塩化メチルのラット及びマウスを用いた
吸入によるがん原性予備試験報告書

試験番号

2 週 間　：ラット/0174；マウス/0175

1 3 週 間 ：ラット/0191；マウス/0192

TABLES

T A B L E S

T A B L E S (CONTINUED)

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

Two-week studies	Thirteen-week Studies
<Method of Administration>	
Inhalation	Inhalation
<Number of Groups>	
Male 6, Female 6	Male 6, Female 6
<Size of Groups>	
10 males and 10 females of each groups	10 males and 10 females of each groups
<Animals>	
Strain and Species	
F344/DuCrj(Fischer)rat	F344/DuCrj(Fischer)rat
Crj:BDF1 mouse	Crj:BDF1 mouse
Animal Source	
Charles River Japan, Inc.	Charles River Japan, Inc.
Quarantine and Acclimation	
2 wk	2 wk
Age When Placed on Study	
6 wk old	6 wk old
Age When Killed	
8 wk old	19 wk old
<Doses>	
Rat--0, 190, 380, 750, 1500 or 3000ppm	Rat--0, 190, 380, 750, 1500 or 3000ppm
Mouse--0, 190, 380, 750, 1500 or 3000ppm	Mouse--0, 300, 440, 670, 1000, or 1500ppm
<Duration of Dosing>	
5d/wk for 2wk	5d/wk for 13wk
<Animal Maintenance>	
Feed	
CRF-1 (Oriental Yeast Co.,Ltd.) Sterilized by γ-ray Available *ad libitum*	Same as two-week studies
Water	
Sterilized by ultraviolet rays Automatic watering system Available *ad libitum*	Same as two-week studies
Animals per Cage	
Single (stainless steel wire)	Single (stainless steel wire)
Animal Room Environment	
Barrier system Temperature:21±2℃ Humidity :60±10% Fluorescent light 12h/d 15-17 room air changes /h	Same as two-week studies
Chamber Environment	
Temperature:20～24℃ Humidity :30～70% Fluorescent light 12h/d 12±1 room air changes /h	Same as two-week studies
<Type and Frequency of Observation>	
Clinical sign	
Observed 1×d	Observed 1×d
Body weight	
Weighed 0-0, 1-1, 1-7, and 2-7 (wk-d)	Weighed 1×wk for 13wk
Food Consumption	
Weighed 1-7, 2-7 (wk-d)	Weighed 1×wk for 13wk

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

Two-week Studies	Thirteen-week Studies
<Hematology>	
None	Red blood cell (RBC), Hemoglobin, Hematocrit, Mean corpuscular volume (MCV), Mean corpuscular hemoglobin (MCH), Mean corpuscular hemoglobin concentration (MCHC), Platelet, White blood cell (WBC), Differential WBC.
<Blood Biochemistry>	
None	Total protein, Albumin, A/G ratio, T-bilirubin, Glucose, T-cholesterol, Triglyceride, Phospholipid <rat only>, Glutamic oxaloacetic transaminase (GOT), Glutamic pyruvic transaminase (GPT), Lactate dehydrogenase (LDH), Alkaline phosphatase (ALP), γ-Glutamil transpeptidase (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.
<Necropsy>	
Necropsy performed on all animals.	Same as two-week studies.
<Organ weight>	
None	Organ weight measurement performed on scheduled sacrificed animals. The following organs were weighed: brain, lung, liver, spleen, heart, kidney, adrenal, testis, ovary, thymus.
<Histopathologic Examination>	
Histopathologic examination performed on at least two animals per sex per groups.	Histopathologic examination performed on all animals.
The following organs were examined: nasal cavity, trachea, lung, bone marrow, lymph node, thymus, spleen, heart, stomach, small intestine, large intestine, liver, pancreas, kidney, pituitary, adrenal, testis, ovary, brain, muscle.	The following organs were examined: skin, nasal cavity trachea, lung, bone marrow,lymph node, thymus, spleen, heart, tongue, salivary gland, esophagus, stomach, small intestine, large intestine, liver, pancreas, kidney, urinary bladder, pituitary, thyroid, adrenal, testis, epididymis, seminal vesicle, prostate, ovary, uterus, ,vagina, mammary gland, brain, spinal cord, peripheral nerve, eye, Harderian gland, muscle, bone.

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

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	190 ppm Av.Wt.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.Wt.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.Wt.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
0-0	124 (10)	10/10	124 (10)	100	10/10	124 (10)	100	10/10	122 (10)	98	10/10	124 (10)	100	10/10	124 (10)	100	10/10
1-1	127 (10)	10/10	126 (10)	99	10/10	126 (10)	99	10/10	125 (10)	98	10/10	125 (10)	98	10/10	123 (10)	97	10/10
1-7	147 (10)	10/10	143 (10)	97	10/10	145 (10)	99	10/10	139 (10)	95	10/10	140 (10)	95	10/10	132 (10)	90	10/10
2-7	168 (10)	10/10	166 (10)	99	10/10	167 (10)	99	10/10	158 (10)	94	10/10	157 (10)	93	10/10	140 (10)	83	10/10

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

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

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	190 ppm Av.Wt.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.Wt.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.Wt.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
0-0	102 (10)	10/10	102 (10)	100	10/10	103 (10)	101	10/10	102 (10)	100	10/10	102 (10)	100	10/10	102 (10)	100	10/10
1-1	103 (10)	10/10	103 (10)	100	10/10	104 (10)	101	10/10	102 (10)	99	10/10	102 (10)	99	10/10	101 (10)	98	10/10
1-7	111 (10)	10/10	110 (10)	99	10/10	111 (10)	100	10/10	108 (10)	97	10/10	107 (10)	96	10/10	105 (10)	95	10/10
2-7	121 (10)	10/10	121 (10)	100	10/10	123 (10)	102	10/10	117 (10)	97	10/10	115 (10)	95	10/10	110 (10)	91	10/10

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

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

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	14.1 (10)	10/10	14.3 (10)	101	10/10	14.2 (10)	101	10/10	14.0 (10)	99	10/10	13.5 (10)	96	10/10	12.9 (10)	91	10/10
2-7	14.9 (10)	10/10	15.4 (10)	103	10/10	14.8 (10)	99	10/10	14.5 (10)	97	10/10	14.2 (10)	95	10/10	13.8 (10)	93	10/10

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

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

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	11.3 (10)	10/10	11.1 (10)	98	10/10	11.1 (10)	98	10/10	11.0 (10)	97	10/10	10.5 (10)	93	10/10	10.7 (10)	95	10/10
2-7	11.5 (10)	10/10	11.7 (10)	102	10/10	11.4 (10)	99	10/10	10.9 (10)	95	10/10	11.0 (10)	96	10/10	10.5 (10)	91	10/10

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

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

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	190 ppm Av.Wt.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.Wt.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.Wt.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
0-0	127 (10)	10/10	127 (10)	100	10/10	128 (10)	101	10/10	127 (10)	100	10/10	127 (10)	100	10/10	126 (10)	99	10/10
1-7	158 (10)	10/10	157 (10)	99	10/10	154 (10)	97	10/10	153 (10)	97	10/10	146 (10)	92	10/10	133 (10)	84	10/10
2-7	192 (10)	10/10	185 (10)	96	10/10	183 (10)	95	10/10	178 (10)	93	10/10	165 (10)	86	10/10	130 (10)	68	10/10
3-7	213 (10)	10/10	205 (10)	96	10/10	202 (10)	95	10/10	195 (10)	92	10/10	179 (10)	84	10/10	145 (10)	68	10/10
4-7	231 (10)	10/10	225 (10)	97	10/10	219 (10)	95	10/10	206 (10)	89	10/10	186 (10)	81	10/10	139 (10)	60	10/10
5-7	249 (10)	10/10	249 (10)	100	10/10	237 (10)	95	10/10	217 (10)	87	10/10	191 (10)	77	10/10	139 (10)	56	10/10
6-7	261 (10)	10/10	262 (10)	100	10/10	247 (10)	95	10/10	222 (10)	85	10/10	191 (10)	73	10/10	139 (10)	53	10/10
7-7	272 (10)	10/10	272 (10)	100	10/10	257 (10)	94	10/10	227 (10)	83	10/10	190 (10)	70	10/10	138 (10)	51	10/10
8-7	285 (10)	10/10	284 (10)	100	10/10	267 (10)	94	10/10	232 (10)	81	10/10	190 (10)	67	10/10	138 (10)	48	10/10
9-7	299 (10)	10/10	302 (10)	101	10/10	280 (10)	94	10/10	241 (10)	81	10/10	195 (10)	65	10/10	144 (10)	48	10/10
10-7	306 (10)	10/10	310 (10)	101	10/10	287 (10)	94	10/10	246 (10)	80	10/10	195 (10)	64	10/10	143 (10)	47	10/10
11-7	317 (10)	10/10	318 (10)	100	10/10	297 (10)	94	10/10	254 (10)	80	10/10	199 (10)	63	10/10	144 (10)	45	10/10
12-7	325 (10)	10/10	323 (10)	99	10/10	303 (10)	93	10/10	260 (10)	80	10/10	203 (10)	62	10/10	139 (10)	43	10/10
13-7	335 (10)	10/10	330 (10)	99	10/10	310 (10)	93	10/10	266 (10)	79	10/10	210 (10)	63	10/10	145 (9)	43	9/10

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

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

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	190 ppm Av.Wt.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.Wt.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.Wt.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
0-0	102 (10)	10/10	103 (10)	101	10/10	103 (10)	101	10/10	102 (10)	100	10/10	102 (10)	100	10/10	102 (10)	100	10/10
1-7	117 (10)	10/10	118 (10)	101	10/10	118 (10)	101	10/10	116 (10)	99	10/10	112 (10)	96	10/10	102 (10)	87	10/10
2-7	134 (10)	10/10	130 (10)	97	10/10	130 (10)	97	10/10	126 (10)	94	10/10	120 (10)	90	10/10	97 (10)	72	10/10
3-7	140 (10)	10/10	139 (10)	99	10/10	137 (10)	98	10/10	132 (10)	94	10/10	127 (10)	91	10/10	105 (10)	75	10/10
4-7	151 (10)	10/10	147 (10)	97	10/10	146 (10)	97	10/10	138 (10)	91	10/10	130 (10)	86	10/10	99 (10)	66	10/10
5-7	160 (10)	10/10	158 (10)	99	10/10	156 (10)	98	10/10	146 (10)	91	10/10	134 (10)	84	10/10	99 (10)	62	10/10
6-7	166 (10)	10/10	164 (10)	99	10/10	159 (10)	96	10/10	148 (10)	89	10/10	134 (10)	81	10/10	99 (10)	60	10/10
7-7	169 (10)	10/10	168 (10)	99	10/10	163 (10)	96	10/10	150 (10)	89	10/10	134 (10)	79	10/10	100 (10)	59	10/10
8-7	172 (10)	10/10	172 (10)	100	10/10	167 (10)	97	10/10	154 (10)	90	10/10	132 (10)	77	10/10	98 (10)	57	10/10
9-7	177 (10)	10/10	178 (10)	101	10/10	171 (10)	97	10/10	156 (10)	88	10/10	136 (10)	77	10/10	100 (10)	56	10/10
10-7	180 (10)	10/10	180 (10)	100	10/10	172 (10)	96	10/10	157 (10)	87	10/10	135 (10)	75	10/10	98 (10)	54	10/10
11-7	182 (10)	10/10	184 (10)	101	10/10	177 (10)	97	10/10	162 (10)	89	10/10	136 (10)	75	10/10	99 (10)	54	10/10
12-7	186 (10)	10/10	188 (10)	101	10/10	180 (10)	97	10/10	163 (10)	88	10/10	137 (10)	74	10/10	98 (10)	53	10/10
13-7	189 (10)	10/10	192 (10)	102	10/10	181 (10)	96	10/10	166 (10)	88	10/10	138 (10)	73	10/10	99 (10)	52	10/10

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

(STUDY No.0174/5,0191/2)

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

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	15.8 (10)	10/10	15.7 (10)	99	10/10	15.3 (10)	97	10/10	15.2 (10)	96	10/10	14.1 (10)	89	10/10	12.8 (10)	81	10/10
2-7	17.4 (10)	10/10	16.5 (10)	95	10/10	16.5 (10)	95	10/10	16.0 (10)	92	10/10	14.6 (10)	84	10/10	11.4 (10)	66	10/10
3-7	17.2 (10)	10/10	16.3 (10)	95	10/10	16.5 (10)	96	10/10	15.5 (10)	90	10/10	14.9 (10)	87	10/10	12.2 (10)	71	10/10
4-7	17.5 (10)	10/10	17.4 (10)	99	10/10	17.1 (10)	98	10/10	16.3 (10)	93	10/10	14.9 (10)	85	10/10	11.6 (10)	66	10/10
5-7	17.7 (10)	10/10	18.0 (10)	102	10/10	17.4 (10)	98	10/10	15.2 (10)	86	10/10	14.3 (10)	81	10/10	11.2 (10)	63	10/10
6-7	17.2 (10)	10/10	18.4 (10)	107	10/10	17.1 (10)	99	10/10	15.0 (10)	87	10/10	13.7 (10)	80	10/10	11.7 (10)	68	10/10
7-7	16.7 (10)	10/10	17.6 (10)	105	10/10	16.1 (10)	96	10/10	14.3 (10)	86	10/10	13.3 (10)	80	10/10	10.8 (10)	65	10/10
8-7	16.8 (10)	10/10	16.8 (10)	100	10/10	15.9 (10)	95	10/10	13.8 (10)	82	10/10	12.4 (10)	74	10/10	10.3 (10)	61	10/10
9-7	17.7 (10)	10/10	17.0 (10)	96	10/10	16.1 (10)	91	10/10	13.3 (10)	75	10/10	11.4 (10)	64	10/10	10.7 (10)	60	10/10
10-7	16.8 (10)	10/10	16.6 (10)	99	10/10	15.7 (10)	93	10/10	13.2 (10)	79	10/10	10.4 (10)	62	10/10	9.7 (10)	58	10/10
11-7	16.9 (10)	10/10	17.4 (10)	103	10/10	16.9 (10)	100	10/10	14.6 (10)	86	10/10	12.4 (10)	73	10/10	10.2 (10)	60	10/10
12-7	16.5 (10)	10/10	16.6 (10)	101	10/10	16.1 (10)	98	10/10	14.3 (10)	87	10/10	12.6 (10)	76	10/10	9.7 (10)	59	10/10
13-7	16.7 (10)	10/10	16.4 (10)	98	10/10	16.0 (10)	96	10/10	14.6 (10)	87	10/10	13.1 (10)	78	10/10	10.7 (10)	64	9/10

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

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

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	12.4 (10)	10/10	12.4 (10)	100	10/10	12.3 (10)	99	10/10	12.0 (10)	97	10/10	11.0 (10)	89	10/10	9.9 (10)	80	10/10
2-7	13.1 (10)	10/10	12.0 (10)	92	10/10	12.4 (10)	95	10/10	12.4 (10)	95	10/10	11.0 (10)	84	10/10	7.9 (10)	60	10/10
3-7	12.7 (10)	10/10	12.2 (10)	96	10/10	12.5 (10)	98	10/10	11.9 (10)	94	10/10	11.7 (10)	92	10/10	8.6 (10)	68	10/10
4-7	13.0 (10)	10/10	12.6 (10)	97	10/10	12.9 (10)	99	10/10	12.4 (10)	95	10/10	11.4 (10)	88	10/10	7.3 (10)	56	10/10
5-7	14.4 (10)	10/10	13.1 (10)	91	10/10	12.8 (10)	89	10/10	12.4 (10)	86	10/10	10.7 (10)	74	10/10	7.4 (10)	51	10/10
6-7	12.8 (10)	10/10	12.9 (10)	101	10/10	12.3 (10)	96	10/10	11.9 (10)	93	10/10	10.3 (10)	80	10/10	7.9 (10)	62	10/10
7-7	11.7 (10)	10/10	11.6 (10)	99	10/10	11.5 (10)	98	10/10	10.7 (10)	91	10/10	9.7 (10)	83	10/10	8.2 (10)	70	10/10
8-7	11.0 (10)	10/10	11.3 (10)	103	10/10	11.3 (10)	103	10/10	10.6 (10)	96	10/10	9.3 (10)	85	10/10	7.2 (10)	65	10/10
9-7	12.1 (10)	10/10	12.2 (10)	101	10/10	11.3 (10)	93	10/10	10.6 (10)	88	10/10	8.9 (10)	74	10/10	7.2 (10)	60	10/10
10-7	11.3 (10)	10/10	11.0 (10)	97	10/10	11.1 (10)	98	10/10	10.3 (10)	91	10/10	8.3 (10)	73	10/10	6.5 (10)	58	10/10
11-7	11.3 (10)	10/10	11.3 (10)	100	10/10	11.6 (10)	103	10/10	10.7 (10)	95	10/10	9.6 (10)	85	10/10	7.1 (10)	63	10/10
12-7	11.6 (10)	10/10	11.7 (10)	101	10/10	11.4 (10)	98	10/10	10.4 (10)	90	10/10	9.0 (10)	78	10/10	7.2 (10)	62	10/10
13-7	11.7 (10)	10/10	12.1 (10)	103	10/10	11.2 (10)	96	10/10	11.0 (10)	94	10/10	8.8 (10)	75	10/10	7.6 (10)	65	10/10

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

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

Week-Day on Study	0 ppm		190 ppm			380 ppm			750 ppm			1500 ppm			3000 ppm		
	Av.Wt.	No.of Surviv. <9>	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.
0-0	22.9 (9)	10/10	22.7 (10)	99	10/10	22.7 (10)	99	10/10	22.8 (10)	100	10/10	22.9 (10)	100	10/10	22.7 (10)	99	10/10
1-1	23.6 (9)	10/10	22.5 (10)	95	10/10	23.1 (10)	98	10/10	22.7 (10)	96	10/10	22.2 (10)	94	10/10	20.9 (10)	89	8/10
1-7	24.6 (9)	10/10	23.7 (10)	96	10/10	24.1 (10)	98	10/10	24.3 (10)	99	10/10	23.2 (9)	94	9/10	- (-)	-	0/10
2-7	25.2 (9)	9/ 9	24.9 (10)	99	10/10	24.9 (10)	99	10/10	24.8 (10)	98	10/10	23.6 (9)	94	9/10	- (-)	-	0/10

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

TABLE 11 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (TWO-WEEK STUDY)

Week-Day on Study	0 ppm		190 ppm			380 ppm			750 ppm			1500 ppm			3000 ppm		
	Av.Wt.	No.of Surviv. <10>	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.
0-0	18.9 (10)	10/10	19.0 (10)	101	10/10	19.0 (10)	101	10/10	18.7 (10)	99	10/10	18.9 (10)	100	10/10	18.6 (10)	98	10/10
1-1	18.8 (10)	10/10	19.0 (10)	101	10/10	18.9 (10)	101	10/10	18.4 (10)	98	10/10	18.4 (10)	98	10/10	18.0 (10)	96	10/10
1-7	19.6 (10)	10/10	19.7 (10)	101	10/10	19.2 (10)	98	10/10	19.4 (10)	99	10/10	18.4 (10)	94	10/10	- (-)	-	0/10
2-7	20.4 (10)	10/10	20.9 (10)	102	10/10	20.6 (10)	101	10/10	20.5 (10)	100	10/10	19.6 (10)	96	10/10	- (-)	-	0/10

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

TABLE 12 FOOD CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDY)

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <9>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	4.1 (9)	10/10	4.0 (10)	98	10/10	4.1 (10)	100	10/10	4.1 (10)	100	10/10	3.5 (10)	85	9/10	0.8 (7)	20	0/10
2-7	4.2 (6)	9/ 9	4.0 (10)	95	10/10	4.2 (10)	100	10/10	4.4 (10)	105	10/10	4.3 (9)	102	9/10	- (-)	-	0/10

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

TABLE 13 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDY)

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	190 ppm Av.FC.	190 ppm % of cont. <10>	190 ppm No.of Surviv.	380 ppm Av.FC.	380 ppm % of cont. <10>	380 ppm No.of Surviv.	750 ppm Av.FC.	750 ppm % of cont. <10>	750 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.
1-7	3.2 (10)	10/10	3.4 (10)	106	10/10	3.2 (10)	100	10/10	3.2 (10)	100	10/10	3.1 (10)	97	10/10	1.0 (10)	31	0/10
2-7	3.9 (10)	10/10	4.0 (10)	103	10/10	3.9 (10)	100	10/10	3.8 (10)	97	10/10	3.7 (10)	95	10/10	- (-)	-	0/10

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

TABLE 14 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (THIRTEEN-WEEK STUDY)

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	300 ppm Av.Wt.	300 ppm % of cont. <10>	300 ppm No.of Surviv.	440 ppm Av.Wt.	440 ppm % of cont. <10>	440 ppm No.of Surviv.	670 ppm Av.Wt.	670 ppm % of cont. <10>	670 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.
0-0	23.3 (10)	10/10	23.1 (10)	99	10/10	23.2 (10)	100	10/10	23.5 (10)	101	10/10	23.1 (10)	99	10/10	23.3 (10)	100	10/10
1-7	25.2 (10)	10/10	25.0 (10)	99	10/10	24.9 (10)	99	10/10	24.4 (10)	97	10/10	23.4 (10)	93	10/10	22.9 (6)	91	6/10
2-7	26.1 (10)	10/10	25.5 (10)	98	10/10	25.2 (10)	97	10/10	24.8 (10)	95	10/10	23.9 (10)	92	10/10	22.5 (6)	86	6/10
3-7	27.0 (10)	10/10	26.2 (10)	97	10/10	25.8 (10)	96	10/10	25.1 (10)	93	10/10	24.2 (10)	90	10/10	23.4 (6)	87	6/10
4-7	27.8 (10)	10/10	26.5 (10)	95	10/10	26.2 (10)	94	10/10	25.2 (10)	91	10/10	24.3 (10)	87	10/10	23.2 (6)	83	6/10
5-7	29.3 (10)	10/10	27.3 (10)	93	10/10	26.7 (10)	91	10/10	25.6 (10)	87	10/10	24.6 (10)	84	10/10	22.7 (6)	77	6/10
6-7	30.3 (10)	10/10	27.5 (10)	91	10/10	27.2 (10)	90	10/10	25.8 (10)	85	10/10	24.7 (10)	82	10/10	24.4 (5)	81	5/10
7-7	30.9 (10)	10/10	27.8 (10)	90	10/10	26.8 (10)	87	10/10	25.7 (10)	83	10/10	24.7 (10)	80	10/10	24.0 (5)	78	5/10
8-7	31.8 (10)	10/10	27.9 (10)	88	10/10	26.9 (10)	85	10/10	25.7 (10)	81	10/10	24.2 (10)	76	10/10	23.4 (5)	74	5/10
9-7	33.2 (10)	10/10	28.7 (10)	86	10/10	27.5 (10)	83	10/10	26.2 (10)	79	10/10	24.9 (10)	75	10/10	23.6 (4)	71	4/10
10-7	33.6 (10)	10/10	28.8 (10)	86	10/10	27.0 (10)	80	10/10	26.1 (10)	78	10/10	24.8 (10)	74	10/10	- (-)	-	0/10
11-7	34.7 (10)	10/10	29.3 (10)	84	10/10	27.7 (10)	80	10/10	26.6 (10)	77	10/10	25.5 (8)	73	8/10	- (-)	-	0/10
12-7	35.3 (10)	10/10	30.1 (10)	85	10/10	28.2 (10)	80	10/10	26.8 (10)	76	10/10	26.2 (8)	74	8/10	- (-)	-	0/10
13-7	36.5 (10)	10/10	30.7 (10)	84	10/10	29.1 (10)	80	10/10	27.5 (10)	75	10/10	26.8 (8)	73	8/10	- (-)	-	0/10

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

TABLE 15 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

Week-Day on Study	0 ppm Av.Wt.	0 ppm No.of Surviv. <10>	300 ppm Av.Wt.	300 ppm % of cont. <10>	300 ppm No.of Surviv.	440 ppm Av.Wt.	440 ppm % of cont. <10>	440 ppm No.of Surviv.	670 ppm Av.Wt.	670 ppm % of cont. <10>	670 ppm No.of Surviv.	1000 ppm Av.Wt.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	1500 ppm Av.Wt.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.
0-0	18.7 (10)	10/10	18.5 (10)	99	10/10	18.6 (10)	99	10/10	18.2 (10)	97	10/10	18.4 (10)	98	10/10	18.7 (10)	100	10/10
1-7	20.4 (10)	10/10	19.9 (10)	98	10/10	20.0 (10)	98	10/10	19.0 (10)	93	10/10	18.8 (10)	92	10/10	18.8 (10)	92	10/10
2-7	21.2 (10)	10/10	20.1 (10)	95	10/10	20.4 (10)	96	10/10	20.1 (10)	95	10/10	19.2 (10)	91	10/10	18.3 (10)	86	10/10
3-7	22.2 (10)	10/10	21.0 (10)	95	10/10	20.7 (10)	93	10/10	20.5 (10)	92	10/10	19.9 (10)	90	10/10	19.3 (10)	87	10/10
4-7	22.8 (10)	10/10	21.7 (10)	95	10/10	21.6 (10)	95	10/10	21.2 (10)	93	10/10	20.5 (10)	90	10/10	19.9 (10)	87	10/10
5-7	24.2 (10)	10/10	22.7 (10)	94	10/10	22.0 (10)	91	10/10	21.4 (10)	88	10/10	20.6 (10)	85	10/10	19.8 (10)	82	10/10
6-7	23.9 (10)	10/10	22.9 (10)	96	10/10	22.9 (10)	96	10/10	22.1 (10)	92	10/10	21.4 (10)	90	10/10	20.5 (10)	86	10/10
7-7	24.5 (10)	10/10	23.3 (10)	95	10/10	22.7 (10)	93	10/10	21.9 (10)	89	10/10	21.2 (10)	87	10/10	20.8 (10)	85	10/10
8-7	24.6 (10)	10/10	23.8 (10)	97	10/10	22.7 (10)	92	10/10	22.2 (10)	90	10/10	21.2 (10)	86	10/10	20.6 (9)	84	9/10
9-7	25.3 (10)	10/10	24.1 (10)	95	10/10	23.1 (10)	91	10/10	22.6 (10)	89	10/10	21.4 (10)	85	10/10	20.9 (8)	83	8/10
10-7	25.4 (10)	10/10	23.9 (10)	94	10/10	23.0 (10)	91	10/10	22.5 (10)	89	10/10	21.1 (10)	83	10/10	20.3 (2)	80	2/10
11-7	25.4 (10)	10/10	24.4 (10)	96	10/10	23.8 (10)	94	10/10	23.1 (10)	91	10/10	21.2 (9)	83	9/10	- (-)	-	0/10
12-7	26.2 (10)	10/10	24.2 (10)	92	10/10	24.1 (10)	92	10/10	23.2 (10)	89	10/10	22.3 (9)	85	9/10	- (-)	-	0/10
13-7	26.4 (10)	10/10	24.7 (10)	94	10/10	24.3 (10)	92	10/10	23.5 (10)	89	10/10	22.9 (9)	87	9/10	- (-)	-	0/10

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

TABLE 16 FOOD CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDY)

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	300 ppm Av.FC.	300 ppm % of cont. <10>	300 ppm No.of Surviv.	440 ppm Av.FC.	440 ppm % of cont. <10>	440 ppm No.of Surviv.	670 ppm Av.FC.	670 ppm % of cont. <10>	670 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.
1-7	4.3 (10)	10/10	4.1 (10)	95	10/10	4.1 (10)	95	10/10	3.8 (10)	88	10/10	3.6 (10)	84	10/10	2.3 (9)	53	6/10
2-7	4.2 (10)	10/10	4.0 (10)	95	10/10	3.9 (10)	93	10/10	4.2 (10)	100	10/10	4.3 (10)	102	10/10	5.1 (6)	121	6/10
3-7	4.2 (10)	10/10	4.0 (10)	95	10/10	4.0 (10)	95	10/10	4.6 (10)	110	10/10	4.6 (10)	110	10/10	5.1 (6)	121	6/10
4-7	4.6 (10)	10/10	4.3 (10)	93	10/10	4.3 (10)	93	10/10	4.5 (10)	98	10/10	4.6 (10)	100	10/10	4.9 (6)	107	6/10
5-7	4.6 (10)	10/10	4.3 (10)	93	10/10	4.3 (10)	93	10/10	4.4 (10)	96	10/10	4.6 (10)	100	10/10	4.6 (6)	100	6/10
6-7	4.6 (10)	10/10	4.1 (10)	89	10/10	4.2 (10)	91	10/10	4.4 (10)	96	10/10	4.4 (10)	96	10/10	5.3 (5)	115	5/10
7-7	4.4 (10)	10/10	4.2 (10)	95	10/10	4.2 (10)	95	10/10	4.6 (10)	105	10/10	4.3 (10)	98	10/10	4.9 (5)	111	5/10
8-7	4.6 (10)	10/10	4.3 (10)	93	10/10	4.4 (10)	96	10/10	4.6 (10)	100	10/10	4.5 (10)	98	10/10	5.1 (5)	111	5/10
9-7	4.9 (10)	10/10	4.3 (10)	88	10/10	4.3 (10)	88	10/10	4.6 (10)	94	10/10	4.7 (10)	96	10/10	4.9 (5)	100	4/10
10-7	4.7 (10)	10/10	4.4 (10)	94	10/10	4.4 (10)	94	10/10	4.7 (10)	100	10/10	4.6 (10)	98	10/10	1.7 (4)	36	0/10
11-7	4.8 (10)	10/10	4.3 (10)	90	10/10	4.5 (10)	94	10/10	4.7 (10)	98	10/10	4.5 (10)	94	8/10	- (-)	-	0/10
12-7	4.8 (10)	10/10	4.5 (10)	94	10/10	4.6 (10)	96	10/10	4.6 (10)	96	10/10	4.7 (8)	98	8/10	- (-)	-	0/10
13-7	4.8 (10)	10/10	4.4 (10)	92	10/10	4.7 (10)	98	10/10	4.5 (10)	94	10/10	4.6 (8)	96	8/10	- (-)	-	0/10

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

TABLE 17 FOOD CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

Week-Day on Study	0 ppm Av.FC.	0 ppm No.of Surviv. <10>	300 ppm Av.FC.	300 ppm % of cont. <10>	300 ppm No.of Surviv.	440 ppm Av.FC.	440 ppm % of cont. <10>	440 ppm No.of Surviv.	670 ppm Av.FC.	670 ppm % of cont. <10>	670 ppm No.of Surviv.	1000 ppm Av.FC.	1000 ppm % of cont. <10>	1000 ppm No.of Surviv.	1500 ppm Av.FC.	1500 ppm % of cont. <10>	1500 ppm No.of Surviv.
1-7	3.6 (10)	10/10	3.5 (10)	97	10/10	3.4 (10)	94	10/10	3.1 (10)	86	10/10	3.1 (10)	86	10/10	3.0 (10)	83	10/10
2-7	3.6 (10)	10/10	3.4 (10)	94	10/10	3.5 (10)	97	10/10	3.7 (10)	103	10/10	3.7 (10)	103	10/10	3.6 (10)	100	10/10
3-7	3.9 (10)	10/10	3.8 (10)	97	10/10	3.7 (10)	95	10/10	4.2 (10)	108	10/10	4.2 (10)	108	10/10	4.5 (10)	115	10/10
4-7	4.1 (10)	10/10	4.1 (10)	100	10/10	4.0 (10)	98	10/10	4.1 (10)	100	10/10	4.3 (10)	105	10/10	4.4 (10)	107	10/10
5-7	4.4 (10)	10/10	4.2 (10)	95	10/10	4.0 (10)	91	10/10	4.0 (10)	91	10/10	4.3 (10)	98	10/10	4.4 (10)	100	10/10
6-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.0 (10)	95	10/10	4.2 (10)	100	10/10	4.3 (10)	102	10/10	4.4 (10)	105	10/10
7-7	4.4 (10)	10/10	4.3 (10)	98	10/10	4.2 (10)	95	10/10	4.3 (10)	98	10/10	4.2 (10)	95	10/10	4.3 (10)	98	10/10
8-7	4.5 (10)	10/10	4.6 (10)	102	10/10	4.3 (10)	96	10/10	4.6 (10)	102	10/10	4.4 (5)	98	10/10	4.2 (10)	93	9/10
9-7	4.6 (10)	10/10	4.5 (10)	98	10/10	4.3 (10)	93	10/10	4.6 (10)	100	10/10	4.3 (10)	93	10/10	4.3 (9)	93	8/10
10-7	4.7 (10)	10/10	4.7 (10)	100	10/10	4.5 (10)	96	10/10	4.8 (10)	102	10/10	4.4 (10)	94	10/10	3.1 (8)	66	2/10
11-7	4.5 (10)	10/10	4.7 (10)	104	10/10	4.6 (10)	102	10/10	4.8 (10)	107	10/10	3.9 (10)	87	9/10	1.1 (2)	24	0/10
12-7	4.7 (10)	10/10	4.7 (10)	100	10/10	4.4 (10)	94	10/10	4.7 (10)	100	10/10	4.4 (9)	94	9/10	- (-)	-	0/10
13-7	4.7 (10)	10/10	4.7 (10)	100	10/10	4.3 (10)	91	10/10	4.5 (10)	96	10/10	4.3 (9)	91	9/10	- (-)	-	0/10

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