

テトラクロロエチレ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

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TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF TETRACHLOROETHYLENE

Two-Week Studies	Thirteen-Week Studies	Two-Year Studies
<Number of Groups> 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	50 males and 50 females of each groups
<Animals> Strain and Species F344/DuCrj(Fischer)rat Crj:BDF ₁ mouse Animal Source Charles River Japan, Inc. During of Time Held Before Study 2 wk Age When Placed on Study 6 wk Age When Killed 8 wk	F344/DuCrj(Fischer)rat Crj:BDF ₁ mouse Charles River Japan, Inc. 2 wk 6 wk 19 wk	F344/DuCrj(Fischer)rat Crj:BDF ₁ mouse Charles River Japan, Inc. 2 wk 6 wk 110 wk~111 wk
<Chamber Concentration> Rat--0, 200, 400, 800, 1600, or 3200ppm tetrachloroethylene by inhalation; mouse--0, 200, 400, 800, 1600 or 3200ppm	Rat--0, 50, 115, 265, 609, or 1400ppm tetrachloroethylene by inhalation; mouse--0, 50, 115, 265, 609, or 1400ppm	Rat--0, 50, 200, or 600ppm tetrachloroethylene by inhalation; mouse--0, 10 50, or 250ppm
<Date of First Exposure> Rat:2/18/87; mouse:3/4/87	Rat:5/7/87; mouse:5/15/87	Rat:7/21/88; mouse:8/12/88
<Date of Last Exposuure> Rat:3/3/87; mouse:3/17/87	Rat:8/5/87; mouse:8/13/87	Rat:7/18/90; mouse:8/9/90
<Duration of Exposure> 6h/d, 5d/wk for 2wk	6h/d, 5d/wk for 13wk	6h/d, 5d/wk for 104wk
<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 Animals per Cage Single (stainless steel wire) Animal Room Environment Barrier system Temperature:24 $\pm$ 2 $^{\circ}$ C Humidity :55 $\pm$ 10% Fluorescent light 12h/d 15-17 room air changes /h Chamber Environment Temperature:23~26 $^{\circ}$ C Humidity :45~70% Fluorescent light 12h/d 15 chamber air changes /h	Same as two-week studies Same as two-week studies Same as two-week studies Single (stainless steel wire) Same as two-week studies Same as two-week studies Single (stainless steel wire) Barrier system Temperature:24 $\pm$ 1 $^{\circ}$ C Humidity :55 $\pm$ 10% Flourescent light 12h/d 12~15 chamber air changes /h	Same as two-week studies Same as two-week studies Single (stainless steel wire) Barrier system Temperature:22~26 $^{\circ}$ C Humidity :45~55% Fluorescent light 12h/d 7.5~10 room air changes /h Temperature:24 $\pm$ 1 $^{\circ}$ C Humidity :55 $\pm$ 10% Flourescent light 12h/d 12~15 chamber air changes /h
<Type and Frequency of Observation> Clinical Sign Observed 1 $\times$ d Body Weight Weighed 0-0, 1-1, 1-2, 1-3, 1-7, 2-3, and 2-7(wk-d)	Observed 1 $\times$ d Weighed 1 $\times$ wk for 13wk	Observed 1 $\times$ d Weighed 1 $\times$ wk for 14wk Weighed 1 $\times$ 2wk thereafter
<Food Consumption> Weighed 1 $\times$ wk for 2wk	Weighed 1 $\times$ wk for 13wk	Weighed 1 $\times$ wk for 14wk Weighed 1 $\times$ 4wk thereafter

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF TETRACHLOROETHYLENE
(Continued)

Two-Week Studies	Thirteen-Week Studies	Two-Year Studies
<Hematology> Red blood cell(RBC), Hemoglobin, Hematocrit, Mean corpuscular volume(MCV), Mean corpuscular hemoglobin(MCH), Mean corpuscular hemoglobin concentration(MCHC) Platelete, White blood cell(WBC), Differential WBC	Same as two-week studies	Same as two-week studies
<Blood Biochemistry> Total protein, Albumin, T-bilirubin, Glucose, T-cholesterol, Glutamic oxaloacetic transaminase(GOT), Glutamic pyruvic transaminase(GPT), Lactate dehydrogenase(LDH), Creatine phosphokinase(CPK), Urea nitrgen, Creatinine<rat only>, Sodium, Potassium, Chloride, Calcium, Inorganic phosphrus.	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), Leucine aminopeptidase(LAP)<rat only>, γ-Glutamyl transpeptitase(G-GTP) <rat only>, Creatine phosphokinase(CPK), Urea nitrogen, Creatinine<rat only>, Sodium, Potassium, Chloride, Calcium Inorganic phosphorus.	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) <rat only>, γ-Glutamyl transpeptidase (G-GTP) <rat only>, Creatine phosphokinase(CPK), Urea nitrogen, Creatinine <rat only>, Sodium, Potassium, Chloride, Calcium, Inorganic phosphorus.
<Urinalysis> 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 two-week studies	Same as two-week studies
<Organ Weight> 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.	Histopathologic examination performed on all animals.	Same as thirteen-week studies
The following organs were examined: nasal cavit, nasopharynx, larynx, trachea, lung, bone marrow, lymph node, thymus, spleen, heart, stomach, small intes, large intes, liver, pancreas, kidney, pituitary, adrenal, testis, ovary, brain.	The following organs were examined :skin, nasal cavit, nasopharynx, larynx, 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, epidymis, 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 (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.Wt.	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0-0	125 (10)	10/10	125 (10)	100	10/10	125 (10)	100	10/10	125 (10)	100	10/10	125 (10)	100	10/10	125 (10)	100	10/10
1-1	128 (10)	10/10	128 (10)	100	10/10	129 (10)	101	10/10	128 (10)	100	10/10	125 (10)	98	10/10	119 (10)	93	10/10
1-2	131 (10)	10/10	132 (10)	101	10/10	133 (10)	102	10/10	130 (10)	99	10/10	124 (10)	95	10/10	115 (10)	88	10/10
1-3	135 (10)	10/10	135 (10)	100	10/10	136 (10)	101	10/10	135 (10)	100	10/10	125 (10)	93	10/10	112 (10)	83	10/10
1-7	150 (10)	10/10	151 (10)	101	10/10	152 (10)	101	10/10	150 (10)	100	10/10	138 (10)	92	10/10	117 (10)	78	10/10
2-3	163 (10)	10/10	165 (10)	101	10/10	165 (10)	101	10/10	163 (10)	100	10/10	149 (10)	91	10/10	116 (8)	71	7/10
2-7	181 (10)	10/10	182 (10)	101	10/10	180 (10)	99	10/10	180 (10)	99	10/10	166 (10)	92	10/10	125 (6)	69	5/10
< >:No.of effective animals,():No.of measured animals Au.Wt.: g																	

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

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

Week-Day on Study	Control		200 ppm		400 ppm		800 ppm		1600 ppm		3200 ppm							
	Au.Wt.	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	
0-0	102 (10)	10/10	102 (10)	100	10/10	102 (10)	100	10/10	102 (10)	100	10/10	102 (10)	100	10/10	102 (10)	100	10/10	
1-1	105 (10)	10/10	105 (10)	100	10/10	105 (10)	100	10/10	104 (10)	99	10/10	103 (10)	98	10/10	98 (10)	93	10/10	
1-2	105 (10)	10/10	106 (10)	101	10/10	106 (10)	101	10/10	105 (10)	100	10/10	102 (10)	97	10/10	96 (10)	91	10/10	
1-3	107 (10)	10/10	108 (10)	101	10/10	107 (10)	100	10/10	107 (10)	100	10/10	103 (10)	96	10/10	93 (10)	87	10/10	
1-7	114 (10)	10/10	114 (10)	100	10/10	115 (10)	101	10/10	115 (10)	101	10/10	111 (10)	97	10/10	94 (9)	82	8/10	
2-3	120 (10)	10/10	121 (10)	101	10/10	122 (10)	102	10/10	122 (10)	102	10/10	118 (10)	98	10/10	93 (7)	78	7/10	
2-7	128 (10)	10/10	130 (10)	102	10/10	129 (10)	101	10/10	129 (10)	101	10/10	127 (10)	99	10/10	102 (3)	80	3/10	

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

TABLE 4 FOOD CONSUMPTION IN MALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.FC.	No.of Surviv. <10>	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1-7	14.4 (10)	10/10	14.0 (10)	97	10/10	14.5 (10)	101	10/10	13.8 (10)	96	10/10	11.5 (10)	80	10/10	8.6 (10)	60	10/10
2-7	15.5 (10)	10/10	15.0 (10)	97	10/10	15.9 (10)	103	10/10	15.5 (10)	100	10/10	14.1 (10)	91	10/10	10.5 (6)	68	5/10

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

TABLE 5 FOOD CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.FC.	No.of Surviv. <10>	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1-7	11.3 (10)	10/10	11.0 (10)	97	10/10	11.3 (10)	100	10/10	10.7 (10)	95	10/10	10.1 (10)	89	10/10	6.8 (9)	60	8/10
2-7	10.9 (10)	10/10	11.1 (10)	102	10/10	11.1 (10)	102	10/10	11.1 (10)	102	10/10	11.5 (10)	106	10/10	8.9 (3)	82	3/10

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

TABLE 6 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.Wt.	No.of Surviv. <10>		Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0	131 (10)	10/10		131 (10)	100	10/10	131 (10)	100	10/10	131 (10)	100	10/10	131 (10)	100	10/10	131 (10)	100	10/10
1	164 (10)	10/10		159 (10)	97	10/10	162 (10)	99	10/10	162 (10)	99	10/10	160 (10)	98	10/10	150 (10)	91	10/10
2	200 (10)	10/10		192 (10)	96	10/10	194 (10)	97	10/10	195 (10)	98	10/10	195 (10)	98	10/10	181 (10)	91	10/10
3	227 (10)	10/10		219 (10)	96	10/10	221 (10)	97	10/10	222 (10)	98	10/10	221 (10)	97	10/10	207 (10)	91	10/10
4	252 (10)	10/10		243 (10)	96	10/10	244 (10)	97	10/10	246 (10)	98	10/10	246 (10)	98	10/10	231 (10)	92	10/10
5	272 (10)	10/10		262 (10)	96	10/10	263 (10)	97	10/10	267 (10)	98	10/10	265 (10)	97	10/10	250 (10)	92	10/10
6	288 (10)	10/10		278 (10)	97	10/10	278 (10)	97	10/10	283 (10)	98	10/10	281 (10)	98	10/10	265 (10)	92	10/10
7	305 (10)	10/10		295 (10)	97	10/10	294 (10)	96	10/10	298 (10)	98	10/10	298 (10)	98	10/10	280 (10)	92	10/10
8	320 (10)	10/10		308 (10)	96	10/10	309 (10)	97	10/10	314 (10)	98	10/10	314 (10)	98	10/10	294 (10)	92	10/10
9	335 (10)	10/10		321 (10)	96	10/10	321 (10)	96	10/10	330 (10)	99	10/10	328 (10)	98	10/10	307 (10)	92	10/10
10	345 (10)	10/10		331 (10)	96	10/10	330 (10)	96	10/10	339 (10)	98	10/10	337 (10)	98	10/10	316 (10)	92	10/10
11	355 (10)	10/10		340 (10)	96	10/10	339 (10)	95	10/10	349 (10)	98	10/10	346 (10)	97	10/10	327 (10)	92	10/10
12	361 (10)	10/10		348 (10)	96	10/10	349 (10)	97	10/10	357 (10)	99	10/10	357 (10)	99	10/10	337 (10)	93	10/10
13	368 (10)	10/10		355 (10)	96	10/10	357 (10)	97	10/10	367 (10)	100	10/10	366 (10)	99	10/10	345 (10)	94	10/10

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

TABLE 7 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.FC.	No.of Surviv. <10>		Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1	11.9 (10)	10/10		11.6 (10)	97	10/10	11.6 (10)	97	10/10	11.1 (10)	93	10/10	11.2 (10)	94	10/10	10.6 (10)	89	10/10
2	12.0 (10)	10/10		11.7 (10)	98	10/10	12.0 (10)	100	10/10	11.5 (10)	96	10/10	11.7 (10)	98	10/10	11.6 (10)	97	10/10
3	12.2 (10)	10/10		11.9 (10)	98	10/10	11.7 (10)	96	10/10	11.6 (10)	95	10/10	11.7 (10)	96	10/10	12.1 (10)	99	10/10
4	12.1 (10)	10/10		11.7 (10)	97	10/10	11.7 (10)	97	10/10	11.4 (10)	94	10/10	11.5 (10)	95	10/10	12.3 (10)	102	10/10
5	11.8 (10)	10/10		11.6 (10)	98	10/10	11.2 (10)	95	10/10	10.9 (10)	92	10/10	11.5 (10)	97	10/10	11.8 (10)	100	10/10
6	11.5 (10)	10/10		11.5 (10)	100	10/10	11.1 (10)	97	10/10	10.7 (10)	93	10/10	11.3 (10)	98	10/10	12.1 (10)	105	10/10
7	11.5 (10)	10/10		11.2 (10)	97	10/10	11.3 (10)	98	10/10	11.2 (10)	97	10/10	11.4 (10)	99	10/10	12.0 (10)	104	10/10
8	12.0 (10)	10/10		10.9 (10)	91	10/10	10.9 (10)	91	10/10	11.0 (10)	92	10/10	11.4 (10)	95	10/10	11.8 (10)	98	10/10
9	12.2 (10)	10/10		11.8 (10)	97	10/10	11.1 (10)	91	10/10	11.2 (10)	92	10/10	11.7 (10)	96	10/10	12.2 (10)	100	10/10
10	11.6 (10)	10/10		11.3 (10)	97	10/10	11.3 (10)	97	10/10	10.7 (10)	92	10/10	11.5 (10)	99	10/10	11.8 (10)	102	10/10
11	11.5 (10)	10/10		11.3 (10)	98	10/10	11.0 (10)	96	10/10	11.0 (10)	96	10/10	11.7 (10)	102	10/10	12.1 (10)	105	10/10
12	11.5 (10)	10/10		11.1 (10)	97	10/10	11.2 (10)	97	10/10	10.7 (10)	93	10/10	12.1 (10)	105	10/10	12.3 (10)	107	10/10
13	11.1 (10)	10/10		11.1 (10)	100	10/10	10.4 (10)	94	10/10	10.2 (10)	92	10/10	11.5 (10)	104	10/10	11.7 (10)	105	10/10

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

TABLE 8 FOOD CONSUMPTION IN MALE RAT (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.FC.	No.of Surviv. <10>		Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1	15.5 (10)	10/10		15.1 (10)	97	10/10	14.9 (10)	96	10/10	15.2 (10)	98	10/10	14.5 (10)	94	10/10	12.6 (10)	81	10/10
2	17.0 (10)	10/10		16.9 (10)	99	10/10	16.6 (10)	98	10/10	16.6 (10)	98	10/10	16.3 (10)	96	10/10	15.6 (10)	92	10/10
3	17.6 (10)	10/10		17.9 (10)	102	10/10	18.1 (10)	103	10/10	17.7 (10)	101	10/10	16.9 (10)	96	10/10	16.3 (10)	93	10/10
4	18.1 (10)	10/10		18.2 (10)	101	10/10	18.2 (10)	101	10/10	18.0 (10)	99	10/10	17.6 (10)	97	10/10	17.3 (10)	96	10/10
5	17.9 (10)	10/10		17.9 (10)	100	10/10	17.8 (10)	99	10/10	18.4 (10)	103	10/10	17.3 (10)	97	10/10	17.3 (10)	97	10/10
6	17.8 (10)	10/10		17.3 (10)	97	10/10	17.0 (10)	96	10/10	18.0 (10)	101	10/10	17.4 (10)	98	10/10	16.9 (10)	95	10/10
7	18.2 (10)	10/10		17.3 (10)	95	10/10	16.9 (10)	93	10/10	18.3 (10)	101	10/10	17.8 (10)	98	10/10	17.2 (10)	95	10/10
8	18.1 (10)	10/10		17.4 (10)	96	10/10	17.0 (10)	94	10/10	18.0 (10)	99	10/10	17.4 (10)	96	10/10	17.3 (10)	96	10/10
9	18.6 (10)	10/10		17.4 (10)	94	10/10	17.4 (10)	94	10/10	18.4 (10)	99	10/10	17.9 (10)	96	10/10	17.4 (10)	94	10/10
10	17.6 (10)	10/10		16.4 (10)	93	10/10	16.4 (10)	93	10/10	17.2 (10)	98	10/10	17.2 (10)	98	10/10	16.8 (10)	95	10/10
11	17.2 (10)	10/10		16.6 (10)	97	10/10	16.7 (10)	97	10/10	17.7 (10)	103	10/10	17.3 (10)	101	10/10	17.2 (10)	100	10/10
12	16.9 (10)	10/10		16.3 (10)	96	10/10	16.7 (10)	99	10/10	16.8 (10)	99	10/10	17.2 (10)	102	10/10	17.6 (10)	104	10/10
13	17.0 (10)	10/10		16.3 (10)	96	10/10	16.6 (10)	98	10/10	17.0 (10)	100	10/10	17.0 (10)	100	10/10	17.2 (10)	101	10/10

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

TABLE 9 FOOD CONSUMPTION IN FEMALE RAT (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.Wt.	No.of Surviv. <10>		Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
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	120 (10)	10/10		119 (10)	99	10/10	118 (10)	98	10/10	118 (10)	98	10/10	118 (10)	98	10/10	114 (10)	95	10/10
2	136 (10)	10/10		134 (10)	99	10/10	132 (10)	97	10/10	132 (10)	97	10/10	132 (10)	97	10/10	131 (10)	96	10/10
3	147 (10)	10/10		146 (10)	99	10/10	143 (10)	97	10/10	144 (10)	98	10/10	144 (10)	98	10/10	144 (10)	98	10/10
4	157 (10)	10/10		155 (10)	99	10/10	153 (10)	97	10/10	152 (10)	97	10/10	152 (10)	97	10/10	155 (10)	99	10/10
5	167 (10)	10/10		164 (10)	98	10/10	160 (10)	96	10/10	160 (10)	96	10/10	161 (10)	96	10/10	164 (10)	98	10/10
6	171 (10)	10/10		171 (10)	100	10/10	166 (10)	97	10/10	166 (10)	97	10/10	168 (10)	98	10/10	171 (10)	100	10/10
7	179 (10)	10/10		177 (10)	99	10/10	172 (10)	96	10/10	173 (10)	97	10/10	173 (10)	97	10/10	178 (10)	99	10/10
8	186 (10)	10/10		181 (10)	97	10/10	178 (10)	96	10/10	181 (10)	97	10/10	181 (10)	97	10/10	184 (10)	99	10/10
9	192 (10)	10/10		189 (10)	98	10/10	183 (10)	95	10/10	186 (10)	97	10/10	186 (10)	97	10/10	190 (10)	99	10/10
10	199 (10)	10/10		194 (10)	97	10/10	189 (10)	95	10/10	189 (10)	95	10/10	193 (10)	97	10/10	196 (10)	98	10/10
11	203 (10)	10/10		198 (10)	98	10/10	193 (10)	95	10/10	194 (10)	96	10/10	199 (10)	98	10/10	200 (10)	99	10/10
12	208 (10)	10/10		202 (10)	97	10/10	198 (10)	95	10/10	197 (10)	95	10/10	204 (10)	98	10/10	206 (10)	99	10/10
13	210 (10)	10/10		204 (10)	97	10/10	199 (10)	95	10/10	199 (10)	95	10/10	208 (10)	99	10/10	207 (10)	99	10/10

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

TABLE 10 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT

(TWO-YEAR STUDIES)

Week on Study	Control		50 ppm		200 ppm		600 ppm				
	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	127 (50)	50/50	127 (50)	100	50/50	127 (50)	100	50/50	127 (50)	100	50/50
1	160 (50)	50/50	160 (50)	100	50/50	159 (50)	99	50/50	158 (50)	99	50/50
2	196 (50)	50/50	193 (50)	98	50/50	193 (50)	98	50/50	193 (50)	98	50/50
3	223 (50)	50/50	221 (50)	99	50/50	219 (50)	98	50/50	220 (50)	99	50/50
4	247 (50)	50/50	244 (50)	99	50/50	242 (50)	98	50/50	243 (50)	98	50/50
5	266 (50)	50/50	263 (50)	99	50/50	261 (50)	98	50/50	262 (50)	98	50/50
6	282 (50)	50/50	279 (50)	99	50/50	275 (50)	98	50/50	277 (50)	98	50/50
7	299 (50)	50/50	296 (50)	99	50/50	293 (50)	98	50/50	292 (50)	98	50/50
8	314 (50)	50/50	311 (50)	99	50/50	307 (50)	98	50/50	305 (50)	97	50/50
9	328 (50)	50/50	325 (50)	99	50/50	318 (50)	97	50/50	318 (50)	97	50/50
10	338 (50)	50/50	335 (50)	99	50/50	329 (50)	97	50/50	328 (50)	97	50/50
11	346 (50)	50/50	344 (50)	99	50/50	337 (50)	97	50/50	338 (50)	98	50/50
12	355 (50)	50/50	353 (50)	99	50/50	348 (50)	98	50/50	347 (50)	98	50/50
13	364 (50)	50/50	362 (50)	99	50/50	357 (50)	98	50/50	355 (50)	98	50/50
14	371 (50)	50/50	368 (50)	99	50/50	364 (50)	98	50/50	361 (50)	97	50/50
16	382 (50)	50/50	381 (50)	100	50/50	379 (50)	99	50/50	375 (50)	98	50/50
18	393 (50)	50/50	393 (50)	100	50/50	390 (50)	99	50/50	386 (50)	98	50/50
20	405 (50)	50/50	404 (50)	100	50/50	400 (50)	99	50/50	392 (50)	97	50/50
22	417 (50)	50/50	414 (50)	99	50/50	411 (50)	99	50/50	403 (50)	97	50/50
24	425 (50)	50/50	422 (50)	99	50/50	419 (50)	99	50/50	413 (50)	97	50/50
26	432 (50)	50/50	431 (50)	100	50/50	425 (50)	99	50/50	418 (50)	97	50/50
28	437 (50)	50/50	437 (50)	100	50/50	431 (50)	99	50/50	420 (50)	96	50/50
30	447 (50)	50/50	445 (50)	100	50/50	438 (50)	98	50/50	427 (50)	96	50/50
32	455 (50)	50/50	455 (50)	100	50/50	447 (50)	98	50/50	437 (50)	96	50/50
34	460 (50)	50/50	461 (50)	100	50/50	452 (50)	98	50/50	442 (50)	96	50/50
36	465 (50)	50/50	466 (50)	100	50/50	458 (50)	98	50/50	449 (50)	97	50/50
38	471 (50)	50/50	472 (50)	100	50/50	461 (50)	98	50/50	454 (50)	96	50/50
40	475 (50)	50/50	477 (50)	100	50/50	465 (50)	98	50/50	457 (50)	96	50/50
42	480 (50)	50/50	480 (50)	100	50/50	469 (50)	98	50/50	462 (50)	96	50/50
44	488 (50)	50/50	485 (50)	99	50/50	475 (50)	97	50/50	467 (50)	96	50/50
46	487 (50)	50/50	486 (50)	100	50/50	476 (50)	98	50/50	467 (50)	96	50/50
48	484 (50)	50/50	484 (50)	100	50/50	477 (50)	99	50/50	468 (50)	97	50/50
50	490 (50)	50/50	489 (50)	100	50/50	480 (50)	98	50/50	471 (50)	96	50/50
52	490 (50)	50/50	487 (50)	99	50/50	479 (50)	98	50/50	471 (50)	96	50/50
54	491 (50)	50/50	487 (50)	99	50/50	481 (50)	98	50/50	475 (50)	97	50/50
56	496 (50)	50/50	492 (50)	99	50/50	485 (50)	98	50/50	475 (50)	96	50/50
58	500 (50)	50/50	495 (50)	99	50/50	488 (50)	98	50/50	478 (50)	96	50/50
60	503 (50)	50/50	499 (50)	99	50/50	490 (50)	97	50/50	479 (50)	95	50/50
62	505 (50)	50/50	503 (50)	100	50/50	493 (50)	98	50/50	480 (50)	95	50/50
64	507 (50)	50/50	502 (50)	99	50/50	494 (50)	97	50/50	481 (49)	95	49/50
66	509 (50)	50/50	505 (49)	99	49/50	496 (50)	97	50/50	482 (49)	95	49/50
68	509 (50)	50/50	507 (48)	100	48/50	497 (50)	98	50/50	482 (49)	95	49/50
70	510 (50)	50/50	507 (48)	99	48/50	499 (49)	98	49/50	484 (49)	95	49/50
72	509 (50)	50/50	507 (48)	100	48/50	498 (49)	98	49/50	484 (49)	95	49/50
74	508 (50)	50/50	506 (48)	100	48/50	501 (48)	99	48/50	483 (49)	95	49/50
76	507 (50)	50/50	507 (48)	100	48/50	506 (48)	100	48/50	486 (49)	96	49/50
78	499 (50)	50/50	501 (48)	100	48/50	488 (47)	98	47/50	476 (49)	95	49/50
80	495 (50)	50/50	497 (48)	100	48/50	487 (46)	98	46/50	469 (49)	95	49/50
82	491 (50)	50/50	491 (47)	100	47/50	484 (46)	99	46/50	467 (46)	95	46/50
84	494 (48)	48/50	488 (47)	99	47/50	481 (46)	97	46/50	467 (45)	95	45/50
86	493 (47)	47/50	485 (47)	98	47/50	479 (45)	97	45/50	461 (45)	94	44/50
88	489 (46)	46/50	483 (47)	99	47/50	479 (45)	98	45/50	462 (44)	94	44/50
90	487 (45)	45/50	482 (46)	99	46/50	472 (45)	97	45/50	461 (43)	95	43/50
92	479 (44)	43/50	480 (44)	100	44/50	467 (44)	97	44/50	459 (42)	96	42/50
94	481 (41)	41/50	477 (44)	99	44/50	457 (44)	95	44/50	446 (42)	93	42/50
96	477 (41)	41/50	474 (44)	99	44/50	453 (42)	95	41/50	443 (39)	93	39/50
98	478 (40)	40/50	468 (43)	98	43/50	453 (40)	95	40/50	438 (37)	92	36/50
100	474 (40)	40/50	461 (42)	97	41/50	445 (38)	94	37/50	434 (34)	92	33/50
102	467 (40)	40/50	454 (37)	97	37/50	456 (33)	98	33/50	433 (32)	93	32/50
104	459 (38)	37/50	445 (35)	97	34/50	454 (32)	99	30/50	425 (28)	95	28/50

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

Au.Wt.: g

TABLE 11 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT
(TWO-YEAR STUDIES)

Week on Study	Control		50 ppm		No.of Surviv.	200 ppm		No.of Surviv.	600 ppm		No.of Surviv.
	Au.Wt.	No.of Surviv. <50>	Au.Wt.	% of cont. <50>		Au.Wt.	% of cont. <50>		Au.Wt.	% of cont. <50>	
0	101 (50)	50/50	101 (50)	100	50/50	101 (50)	100	50/50	101 (50)	100	50/50
1	116 (50)	50/50	116 (50)	100	50/50	115 (50)	99	50/50	114 (50)	98	50/50
2	131 (50)	50/50	130 (50)	99	50/50	130 (50)	99	50/50	129 (50)	98	50/50
3	143 (50)	50/50	142 (50)	99	50/50	140 (50)	98	50/50	140 (50)	98	50/50
4	153 (50)	50/50	150 (50)	98	50/50	148 (50)	97	50/50	149 (50)	97	50/50
5	161 (50)	50/50	158 (50)	98	50/50	157 (50)	98	50/50	158 (50)	98	50/50
6	168 (50)	50/50	165 (50)	98	50/50	163 (50)	97	50/50	164 (50)	98	50/50
7	174 (50)	50/50	172 (50)	99	50/50	169 (50)	97	50/50	171 (50)	98	50/50
8	179 (50)	50/50	177 (50)	99	50/50	174 (50)	97	50/50	176 (50)	98	50/50
9	184 (50)	50/50	184 (50)	100	50/50	179 (50)	97	50/50	181 (50)	98	50/50
10	189 (50)	50/50	188 (50)	99	50/50	184 (50)	97	50/50	185 (50)	98	50/50
11	192 (50)	50/50	191 (50)	99	50/50	186 (50)	97	50/50	189 (50)	98	50/50
12	196 (50)	50/50	196 (50)	100	50/50	192 (50)	98	50/50	193 (50)	98	50/50
13	199 (50)	50/50	200 (50)	101	50/50	195 (50)	98	50/50	196 (50)	98	50/50
14	202 (50)	50/50	202 (50)	100	50/50	198 (50)	98	50/50	198 (50)	98	50/50
16	207 (50)	50/50	207 (50)	100	50/50	203 (50)	98	50/50	204 (50)	99	50/50
18	211 (50)	50/50	212 (50)	100	50/50	207 (50)	98	50/50	210 (50)	100	50/50
20	216 (50)	50/50	218 (50)	101	50/50	212 (50)	98	50/50	212 (50)	98	50/50
22	222 (50)	50/50	224 (50)	101	50/50	218 (50)	98	50/50	218 (50)	98	50/50
24	226 (50)	50/50	228 (50)	101	50/50	222 (50)	98	50/50	225 (50)	100	50/50
26	230 (50)	50/50	233 (50)	101	50/50	225 (50)	98	50/50	226 (50)	98	50/50
28	232 (50)	50/50	233 (50)	100	50/50	226 (50)	97	50/50	227 (50)	98	50/50
30	236 (50)	50/50	237 (50)	100	50/50	230 (50)	97	50/50	231 (50)	98	50/50
32	241 (50)	50/50	241 (50)	100	50/50	233 (50)	97	50/50	235 (50)	98	50/50
34	245 (50)	50/50	246 (50)	100	50/50	237 (50)	97	50/50	237 (50)	97	50/50
36	249 (50)	50/50	250 (50)	100	50/50	240 (50)	96	50/50	241 (50)	97	50/50
38	252 (50)	50/50	254 (50)	101	50/50	243 (50)	96	50/50	244 (50)	97	50/50
40	255 (50)	50/50	256 (50)	100	50/50	245 (50)	96	50/50	246 (50)	96	50/50
42	257 (50)	50/50	259 (50)	101	50/50	246 (50)	96	50/50	248 (50)	96	50/50
44	261 (50)	50/50	262 (50)	100	50/50	249 (50)	95	50/50	252 (50)	97	50/50
46	263 (50)	50/50	265 (50)	101	50/50	252 (50)	96	50/50	253 (50)	96	50/50
48	261 (50)	50/50	263 (50)	101	50/50	252 (50)	97	50/50	254 (50)	97	50/50
50	267 (50)	50/50	268 (50)	100	50/50	255 (50)	96	50/50	255 (50)	96	50/50
52	271 (50)	50/50	272 (50)	100	50/50	259 (50)	96	50/50	259 (50)	96	50/50
54	274 (50)	50/50	273 (50)	100	50/50	263 (50)	96	50/50	262 (50)	96	50/50
56	279 (50)	50/50	278 (50)	100	50/50	266 (50)	95	50/50	264 (50)	95	50/50
58	282 (50)	50/50	283 (50)	100	50/50	270 (50)	96	50/50	267 (50)	95	50/50
60	286 (50)	50/50	285 (50)	100	50/50	271 (50)	95	50/50	269 (50)	94	50/50
62	289 (50)	50/50	289 (50)	100	50/50	274 (50)	95	50/50	271 (50)	94	50/50
64	291 (50)	50/50	289 (50)	99	50/50	275 (50)	95	50/50	273 (50)	94	50/50
66	295 (50)	50/50	295 (49)	100	49/50	279 (50)	95	50/50	277 (50)	94	50/50
68	298 (50)	50/50	298 (49)	100	49/50	281 (50)	94	50/50	278 (50)	93	50/50
70	303 (50)	50/50	302 (48)	100	48/50	285 (48)	94	48/50	283 (49)	93	49/50
72	304 (50)	50/50	304 (48)	100	48/50	285 (48)	94	48/50	285 (49)	94	49/50
74	307 (50)	50/50	306 (47)	100	47/50	289 (47)	94	47/50	284 (49)	93	49/50
76	308 (50)	50/50	307 (47)	100	47/50	286 (47)	93	47/50	287 (49)	93	49/50
78	303 (50)	50/50	302 (47)	100	47/50	281 (47)	93	47/50	277 (49)	91	49/50
80	301 (50)	50/50	304 (46)	101	46/50	276 (46)	92	46/50	274 (48)	91	48/50
82	299 (49)	49/50	300 (46)	100	46/50	276 (46)	92	46/50	272 (47)	91	47/50
84	299 (49)	49/50	300 (46)	100	46/50	275 (45)	92	45/50	273 (46)	91	46/50
86	301 (49)	49/50	298 (46)	99	46/50	277 (45)	92	45/50	272 (46)	90	45/50
88	311 (49)	49/50	303 (45)	97	45/50	283 (45)	91	45/50	288 (45)	93	45/50
90	317 (49)	49/50	314 (42)	99	42/50	292 (42)	92	42/50	295 (45)	93	45/50
92	319 (49)	49/50	318 (42)	100	42/50	294 (41)	92	40/50	298 (44)	93	44/50
94	322 (48)	48/50	319 (41)	99	41/50	296 (40)	92	40/50	291 (42)	90	42/50
96	323 (48)	48/50	317 (41)	98	40/50	298 (39)	92	38/50	290 (42)	90	42/50
98	322 (48)	48/50	319 (37)	99	37/50	301 (38)	93	38/50	288 (41)	89	41/50
100	328 (46)	46/50	317 (37)	97	37/50	302 (37)	92	38/50	294 (38)	90	38/50
102	328 (45)	45/50	314 (37)	96	37/50	305 (36)	93	36/50	296 (36)	90	36/50
104	326 (43)	42/50	321 (34)	98	34/50	303 (35)	93	34/50	299 (34)	92	34/50

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

Au.Wt.: g

TABLE 12 INCIDENCE AND TIME OF MASS OCCURRENCE(CLINICAL OBSERVATION) :RAT :MALE

		Dosing week								
Time of mass occurrence		0~13	14~26	27~39	40~52	53~65	66~78	79~91	92~104	0~104
The kind of mass		No. of animals with mass (No. of dead and moribund animals with mass)								
Internal mass										
	Control	0	0	0	0	0	0	0	3	3 (1)
	50 ppm	0	0	0	0	0	0	3	2	5 (4)
	200 ppm	0	0	0	0	1	0	1	6	7 (6)
	600 ppm	0	0	0	0	0	1	4	10	13(11)
External mass										
	Control	0	0	0	0	10	13	11	13	27 (8)
	50 ppm	0	0	0	0	7	10	12	17	30(15)
	200 ppm	0	0	0	0	14	23	18	20	36(13)
	600 ppm	0	0	0	0	4	9	19	23	29(11)

TABLE 13 INCIDENCE AND TIME OF MASS OCCURRENCE(CLINICAL OBSERVATION) :RAT :FEMALE

		Dosing week								
Time of mass occurrence		0~13	14~26	27~39	40~52	53~65	66~78	79~91	92~104	0~104
The kind of mass		No. of animals with mass (No. of dead and moribund animals with mass)								
Internal mass										
	Control	0	0	0	0	0	0	1	3	4(3)
	50 ppm	0	0	0	0	1	0	5	4	10(8)
	200 ppm	0	0	0	0	0	1	4	5	8(6)
	600 ppm	0	0	0	0	0	1	2	6	8(7)
External mass										
	Control	0	0	0	0	0	0	3	5	5(1)
	50 ppm	0	0	0	0	1	4	8	12	14(5)
	200 ppm	0	0	0	0	2	1	5	6	8(2)
	600 ppm	0	0	0	0	2	5	4	2	8(5)

(Study No. 0104, 0105)

TABLE 14 FOOD CONSUMPTION IN MALE RAT (TWO-YEAR STUDIES)

Week on Study	Control		50 ppm		No. of Surviv.	200 ppm		No. of Surviv.	600 ppm		No. of Surviv.
	Au.FC.	No. of Surviv. <50>	Au.FC.	% of cont. <50>		Au.FC.	% of cont. <50>		Au.FC.	% of cont. <50>	
1	15.1 (50)	50/50	14.8 (50)	98	50/50	14.5 (50)	96	50/50	14.3 (50)	95	50/50
2	17.3 (50)	50/50	16.9 (50)	98	50/50	16.6 (50)	96	50/50	16.9 (49)	98	50/50
3	18.1 (50)	50/50	17.8 (50)	98	50/50	17.1 (50)	94	50/50	17.4 (50)	96	50/50
4	18.5 (50)	50/50	18.4 (50)	99	50/50	17.7 (50)	96	50/50	18.3 (50)	99	50/50
5	18.9 (50)	50/50	18.6 (50)	98	50/50	18.1 (50)	96	50/50	18.6 (50)	98	50/50
6	18.5 (50)	50/50	18.3 (50)	99	50/50	18.0 (50)	97	50/50	18.4 (50)	99	50/50
7	18.9 (50)	50/50	18.6 (50)	98	50/50	18.0 (50)	95	50/50	18.3 (50)	97	50/50
8	18.9 (50)	50/50	18.4 (50)	97	50/50	18.1 (50)	96	50/50	18.5 (50)	98	50/50
9	19.0 (50)	50/50	18.5 (50)	97	50/50	18.0 (50)	95	50/50	18.2 (50)	96	50/50
10	18.8 (50)	50/50	18.5 (50)	98	50/50	17.9 (50)	95	50/50	18.5 (50)	98	50/50
11	18.4 (50)	50/50	17.9 (50)	97	50/50	17.9 (50)	97	50/50	18.5 (50)	101	50/50
12	18.4 (50)	50/50	18.3 (50)	99	50/50	18.2 (50)	99	50/50	18.7 (50)	102	50/50
13	18.8 (50)	50/50	18.2 (50)	97	50/50	18.1 (50)	96	50/50	18.2 (50)	97	50/50
14	17.9 (50)	50/50	17.6 (50)	98	50/50	17.7 (50)	99	50/50	17.9 (50)	100	50/50
18	18.6 (50)	50/50	18.2 (50)	98	50/50	18.0 (50)	97	50/50	18.5 (50)	99	50/50
22	19.1 (50)	50/50	18.6 (50)	97	50/50	18.2 (50)	95	50/50	18.3 (50)	96	50/50
26	19.0 (50)	50/50	18.8 (50)	99	50/50	18.6 (50)	98	50/50	18.6 (50)	98	50/50
30	19.4 (50)	50/50	19.1 (50)	98	50/50	19.0 (50)	98	50/50	18.7 (50)	96	50/50
34	19.1 (50)	50/50	18.8 (50)	98	50/50	19.0 (50)	99	50/50	19.0 (50)	99	50/50
38	18.7 (50)	50/50	18.6 (50)	99	50/50	18.0 (50)	96	50/50	18.5 (50)	99	50/50
42	19.3 (50)	50/50	18.8 (50)	97	50/50	18.8 (50)	97	50/50	19.0 (50)	98	50/50
46	18.1 (50)	50/50	18.0 (50)	99	50/50	18.1 (50)	100	50/50	18.1 (50)	100	50/50
50	18.4 (50)	50/50	18.5 (50)	101	50/50	18.3 (50)	99	50/50	18.0 (50)	98	50/50
52	17.9 (50)	50/50	17.5 (50)	98	50/50	17.9 (50)	100	50/50	18.0 (50)	101	50/50
54	17.8 (50)	50/50	17.6 (50)	99	50/50	18.0 (50)	101	50/50	18.1 (50)	102	50/50
58	18.5 (50)	50/50	18.5 (50)	100	50/50	18.5 (50)	100	50/50	18.0 (50)	97	50/50
62	19.0 (50)	50/50	18.8 (50)	99	50/50	18.7 (50)	98	50/50	18.2 (50)	96	50/50
66	19.0 (50)	50/50	18.8 (49)	99	49/50	18.7 (50)	98	50/50	18.3 (49)	96	49/50
70	18.7 (50)	50/50	18.7 (48)	100	48/50	18.4 (49)	98	49/50	18.5 (49)	99	49/50
74	18.7 (50)	50/50	18.5 (48)	99	48/50	18.6 (48)	99	48/50	18.8 (49)	101	49/50
78	17.8 (50)	50/50	17.6 (48)	99	48/50	17.7 (46)	99	47/50	17.6 (49)	99	49/50
82	17.5 (50)	50/50	17.7 (47)	101	47/50	17.9 (46)	102	46/50	16.9 (48)	97	46/50
86	17.4 (48)	47/50	17.5 (47)	101	47/50	17.7 (46)	102	45/50	17.4 (45)	100	44/50
90	18.6 (46)	45/50	18.3 (46)	98	46/50	17.8 (45)	96	45/50	18.2 (43)	98	43/50
94	16.9 (42)	41/50	18.0 (44)	107	44/50	17.0 (44)	101	44/50	17.2 (42)	102	42/50
98	17.8 (40)	40/50	16.8 (43)	94	43/50	17.3 (40)	97	40/50	17.1 (37)	96	36/50
102	17.2 (40)	40/50	16.7 (39)	97	37/50	17.5 (33)	102	33/50	17.4 (32)	101	32/50
104	16.4 (39)	37/50	17.5 (35)	107	34/50	17.7 (32)	108	30/50	17.4 (29)	106	28/50

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

Au.FC.: g

TABLE 15 FOOD CONSUMPTION IN FEMALE RAT (TWO-YEAR STUDIES)

Week on Study	Control			50 ppm			200 ppm			600 ppm		
	Au.FC.	No.of Surviv. <50>		Au.FC.	% of cont. <50>	No.of Surviv.	Au.FC.	% of cont. <50>	No.of Surviv.	Au.FC.	% of cont. <50>	No.of Surviv.
1	11.3 (50)	50/50		11.0 (50)	97	50/50	10.9 (50)	96	50/50	10.7 (50)	95	50/50
2	11.7 (50)	50/50		11.5 (50)	98	50/50	11.3 (50)	97	50/50	11.5 (50)	98	50/50
3	11.7 (50)	50/50		11.5 (50)	98	50/50	11.2 (50)	96	50/50	11.3 (50)	97	50/50
4	11.9 (50)	50/50		11.6 (50)	97	50/50	11.4 (50)	96	50/50	11.9 (50)	100	50/50
5	11.8 (49)	50/50		11.7 (50)	99	50/50	11.5 (49)	97	50/50	11.7 (50)	99	50/50
6	12.0 (50)	50/50		11.5 (50)	96	50/50	11.6 (50)	97	50/50	11.6 (50)	97	50/50
7	12.0 (50)	50/50		11.8 (50)	98	50/50	11.4 (50)	95	50/50	11.6 (49)	97	50/50
8	11.8 (50)	50/50		11.8 (50)	98	50/50	11.4 (50)	97	50/50	11.7 (50)	99	50/50
9	11.8 (50)	50/50		12.2 (50)	103	50/50	11.6 (50)	98	50/50	11.8 (50)	100	50/50
10	11.9 (50)	50/50		11.9 (50)	100	50/50	11.4 (49)	96	50/50	11.7 (50)	98	50/50
11	11.2 (50)	50/50		11.3 (50)	101	50/50	11.0 (50)	98	50/50	11.3 (50)	101	50/50
12	12.0 (50)	50/50		12.3 (50)	103	50/50	11.8 (50)	98	50/50	12.2 (50)	102	50/50
13	12.0 (50)	50/50		12.3 (50)	103	50/50	12.1 (50)	101	50/50	11.9 (50)	99	50/50
14	12.0 (50)	50/50		11.6 (50)	97	50/50	11.7 (50)	98	50/50	11.6 (50)	97	50/50
18	12.0 (50)	50/50		12.3 (50)	103	50/50	12.0 (50)	100	50/50	12.3 (50)	103	50/50
22	12.5 (50)	50/50		12.6 (50)	101	50/50	12.1 (50)	97	50/50	12.4 (50)	99	50/50
26	12.8 (50)	50/50		13.2 (50)	103	50/50	12.2 (50)	95	50/50	12.5 (50)	98	50/50
30	12.5 (50)	50/50		12.6 (50)	101	50/50	12.5 (50)	100	50/50	12.4 (50)	99	50/50
34	12.8 (50)	50/50		13.0 (50)	102	50/50	12.9 (50)	101	50/50	12.4 (50)	97	50/50
38	12.7 (50)	50/50		13.0 (50)	102	50/50	12.2 (49)	96	50/50	12.3 (50)	97	50/50
42	12.5 (50)	50/50		12.5 (50)	100	50/50	12.0 (50)	96	50/50	12.6 (50)	101	50/50
46	12.5 (50)	50/50		12.7 (49)	102	50/50	12.3 (50)	98	50/50	12.2 (50)	98	50/50
50	13.0 (50)	50/50		13.5 (50)	104	50/50	12.8 (50)	98	50/50	12.3 (50)	95	50/50
52	12.6 (50)	50/50		12.6 (50)	100	50/50	12.4 (50)	98	50/50	12.5 (50)	99	50/50
54	12.1 (50)	50/50		12.2 (50)	101	50/50	12.4 (50)	102	50/50	12.4 (49)	102	50/50
58	12.6 (50)	50/50		12.9 (50)	102	50/50	12.9 (50)	102	50/50	12.7 (50)	101	50/50
62	13.0 (50)	50/50		13.3 (50)	102	50/50	13.0 (50)	100	50/50	13.0 (50)	100	50/50
66	13.2 (50)	50/50		13.2 (50)	100	49/50	13.2 (50)	100	50/50	13.4 (50)	102	50/50
70	13.7 (50)	50/50		13.6 (49)	99	48/50	12.9 (49)	94	48/50	13.6 (50)	99	49/50
74	13.3 (49)	50/50		13.5 (47)	102	47/50	13.5 (47)	102	47/50	13.4 (49)	101	49/50
78	11.9 (50)	50/50		11.9 (46)	100	47/50	11.7 (47)	98	47/50	11.5 (49)	97	49/50
82	12.4 (49)	49/50		12.8 (46)	103	46/50	12.4 (46)	100	46/50	12.5 (43)	101	47/50
86	12.9 (49)	49/50		12.5 (46)	97	46/50	12.7 (44)	98	45/50	12.7 (46)	98	45/50
90	14.8 (49)	49/50		14.5 (43)	98	42/50	14.0 (43)	95	42/50	14.8 (45)	100	45/50
94	14.3 (48)	48/50		14.5 (40)	101	41/50	14.0 (40)	98	40/50	14.4 (42)	101	42/50
98	13.6 (48)	48/50		14.5 (36)	107	37/50	14.2 (38)	104	38/50	13.7 (41)	101	41/50
102	13.3 (46)	45/50		13.7 (36)	103	37/50	13.9 (36)	105	36/50	13.5 (37)	102	36/50
104	12.9 (44)	42/50		14.6 (35)	113	34/50	14.3 (35)	111	34/50	14.2 (33)	110	34/50

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

Au.FC.: g

TABLE 16 NEOPLASTIC LESIONS (SPLEEN) INCIDENCE AND STATISTICAL ANALYSIS : RAT : MALE

Group Name	Control	50 ppm	200 ppm	600 ppm
SITE : spleen				
TUMOUR : mononuclear cell leukemia				
Overall Rates(a)	11/50 (22.0)	14/50 (28.0)	22/50 (44.0)	27/50 (54.0)
Adjusted Rates(b)	24.32	17.65	40.00	42.86
Terminal Rates(c)	9/37 (24.3)	6/34 (17.6)	12/30 (40.0)	12/28 (42.9)
Standard Rates(d)	P=0.0022**			
Prevalence Rates(d)	P=0.0104*			
Combind analysis(d)	P=0.0001**			
Cochran-Armitage Test(e)	P=0.0005**			
Fisher Exact Test(e)		P=0.3777	P=0.0707	P=0.0201*

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

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : spleen				
TUMOUR : hemangioendothelioma				
Overall Rates(a)	10/50 (20.0)	17/50 (34.0)	16/50 (32.0)	19/50 (38.0)
Adjusted Rates(b)	14.29	20.59	22.50	20.59
Terminal Rates(c)	6/42 (14.3)	7/34 (20.6)	7/34 (20.6)	7/34 (20.6)
Standard Rates(d)	P=0.0486*			
Prevalence Rates(d)	P=0.3153			
Combind analysis(d)	P=0.0571			
Cochran-Armitage Test(e)	P=0.1397			
Fisher Exact Test(e)		P=0.1636	P=0.2039	P=0.1027

(a):Number of tumor-bearing animals/number of animals examined at the site.

(b):Kaplan-Meire estimate tumor incidence at the end of study after adjusting for intercurrent mortality.

(c):Observed tumor incidence at terminal kill.

(d):Beneath the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combind analysis : Death analysis + Incidental tumor test

(e):The Cochran-Armitage and Fisher's exact test compare directly the overall incidence rates.

? :The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value beyond the estimated P-value.

-----:There is no data which should be statistic analysis.

TABLE 18 NUMBER OF RAT WITH SELECTED LIVER LESIONS

Group	Male				Female			
	Control	50ppm	200ppm	600ppm	Control	50ppm	200ppm	600ppm
Number of examined	50	50	50	50	50	50	50	50
Spongiosis hepatitis	5	4	10	16	0	0	0	0
Hyperplasia	4	2	5	13	2	1	5	1
Clear cell focus	3	1	0	1	1	0	0	1
Acidphilic cell focus	1	0	1	0	0	0	0	0
Basophilic cell focus	4	3	0	4	1	1	2	0
Vacuolic cell focus	0	2	1	1	0	0	0	2
Mixed cell focus	4	3	1	1	0	0	0	2
Hepatocellular adenoma	3	0	0	2	0	0	1	0
Cholangiocellular adenoma	1	0	0	0	1	0	0	0
Cholangiocellular carcinoma	1	0	1	0	0	0	0	0

TABLE 19 NUMBER OF RAT WITH SELECTED KIDNEY LESIONS

Group	Male				Female			
	Control	50ppm	200ppm	600ppm	Control	50ppm	200ppm	600ppm
Number of examined	50	50	50	50	50	50	50	50
Nuclear enlargement:								
proximal tubule	0	0	23	48	0	0	1	18
Atypical tubular dilation:								
proximal tubule	0	0	0	24	0	0	0	6
Liposarcoma	0	0	0	1	0	0	0	0
Renal cell adenoma	1	2	1	2	1	0	0	0
Renal cell carcinoma	0	0	0	0	0	0	0	1

TABLE 20 CAUSE OF DEATH :RAT

Group	Male				Female			
	Control	50ppm	200ppm	600ppm	Control	50ppm	200ppm	600ppm
Number of dead/moriboud animal	13	16	20	22	8	16	16	16
Renal lesion	1	0	2	0	0	0	1	0
Chronic nephropathy	0	0	0	1	0	0	0	0
Tumor death : leukemia	3	8	9	14	4	10	7	12
: subcutis	0	1	2	1	0	0	0	1
: spleen	0	0	0	0	1	0	0	0
: small intestine	0	0	0	1	0	0	1	0
: kidney	0	0	0	2	0	0	0	0
: pituitary gland	4	2	4	1	3	1	2	3
: thyroid	0	0	0	0	0	1	0	0
: adrenal	1	1	0	1	0	1	0	0
: uterus	0	0	0	0	0	1	3	0
: mammary gland	1	0	0	0	0	1	0	0
: prep./cli. gland	0	0	1	0	0	1	1	0
: brain	1	0	0	0	0	0	1	0
: Zymbal gland	0	1	1	0	8	8	8	9
: muscle	1	0	0	0	0	0	1	0
: bone	0	1	1	1	5	2	2	2
: pleura	1	0	0	0	1	0	0	0
: mediastinum	0	1	0	0	1	2	2	1
: peritoneum	0	1	0	0	0	0	0	0

TABLE 21 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.Wt. <10>	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0-0	23.1 (10)	10/10	23.1 (10)	100	10/10	23.1 (10)	100	10/10	23.1 (10)	100	10/10	23.1 (10)	100	10/10	23.1 (10)	100	10/10
1-1	22.4 (10)	10/10	22.6 (10)	101	10/10	22.7 (10)	101	10/10	22.5 (10)	100	10/10	22.2 (10)	99	10/10	21.8 (10)	97	9/10
1-2	22.7 (10)	10/10	23.4 (10)	103	10/10	23.2 (10)	102	10/10	22.8 (10)	100	10/10	21.9 (10)	96	10/10	21.1 (9)	93	5/10
1-3	23.1 (10)	10/10	23.5 (10)	102	10/10	23.6 (10)	102	10/10	23.4 (10)	101	10/10	22.1 (10)	96	10/10	21.2 (5)	92	5/10
1-7	23.7 (10)	10/10	24.3 (10)	103	10/10	24.4 (10)	103	10/10	24.4 (10)	103	10/10	23.1 (10)	97	10/10	22.1 (1)	93	1/10
2-3	23.9 (10)	10/10	24.9 (10)	104	10/10	24.9 (10)	104	10/10	25.0 (10)	105	10/10	23.5 (10)	98	10/10	22.3 (1)	93	1/10
2-7	24.5 (10)	10/10	25.2 (10)	103	10/10	25.3 (10)	103	10/10	25.3 (10)	103	10/10	24.0 (10)	98	10/10	23.3 (1)	95	1/10

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

TABLE 22 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.Wt. <10>	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0-0	19.2 (10)	10/10	19.2 (10)	100	10/10	19.2 (10)	100	10/10	19.2 (10)	100	10/10	19.2 (10)	100	10/10	19.2 (10)	100	10/10
1-1	18.4 (10)	10/10	18.2 (10)	99	10/10	18.4 (10)	100	10/10	18.4 (10)	100	10/10	18.3 (10)	99	10/10	18.0 (10)	98	7/10
1-2	18.3 (10)	10/10	18.5 (10)	101	10/10	18.7 (10)	102	10/10	18.4 (10)	101	10/10	18.1 (10)	99	10/10	17.2 (7)	94	5/10
1-3	18.6 (10)	10/10	18.7 (10)	101	10/10	19.0 (10)	102	10/10	19.1 (10)	103	10/10	18.5 (10)	99	10/10	16.7 (5)	90	5/10
1-7	18.8 (10)	10/10	19.2 (10)	102	10/10	19.9 (10)	106	10/10	20.0 (10)	106	10/10	19.4 (10)	103	10/10	17.5 (5)	93	5/10
2-3	19.7 (10)	10/10	20.5 (10)	104	10/10	20.5 (10)	104	10/10	20.8 (10)	106	10/10	20.8 (10)	106	10/10	18.8 (3)	95	3/10
2-7	20.1 (10)	10/10	21.1 (10)	105	10/10	20.9 (10)	104	10/10	21.1 (10)	105	10/10	21.0 (10)	104	10/10	19.1 (3)	95	3/10

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

TABLE 23 FOOD CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.FC.	No.of Surviv. <10>	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1-7	3.7 (10)	10/10	3.7 (10)	100	10/10	3.8 (10)	103	10/10	3.8 (10)	103	10/10	3.4 (10)	92	10/10	2.7 (1)	73	1/10
2-7	3.6 (9)	10/10	3.8 (10)	106	10/10	3.9 (10)	108	10/10	4.4 (10)	122	10/10	4.6 (10)	128	10/10	3.9 (1)	108	1/10

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

TABLE 24 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDIES)

Week-Day on Study	Control		200 ppm			400 ppm			800 ppm			1600 ppm			3200 ppm		
	Au.FC.	No.of Surviv. <10>	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1-7	2.9 (10)	10/10	3.0 (10)	103	10/10	3.3 (10)	114	10/10	3.4 (10)	117	10/10	3.3 (10)	114	10/10	2.3 (5)	79	5/10
2-7	3.0 (10)	10/10	3.4 (10)	113	10/10	3.4 (10)	113	10/10	3.5 (10)	117	10/10	3.9 (10)	130	10/10	3.8 (3)	127	3/10

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

TABLE 25 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.Wt.	No.of Surviv. <10>		Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0	22.7 (10)	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	22.7 (10)	100	10/10
1	24.3 (10)	10/10		24.4 (10)	100	10/10	24.3 (10)	100	10/10	23.9 (10)	98	10/10	24.6 (10)	101	10/10	22.8 (10)	94	10/10
2	25.5 (10)	10/10		26.0 (10)	102	10/10	25.8 (10)	101	10/10	25.4 (10)	100	10/10	26.0 (10)	102	10/10	22.2 (10)	87	10/10
3	26.7 (10)	10/10		27.1 (10)	101	10/10	26.9 (10)	101	10/10	26.6 (10)	100	10/10	26.8 (10)	100	10/10	23.7 (10)	89	10/10
4	27.5 (10)	10/10		28.1 (10)	102	10/10	27.9 (10)	101	10/10	27.4 (10)	100	10/10	26.8 (10)	97	10/10	24.5 (10)	89	10/10
5	28.9 (10)	10/10		29.1 (10)	101	10/10	29.1 (10)	101	10/10	28.4 (10)	98	10/10	27.3 (10)	94	10/10	24.5 (10)	85	10/10
6	29.8 (10)	10/10		29.9 (10)	100	10/10	29.6 (10)	99	10/10	29.2 (10)	98	10/10	27.1 (10)	91	10/10	24.9 (10)	84	10/10
7	30.7 (10)	10/10		31.1 (10)	101	10/10	30.9 (10)	101	10/10	29.7 (10)	97	10/10	27.6 (10)	90	10/10	25.7 (10)	84	10/10
8	31.4 (10)	10/10		32.1 (10)	102	10/10	31.9 (10)	102	10/10	30.6 (10)	97	10/10	27.8 (10)	89	10/10	26.2 (10)	83	10/10
9	32.8 (10)	10/10		32.9 (10)	100	10/10	32.8 (10)	100	10/10	31.3 (10)	95	10/10	28.3 (10)	86	10/10	26.5 (10)	81	10/10
10	33.5 (10)	10/10		33.7 (10)	101	10/10	33.6 (10)	100	10/10	32.0 (10)	96	10/10	29.2 (10)	87	10/10	28.0 (10)	84	10/10
11	34.3 (10)	10/10		34.7 (10)	101	10/10	34.4 (10)	100	10/10	32.5 (10)	95	10/10	28.9 (10)	84	10/10	26.5 (10)	77	10/10
12	35.0 (10)	10/10		35.3 (10)	101	10/10	35.2 (10)	101	10/10	33.0 (10)	94	10/10	28.9 (10)	83	10/10	27.6 (10)	79	10/10
13	35.9 (10)	10/10		36.1 (10)	101	10/10	35.9 (10)	100	10/10	33.1 (10)	92	10/10	29.1 (10)	81	10/10	27.7 (10)	77	10/10

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

TABLE 26 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.Wt.	No.of Surviv. <10>		Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0	19.0 (10)	10/10		19.0 (10)	100	10/10	19.0 (10)	100	10/10	19.0 (10)	100	10/10	19.0 (10)	100	10/10	19.0 (10)	100	10/10
1	20.1 (10)	10/10		19.9 (10)	99	10/10	19.8 (10)	99	10/10	20.2 (10)	100	10/10	20.1 (10)	100	10/10	19.3 (10)	96	10/10
2	20.7 (10)	10/10		20.6 (10)	100	10/10	20.5 (10)	99	10/10	21.2 (10)	102	10/10	20.8 (10)	100	10/10	20.3 (10)	98	10/10
3	21.5 (10)	10/10		21.5 (10)	100	10/10	21.4 (10)	100	10/10	21.9 (10)	102	10/10	21.6 (10)	100	10/10	21.2 (10)	99	10/10
4	22.1 (10)	10/10		22.2 (10)	100	10/10	22.5 (10)	102	10/10	22.3 (10)	101	10/10	22.3 (10)	101	10/10	22.1 (10)	100	10/10
5	22.8 (10)	10/10		23.1 (10)	101	10/10	23.1 (10)	101	10/10	22.9 (10)	100	10/10	22.9 (10)	100	10/10	22.4 (10)	98	10/10
6	23.8 (10)	10/10		23.9 (10)	100	10/10	23.6 (10)	99	10/10	23.4 (10)	98	10/10	23.6 (10)	99	10/10	22.9 (10)	96	10/10
7	24.5 (10)	10/10		24.8 (10)	101	10/10	24.7 (10)	101	10/10	24.2 (10)	99	10/10	24.1 (10)	98	10/10	23.4 (10)	96	10/10
8	25.3 (10)	10/10		25.5 (10)	101	10/10	25.2 (10)	100	10/10	25.3 (10)	100	10/10	24.5 (10)	97	10/10	23.5 (10)	93	10/10
9	25.9 (10)	10/10		26.2 (10)	101	10/10	25.2 (10)	97	10/10	25.4 (10)	98	10/10	25.0 (10)	97	10/10	24.4 (10)	94	10/10
10	26.7 (10)	10/10		26.5 (10)	99	10/10	26.4 (10)	99	10/10	25.7 (10)	96	10/10	25.6 (10)	96	10/10	25.2 (10)	94	10/10
11	27.4 (10)	10/10		26.6 (10)	97	10/10	26.4 (10)	96	10/10	26.2 (10)	96	10/10	25.2 (10)	92	10/10	24.3 (10)	89	10/10
12	27.3 (10)	10/10		27.5 (10)	101	10/10	27.0 (10)	99	10/10	26.8 (10)	98	10/10	25.6 (10)	94	10/10	25.1 (10)	92	10/10
13	28.0 (10)	10/10		28.0 (10)	100	10/10	27.3 (10)	98	10/10	27.6 (10)	99	10/10	26.0 (10)	93	10/10	25.3 (10)	90	10/10

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

TABLE 27 FOOD CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.FC.	No.of Surviv. <10>		Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1	3.7 (10)	10/10		3.8 (10)	103	10/10	3.9 (10)	105	10/10	3.8 (10)	103	10/10	4.0 (10)	108	10/10	3.9 (10)	105	10/10
2	3.7 (10)	10/10		3.8 (10)	103	10/10	3.8 (10)	103	10/10	3.8 (10)	103	10/10	4.1 (10)	111	10/10	4.0 (10)	108	10/10
3	3.7 (10)	10/10		3.7 (10)	100	10/10	3.8 (10)	103	10/10	3.8 (10)	103	10/10	4.2 (10)	114	10/10	4.1 (10)	111	10/10
4	3.8 (10)	10/10		3.8 (10)	100	10/10	3.9 (10)	103	10/10	3.8 (10)	100	10/10	4.4 (10)	116	10/10	4.4 (10)	116	10/10
5	4.0 (10)	10/10		3.9 (10)	98	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	4.5 (10)	113	10/10	4.3 (10)	108	10/10
6	4.1 (10)	10/10		4.0 (10)	98	10/10	4.1 (10)	100	10/10	4.1 (10)	100	10/10	4.4 (10)	107	10/10	4.1 (10)	100	10/10
7	4.0 (10)	10/10		4.1 (10)	103	10/10	4.0 (10)	100	10/10	4.0 (10)	100	10/10	4.3 (10)	108	10/10	4.2 (10)	105	10/10
8	4.0 (10)	10/10		4.1 (10)	103	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	4.0 (10)	100	10/10	4.0 (10)	100	10/10
9	4.0 (10)	10/10		4.1 (10)	103	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10	3.8 (10)	95	10/10
10	4.0 (10)	10/10		4.0 (10)	100	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10
11	4.0 (10)	10/10		4.0 (10)	100	10/10	4.1 (10)	103	10/10	3.9 (10)	98	10/10	3.5 (10)	88	10/10	3.4 (10)	85	10/10
12	4.0 (10)	10/10		4.0 (10)	100	10/10	4.2 (10)	105	10/10	3.9 (10)	98	10/10	3.8 (10)	95	10/10	3.9 (10)	98	10/10
13	4.0 (10)	10/10		4.0 (10)	100	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	3.7 (10)	93	10/10	3.8 (10)	95	10/10

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

Au.FC.:g

TABLE 28 FOOD CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDIES)

Week on Study	Control			50 ppm			115 ppm			265 ppm			609 ppm			1400 ppm		
	Au.FC.	No.of Surviv. <10>		Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.	Au.FC.	% of cont. <10>	No.of Surviv.
1	3.3 (10)	10/10		3.2 (10)	97	10/10	3.2 (10)	97	10/10	3.4 (10)	103	10/10	3.3 (10)	100	10/10	3.1 (10)	94	10/10
2	3.2 (10)	10/10		3.2 (10)	100	10/10	3.3 (10)	103	10/10	3.4 (10)	106	10/10	3.3 (10)	103	10/10	3.7 (10)	116	10/10
3	3.2 (10)	10/10		3.4 (10)	106	10/10	3.5 (10)	109	10/10	3.3 (10)	103	10/10	3.3 (10)	103	10/10	4.0 (10)	125	10/10
4	3.3 (10)	10/10		3.5 (10)	106	10/10	3.6 (10)	109	10/10	3.4 (10)	103	10/10	3.5 (10)	106	10/10	4.0 (10)	121	10/10
5	3.7 (10)	10/10		3.9 (10)	105	10/10	3.8 (10)	103	10/10	3.8 (10)	103	10/10	3.7 (10)	100	10/10	3.9 (10)	105	10/10
6	3.9 (9)	10/10		3.9 (10)	100	10/10	4.0 (10)	103	10/10	3.9 (10)	100	10/10	3.9 (10)	100	10/10	4.0 (10)	103	10/10
7	3.9 (10)	10/10		4.1 (10)	105	10/10	4.0 (10)	103	10/10	3.8 (10)	97	10/10	3.9 (10)	100	10/10	3.9 (10)	100	10/10
8	4.0 (10)	10/10		4.0 (10)	100	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10	3.8 (10)	95	10/10
9	3.9 (10)	10/10		4.1 (10)	105	10/10	4.0 (10)	103	10/10	3.9 (10)	100	10/10	3.8 (10)	97	10/10	3.8 (10)	97	10/10
10	3.9 (10)	10/10		3.9 (10)	100	10/10	4.2 (10)	108	10/10	3.7 (10)	95	10/10	3.8 (10)	97	10/10	3.9 (10)	100	10/10
11	3.8 (10)	10/10		3.7 (10)	97	10/10	3.9 (10)	103	10/10	3.7 (10)	97	10/10	3.6 (10)	95	10/10	3.6 (10)	95	10/10
12	3.7 (10)	10/10		3.8 (10)	103	10/10	4.0 (10)	108	10/10	3.7 (10)	100	10/10	3.7 (10)	100	10/10	3.9 (10)	105	10/10
13	3.8 (10)	10/10		3.9 (10)	103	10/10	4.0 (10)	105	10/10	3.9 (10)	103	10/10	3.7 (10)	97	10/10	3.8 (10)	100	10/10

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

Au.FC.:g

TABLE 29 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE

(TWO-YEAR STUDIES)

Week on Study	Control		10 ppm			50 ppm			250 ppm		
	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	22.7 (50)	50/50	22.7 (50)	100	50/50	22.7 (50)	100	50/50	22.7 (50)	100	50/50
1	24.6 (50)	50/50	24.4 (50)	99	50/50	24.4 (50)	99	50/50	24.4 (50)	99	50/50
2	25.3 (50)	50/50	24.8 (50)	98	50/50	25.3 (50)	100	50/50	25.3 (50)	100	50/50
3	26.3 (50)	50/50	25.8 (50)	98	50/50	26.0 (50)	99	50/50	25.9 (49)	98	50/50
4	27.0 (50)	50/50	26.4 (50)	98	50/50	26.6 (50)	99	50/50	26.4 (50)	98	50/50
5	27.8 (50)	50/50	27.4 (50)	99	50/50	27.7 (50)	100	50/50	27.2 (50)	98	50/50
6	28.5 (50)	50/50	27.8 (50)	98	50/50	28.3 (50)	99	50/50	27.6 (50)	97	50/50
7	29.0 (50)	50/50	28.0 (50)	97	50/50	28.8 (50)	99	50/50	28.2 (50)	97	50/50
8	29.8 (50)	50/50	28.6 (50)	96	50/50	29.6 (50)	99	50/50	28.5 (50)	96	50/50
9	30.2 (50)	50/50	29.0 (50)	96	50/50	30.2 (50)	100	50/50	29.0 (50)	96	50/50
10	30.7 (50)	50/50	29.6 (50)	96	50/50	30.9 (50)	101	50/50	29.4 (50)	96	50/50
11	31.5 (50)	50/50	30.5 (50)	97	50/50	31.4 (50)	100	50/50	30.0 (50)	95	50/50
12	32.2 (50)	50/50	30.9 (50)	96	50/50	31.8 (50)	99	50/50	30.3 (50)	94	50/50
13	32.9 (50)	50/50	31.8 (50)	97	50/50	32.5 (50)	99	50/50	30.6 (50)	93	50/50
14	33.4 (50)	50/50	32.4 (50)	97	50/50	33.2 (50)	99	50/50	31.2 (50)	93	50/50
16	34.9 (50)	50/50	33.9 (50)	97	50/50	34.5 (50)	99	50/50	32.7 (50)	94	50/50
18	36.3 (50)	50/50	35.5 (50)	98	50/50	36.1 (50)	99	50/50	33.9 (50)	93	50/50
20	37.2 (50)	50/50	36.6 (50)	98	50/50	37.1 (50)	100	50/50	35.5 (50)	95	50/50
22	37.5 (50)	50/50	37.2 (50)	99	50/50	38.0 (50)	101	50/50	35.7 (50)	95	50/50
24	38.2 (50)	50/50	38.2 (50)	100	50/50	38.8 (50)	102	50/50	36.1 (50)	95	50/50
26	39.3 (50)	50/50	39.3 (50)	100	50/50	39.8 (50)	101	50/50	36.7 (50)	93	50/50
28	39.9 (50)	49/50	40.7 (50)	102	50/50	40.9 (50)	103	50/50	38.0 (50)	95	50/50
30	41.5 (49)	49/50	41.1 (50)	99	50/50	41.7 (50)	100	50/50	38.0 (50)	92	50/50
32	41.9 (49)	49/50	42.1 (50)	100	50/50	42.4 (50)	101	50/50	39.0 (49)	93	49/50
34	43.0 (49)	49/50	42.7 (50)	99	50/50	43.3 (50)	101	50/50	39.4 (49)	92	49/50
36	43.3 (49)	49/50	43.2 (50)	100	50/50	43.9 (50)	101	50/50	39.8 (49)	92	49/50
38	44.3 (49)	49/50	44.0 (50)	99	50/50	44.5 (50)	100	50/50	41.5 (49)	94	49/50
40	44.9 (49)	49/50	45.1 (49)	100	49/50	44.9 (50)	100	50/50	41.6 (49)	93	49/50
42	45.9 (48)	48/50	46.0 (49)	100	49/50	46.4 (49)	101	49/50	42.2 (49)	92	49/50
44	46.4 (48)	48/50	46.9 (49)	101	49/50	46.8 (49)	101	49/50	42.9 (49)	92	49/50
46	46.6 (48)	48/50	47.3 (49)	102	49/50	47.2 (49)	101	49/50	43.1 (49)	92	49/50
48	47.6 (47)	47/50	47.9 (49)	101	49/50	47.6 (49)	100	49/50	43.5 (49)	91	49/50
50	48.0 (46)	46/50	48.4 (49)	101	49/50	48.0 (49)	100	49/50	43.6 (49)	91	49/50
52	48.6 (46)	46/50	49.0 (49)	101	49/50	48.4 (48)	100	48/50	44.4 (49)	91	49/50
54	48.4 (46)	46/50	48.9 (49)	101	49/50	48.3 (48)	100	48/50	44.4 (49)	92	49/50
56	48.4 (46)	46/50	49.0 (48)	101	48/50	48.5 (48)	100	48/50	44.5 (49)	92	49/50
58	48.6 (46)	46/50	49.2 (48)	101	48/50	48.7 (48)	100	48/50	44.3 (49)	91	49/50
60	48.6 (46)	46/50	48.6 (48)	100	48/50	48.3 (48)	99	48/50	43.9 (49)	90	49/50
62	48.5 (46)	46/50	48.4 (48)	100	48/50	48.2 (48)	99	48/50	44.0 (49)	91	49/50
64	48.9 (46)	46/50	48.9 (47)	100	47/50	48.6 (47)	99	47/50	44.0 (49)	90	49/50
66	49.1 (46)	46/50	48.9 (47)	100	47/50	48.4 (47)	99	47/50	43.7 (48)	89	48/50
68	49.7 (46)	46/50	49.2 (47)	99	47/50	48.8 (47)	98	46/50	43.5 (48)	88	48/50
70	50.2 (46)	46/50	49.7 (47)	99	47/50	48.7 (46)	97	46/50	43.4 (47)	86	47/50
72	50.3 (46)	46/50	50.7 (47)	101	47/50	48.3 (46)	96	46/50	43.9 (47)	87	47/50
74	49.6 (46)	46/50	50.5 (47)	102	47/50	48.6 (45)	98	44/50	43.3 (47)	87	47/50
76	50.3 (45)	45/50	50.7 (47)	101	47/50	49.2 (43)	98	43/50	43.7 (46)	87	46/50
78	51.1 (44)	44/50	51.5 (47)	101	47/50	49.4 (43)	97	43/50	43.3 (46)	85	46/50
80	51.2 (44)	44/50	51.1 (47)	100	47/50	49.7 (42)	97	42/50	43.3 (45)	85	45/50
82	51.1 (44)	44/50	51.4 (47)	101	47/50	50.3 (41)	98	41/50	42.7 (44)	84	44/50
84	51.9 (42)	42/50	50.6 (47)	97	47/50	50.4 (41)	97	41/50	42.2 (44)	81	44/50
86	51.9 (42)	42/50	50.7 (46)	98	46/50	50.0 (41)	96	41/50	42.6 (40)	82	40/50
88	52.1 (42)	42/50	50.6 (46)	97	46/50	50.1 (39)	96	39/50	41.7 (39)	80	39/50
90	51.8 (42)	42/50	50.7 (46)	98	46/50	49.4 (38)	95	38/50	40.9 (39)	79	39/50
92	51.7 (41)	41/50	50.4 (45)	97	45/50	49.1 (37)	95	36/50	40.1 (37)	78	37/50
94	51.4 (41)	41/50	50.1 (44)	97	44/50	48.5 (35)	94	34/50	39.5 (35)	77	35/50
96	51.4 (38)	38/50	49.4 (44)	96	43/50	47.8 (32)	93	32/50	38.5 (34)	75	34/50
98	51.4 (36)	36/50	49.3 (41)	96	40/50	47.1 (31)	92	31/50	38.3 (31)	75	31/50
100	50.2 (36)	36/50	49.3 (39)	98	38/50	46.5 (30)	93	30/50	37.8 (27)	75	27/50
102	50.0 (35)	34/50	49.3 (37)	99	37/50	45.8 (30)	92	30/50	36.8 (25)	74	25/50
104	50.3 (31)	31/50	49.2 (35)	98	35/50	45.3 (28)	90	28/50	36.4 (23)	72	22/50

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

Au.Wt.: g

(Study No.0104,0105)

TABLE 30 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE

(TWO-YEAR STUDIES)

Week on Study	Control			10 ppm			50 ppm			250 ppm		
	Au.Wt.	No.of Surviv. <50>		Au.Wt.	% of cont. <47>	No.of Surviv.	Au.Wt.	% of cont. <49>	No.of Surviv.	Au.Wt.	% of cont. <50>	No.of Surviv.
0	18.6 (50)	50/50		18.5 (47)	99	50/50	18.5 (49)	99	50/50	18.6 (50)	100	50/50
1	20.0 (50)	50/50		19.9 (47)	100	50/50	19.5 (49)	98	50/50	19.7 (50)	99	50/50
2	20.5 (50)	50/50		20.5 (47)	100	50/50	20.2 (49)	99	50/50	20.4 (50)	100	50/50
3	21.2 (50)	50/50		21.0 (47)	99	50/50	20.9 (49)	99	50/50	21.3 (50)	100	50/50
4	22.0 (50)	50/50		21.7 (47)	99	50/50	21.6 (49)	98	50/50	22.1 (50)	100	50/50
5	22.4 (50)	50/50		22.4 (47)	100	50/50	22.2 (49)	99	50/50	23.1 (50)	103	50/50
6	23.0 (50)	50/50		22.8 (47)	99	50/50	22.8 (49)	99	50/50	23.1 (50)	100	50/50
7	23.4 (50)	50/50		23.1 (47)	99	49/49	23.1 (49)	99	50/50	23.7 (50)	101	50/50
8	24.1 (50)	50/50		23.5 (47)	98	49/49	23.9 (49)	99	50/50	24.1 (50)	100	50/50
9	23.9 (50)	50/50		23.6 (47)	99	49/49	23.9 (49)	100	50/50	24.4 (50)	102	50/50
10	24.4 (50)	50/50		23.8 (47)	98	49/49	24.0 (49)	98	50/50	24.6 (50)	101	50/50
11	24.9 (50)	50/50		24.2 (47)	97	49/49	24.2 (49)	97	50/50	24.6 (50)	99	50/50
12	24.9 (50)	50/50		24.5 (47)	98	49/49	24.6 (49)	99	50/50	24.8 (50)	100	50/50
13	24.9 (50)	50/50		24.9 (47)	100	49/49	24.7 (49)	99	50/50	25.2 (50)	101	50/50
14	25.2 (50)	50/50		25.1 (47)	100	49/49	25.1 (49)	100	50/50	25.1 (50)	100	50/50
16	26.1 (50)	50/50		25.6 (47)	98	49/49	25.6 (49)	98	50/50	26.0 (50)	100	50/50
18	27.0 (50)	50/50		26.6 (47)	99	49/49	26.2 (49)	97	50/50	26.8 (50)	99	50/50
20	27.5 (50)	50/50		27.1 (47)	99	49/49	27.1 (49)	99	50/50	27.3 (50)	99	50/50
22	27.4 (50)	50/50		27.2 (47)	99	49/49	27.1 (49)	99	50/50	27.7 (50)	101	50/50
24	27.2 (50)	50/50		27.5 (47)	101	49/49	27.1 (49)	100	49/49	27.5 (50)	101	50/50
26	28.3 (50)	50/50		27.9 (47)	99	49/49	27.5 (49)	97	49/49	28.8 (50)	102	50/50
28	28.3 (50)	50/50		29.0 (47)	102	49/49	27.9 (49)	99	49/49	28.7 (50)	101	50/50
30	29.7 (50)	50/50		29.2 (47)	98	49/49	28.8 (49)	97	49/49	29.2 (50)	98	50/50
32	29.4 (50)	50/50		29.6 (47)	101	49/49	28.5 (49)	97	49/49	29.0 (50)	99	50/50
34	30.3 (50)	50/50		29.9 (47)	99	49/49	29.1 (49)	96	49/49	29.9 (50)	99	50/50
36	29.7 (50)	50/50		30.3 (47)	102	49/49	29.9 (49)	101	49/49	30.0 (50)	101	50/50
38	30.3 (50)	50/50		31.2 (47)	103	49/49	30.2 (49)	100	49/49	31.1 (50)	103	50/50
40	31.0 (50)	50/50		31.8 (47)	103	49/49	31.1 (48)	100	48/49	31.0 (50)	100	50/50
42	32.4 (50)	50/50		32.3 (47)	100	49/49	32.1 (48)	99	48/49	31.8 (50)	98	50/50
44	32.7 (50)	50/50		33.5 (47)	102	49/49	32.1 (48)	98	48/49	32.7 (50)	100	50/50
46	33.1 (50)	50/50		33.6 (47)	102	49/49	32.3 (48)	98	48/49	32.9 (50)	99	50/50
48	33.9 (50)	50/50		34.1 (47)	101	49/49	33.3 (48)	98	48/49	33.6 (50)	99	50/50
50	33.9 (50)	50/50		34.6 (47)	102	49/49	33.6 (48)	99	48/49	33.5 (50)	99	50/50
52	34.9 (50)	50/50		35.3 (47)	101	49/49	34.6 (48)	99	48/49	34.3 (50)	98	50/50
54	34.6 (50)	50/50		34.8 (47)	101	48/48	34.4 (48)	99	47/49	34.9 (50)	101	50/50
56	35.4 (50)	50/50		35.8 (47)	101	48/48	34.5 (47)	97	47/49	34.2 (50)	97	50/50
58	35.7 (50)	50/50		35.8 (47)	100	48/48	34.7 (47)	97	47/49	34.7 (50)	97	50/50
60	35.0 (50)	50/50		35.5 (47)	101	48/48	34.0 (47)	97	47/49	33.7 (50)	96	50/50
62	35.2 (50)	50/50		35.2 (47)	100	48/48	34.0 (47)	97	47/49	33.9 (50)	96	50/50
64	35.6 (50)	50/50		35.2 (45)	99	46/48	34.7 (47)	97	47/49	34.3 (50)	96	50/50
66	35.6 (50)	50/50		35.2 (45)	99	46/48	34.2 (47)	96	47/49	34.1 (50)	96	50/50
68	36.0 (49)	49/50		35.5 (44)	99	45/48	35.5 (47)	99	47/49	34.6 (50)	96	50/50
70	36.6 (49)	49/50		36.5 (44)	100	45/48	35.5 (47)	97	47/49	34.8 (50)	95	50/50
72	36.9 (48)	48/50		36.4 (44)	99	45/48	35.7 (46)	97	46/49	35.2 (50)	95	50/50
74	37.0 (46)	46/50		36.4 (44)	98	45/48	36.2 (46)	98	46/49	34.7 (50)	94	50/50
76	37.1 (46)	46/50		37.1 (42)	100	43/48	36.0 (45)	97	44/49	35.6 (49)	96	49/50
78	38.3 (46)	46/50		38.0 (42)	99	43/48	37.8 (44)	99	44/49	35.7 (49)	93	49/50
80	39.0 (46)	46/50		37.8 (42)	97	43/48	37.2 (42)	95	42/49	36.1 (49)	93	49/50
82	38.9 (44)	44/50		39.0 (41)	100	42/48	37.6 (41)	97	40/49	35.9 (47)	92	47/50
84	38.9 (43)	43/50		37.8 (41)	97	42/48	37.9 (40)	97	39/49	35.7 (43)	92	43/50
86	39.3 (43)	43/50		38.4 (40)	98	41/48	38.0 (37)	97	37/49	36.4 (41)	93	41/50
88	39.2 (43)	43/50		38.0 (39)	97	41/48	38.0 (37)	97	37/49	35.3 (41)	90	41/50
90	39.6 (43)	43/50		38.5 (39)	97	40/48	38.2 (34)	96	34/49	34.9 (40)	88	40/50
92	39.3 (41)	41/50		37.8 (39)	96	40/48	37.7 (34)	96	34/49	34.9 (35)	89	35/50
94	39.5 (41)	41/50		37.5 (38)	95	38/47	37.5 (33)	95	33/49	34.0 (33)	86	33/50
96	38.8 (41)	41/50		37.2 (35)	96	34/47	37.2 (32)	96	32/49	33.8 (31)	87	31/50
98	38.6 (39)	39/50		37.8 (32)	98	32/47	36.8 (32)	95	32/49	33.7 (29)	87	29/50
100	38.1 (38)	38/50		37.6 (30)	99	30/47	36.5 (27)	96	27/49	31.6 (27)	83	27/50
102	38.5 (37)	37/50		37.9 (29)	98	28/47	35.6 (25)	92	25/49	31.6 (24)	82	24/50
104	37.3 (34)	32/50		37.3 (27)	100	27/47	35.5 (23)	95	22/49	31.1 (17)	83	17/50

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

Au.Wt.: g

TABLE 31 INCIDENCE AND TIME OF MASS OCCURRENCE(CLINICAL OBSERVATION) :MOUSE :MALE

		Dosing week								
Time of mass occurrence		0~13	14~26	27~39	40~52	53~65	66~78	79~91	92~104	0~104
The kind of mass		No. of animals with mass (No. of dead and moribund animals with mass)								
Internal mass										
	Control	0	0	0	1	3	8	10	11	18(12)
	10 ppm	0	0	0	0	3	14	9	16	26(9)
	50 ppm	0	0	0	1	3	17	18	20	31(14)
	250 ppm	0	0	0	1	4	11	12	20	30(18)
External mass										
	Control	0	0	0	0	0	0	4	3	5(3)
	10 ppm	0	0	0	0	0	2	2	4	5(3)
	50 ppm	0	0	0	0	2	1	5	5	6(3)
	250 ppm	0	0	0	0	1	2	7	10	12(7)

TABLE 32 INCIDENCE AND TIME OF MASS OCCURRENCE(CLINICAL OBSERVATION) :MOUSE :FEMALE

		Dosing week								
Time of mass occurrence		0~13	14~26	27~39	40~52	53~65	66~78	79~91	92~104	0~104
The kind of mass		No. of animals with mass (No. of dead and moribund animals with mass)								
Internal mass										
	Control	0	0	0	1	3	7	7	8	18(14)
	10 ppm	0	0	0	1	2	7	7	8	16(14)
	50 ppm	0	0	0	2	9	9	8	7	21(13)
	250 ppm	0	0	0	1	1	7	9	13	22(18)
External mass										
	Control	0	0	0	0	0	2	4	4	8(4)
	10 ppm	0	0	0	0	0	1	1	4	4(2)
	50 ppm	0	0	0	0	2	1	5	6	8(7)
	250 ppm	0	0	0	0	1	2	3	3	5(3)

(Study No. 0104, 0105)

TABLE 33 FOOD CONSUMPTION IN MALE MOUSE (TWO-YEAR STUDIES)

Week on Study	Control			10 ppm			50 ppm			250 ppm		
	Au.FC.	No.of Surviv. <50>		Au.FC.	% of cont. <50>	No.of Surviv.	Au.FC.	% of cont. <50>	No.of Surviv.	Au.FC.	% of cont. <50>	No.of Surviv.
1	3.8 (50)	50/50		3.8 (50)	100	50/50	3.8 (50)	100	50/50	3.8 (50)	100	50/50
2	3.8 (50)	50/50		3.6 (50)	95	50/50	3.7 (50)	97	50/50	3.8 (50)	100	50/50
3	3.9 (50)	50/50		3.7 (50)	95	50/50	3.7 (50)	95	50/50	3.8 (50)	97	50/50
4	4.0 (50)	50/50		3.9 (50)	98	50/50	3.9 (50)	98	50/50	3.9 (50)	98	50/50
5	4.0 (50)	50/50		3.9 (50)	98	50/50	4.0 (50)	100	50/50	3.9 (50)	98	50/50
6	4.1 (50)	50/50		3.9 (50)	95	50/50	3.9 (50)	95	50/50	3.9 (50)	95	50/50
7	4.1 (50)	50/50		3.8 (50)	93	50/50	4.0 (50)	98	50/50	3.9 (50)	95	50/50
8	4.1 (50)	50/50		4.0 (50)	98	50/50	4.1 (50)	100	50/50	4.0 (50)	98	50/50
9	4.2 (50)	50/50		4.1 (50)	98	50/50	4.1 (50)	98	50/50	4.1 (50)	98	50/50
10	4.1 (50)	50/50		4.1 (50)	100	50/50	4.1 (50)	100	50/50	4.0 (50)	98	50/50
11	4.2 (50)	50/50		4.1 (50)	98	50/50	4.1 (50)	98	50/50	4.1 (50)	98	50/50
12	4.3 (50)	50/50		4.1 (50)	95	50/50	4.2 (50)	98	50/50	4.2 (50)	98	50/50
13	4.2 (50)	50/50		4.1 (50)	98	50/50	4.1 (50)	98	50/50	4.0 (50)	95	50/50
14	4.2 (50)	50/50		4.2 (50)	100	50/50	4.2 (50)	100	50/50	4.2 (50)	100	50/50
18	4.4 (50)	50/50		4.2 (50)	95	50/50	4.4 (50)	100	50/50	4.3 (50)	98	50/50
22	4.4 (50)	50/50		4.4 (50)	100	50/50	4.4 (50)	100	50/50	4.1 (50)	93	50/50
26	4.6 (50)	50/50		4.5 (50)	98	50/50	4.6 (50)	100	50/50	4.4 (50)	96	50/50
30	4.6 (49)	49/50		4.5 (50)	98	50/50	4.6 (50)	100	50/50	4.4 (50)	96	50/50
34	4.6 (49)	49/50		4.5 (50)	98	50/50	4.6 (50)	100	50/50	4.5 (49)	98	49/50
38	4.8 (49)	49/50		4.6 (50)	96	50/50	4.7 (50)	98	50/50	4.7 (49)	98	49/50
42	4.7 (48)	48/50		4.6 (49)	98	49/50	4.6 (49)	98	49/50	4.5 (49)	96	49/50
46	4.6 (48)	48/50		4.7 (49)	102	49/50	4.6 (49)	100	49/50	4.5 (49)	98	49/50
50	4.7 (46)	46/50		4.6 (49)	98	49/50	4.7 (49)	100	49/50	4.6 (49)	98	49/50
52	4.7 (46)	46/50		4.6 (49)	98	49/50	4.8 (48)	102	48/50	4.5 (49)	96	49/50
54	4.7 (46)	46/50		4.5 (49)	96	49/50	4.8 (48)	102	48/50	4.6 (49)	98	49/50
58	5.0 (46)	46/50		4.8 (48)	96	48/50	5.1 (48)	102	48/50	4.8 (49)	96	49/50
62	4.7 (46)	46/50		4.7 (48)	100	48/50	4.9 (48)	104	48/50	4.6 (49)	98	49/50
66	4.8 (46)	46/50		4.7 (47)	98	47/50	4.9 (47)	102	47/50	4.7 (49)	98	48/50
70	4.8 (46)	46/50		4.7 (47)	98	47/50	4.8 (46)	100	46/50	4.7 (48)	98	47/50
74	4.8 (46)	46/50		4.9 (47)	102	47/50	4.7 (46)	98	44/50	4.4 (47)	92	47/50
78	5.1 (44)	44/50		5.0 (47)	98	47/50	5.1 (43)	100	43/50	5.0 (46)	98	46/50
82	5.2 (44)	44/50		5.0 (47)	96	47/50	5.2 (42)	100	41/50	4.9 (44)	94	44/50
86	5.2 (42)	42/50		5.0 (46)	96	46/50	5.1 (41)	98	41/50	4.6 (41)	88	40/50
90	5.2 (42)	42/50		5.0 (46)	96	46/50	5.1 (39)	98	38/50	4.8 (39)	92	39/50
94	5.0 (41)	41/50		4.9 (44)	98	44/50	4.9 (36)	98	34/50	4.6 (36)	92	35/50
98	5.0 (36)	36/50		5.0 (41)	100	40/50	5.1 (31)	102	31/50	4.6 (33)	92	31/50
102	4.9 (36)	34/50		4.8 (37)	98	37/50	4.9 (30)	100	30/50	4.4 (25)	90	25/50
104	5.1 (32)	31/50		4.8 (35)	94	35/50	4.7 (28)	92	28/50	4.5 (24)	88	22/50

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

Au.FC.: g

(Study No. 0104, 0105)

TABLE 34 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-YEAR STUDIES)

Week on Study	Control		10 ppm			50 ppm			250 ppm		
	Au.FC.	No.of Surviv. <50>	Au.FC.	% of cont. <47>	No.of Surviv.	Au.FC.	% of cont. <49>	No.of Surviv.	Au.FC.	% of cont. <50>	No.of Surviv.
1	3.2 (50)	50/50	3.3 (47)	103	50/50	3.1 (49)	97	50/50	3.2 (50)	100	50/50
2	3.1 (50)	50/50	3.1 (47)	100	50/50	3.2 (49)	103	50/50	3.2 (50)	103	50/50
3	3.4 (50)	50/50	3.2 (47)	94	50/50	3.4 (49)	100	50/50	3.5 (50)	103	50/50
4	3.6 (50)	50/50	3.5 (47)	97	50/50	3.6 (49)	100	50/50	3.7 (50)	103	50/50
5	3.7 (50)	50/50	3.6 (47)	97	50/50	3.7 (49)	100	50/50	3.8 (50)	103	50/50
6	3.9 (50)	50/50	3.7 (47)	95	50/50	3.8 (49)	97	50/50	3.7 (50)	95	50/50
7	3.9 (50)	50/50	3.8 (47)	97	49/49	3.9 (49)	100	50/50	3.8 (50)	97	50/50
8	4.0 (50)	50/50	3.9 (47)	98	49/49	4.0 (49)	100	50/50	3.9 (50)	98	50/50
9	4.0 (50)	50/50	3.9 (47)	98	49/49	3.9 (49)	98	50/50	4.0 (50)	100	50/50
10	4.0 (50)	50/50	3.9 (47)	98	49/49	3.8 (49)	95	50/50	3.9 (50)	98	50/50
11	4.0 (50)	50/50	3.9 (47)	98	49/49	3.9 (49)	98	50/50	3.9 (50)	98	50/50
12	3.9 (50)	50/50	3.9 (47)	100	49/49	4.0 (49)	103	50/50	4.0 (50)	103	50/50
13	3.9 (50)	50/50	3.8 (47)	97	49/49	3.9 (49)	100	50/50	3.9 (50)	100	50/50
14	3.9 (50)	50/50	3.9 (47)	100	49/49	4.0 (49)	103	50/50	4.0 (50)	103	50/50
18	4.2 (50)	50/50	4.1 (47)	98	49/49	4.1 (49)	98	50/50	4.3 (50)	102	50/50
22	4.3 (50)	50/50	4.1 (47)	95	49/49	4.1 (49)	95	50/50	4.1 (50)	95	50/50
26	4.5 (50)	50/50	4.4 (47)	98	49/49	4.4 (49)	98	49/49	4.5 (50)	100	50/50
30	4.5 (50)	50/50	4.4 (47)	98	49/49	4.5 (49)	100	49/49	4.4 (50)	98	50/50
34	4.7 (50)	50/50	4.5 (47)	96	49/49	4.5 (49)	96	49/49	4.5 (50)	96	50/50
38	4.6 (50)	50/50	4.6 (47)	100	49/49	4.6 (49)	100	49/49	4.7 (50)	102	50/50
42	4.6 (50)	50/50	4.4 (47)	96	49/49	4.6 (48)	100	48/49	4.5 (50)	98	50/50
46	4.4 (50)	50/50	4.4 (47)	100	49/49	4.3 (48)	98	48/49	4.5 (50)	102	50/50
50	4.4 (50)	50/50	4.4 (47)	100	49/49	4.4 (48)	100	48/49	4.5 (50)	102	50/50
52	4.7 (50)	50/50	4.5 (47)	96	49/49	4.6 (48)	98	48/49	4.5 (50)	96	50/50
54	4.5 (50)	50/50	4.3 (47)	96	48/48	4.4 (48)	98	47/49	4.7 (50)	104	50/50
58	4.9 (50)	50/50	4.7 (44)	96	48/48	4.7 (47)	96	47/49	4.7 (50)	96	50/50
62	4.5 (50)	50/50	4.4 (47)	98	48/48	4.4 (47)	98	47/49	4.4 (50)	98	50/50
66	4.5 (49)	50/50	4.5 (45)	100	46/48	4.4 (47)	98	47/49	4.4 (50)	98	50/50
70	4.6 (49)	49/50	4.6 (44)	100	45/48	4.4 (47)	96	47/49	4.6 (50)	100	50/50
74	4.4 (48)	46/50	4.7 (44)	107	45/48	4.4 (46)	100	46/49	4.3 (50)	98	50/50
78	4.8 (46)	46/50	4.7 (42)	98	43/48	5.0 (44)	104	44/49	4.9 (49)	102	49/50
82	4.9 (45)	44/50	4.9 (42)	100	42/48	4.9 (41)	100	40/49	4.7 (48)	96	47/50
86	5.0 (43)	43/50	4.9 (40)	98	41/48	4.8 (38)	96	37/49	4.8 (41)	96	41/50
90	4.8 (43)	43/50	5.0 (39)	104	40/48	4.8 (35)	100	34/49	4.7 (41)	98	40/50
94	4.9 (41)	41/50	4.7 (38)	96	38/47	4.6 (34)	94	33/49	4.6 (35)	94	33/50
98	4.8 (40)	39/50	4.5 (34)	94	32/47	4.6 (31)	96	32/49	4.8 (30)	100	29/50
102	4.6 (38)	37/50	4.6 (29)	100	28/47	4.3 (27)	93	25/49	4.3 (24)	93	24/50
104	4.1 (37)	32/50	4.4 (28)	107	27/47	4.7 (24)	115	22/49	4.0 (18)	98	17/50

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

Au.FC.: g

TABLE 35 NEOPLASTIC LESIONS (SPLEEN) INCIDENCE AND STATISTICAL ANALYSIS : MOUSE:MALE

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : spleen TUMOUR : hemangioendothelioma				
Overall Rates(a)	1/50 (2.0)	1/50 (2.0)	3/50 (6.0)	5/50 (10.0)
Adjusted Rates(b)	3.23	0.0	6.38	12.00
Terminal Rates(c)	1/31 (3.2)	0/35 (0.0)	0/28 (0.0)	2/22 (9.1)
Standard Rates(d)	P=0.5167			
Prevalence Rates(d)	P=0.0177*			
Combind analysis(d)	P=0.0340*			
Cochran-Armitage Test(e)	P=0.0420*			
Fisher Exact Test(e)		P=0.2475	P=0.3235	P=0.1210
SITE : spleen TUMOUR : hemangioendothelioma:benign, hemangioendothelioma				
Overall Rates(a)	2/50 (4.0)	2/50 (4.0)	3/50 (6.0)	6/50 (12.0)
Adjusted Rates(b)	6.45	2.86	6.38	12.90
Terminal Rates(c)	2/31 (6.5)	1/35 (2.9)	0/28 (0.0)	2/22 (9.1)
Standard Rates(d)	P=0.5167			
Prevalence Rates(d)	P=0.0276*			
Combind analysis(d)	P=0.0458*			
Cochran-Armitage Test(e)	P=0.0608			
Fisher Exact Test(e)		P=0.3088	P=0.4909	P=0.1606

(a):Number of tumor-bearing animals/number of animals examined at the site.

(b):Kaplan-Meire estimate tumor incidence at the end of study after adjusting for intercurrent mortality.

(c):Observed tumor incidence at terminal kill.

(d):Beneth the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combind analysis : Death analysis + Incidental tumor test

(e):The Cochran-Armitage and Fisher's exact test compare directly the overall incidence rates.

? :The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value beyond the estimated P-value.

-----:There is no data which should be statistic analysis.

TABLE 36 NEOPLASTIC LESIONS (LIVER) INCIDENCE AND STATISTICAL ANALYSIS : MOUSE:MALE

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : liver TUMOUR : hepatocellular adenoma				
Overall Rates(a)	7/50 (14.0)	13/50 (26.0)	8/50 (16.0)	26/50 (52.0)
Adjusted Rates(b)	15.22	34.29	20.59	77.27
Terminal Rates(c)	4/31 (12.9)	12/35 (34.3)	5/28 (17.9)	17/22 (77.3)
Standard Rates(d)	P=1.0000 ?			
Prevalence Rates(d)	P<0.0001**			
Combind analysis(d)	P<0.0001**			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.1634	P=0.4854	P=0.0029**
SITE : liver TUMOUR : hemangioendothelioma				
Overall Rates(a)	1/50 (2.0)	1/50 (2.0)	5/50 (10.0)	5/50 (10.0)
Adjusted Rates(b)	0.0	2.17	3.57	13.64
Terminal Rates(c)	0/31 (0.0)	0/35 (0.0)	1/28 (3.6)	3/22 (13.6)
Standard Rates(d)	P=0.2158			
Prevalence Rates(d)	P=0.0270*			
Combind analysis(d)	P=0.0332*			
Cochran-Armitage Test(e)	P=0.0883			
Fisher Exact Test(e)		P=0.2475	P=0.1210	P=0.1210
SITE : liver TUMOUR : hepatocellular carcinoma				
Overall Rates(a)	7/50 (14.0)	8/50 (16.0)	12/50 (24.0)	25/50 (50.0)
Adjusted Rates(b)	16.13	16.67	25.00	45.45
Terminal Rates(c)	5/31 (16.1)	5/35 (14.3)	7/28 (25.0)	10/22 (45.5)
Standard Rates(d)	P=0.0010**			
Prevalence Rates(d)	P=0.0002**			
Combind analysis(d)	P<0.0001**			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.4854	P=0.2119	P=0.0041**
SITE : liver TUMOUR : hepatocellular adenoma, hepatocellular carcinoma				
Overall Rates(a)	13/50 (26.0)	21/50 (42.0)	19/50 (38.0)	40/50 (80.0)
Adjusted Rates(b)	26.47	50.00	39.39	90.91
Terminal Rates(c)	8/31 (25.8)	17/35 (48.6)	11/28 (39.3)	20/22 (90.9)
Standard Rates(d)	P=0.0020**			
Prevalence Rates(d)	P<0.0001**			
Combind analysis(d)	P<0.0001**			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.1615	P=0.2359	P=0.0018**

(a):Number of tumor-bearing animals/number of animals examined at the site.

(b):Kaplan-Meire estimate tumor incidence at the end of study after adjusting for intercurrent mortality.

(c):Observed tumor incidence at terminal kill.

(d):Beneath the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combind analysis : Death analysis + Incidental tumor test

(e):The Cochran-Armitage and Fisher's exact test compare directly the overall incidence rates.

? :The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value beyond the estimated P-value.

-----:There is no data which should be statistic analysis.

TABLE 37 NEOPLASTIC LESIONS (LIVER) INCIDENCE AND STATISTICAL ANALYSIS : MOUSE:FEMALE

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : liver TUMOUR : hepatocellular adenoma				
Overall Rates(a)	3/50 (6.0)	3/47 (6.4)	7/49 (14.3)	26/49 (53.1)
Adjusted Rates(b)	9.38	11.11	30.43	64.00
Terminal Rates(c)	3/32 (9.4)	3/27 (11.1)	6/22 (27.3)	9/17 (52.9)
Standard Rates(d)	P=-----			
Prevalence Rates(d)	P<0.0001**?			
Combind analysis(d)	P=-----			
Cochran-Armitage Test(e)	P<0.0001**			
Fisher Exact Test(e)		P=0.3673	P=0.1836	P=0.0001**
SITE : liver TUMOUR : hepatocellular carcinoma				
Overall Rates(a)	0/50 (0.0)	0/47 (0.0)	0/49 (0.0)	14/49 (28.6)
Adjusted Rates(b)	0.0	0.0	0.0	23.33
Terminal Rates(c)	0/32 (0.0)	0/27 (0.0)	0/22 (0.0)	3/17 (17.6)
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 : liver TUMOUR : hepatocellular adenoma, hepatocellular carcinoma				
Overall Rates(a)	3/50 (6.0)	3/47 (6.4)	7/49 (14.3)	33/49 (67.3)
Adjusted Rates(b)	9.38	11.11	30.43	69.70
Terminal Rates(c)	3/32 (9.4)	3/27 (11.1)	6/22 (27.3)	10/17 (58.8)
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=0.3673	P=0.1836	P<0.0001**

(a):Number of tumor-bearing animals/number of animals examined at the site.

(b):Kaplan-Meire estimate tumor incidence at the end of study after adjusting for intercurrent mortality.

(c):Observed tumor incidence at terminal kill.

(d):Beneth the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combind analysis : Death analysis + Incidental tumor test

(e):The Cochran-Armitage and Fisher's exact test compare directly the overall incidence rates.

? :The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value beyond the estimated P-value.

-----:There is no data which should be statistic analysis.

TABLE 38 NUMBER OF MOUSE WITH SELECTED LIVER LESIONS

Group	Male				Female			
	Control	10ppm	50ppm	250ppm	Control	10ppm	50ppm	250ppm
Number of examined	50	50	50	50	50	47	49	50
Anigectasis	1	3	12	30	6	9	8	26
Degeneration:central	1	1	4	37	0	1	2	30
Necrosis:central	0	0	2	3	1	1	1	0
Necrosis:focal	3	4	8	13	1	1	1	0
Hyperplasia	1	0	3	3	0	1	0	0
Clear cell focus	2	2	3	5	1	1	0	4
Acidophilic cell focus	1	1	0	0	0	0	0	1
Basophilic cell focus	2	3	4	5	0	0	0	1
Vacuolic cell focus	0	0	0	0	1	0	0	1
Mixed cell focus	0	0	0	0	2	1	1	0
Hepatocellular adenoma	7	13	8	26	3	3	7	26
Cholangiocellular adenoma	0	0	0	0	0	1	0	0
Histiocytic sarcoma	2	0	1	1	1	1	1	0
Hemangioendothelioma	1	1	5	5	0	0	0	1
Hepatocellular carcinoma	7	8	12	25	0	0	0	14

TABLE 39 NUMBER OF MOUSE WITH SELECTED KIDNEY LESIONS

Group	Male				Female			
	Control	10ppm	50ppm	250ppm	Control	10ppm	50ppm	250ppm
Number of examined	50	50	50	50	50	47	49	50
Nuclear enlargement:								
proximal tubule	0	0	6	38	0	0	1	49
Atypical tubular dilation:								
proximal tubule	0	0	0	1	0	0	0	6
Renal cell adenoma	0	1	0	0	0	0	0	0
Renal cell carcinoma	0	0	1	0	0	0	0	0

TABLE 40 NEOPLASTIC LESIONS (HARDERIAN GLAND) INCIDENCE AND STATISTICAL ANALYSIS : MOUSE:MALE

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : mammary gland TUMOUR : adenocarcinoma				
Overall Rates(a)	2/50 (2.0)	2/50 (4.0)	2/50 (4.0)	8/50 (16.0)
Adjusted Rates(b)	6.45	5.26	6.45	23.08
Terminal Rates(c)	2/31 (6.5)	1/35 (2.9)	0/28 (0.0)	4/22 (18.2)
Standard Rates(d)	P=-----			
Prevalence Rates(d)	P=0.0024**			
Combind analysis(d)	P=-----			
Cochran-Armitage Test(e)	P=0.0046**			
Fisher Exact Test(e)		P=0.3088	P=0.3088	P=0.0671

TABLE 41 NEOPLASTIC LESIONS (PITUITARY GLAND) INCIDENCE AND STATISTICAL ANALYSIS : MOUSE:FEMALE

Group Name	Control	10 ppm	50 ppm	250 ppm
SITE : pituitary gland TUMOUR : adenoma				
Overall Rates(a)	9/49 (18.4)	11/47 (23.4)	4/48 (8.3)	9/50 (18.0)
Adjusted Rates(b)	23.08	31.03	13.64	27.78
Terminal Rates(c)	7/32 (21.9)	8/27 (29.6)	3/22 (13.6)	4/17 (23.5)
Standard Rates(d)	P=0.0154*			
Prevalence Rates(d)	P=0.6810			
Combind analysis(d)	P=0.2327			
Cochran-Armitage Test(e)	P=0.9190			
Fisher Exact Test(e)		P=0.4032	P=0.1655	P=0.3839

(a):Number of tumor-bearing animals/number of animals examined at the site.

(b):Kaplan-Meire estimate tumor incidence at the end of study after adjusting for intercurrent mortality.

(c):Observed tumor incidence at terminal kill.

(d):Beneth the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combind analysis : Death analysis + Incidental tumor test

(e):The Cochran-Armitage and Fisher's exact test compare directly the overall incidence rates.

? :The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value beyond the estimated P-value.

-----:There is no data which should be statistic analysis.

TABLE 42 CAUSE OF DEATH :MOUSE

Group	Male				Female			
	Control	10ppm	50ppm	250ppm	Control	10ppm	50ppm	250ppm
Number of dead/moriboud animal	19	15	22	28	18	20	27	33
No microscopical confirmation	2	2	1	0	0	1	2	0
Cardiovascular lesion	0	0	0	0	0	1	2	0
Respiratory sy. lesion	1	0	0	1	0	0	0	0
Hepatic lesion	0	1	1	4	0	0	0	1
Urinary sy. lesion	0	0	0	1	0	0	0	0
Renal lesion	3	1	4	1	1	2	0	1
Urinary retention	1	3	2	0	0	0	0	0
Amyloidosis	0	1	0	0	0	0	0	0
Arteritis	2	0	1	0	0	0	0	0
Tumor death : leukemia	4	3	3	4	6	4	13	10
: subcutis	0	0	0	1	0	2	0	1
: stomach	0	0	0	0	1	0	0	0
: lung	1	0	1	0	0	0	0	0
: lymph node	0	0	0	1	0	0	0	0
: spleen	0	1	0	0	0	0	0	0
: liver	4	3	8	13	0	1	1	7
: pituitary gland	0	0	0	0	1	2	2	4
: ovary	0	0	0	0	0	0	0	1
: uterus	0	0	0	0	8	8	8	9
: mammary gland	0	0	0	0	0	0	1	0
: epididymis	0	0	0	1	5	2	2	2
: seminal vesicle	1	0	0	1	1	0	0	0
: bone	0	0	1	0	1	2	2	1