82	5.4 (49)	49/50	5.0 (45)	93	45/50	5.2 (46)	96	46/50	5.0 (45)	93	45/50
86	5.1 (49)	49/50	4.9 (44)	96	44/50	4.9 (45)	96	45/50	4.9 (42)	96	42/50
90	5.4 (48)	48/50	5.2 (41)	96	41/50	5.2 (44)	96	43/50	5.2 (41)	96	41/50
94	5.5 (46)	46/50	5.3 (40)	96	39/50	5.2 (41)	95	40/50	5.0 (38)	91	38/50
98	4.8 (45)	43/50	4.8 (38)	100	37/50	4.8 (39)	100	38/50	4.4 (36)	92	36/50
102	4.9 (42)	42/50	4.7 (35)	96	35/50	4.7 (37)	96	36/50	4.6 (32)	94	31/50
104	4.7 (41)	40/50	4.9 (34)	104	34/50	5.1 (35)	109	34/50	4.8 (31)	102	31/50

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

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

Week on Study	Control		200ppm		800ppm		3200ppm				
	Au.F.C.	No.of Surviv. <50>	Au.F.C.	% of cont. <48>	No.of Surviv.	Au.F.C.	% of cont. <50>	No.of Surviv.	Au.F.C.	% of cont. <49>	No.of Surviv.
1	4.0 (50)	50/50	3.7 (48)	93	49/49	3.9 (50)	98	50/50	4.1 (49)	103	50/50
2	3.7 (50)	50/50	3.5 (48)	95	49/49	3.5 (50)	95	50/50	3.6 (49)	97	50/50
3	4.1 (50)	50/50	3.7 (48)	90	49/49	3.9 (50)	95	50/50	4.2 (49)	102	50/50
4	4.3 (50)	50/50	4.0 (48)	93	49/49	4.0 (50)	93	50/50	4.1 (49)	95	50/50
5	4.4 (50)	50/50	4.1 (48)	93	49/49	4.1 (50)	93	50/50	4.3 (49)	98	50/50
6	4.5 (50)	50/50	4.3 (48)	96	49/49	4.3 (50)	96	50/50	4.4 (49)	98	50/50
7	4.4 (50)	50/50	4.3 (48)	98	48/48	4.3 (50)	98	50/50	4.3 (49)	98	50/50
8	4.6 (50)	50/50	4.4 (48)	96	48/48	4.3 (50)	93	50/50	4.4 (49)	96	50/50
9	4.5 (50)	50/50	4.5 (48)	100	48/48	4.4 (50)	98	50/50	4.5 (49)	100	50/50
10	4.5 (50)	50/50	4.5 (48)	100	48/48	4.3 (50)	96	50/50	4.4 (49)	98	50/50
11	4.4 (50)	50/50	4.4 (47)	100	48/48	4.4 (50)	100	50/50	4.5 (49)	102	50/50
12	4.4 (50)	50/50	4.4 (48)	100	48/48	4.3 (50)	98	50/50	4.4 (49)	100	50/50
13	4.5 (50)	50/50	4.4 (48)	98	48/48	4.4 (50)	98	50/50	4.5 (49)	100	50/50
14	4.5 (50)	50/50	4.3 (48)	96	48/48	4.3 (50)	96	50/50	4.5 (49)	100	50/50
18	4.4 (50)	50/50	4.4 (48)	100	48/48	4.3 (50)	98	50/50	4.3 (49)	98	49/49
22	4.6 (50)	50/50	4.4 (48)	96	48/48	4.4 (50)	96	50/50	4.5 (49)	98	49/49
26	4.5 (50)	50/50	4.5 (48)	100	48/48	4.4 (50)	98	50/50	4.2 (49)	93	49/49
30	4.6 (50)	50/50	4.5 (48)	98	48/48	4.3 (50)	93	50/50	4.5 (49)	98	49/49
34	4.7 (50)	50/50	4.7 (48)	100	48/48	4.5 (50)	96	50/50	4.6 (49)	98	49/49
38	4.8 (50)	50/50	4.9 (48)	102	48/48	4.7 (50)	98	50/50	4.7 (49)	98	48/49
42	4.8 (50)	50/50	4.8 (48)	100	48/48	4.7 (50)	98	50/50	4.7 (48)	98	48/49
46	4.8 (50)	50/50	4.6 (48)	96	48/48	4.4 (50)	92	50/50	4.3 (48)	90	48/49
50	4.6 (50)	50/50	4.4 (47)	96	47/48	4.4 (50)	96	50/50	4.3 (48)	93	48/49
54	4.5 (50)	50/50	4.5 (46)	100	46/48	4.4 (50)	98	50/50	4.2 (48)	93	48/49
58	4.5 (50)	50/50	4.4 (46)	98	46/48	4.4 (49)	98	49/50	4.3 (48)	96	47/49
62	4.6 (50)	50/50	4.6 (46)	100	46/48	4.6 (49)	100	49/50	4.3 (47)	93	47/49
66	4.6 (49)	49/50	4.4 (46)	96	46/48	4.3 (49)	93	49/50	4.3 (47)	93	47/49
70	4.6 (48)	48/50	4.5 (46)	98	46/48	5.2 (49)	113	49/50	5.1 (46)	111	46/49
74	4.8 (48)	48/50	4.7 (45)	98	45/48	4.5 (49)	94	48/50	4.7 (45)	98	45/49
78	4.7 (47)	47/50	4.6 (45)	98	45/48	4.6 (47)	98	45/50	4.7 (45)	100	45/49
82	4.8 (43)	43/50	4.6 (44)	96	44/48	4.7 (44)	98	44/50	4.6 (44)	96	44/49
86	4.5 (43)	43/50	4.5 (40)	100	39/48	4.4 (43)	98	43/50	4.3 (44)	96	43/49
90	4.5 (40)	40/50	4.8 (38)	107	38/48	4.7 (41)	104	41/50	4.8 (42)	107	41/49
94	4.8 (37)	37/50	4.8 (38)	100	37/48	4.8 (37)	100	36/50	4.5 (37)	94	37/49
98	4.2 (36)	35/50	4.5 (33)	107	32/48	4.4 (36)	105	36/50	4.3 (34)	102	34/49
102	4.6 (31)	31/50	4.4 (31)	96	29/48	4.3 (35)	93	33/50	4.2 (31)	91	30/49
104	4.6 (31)	29/50	4.5 (29)	98	28/48	4.7 (31)	102	29/50	4.5 (30)	98	29/49

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

Au.F.C.: g

TABLE 15 CAUSE OF DEATH:MOUSE

Group Name	Male				Female			
	Control	200ppm	800ppm	3200ppm	Control	200ppm	800ppm	3200ppm
Number of Dead/Moribund Animal	10	16	16	19	21	20	21	20
No microscopical confirmation	1	0	2	1	1	1	1	2
Renal lesion	1	0	0	0	0	0	0	0
Urinary retention	1	0	0	0	0	0	0	0
Arteritis	0	2	0	0	0	0	0	0
Hydronephrosis	1	3	0	0	1	1	1	0
Tumor death : leukemia	1	3	5	6	8	5	11	5
: subcutis	0	0	0	0	0	0	0	1
: lung	0	1	1	3	1	2	0	0
: spleen	1	2	0	0	0	0	0	1
: salivary gland	0	0	0	1	0	0	0	0
: large intestine	0	1	0	0	0	0	0	0
: liver	4	4	8	6	0	1	0	2
: pituitary gland	0	0	0	0	4	1	2	1
: epididymis	0	0	0	1	0	0	0	0
: seminal vesicle	0	0	0	1	0	0	0	0
: uterus	0	0	0	0	6	9	5	8
: bone	0	0	0	0	0	0	1	0