１，１，１－トリクロロエタンのラット及びマウスを用いた吸入によるがん原性予備試験報告書

試験番号

２週間　：ラット/0156；マウス/0157

１３週間：ラット/0166；マウス/0167

TABLES

TABLES

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

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 species	10 males and 10 females of each species
<Animals>	
Strain and Species	
F344/DuCrj(Fischer)rat	F344/DuCrj(Fischer)rat
Crj:BDF1mouse	Crj:BDF1mouse
Animal Source	
Charles River Japan, Inc.	Charles River Japan, Inc.
Duration Held Before Study	
2 wk	2 wk
Age When Placed on Study	
6 wk	6 wk
Age When Killed	
8 wk	19 wk
<Exposure Concentrations>	
Rat : 0, 2000, 3000, 4400, 6700 or 10000ppm	Rat : 0, 2000, 3000, 4400, 6700 or 10000ppm
Mouse: 0, 1300, 2000, 3000, 4500 or 6700ppm	Mouse: 0, 3000, 4400, 6700, 10000 or 15000ppm
<Duration of Exposure>	
5 d/wk for 2 wk	5 d/wk for 13 wk
<Animal Maintenance>	
Feed	
CRF-1 (Oriental Yeast Co., Ltd.) Sterilized by γ-ray Available *ad libitum*	Same as two-week studies
Water	
Filtrated and sterilized by ultraviolet rays Automatic watering system Available *ad libitum*	Same as two-week studies
Animals per Cage	
Single (stainless steel wire)	Same as two-week studies
Animal Room Environment	
Barrier system Temperature: 22±2℃ Humidity: 60±10% Fluorescent light: 12 h/d Room air changes: 15-17 changes/h	Same as two-week studies
Chamber Environment	Chamber Environment
Temperature: 20-24℃	Temperature: 21-25℃
Humidity: 45-70%	Humidity: 45-70%
Fluorescent light: 12 h/d	Fluorescent light: 12 h/d
Room air changes: 12 changes/h	Room air changes: 12 ± 1 changes/h
<Type and Frequency of Observation>	
Clinical Sign	
Observed 2 per d (1 per d without Exposure day)	Observed 1 per d
Body weight	
Weighed 0-0, 1-1, 1-7 and 2-7(wk-d)	Weighed 1 per wk
Food Consumption	
Weighed 1-7 and 2-7(wk-d)	Weighed 1 per wk

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF 1,1,1-TRICHLOROETHANE(Continued)

Two-Week Studies	Thirteen-Week Studies
<Hematology>	
Red blood cell, Hemoglobin,Hematocrit, Mean corpuscular volume(MCV), Mean corpuscular Hemoglobin(MCH), Mean corpuscular Hemoglobin concentration(MCHC), Platelet,White blood cell(WBC), Differential WBC	Red blood cell, Hemoglobin,Hematocrit, Mean corpuscular volume(MCV), Mean corpuscular Hemoglobin(MCH), Mean corpuscular Hemoglobin concentration(MCHC), Platelet,White blood cell(WBC), Differential WBC
<Biochemistry>	
Total protein,Albumin, A/G raito,T-bilirubin,Glucose, T-cholesterol, Glutamic oxaloacetic transaminase(GOT), Glutamic pyruvic transaminase(GPT), Lactate dehydrogenase(LDH), Creatine phosphokinase(CPK), Urea nitrogen, Sodium,Potassium,Chloride, Calcium,Inorganic phosphorus	Total protein,Albumin, A/G raito,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: 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	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	Control		2000 ppm			3000 ppm			4400 ppm			6700 ppm			10000 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	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
1-1	133 (10)	10/10	132 (10)	99	10/10	131 (10)	98	10/10	129 (10)	97	10/10	127 (10)	95	10/10	125 (10)	94	10/10
1-7	158 (10)	10/10	153 (10)	97	10/10	151 (10)	96	10/10	149 (10)	94	10/10	145 (10)	92	10/10	134 (10)	85	10/10
2-7	185 (10)	10/10	178 (10)	96	10/10	178 (10)	96	10/10	176 (10)	95	10/10	170 (10)	92	10/10	151 (10)	82	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	Control		2000 ppm			3000 ppm			4400 ppm			6700 ppm			10000 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	104 (10)	10/10	104 (10)	100	10/10	104 (10)	100	10/10	104 (10)	100	10/10	104 (10)	100	10/10	103 (10)	99	10/10
1-1	105 (10)	10/10	103 (10)	98	10/10	103 (10)	98	10/10	102 (10)	97	10/10	101 (10)	96	10/10	100 (10)	95	10/10
1-7	117 (10)	10/10	116 (10)	99	10/10	115 (10)	98	10/10	113 (10)	97	10/10	112 (10)	96	10/10	106 (10)	91	10/10
2-7	128 (10)	10/10	129 (10)	101	10/10	126 (10)	98	10/10	127 (10)	99	10/10	126 (10)	98	10/10	115 (10)	90	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	Control Av.FC.	Control No.of Surviv. <10>	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
1-7	16.6 (10)	10/10	15.4 (10)	93	10/10	15.2 (10)	92	10/10	14.8 (10)	89	10/10	14.6 (10)	88	10/10	12.1 (10)	73	10/10
2-7	16.6 (10)	10/10	16.7 (10)	101	10/10	15.9 (10)	96	10/10	16.0 (10)	96	10/10	15.7 (10)	95	10/10	13.4 (10)	81	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	Control Av.FC.	Control No.of Surviv. <10>	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
1-7	12.7 (10)	10/10	12.2 (10)	96	10/10	11.7 (10)	92	10/10	11.5 (10)	91	10/10	11.3 (10)	89	10/10	9.7 (10)	76	10/10
2-7	12.0 (10)	10/10	12.3 (10)	103	10/10	11.2 (10)	93	10/10	12.1 (10)	101	10/10	11.8 (10)	98	10/10	10.8 (10)	90	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	Control Av.Wt.	Control No.of Surviv. <10>	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.Wt.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.Wt.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
0-0	132 (10)	10/10	132 (10)	100	10/10	131 (10)	99	10/10	132 (10)	100	10/10	132 (10)	100	10/10	132 (10)	100	10/10
1-7	163 (10)	10/10	159 (10)	98	10/10	158 (10)	97	10/10	153 (10)	94	10/10	145 (10)	89	10/10	131 (10)	80	10/10
2-7	195 (10)	10/10	189 (10)	97	10/10	189 (10)	97	10/10	182 (10)	93	10/10	171 (10)	88	10/10	144 (10)	74	10/10
3-7	221 (10)	10/10	216 (10)	98	10/10	217 (10)	98	10/10	202 (10)	91	10/10	193 (10)	87	10/10	159 (10)	72	10/10
4-7	242 (10)	10/10	235 (10)	97	10/10	238 (10)	98	10/10	219 (10)	90	10/10	211 (10)	87	10/10	173 (10)	71	10/10
5-7	257 (10)	10/10	252 (10)	98	10/10	256 (10)	100	10/10	233 (10)	91	10/10	225 (10)	88	10/10	184 (9)	72	9/10
6-7	273 (10)	10/10	266 (10)	97	10/10	270 (10)	99	10/10	244 (10)	89	10/10	233 (10)	85	10/10	191 (9)	70	9/10
7-7	288 (10)	10/10	278 (10)	97	10/10	283 (10)	98	10/10	255 (10)	89	10/10	245 (10)	85	10/10	199 (9)	69	9/10
8-7	304 (10)	10/10	293 (10)	96	10/10	297 (10)	98	10/10	268 (10)	88	10/10	253 (10)	83	10/10	207 (9)	68	9/10
9-7	315 (10)	10/10	303 (10)	96	10/10	305 (10)	97	10/10	275 (10)	87	10/10	262 (10)	83	10/10	218 (7)	69	7/10
10-7	322 (10)	10/10	310 (10)	96	10/10	315 (10)	98	10/10	282 (10)	88	10/10	270 (10)	84	10/10	225 (7)	70	7/10
11-7	329 (10)	10/10	317 (10)	96	10/10	318 (10)	97	10/10	287 (10)	87	10/10	276 (10)	84	10/10	233 (7)	71	7/10
12-7	337 (10)	10/10	323 (10)	96	10/10	328 (10)	97	10/10	296 (10)	88	10/10	282 (10)	84	10/10	239 (7)	71	7/10
13-7	343 (10)	10/10	332 (10)	97	10/10	333 (10)	97	10/10	299 (10)	87	10/10	287 (10)	84	10/10	243 (7)	71	7/10

< >: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	Control Av.Wt.	Control No.of Surviv. <10>	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.Wt.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.Wt.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
0-0	105 (10)	10/10	106 (10)	101	10/10	105 (10)	100	10/10	106 (10)	101	10/10	105 (10)	100	10/10	105 (10)	100	10/10
1-7	121 (10)	10/10	120 (10)	99	10/10	119 (10)	98	10/10	117 (10)	97	10/10	113 (10)	93	10/10	109 (10)	90	10/10
2-7	133 (10)	10/10	134 (10)	101	10/10	132 (10)	99	10/10	131 (10)	98	10/10	127 (10)	95	10/10	119 (10)	89	10/10
3-7	141 (10)	10/10	146 (10)	104	10/10	143 (10)	101	10/10	143 (10)	101	10/10	139 (10)	99	10/10	128 (10)	91	10/10
4-7	147 (10)	10/10	154 (10)	105	10/10	151 (10)	103	10/10	149 (10)	101	10/10	146 (10)	99	10/10	137 (10)	93	10/10
5-7	154 (10)	10/10	159 (10)	103	10/10	154 (10)	100	10/10	156 (10)	101	10/10	152 (10)	99	10/10	143 (10)	93	10/10
6-7	162 (10)	10/10	166 (10)	102	10/10	160 (10)	99	10/10	161 (10)	99	10/10	157 (10)	97	10/10	149 (10)	92	10/10
7-7	168 (10)	10/10	170 (10)	101	10/10	164 (10)	98	10/10	163 (10)	97	10/10	162 (10)	96	10/10	154 (10)	92	10/10
8-7	177 (10)	10/10	175 (10)	99	10/10	168 (10)	95	10/10	168 (10)	95	10/10	165 (10)	93	10/10	157 (10)	89	10/10
9-7	181 (10)	10/10	180 (10)	99	10/10	172 (10)	95	10/10	171 (10)	94	10/10	168 (10)	93	10/10	161 (10)	89	10/10
10-7	184 (10)	10/10	181 (10)	98	10/10	175 (10)	95	10/10	175 (10)	95	10/10	170 (10)	92	10/10	165 (10)	90	10/10
11-7	186 (10)	10/10	186 (10)	100	10/10	178 (10)	96	10/10	177 (10)	95	10/10	171 (10)	92	10/10	169 (10)	91	10/10
12-7	191 (10)	10/10	188 (10)	98	10/10	181 (10)	95	10/10	179 (10)	94	10/10	174 (10)	91	10/10	170 (10)	89	10/10
13-7	194 (10)	10/10	189 (10)	97	10/10	181 (10)	93	10/10	179 (10)	92	10/10	176 (10)	91	10/10	173 (10)	89	10/10

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

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

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
1-7	16.0 (10)	10/10	15.2 (10)	95	10/10	15.5 (10)	97	10/10	14.3 (10)	89	10/10	12.7 (10)	79	10/10	10.7 (10)	67	10/10
2-7	17.7 (10)	10/10	17.1 (10)	97	10/10	17.3 (10)	98	10/10	16.5 (10)	93	10/10	15.2 (10)	86	10/10	12.1 (10)	68	10/10
3-7	18.8 (10)	10/10	18.7 (10)	99	10/10	19.4 (10)	103	10/10	17.9 (10)	95	10/10	16.6 (10)	88	10/10	13.0 (10)	69	10/10
4-7	18.0 (10)	10/10	18.6 (10)	103	10/10	18.6 (10)	103	10/10	16.9 (10)	94	10/10	16.8 (10)	93	10/10	13.5 (10)	75	10/10
5-7	17.6 (10)	10/10	18.5 (10)	105	10/10	18.6 (10)	106	10/10	17.2 (10)	98	10/10	17.2 (10)	98	10/10	14.3 (10)	81	9/10
6-7	18.1 (10)	10/10	18.1 (10)	100	10/10	18.0 (10)	99	10/10	17.2 (10)	95	10/10	16.4 (10)	91	10/10	13.9 (9)	77	9/10
7-7	18.1 (10)	10/10	17.6 (10)	97	10/10	18.2 (10)	101	10/10	17.2 (10)	95	10/10	16.9 (10)	93	10/10	14.2 (9)	78	9/10
8-7	18.2 (10)	10/10	17.9 (10)	98	10/10	18.5 (10)	102	10/10	17.1 (10)	94	10/10	16.6 (10)	91	10/10	14.6 (9)	80	9/10
9-7	18.1 (9)	10/10	17.9 (10)	99	10/10	18.6 (10)	103	10/10	17.0 (10)	94	10/10	16.6 (10)	92	10/10	14.6 (8)	81	7/10
10-7	18.3 (10)	10/10	18.1 (10)	99	10/10	18.5 (10)	101	10/10	17.6 (10)	96	10/10	17.1 (10)	93	10/10	14.7 (7)	80	7/10
11-7	18.3 (10)	10/10	17.9 (10)	98	10/10	18.2 (10)	99	10/10	17.0 (10)	93	10/10	16.7 (10)	91	10/10	14.7 (7)	80	7/10
12-7	17.5 (10)	10/10	17.0 (9)	97	10/10	17.7 (10)	101	10/10	16.6 (10)	95	10/10	16.6 (10)	95	10/10	15.2 (7)	87	7/10
13-7	18.2 (10)	10/10	17.8 (10)	98	10/10	17.7 (10)	97	10/10	16.7 (10)	92	10/10	16.6 (10)	91	10/10	14.8 (7)	81	7/10

< >: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	Control Av.FC.	Control No.of Surviv. <10>	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.
1-7	12.5 (10)	10/10	11.9 (10)	95	10/10	11.9 (10)	95	10/10	11.6 (10)	93	10/10	10.6 (10)	85	10/10	9.7 (10)	78	10/10
2-7	12.9 (10)	10/10	12.7 (10)	98	10/10	12.5 (10)	97	10/10	12.7 (10)	98	10/10	12.0 (10)	93	10/10	10.7 (10)	83	10/10
3-7	12.4 (10)	10/10	13.0 (10)	105	10/10	13.1 (10)	106	10/10	13.1 (10)	106	10/10	12.5 (10)	101	10/10	11.4 (10)	92	10/10
4-7	12.7 (10)	10/10	13.5 (10)	106	10/10	12.6 (10)	99	10/10	12.2 (10)	96	10/10	12.1 (10)	95	10/10	11.7 (10)	92	10/10
5-7	12.7 (10)	10/10	13.2 (10)	104	10/10	12.2 (10)	96	10/10	12.7 (10)	100	10/10	12.2 (10)	96	10/10	11.8 (10)	93	10/10
6-7	12.4 (10)	10/10	12.4 (10)	100	10/10	11.8 (10)	95	10/10	12.0 (10)	97	10/10	12.0 (10)	97	10/10	11.8 (10)	95	10/10
7-7	12.4 (10)	10/10	12.4 (10)	100	10/10	11.7 (10)	94	10/10	11.7 (10)	94	10/10	11.9 (10)	96	10/10	11.8 (10)	95	10/10
8-7	12.9 (10)	10/10	12.3 (10)	95	10/10	12.0 (10)	93	10/10	11.8 (10)	91	10/10	12.0 (10)	93	10/10	11.8 (10)	91	10/10
9-7	12.7 (10)	10/10	12.4 (10)	98	10/10	11.9 (10)	94	10/10	12.0 (10)	94	10/10	11.8 (10)	93	10/10	11.5 (10)	91	10/10
10-7	12.3 (10)	10/10	12.1 (10)	98	10/10	11.7 (10)	95	10/10	12.3 (10)	100	10/10	12.1 (10)	98	10/10	11.9 (10)	97	10/10
11-7	12.9 (10)	10/10	12.3 (10)	95	10/10	11.7 (10)	91	10/10	11.7 (10)	91	10/10	11.3 (10)	88	10/10	11.8 (10)	91	10/10
12-7	12.4 (10)	10/10	12.5 (10)	101	10/10	11.7 (10)	94	10/10	11.7 (10)	94	10/10	11.7 (10)	94	10/10	11.6 (10)	94	10/10
13-7	13.1 (10)	10/10	12.1 (10)	92	10/10	10.9 (10)	83	10/10	11.2 (10)	85	10/10	11.6 (10)	89	10/10	11.2 (10)	85	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	Control Av.Wt.	Control No.of Surviv. <10>	1300 ppm Av.Wt.	1300 ppm % of cont. <10>	1300 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4500 ppm Av.Wt.	4500 ppm % of cont. <10>	4500 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm 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	22.7 (10)	10/10	22.7 (10)	100	10/10	22.5 (10)	99	10/10	22.7 (10)	100	10/10	22.7 (10)	100	10/10	22.3 (10)	98	10/10
1-7	23.0 (10)	10/10	22.6 (10)	98	10/10	22.8 (10)	99	10/10	23.1 (10)	100	10/10	23.2 (10)	101	10/10	23.5 (10)	102	10/10
2-7	23.7 (10)	10/10	23.6 (10)	100	10/10	23.7 (10)	100	10/10	24.0 (10)	101	10/10	23.9 (10)	101	10/10	24.3 (10)	103	10/10

< >: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	Control Av.Wt.	Control No.of Surviv. <10>	1300 ppm Av.Wt.	1300 ppm % of cont. <10>	1300 ppm No.of Surviv.	2000 ppm Av.Wt.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4500 ppm Av.Wt.	4500 ppm % of cont. <10>	4500 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.
0-0	19.9 (10)	10/10	19.9 (10)	100	10/10	19.9 (10)	100	10/10	19.8 (10)	99	10/10	19.9 (10)	100	10/10	19.9 (10)	100	10/10
1-1	19.3 (10)	10/10	19.1 (10)	99	10/10	19.0 (10)	98	10/10	19.2 (10)	99	10/10	19.2 (10)	99	10/10	19.2 (10)	99	10/10
1-7	19.8 (10)	10/10	19.8 (10)	100	10/10	19.5 (10)	98	10/10	19.4 (10)	98	10/10	19.8 (10)	100	10/10	20.2 (10)	102	10/10
2-7	20.9 (10)	10/10	20.2 (10)	97	10/10	20.4 (10)	98	10/10	20.6 (10)	99	10/10	21.0 (10)	100	10/10	21.1 (10)	101	10/10

< >: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	Control Av.FC.	Control No.of Surviv. <10>	1300 ppm Av.FC.	1300 ppm % of cont. <10>	1300 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4500 ppm Av.FC.	4500 ppm % of cont. <10>	4500 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.
1-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.2 (10)	100	10/10	4.2 (10)	100	10/10	4.2 (10)	100	10/10	4.3 (10)	102	10/10
2-7	4.3 (10)	10/10	4.3 (10)	100	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10	4.3 (10)	100	10/10	4.4 (10)	102	10/10

< >: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	Control Av.FC.	Control No.of Surviv. <10>	1300 ppm Av.FC.	1300 ppm % of cont. <10>	1300 ppm No.of Surviv.	2000 ppm Av.FC.	2000 ppm % of cont. <10>	2000 ppm No.of Surviv.	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4500 ppm Av.FC.	4500 ppm % of cont. <10>	4500 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.
1-7	3.9 (10)	10/10	3.8 (10)	97	10/10	3.7 (10)	95	10/10	3.6 (10)	92	10/10	3.7 (10)	95	10/10	3.7 (10)	95	10/10
2-7	4.0 (10)	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10	4.0 (10)	100	10/10	3.9 (10)	98	10/10	4.0 (10)	100	10/10

< >: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	Control Av.Wt.	Control No.of Surviv. <10>	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.Wt.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.Wt.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.	15000 ppm Av.Wt.	15000 ppm % of cont. <10>	15000 ppm No.of Surviv.
0-0	23.7 (10)	10/10	23.7 (10)	100	10/10	23.7 (10)	100	10/10	23.7 (10)	100	10/10	23.7 (10)	100	9/10	23.7 (10)	100	0/10
1-7	25.1 (10)	10/10	25.0 (10)	100	10/10	24.6 (10)	98	10/10	23.4 (10)	93	10/10	22.1 (2)	88	2/10	- (-)	-	0/10
2-7	25.9 (10)	10/10	25.6 (10)	99	10/10	25.9 (10)	100	10/10	25.1 (10)	97	10/10	- (-)	-	0/10	- (-)	-	0/10
3-7	26.6 (10)	10/10	25.8 (10)	97	10/10	26.4 (10)	99	10/10	25.9 (10)	97	10/10	- (-)	-	0/10	- (-)	-	0/10
4-7	27.5 (10)	10/10	26.0 (10)	95	10/10	26.8 (10)	97	10/10	26.3 (10)	96	10/10	- (-)	-	0/10	- (-)	-	0/10
5-7	28.4 (10)	10/10	27.0 (10)	95	10/10	27.7 (10)	98	10/10	27.2 (10)	96	10/10	- (-)	-	0/10	- (-)	-	0/10
6-7	29.4 (10)	10/10	27.5 (10)	94	10/10	28.2 (10)	96	10/10	27.8 (10)	95	10/10	- (-)	-	0/10	- (-)	-	0/10
7-7	30.1 (10)	10/10	27.7 (10)	92	10/10	28.5 (10)	95	10/10	28.3 (10)	94	10/10	- (-)	-	0/10	- (-)	-	0/10
8-7	30.9 (10)	10/10	28.6 (10)	93	10/10	29.3 (10)	95	10/10	28.9 (10)	94	10/10	- (-)	-	0/10	- (-)	-	0/10
9-7	31.4 (10)	10/10	29.2 (10)	93	10/10	30.0 (10)	96	10/10	29.6 (10)	94	10/10	- (-)	-	0/10	- (-)	-	0/10
10-7	32.4 (10)	10/10	29.9 (10)	92	10/10	30.8 (10)	95	10/10	29.9 (10)	92	10/10	- (-)	-	0/10	- (-)	-	0/10
11-7	33.3 (10)	10/10	30.7 (10)	92	10/10	31.2 (10)	94	10/10	30.4 (10)	91	10/10	- (-)	-	0/10	- (-)	-	0/10
12-7	34.4 (10)	10/10	31.2 (10)	91	10/10	32.2 (10)	94	10/10	31.2 (10)	91	10/10	- (-)	-	0/10	- (-)	-	0/10
13-7	34.9 (10)	10/10	32.2 (10)	92	10/10	32.4 (10)	93	10/10	31.4 (10)	90	10/10	- (-)	-	0/10	- (-)	-	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	Control Av.Wt.	Control No.of Surviv. <10>	3000 ppm Av.Wt.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.Wt.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.Wt.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.Wt.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.	15000 ppm Av.Wt.	15000 ppm % of cont. <10>	15000 ppm No.of Surviv.
0-0	19.1 (10)	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10	19.1 (10)	100	10/10	19.1 (10)	100	6/10	19.1 (10)	100	0/10
1-7	20.8 (10)	10/10	20.3 (10)	98	10/10	20.1 (10)	97	10/10	19.7 (9)	95	9/10	- (-)	-	0/10	- (-)	-	0/10
2-7	21.8 (10)	10/10	21.2 (10)	97	10/10	21.5 (10)	99	10/10	21.2 (9)	97	9/10	- (-)	-	0/10	- (-)	-	0/10
3-7	22.0 (10)	10/10	22.1 (10)	100	10/10	22.1 (10)	100	10/10	22.5 (9)	102	9/10	- (-)	-	0/10	- (-)	-	0/10
4-7	22.8 (10)	10/10	22.9 (10)	100	10/10	22.5 (10)	99	10/10	23.4 (9)	103	9/10	- (-)	-	0/10	- (-)	-	0/10
5-7	23.1 (10)	10/10	23.7 (10)	103	10/10	23.3 (10)	101	10/10	24.0 (9)	104	9/10	- (-)	-	0/10	- (-)	-	0/10
6-7	24.4 (10)	10/10	24.4 (10)	100	10/10	23.7 (10)	97	10/10	24.6 (9)	101	9/10	- (-)	-	0/10	- (-)	-	0/10
7-7	24.3 (10)	10/10	24.6 (10)	101	10/10	24.6 (10)	101	10/10	25.0 (9)	103	9/10	- (-)	-	0/10	- (-)	-	0/10
8-7	25.0 (10)	10/10	24.9 (10)	100	10/10	25.0 (10)	100	10/10	25.5 (9)	102	9/10	- (-)	-	0/10	- (-)	-	0/10
9-7	25.4 (10)	10/10	25.2 (10)	99	10/10	25.5 (10)	100	10/10	26.1 (9)	103	9/10	- (-)	-	0/10	- (-)	-	0/10
10-7	25.5 (10)	10/10	25.7 (10)	101	10/10	25.9 (10)	102	10/10	26.5 (9)	104	9/10	- (-)	-	0/10	- (-)	-	0/10
11-7	26.3 (10)	10/10	26.5 (10)	101	10/10	25.9 (10)	98	10/10	27.2 (9)	103	9/10	- (-)	-	0/10	- (-)	-	0/10
12-7	26.4 (10)	10/10	27.0 (10)	102	10/10	26.8 (10)	102	10/10	27.1 (9)	103	9/10	- (-)	-	0/10	- (-)	-	0/10
13-7	26.8 (10)	10/10	26.9 (10)	100	10/10	26.9 (10)	100	10/10	27.4 (9)	102	9/10	- (-)	-	0/10	- (-)	-	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	Control Av.FC.	Control No.of Surviv. <10>	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.	15000 ppm Av.FC.	15000 ppm % of cont. <10>	15000 ppm No.of Surviv.
1-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.6 (10)	102	10/10	4.1 (10)	91	10/10	4.7 (9)	104	2/10	- (-)	-	0/10
2-7	4.3 (10)	10/10	4.4 (10)	102	10/10	4.5 (10)	105	10/10	4.4 (10)	102	10/10	5.6 (2)	130	0/10	- (-)	-	0/10
3-7	4.4 (10)	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	- (-)	-	0/10	- (-)	-	0/10
4-7	4.6 (10)	10/10	4.6 (10)	100	10/10	4.6 (10)	100	10/10	4.5 (10)	98	10/10	- (-)	-	0/10	- (-)	-	0/10
5-7	4.7 (10)	10/10	4.6 (10)	98	10/10	4.7 (10)	100	10/10	4.6 (10)	98	10/10	- (-)	-	0/10	- (-)	-	0/10
6-7	4.8 (10)	10/10	4.9 (10)	102	10/10	4.6 (9)	96	10/10	4.5 (10)	94	10/10	- (-)	-	0/10	- (-)	-	0/10
7-7	4.7 (10)	10/10	4.7 (10)	100	10/10	4.6 (10)	98	10/10	4.4 (10)	94	10/10	- (-)	-	0/10	- (-)	-	0/10
8-7	4.8 (10)	10/10	4.8 (10)	100	10/10	4.7 (10)	98	10/10	4.6 (10)	96	10/10	- (-)	-	0/10	- (-)	-	0/10
9-7	4.9 (10)	10/10	5.2 (10)	106	10/10	5.1 (10)	104	10/10	4.9 (10)	100	10/10	- (-)	-	0/10	- (-)	-	0/10
10-7	5.0 (10)	10/10	5.3 (10)	106	10/10	5.2 (10)	104	10/10	4.9 (10)	98	10/10	- (-)	-	0/10	- (-)	-	0/10
11-7	4.9 (10)	10/10	5.2 (10)	106	10/10	5.1 (10)	104	10/10	4.8 (10)	98	10/10	- (-)	-	0/10	- (-)	-	0/10
12-7	5.0 (10)	10/10	5.2 (10)	104	10/10	5.2 (10)	104	10/10	4.9 (10)	98	10/10	- (-)	-	0/10	- (-)	-	0/10
13-7	4.9 (10)	10/10	5.1 (10)	104	10/10	5.0 (10)	102	10/10	4.7 (10)	96	10/10	- (-)	-	0/10	- (-)	-	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	Control Av.FC.	Control No.of Surviv. <10>	3000 ppm Av.FC.	3000 ppm % of cont. <10>	3000 ppm No.of Surviv.	4400 ppm Av.FC.	4400 ppm % of cont. <10>	4400 ppm No.of Surviv.	6700 ppm Av.FC.	6700 ppm % of cont. <10>	6700 ppm No.of Surviv.	10000 ppm Av.FC.	10000 ppm % of cont. <10>	10000 ppm No.of Surviv.	15000 ppm Av.FC.	15000 ppm % of cont. <10>	15000 ppm No.of Surviv.
1-7	4.0 (10)	10/10	4.2 (10)	105	10/10	4.1 (10)	103	10/10	3.8 (10)	95	9/10	4.5 (6)	113	0/10	- (-)	-	0/10
2-7	4.1 (10)	10/10	4.0 (10)	98	10/10	4.0 (10)	98	10/10	4.1 (9)	100	9/10	- (-)	-	0/10	- (-)	-	0/10
3-7	4.2 (6)	10/10	4.3 (10)	102	10/10	4.0 (10)	95	10/10	4.2 (9)	100	9/10	- (-)	-	0/10	- (-)	-	0/10
4-7	4.6 (10)	10/10	4.5 (10)	98	10/10	4.3 (10)	93	10/10	4.4 (9)	96	9/10	- (-)	-	0/10	- (-)	-	0/10
5-7	4.7 (10)	10/10	4.6 (10)	98	10/10	4.4 (10)	94	10/10	4.5 (9)	96	9/10	- (-)	-	0/10	- (-)	-	0/10
6-7	4.8 (10)	10/10	4.8 (10)	100	10/10	4.5 (10)	94	10/10	4.5 (9)	94	9/10	- (-)	-	0/10	- (-)	-	0/10
7-7	4.9 (10)	10/10	4.8 (10)	98	10/10	4.6 (10)	94	10/10	4.5 (9)	92	9/10	- (-)	-	0/10	- (-)	-	0/10
8-7	4.9 (10)	10/10	4.9 (10)	100	10/10	4.7 (10)	96	10/10	4.5 (9)	92	9/10	- (-)	-	0/10	- (-)	-	0/10
9-7	5.1 (10)	10/10	5.2 (10)	102	10/10	5.0 (10)	98	10/10	5.0 (9)	98	9/10	- (-)	-	0/10	- (-)	-	0/10
10-7	5.1 (10)	10/10	5.1 (10)	100	10/10	5.2 (10)	102	10/10	5.0 (9)	98	9/10	- (-)	-	0/10	- (-)	-	0/10
11-7	5.0 (10)	10/10	5.0 (10)	100	10/10	4.9 (10)	98	10/10	5.0 (9)	100	9/10	- (-)	-	0/10	- (-)	-	0/10
12-7	4.8 (10)	10/10	5.2 (10)	108	10/10	5.1 (10)	106	10/10	4.9 (9)	102	9/10	- (-)	-	0/10	- (-)	-	0/10
13-7	5.0 (10)	10/10	5.1 (10)	102	10/10	5.0 (10)	100	10/10	4.7 (9)	94	9/10	- (-)	-	0/10	- (-)	-	0/10

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