N,N-ジメチルホルムアミド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/0263；マウス/0264
1 3 週 間 ：ラット/0275；マウス/0276

TABLES

TABLES

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE INHALATION STUDIES OF *N,N*-DIMETHYLFORMAMIDE

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,Mouse: 0,100,200,400,800 or 1600pm	Rat,Mouse: 0,50,100,200,400 or 800ppm
<Duration of Exposure>	
6 h/d, 5 d/wk for 2 wk	6 h/d, 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: 21±2℃ Humidity: 60±10% Fluorescent light: 12 h/d Room air changes: 15-17 changes/h	Same as two-week studies
Chamber Environment	
Temperature: 20-24℃ Humidity: 30-70% Fluorescent light: 12 h/d Room air changes: 12 changes/h	Same as two-week studies
<Type and Frequency of Observation>	
Clinical Sign	
Observed 2 per d (1 per d without Exposure day)	Observed 2 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 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (TWO-WEEK STUDY)

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.Wt.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
0-0	122 (10)	10/10	122 (10)	100	10/10	123 (10)	101	10/10	122 (10)	100	10/10	122 (10)	100	10/10	122 (10)	100	10/10
1-1	124 (10)	10/10	125 (10)	101	10/10	125 (10)	101	10/10	122 (10)	98	10/10	121 (10)	98	10/10	121 (10)	98	10/10
1-7	144 (10)	10/10	146 (10)	101	10/10	149 (10)	103	10/10	142 (10)	99	10/10	130 (10)	90	10/10	109 (7)	76	7/10
2-7	168 (10)	10/10	175 (10)	104	10/10	176 (10)	105	10/10	165 (10)	98	10/10	147 (10)	88	10/10	109 (7)	65	7/10

< >: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 Av.Wt.	Control No.of Surviv. <10>	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.Wt.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
0-0	101 (10)	10/10	100 (10)	99	10/10	100 (10)	99	10/10	100 (10)	99	10/10	100 (10)	99	10/10	99 (10)	98	10/10
1-1	102 (10)	10/10	102 (10)	100	10/10	101 (10)	99	10/10	98 (10)	96	10/10	98 (10)	96	10/10	97 (10)	95	10/10
1-7	112 (10)	10/10	114 (10)	102	10/10	111 (10)	99	10/10	107 (10)	96	10/10	103 (10)	92	10/10	89 (4)	79	4/10
2-7	125 (10)	10/10	127 (10)	102	10/10	123 (10)	98	10/10	116 (10)	93	10/10	110 (10)	88	10/10	94 (3)	75	3/10

< >: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>	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.FC.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
1-7	14.6 (10)	10/10	14.4 (10)	99	10/10	15.0 (10)	103	10/10	13.1 (10)	90	10/10	11.8 (10)	81	10/10	6.7 (10)	46	7/10
2-7	14.8 (10)	10/10	16.2 (10)	109	10/10	16.1 (10)	109	10/10	14.2 (10)	96	10/10	12.5 (10)	84	10/10	7.2 (7)	49	7/10

< >: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>	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.FC.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
1-7	12.0 (10)	10/10	11.8 (10)	98	10/10	11.5 (10)	96	10/10	10.4 (10)	87	10/10	9.4 (10)	78	10/10	5.8 (10)	48	4/10
2-7	11.6 (10)	10/10	11.8 (10)	102	10/10	11.9 (10)	103	10/10	9.9 (10)	85	10/10	9.3 (10)	80	10/10	7.5 (4)	65	3/10

< >: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>	50 ppm Av.Wt.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
0-0	115 (10)	10/10	115 (10)	100	10/10	115 (10)	100	10/10	115 (10)	100	10/10	115 (10)	100	10/10	115 (10)	100	10/10
1-1	119 (10)	10/10	120 (10)	101	10/10	119 (10)	100	10/10	119 (10)	100	10/10	119 (10)	100	10/10	119 (10)	100	10/10
1-7	141 (10)	10/10	143 (10)	101	10/10	142 (10)	101	10/10	141 (10)	100	10/10	137 (10)	97	10/10	131 (10)	93	10/10
2-7	169 (10)	10/10	173 (10)	102	10/10	170 (10)	101	10/10	167 (10)	99	10/10	160 (10)	95	10/10	156 (10)	92	10/10
3-7	190 (10)	10/10	193 (10)	102	10/10	192 (10)	101	10/10	189 (10)	99	10/10	178 (10)	94	10/10	168 (10)	88	10/10
4-7	215 (10)	10/10	218 (10)	101	10/10	213 (10)	99	10/10	212 (10)	99	10/10	198 (10)	92	10/10	185 (10)	86	10/10
5-7	232 (10)	10/10	237 (10)	102	10/10	230 (10)	99	10/10	231 (10)	100	10/10	215 (10)	93	10/10	201 (10)	87	10/10
6-7	247 (10)	10/10	251 (10)	102	10/10	246 (10)	100	10/10	244 (10)	99	10/10	227 (10)	92	10/10	208 (10)	84	10/10
7-7	259 (10)	10/10	263 (10)	102	10/10	260 (10)	100	10/10	258 (10)	100	10/10	238 (10)	92	10/10	219 (10)	85	10/10
8-7	271 (10)	10/10	277 (10)	102	10/10	273 (10)	101	10/10	270 (10)	100	10/10	250 (10)	92	10/10	229 (10)	85	10/10
9-7	285 (10)	10/10	287 (10)	101	10/10	283 (10)	99	10/10	280 (10)	98	10/10	257 (10)	90	10/10	235 (10)	82	10/10
10-7	293 (10)	10/10	295 (10)	101	10/10	292 (10)	100	10/10	289 (10)	99	10/10	263 (10)	90	10/10	241 (10)	82	10/10
11-7	302 (10)	10/10	303 (10)	100	10/10	301 (10)	100	10/10	296 (10)	98	10/10	271 (10)	90	10/10	249 (10)	82	10/10
12-7	311 (10)	10/10	310 (10)	100	10/10	309 (10)	99	10/10	304 (10)	98	10/10	275 (10)	88	10/10	252 (10)	81	10/10
13-7	316 (10)	10/10	315 (10)	100	10/10	312 (10)	99	10/10	310 (10)	98	10/10	277 (10)	88	10/10	253 (10)	80	10/10

< >: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>	50 ppm Av.Wt.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
0-0	96 (10)	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10	96 (10)	100	10/10
1-1	98 (10)	10/10	98 (10)	100	10/10	98 (10)	100	10/10	97 (10)	99	10/10	97 (10)	99	10/10	97 (10)	99	10/10
1-7	109 (10)	10/10	111 (10)	102	10/10	110 (10)	101	10/10	107 (10)	98	10/10	106 (10)	97	10/10	101 (10)	93	10/10
2-7	124 (10)	10/10	126 (10)	102	10/10	125 (10)	101	10/10	122 (10)	98	10/10	119 (10)	96	10/10	113 (10)	91	10/10
3-7	132 (10)	10/10	136 (10)	103	10/10	136 (10)	103	10/10	128 (10)	97	10/10	124 (10)	94	10/10	115 (10)	87	10/10
4-7	142 (10)	10/10	146 (10)	103	10/10	145 (10)	102	10/10	137 (10)	96	10/10	132 (10)	93	10/10	120 (10)	85	10/10
5-7	148 (10)	10/10	153 (10)	103	10/10	152 (10)	103	10/10	144 (10)	97	10/10	140 (10)	95	10/10	129 (10)	87	10/10
6-7	156 (10)	10/10	159 (10)	102	10/10	159 (10)	102	10/10	151 (10)	97	10/10	141 (10)	90	10/10	128 (10)	82	10/10
7-7	162 (10)	10/10	166 (10)	102	10/10	164 (10)	101	10/10	156 (10)	96	10/10	147 (10)	91	10/10	132 (10)	81	10/10
8-7	166 (10)	10/10	172 (10)	104	10/10	169 (10)	102	10/10	161 (10)	97	10/10	152 (10)	92	10/10	138 (10)	83	10/10
9-7	172 (10)	10/10	174 (10)	101	10/10	172 (10)	100	10/10	165 (10)	96	10/10	154 (10)	90	10/10	137 (10)	80	10/10
10-7	176 (10)	10/10	180 (10)	102	10/10	177 (10)	101	10/10	168 (10)	95	10/10	155 (10)	88	10/10	139 (10)	79	10/10
11-7	181 (10)	10/10	185 (10)	102	10/10	181 (10)	100	10/10	173 (10)	96	10/10	161 (10)	89	10/10	147 (10)	81	10/10
12-7	183 (10)	10/10	188 (10)	103	10/10	183 (10)	100	10/10	176 (10)	96	10/10	160 (10)	87	10/10	146 (10)	80	10/10
13-7	185 (10)	10/10	192 (10)	104	10/10	187 (10)	101	10/10	176 (10)	95	10/10	161 (10)	87	10/10	142 (10)	77	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>	50 ppm Av.FC.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
1-7	14.1 (10)	10/10	14.3 (10)	101	10/10	13.9 (10)	99	10/10	13.4 (10)	95	10/10	12.8 (10)	91	10/10	12.0 (10)	85	10/10
2-7	15.2 (10)	10/10	15.5 (10)	102	10/10	15.5 (10)	102	10/10	14.4 (10)	95	10/10	14.0 (10)	92	10/10	13.3 (10)	88	10/10
3-7	15.7 (10)	10/10	15.9 (10)	101	10/10	15.7 (10)	100	10/10	15.1 (10)	96	10/10	14.5 (10)	92	10/10	13.0 (10)	83	10/10
4-7	16.2 (10)	10/10	16.4 (10)	101	10/10	16.1 (10)	99	10/10	15.9 (10)	98	10/10	15.1 (10)	93	10/10	14.4 (10)	89	10/10
5-7	16.9 (10)	10/10	16.7 (10)	99	10/10	16.4 (10)	97	10/10	16.9 (10)	100	10/10	15.3 (10)	91	10/10	14.7 (10)	87	10/10
6-7	16.7 (10)	10/10	16.7 (10)	100	10/10	16.1 (10)	96	10/10	16.0 (10)	96	10/10	15.4 (10)	92	10/10	14.8 (10)	89	10/10
7-7	16.8 (10)	10/10	16.6 (10)	99	10/10	16.4 (10)	98	10/10	16.9 (10)	101	10/10	15.6 (10)	93	10/10	15.2 (10)	90	10/10
8-7	16.4 (10)	10/10	16.7 (10)	102	10/10	16.7 (10)	102	10/10	16.2 (10)	99	10/10	15.3 (10)	93	10/10	15.1 (10)	92	10/10
9-7	16.9 (10)	10/10	16.8 (10)	99	10/10	16.4 (10)	97	10/10	16.3 (10)	96	10/10	15.6 (10)	92	10/10	14.7 (10)	87	10/10
10-7	16.5 (10)	10/10	16.4 (10)	99	10/10	16.3 (10)	99	10/10	16.1 (10)	98	10/10	15.6 (10)	95	10/10	14.9 (10)	90	10/10
11-7	16.8 (10)	10/10	16.8 (10)	100	10/10	16.6 (10)	99	10/10	16.3 (10)	97	10/10	15.5 (10)	92	10/10	14.9 (10)	89	10/10
12-7	16.4 (10)	10/10	16.1 (10)	98	10/10	16.4 (10)	100	10/10	15.7 (10)	96	10/10	15.3 (10)	93	10/10	14.5 (10)	88	10/10
13-7	16.5 (10)	10/10	16.4 (10)	99	10/10	16.0 (10)	97	10/10	15.9 (10)	96	10/10	15.6 (10)	95	10/10	14.3 (10)	87	10/10

< >: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>	50 ppm Av.FC.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
1-7	11.4 (10)	10/10	11.4 (10)	100	10/10	11.7 (10)	103	10/10	10.3 (10)	90	10/10	10.1 (10)	89	10/10	8.8 (10)	77	10/10
2-7	11.9 (10)	10/10	12.3 (10)	103	10/10	12.1 (10)	102	10/10	11.4 (10)	96	10/10	10.6 (10)	89	10/10	9.7 (10)	82	10/10
3-7	11.7 (10)	10/10	12.4 (10)	106	10/10	12.2 (10)	104	10/10	10.9 (10)	93	10/10	10.2 (10)	87	10/10	9.0 (10)	77	10/10
4-7	11.5 (10)	10/10	12.2 (10)	106	10/10	12.1 (10)	105	10/10	10.5 (10)	91	10/10	10.5 (10)	91	10/10	8.8 (10)	77	10/10
5-7	11.8 (10)	10/10	12.1 (10)	103	10/10	12.1 (10)	103	10/10	11.6 (10)	98	10/10	11.2 (10)	95	10/10	9.8 (10)	83	10/10
6-7	11.7 (10)	10/10	12.0 (10)	103	10/10	11.5 (10)	98	10/10	11.0 (10)	94	10/10	10.4 (10)	89	10/10	9.0 (10)	77	10/10
7-7	11.8 (10)	10/10	12.5 (10)	106	10/10	11.8 (10)	100	10/10	11.3 (10)	96	10/10	10.6 (10)	90	10/10	9.0 (10)	76	10/10
8-7	11.4 (10)	10/10	11.9 (10)	104	10/10	11.4 (10)	100	10/10	10.9 (10)	96	10/10	10.3 (10)	90	10/10	9.2 (10)	81	10/10
9-7	11.7 (10)	10/10	12.1 (10)	103	10/10	11.5 (10)	98	10/10	10.8 (10)	92	10/10	9.7 (10)	83	10/10	8.1 (10)	69	10/10
10-7	11.4 (10)	10/10	11.7 (10)	103	10/10	11.8 (10)	104	10/10	10.3 (10)	90	10/10	9.4 (10)	82	10/10	8.6 (10)	75	10/10
11-7	11.8 (10)	10/10	12.5 (10)	106	10/10	11.6 (10)	98	10/10	11.3 (10)	96	10/10	10.4 (10)	88	10/10	9.9 (10)	84	10/10
12-7	11.1 (10)	10/10	11.6 (10)	105	10/10	11.3 (10)	102	10/10	10.2 (10)	92	10/10	9.2 (10)	83	10/10	9.0 (10)	81	10/10
13-7	11.0 (10)	10/10	11.6 (10)	105	10/10	11.1 (10)	101	10/10	10.0 (10)	91	10/10	9.6 (10)	87	10/10	8.5 (10)	77	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>	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.Wt.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
0-0	22.9 (10)	10/10	22.8 (10)	100	10/10	22.3 (10)	97	10/10	22.4 (10)	98	10/10	22.5 (10)	98	10/10	22.9 (10)	100	10/10
1-1	22.8 (10)	10/10	22.4 (10)	98	10/10	22.2 (10)	97	10/10	22.2 (10)	97	10/10	21.6 (10)	95	10/10	21.6 (10)	95	10/10
1-7	24.0 (10)	10/10	23.4 (10)	98	10/10	23.4 (10)	98	10/10	23.6 (10)	98	10/10	22.9 (10)	95	10/10	22.6 (10)	94	10/10
2-7	25.1 (10)	10/10	24.6 (10)	98	10/10	24.7 (10)	98	10/10	25.1 (10)	100	10/10	24.0 (10)	96	10/10	23.3 (10)	93	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>	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.Wt.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
0-0	17.9 (10)	10/10	17.7 (10)	99	10/10	17.8 (10)	99	10/10	17.8 (10)	99	10/10	18.1 (10)	101	10/10	18.0 (10)	101	10/10
1-1	18.0 (10)	10/10	17.8 (10)	99	10/10	17.7 (10)	98	10/10	17.8 (10)	99	10/10	17.6 (10)	98	10/10	16.6 (10)	92	10/10
1-7	18.7 (10)	10/10	18.6 (10)	99	10/10	18.5 (10)	99	10/10	19.0 (10)	102	10/10	17.9 (10)	96	10/10	18.2 (10)	97	10/10
2-7	20.4 (10)	10/10	20.0 (10)	98	10/10	20.2 (10)	99	10/10	20.6 (10)	101	10/10	19.4 (10)	95	10/10	18.8 (10)	92	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>	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.FC.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
1-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.1 (10)	98	10/10	3.9 (10)	93	10/10	3.6 (10)	86	10/10	3.5 (10)	83	10/10
2-7	4.2 (10)	10/10	4.4 (10)	105	10/10	4.4 (10)	105	10/10	4.3 (10)	102	10/10	3.6 (10)	86	10/10	4.0 (10)	95	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>	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.	1600 ppm Av.FC.	1600 ppm % of cont. <10>	1600 ppm No.of Surviv.
1-7	3.5 (10)	10/10	3.4 (10)	97	10/10	3.4 (10)	97	10/10	3.4 (10)	97	10/10	3.1 (10)	89	10/10	2.9 (10)	83	10/10
2-7	3.8 (10)	10/10	3.7 (10)	97	10/10	3.8 (10)	100	10/10	3.6 (10)	95	10/10	3.4 (10)	89	10/10	3.6 (10)	95	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>	50 ppm Av.Wt.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
0-0	22.3 (10)	10/10	22.3 (10)	100	10/10	22.3 (10)	100	10/10	22.3 (10)	100	10/10	22.4 (10)	100	10/10	22.3 (10)	100	10/10
1-1	22.5 (10)	10/10	22.2 (10)	99	10/10	22.4 (10)	100	10/10	22.2 (10)	99	10/10	22.6 (10)	100	10/10	22.4 (10)	100	10/10
1-7	23.4 (10)	10/10	22.8 (10)	97	10/10	23.1 (10)	99	10/10	22.8 (10)	97	10/10	23.6 (10)	101	10/10	22.9 (10)	98	10/10
2-7	24.8 (10)	10/10	23.9 (10)	96	10/10	23.8 (10)	96	10/10	24.3 (10)	98	10/10	24.4 (10)	98	10/10	23.3 (10)	94	10/10
3-7	25.5 (10)	10/10	24.5 (10)	96	10/10	24.7 (10)	97	10/10	25.3 (10)	99	10/10	25.2 (10)	99	10/10	23.6 (10)	93	10/10
4-7	26.1 (10)	10/10	25.0 (10)	96	10/10	25.4 (10)	97	10/10	25.3 (10)	97	10/10	25.5 (10)	98	10/10	24.0 (10)	92	10/10
5-7	27.4 (10)	10/10	26.1 (10)	95	10/10	25.9 (10)	95	10/10	25.5 (10)	93	10/10	26.2 (10)	96	10/10	25.4 (10)	93	10/10
6-7	27.7 (10)	10/10	26.4 (10)	95	10/10	26.1 (10)	94	10/10	26.2 (10)	95	10/10	26.5 (10)	96	10/10	24.8 (10)	90	10/10
7-7	28.2 (10)	10/10	26.5 (10)	94	10/10	27.1 (10)	96	10/10	26.5 (10)	94	10/10	26.8 (10)	95	10/10	24.7 (10)	88	10/10
8-7	28.8 (10)	10/10	27.0 (10)	94	10/10	27.0 (10)	94	10/10	26.6 (10)	92	10/10	26.9 (10)	93	10/10	25.1 (10)	87	10/10
9-7	29.6 (10)	10/10	27.7 (10)	94	10/10	27.8 (10)	94	10/10	27.4 (10)	93	10/10	27.4 (10)	93	10/10	25.4 (10)	86	10/10
10-7	30.5 (10)	10/10	28.1 (10)	92	10/10	28.7 (10)	94	10/10	27.7 (10)	91	10/10	28.0 (10)	92	10/10	25.7 (10)	84	10/10
11-7	31.1 (10)	10/10	28.7 (10)	92	10/10	29.2 (10)	94	10/10	28.1 (10)	90	10/10	28.7 (10)	92	10/10	25.7 (10)	83	10/10
12-7	31.9 (10)	10/10	29.2 (10)	92	10/10	29.9 (10)	94	10/10	28.8 (10)	90	10/10	28.7 (10)	90	10/10	26.5 (10)	83	10/10
13-7	32.5 (10)	10/10	29.6 (10)	91	10/10	30.3 (10)	93	10/10	29.5 (10)	91	10/10	29.5 (10)	91	10/10	26.2 (10)	81	10/10

< >: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>	50 ppm Av.Wt.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.Wt.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.Wt.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.Wt.	400 ppm % of cont. < 9>	400 ppm No.of Surviv.	800 ppm Av.Wt.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
0-0	17.8 (10)	10/10	17.8 (10)	100	10/10	17.8 (10)	100	10/10	17.8 (10)	100	10/10	17.8 (9)	100	10/10	17.9 (10)	101	10/10
1-1	18.0 (10)	10/10	17.9 (10)	99	10/10	17.9 (10)	99	10/10	18.1 (10)	101	10/10	17.6 (9)	98	10/10	17.8 (10)	99	10/10
1-7	18.9 (10)	10/10	18.5 (10)	98	10/10	18.5 (10)	98	10/10	18.8 (10)	99	10/10	19.0 (9)	101	10/10	18.7 (10)	99	10/10
2-7	20.0 (10)	10/10	20.2 (10)	101	10/10	20.0 (10)	100	10/10	20.2 (10)	101	10/10	20.1 (9)	101	10/10	19.2 (10)	96	10/10
3-7	20.5 (10)	10/10	20.8 (10)	101	10/10	20.8 (10)	101	10/10	21.2 (10)	103	10/10	20.9 (9)	102	10/10	19.7 (10)	96	10/10
4-7	20.9 (10)	10/10	21.3 (10)	102	10/10	21.8 (10)	104	10/10	21.4 (10)	102	10/10	21.9 (9)	105	9/ 9	20.8 (10)	100	10/10
5-7	21.7 (10)	10/10	22.3 (10)	103	10/10	22.1 (10)	102	10/10	21.8 (10)	100	10/10	21.9 (9)	101	9/ 9	22.1 (10)	102	10/10
6-7	22.2 (10)	10/10	22.8 (10)	103	10/10	22.8 (10)	103	10/10	22.7 (10)	102	10/10	22.8 (9)	103	9/ 9	21.5 (10)	97	10/10
7-7	22.6 (10)	10/10	23.1 (10)	102	10/10	23.7 (10)	105	10/10	23.5 (10)	104	10/10	23.7 (9)	105	9/ 9	21.7 (10)	96	10/10
8-7	23.0 (10)	10/10	23.7 (10)	103	10/10	24.2 (10)	105	10/10	24.2 (10)	105	10/10	24.0 (9)	104	9/ 9	22.5 (10)	98	10/10
9-7	23.1 (10)	10/10	23.4 (10)	101	10/10	24.1 (10)	104	10/10	24.1 (10)	104	10/10	23.9 (9)	103	9/ 9	22.5 (10)	97	10/10
10-7	23.6 (10)	10/10	24.2 (10)	103	10/10	23.9 (10)	101	10/10	24.6 (10)	104	10/10	24.5 (9)	104	9/ 9	23.0 (10)	97	10/10
11-7	23.7 (10)	10/10	24.4 (10)	103	10/10	24.5 (10)	103	10/10	24.4 (10)	103	10/10	24.6 (9)	104	9/ 9	23.3 (10)	98	10/10
12-7	23.6 (10)	10/10	24.5 (10)	104	10/10	24.7 (10)	105	10/10	25.5 (10)	108	10/10	24.8 (9)	105	9/ 9	23.1 (10)	98	10/10
13-7	24.3 (10)	10/10	25.0 (10)	103	10/10	24.4 (10)	100	10/10	25.0 (10)	103	10/10	25.1 (9)	103	9/ 9	23.6 (10)	97	10/10

< >: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>	50 ppm Av.FC.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. <10>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
1-7	4.1 (10)	10/10	3.8 (10)	93	10/10	3.9 (10)	95	10/10	3.8 (10)	93	10/10	3.6 (10)	88	10/10	3.2 (10)	78	10/10
2-7	4.1 (10)	10/10	4.0 (10)	98	10/10	4.0 (10)	98	10/10	4.1 (10)	100	10/10	4.3 (10)	105	10/10	4.3 (10)	105	10/10
3-7	4.2 (10)	10/10	4.0 (10)	95	10/10	4.3 (10)	102	10/10	4.1 (10)	98	10/10	4.1 (10)	98	10/10	3.7 (10)	88	10/10
4-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.3 (10)	102	10/10	4.0 (10)	95	10/10	4.1 (10)	98	10/10	3.6 (10)	86	10/10
5-7	4.3 (10)	10/10	4.2 (10)	98	10/10	4.3 (10)	100	10/10	4.0 (10)	93	10/10	4.1 (10)	95	10/10	3.7 (10)	86	10/10
6-7	4.2 (10)	10/10	4.1 (10)	98	10/10	4.3 (10)	102	10/10	4.1 (10)	98	10/10	4.2 (10)	100	10/10	3.5 (10)	83	10/10
7-7	4.4 (10)	10/10	4.2 (10)	95	10/10	4.4 (10)	100	10/10	4.2 (10)	95	10/10	4.2 (10)	95	10/10	3.6 (10)	82	10/10
8-7	4.4 (10)	10/10	4.2 (10)	95	10/10	4.2 (10)	95	10/10	4.1 (10)	93	10/10	4.2 (10)	95	10/10	3.7 (10)	84	10/10
9-7	4.5 (10)	10/10	4.4 (10)	98	10/10	4.5 (10)	100	10/10	4.5 (10)	100	10/10	4.2 (10)	93	10/10	3.7 (10)	82	10/10
10-7	4.5 (10)	10/10	4.3 (10)	96	10/10	4.5 (10)	100	10/10	4.2 (10)	93	10/10	4.3 (10)	96	10/10	3.7 (10)	82	10/10
11-7	4.4 (10)	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.2 (10)	95	10/10	4.3 (10)	98	10/10	3.6 (10)	82	10/10
12-7	4.5 (10)	10/10	4.4 (10)	98	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10	4.2 (10)	93	10/10	3.8 (10)	84	10/10
13-7	4.4 (10)	10/10	4.3 (10)	98	10/10	4.4 (10)	100	10/10	4.3 (10)	98	10/10	4.3 (10)	98	10/10	3.7 (10)	84	10/10

< >: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>	50 ppm Av.FC.	50 ppm % of cont. <10>	50 ppm No.of Surviv.	100 ppm Av.FC.	100 ppm % of cont. <10>	100 ppm No.of Surviv.	200 ppm Av.FC.	200 ppm % of cont. <10>	200 ppm No.of Surviv.	400 ppm Av.FC.	400 ppm % of cont. < 9>	400 ppm No.of Surviv.	800 ppm Av.FC.	800 ppm % of cont. <10>	800 ppm No.of Surviv.
1-7	3.3 (10)	10/10	3.3 (10)	100	10/10	3.3 (10)	100	10/10	3.3 (10)	100	10/10	3.0 (9)	91	10/10	2.8 (10)	85	10/10
2-7	3.5 (10)	10/10	3.7 (10)	106	10/10	3.6 (10)	103	10/10	3.7 (10)	106	10/10	3.8 (9)	109	10/10	3.6 (10)	103	10/10
3-7	3.7 (10)	10/10	3.8 (10)	103	10/10	3.8 (10)	103	10/10	3.9 (10)	105	10/10	3.6 (9)	97	10/10	3.6 (10)	97	10/10
4-7	3.8 (10)	10/10	4.0 (10)	105	10/10	4.0 (10)	105	10/10	3.8 (10)	100	10/10	3.8 (9)	100	9/ 9	3.6 (10)	95	10/10
5-7	4.0 (10)	10/10	4.1 (10)	103	10/10	4.1 (10)	103	10/10	4.0 (10)	100	10/10	3.8 (9)	95	9/ 9	3.6 (10)	90	10/10
6-7	4.1 (10)	10/10	4.1 (10)	100	10/10	4.2 (10)	102	10/10	4.1 (10)	100	10/10	3.9 (9)	95	9/ 9	3.4 (10)	83	10/10
7-7	4.2 (10)	10/10	4.3 (10)	102	10/10	4.3 (10)	102	10/10	4.2 (10)	100	10/10	4.2 (9)	100	9/ 9	3.7 (10)	88	10/10
8-7	4.2 (10)	10/10	4.4 (10)	105	10/10	4.3 (10)	102	10/10	4.3 (10)	102	10/10	4.3 (9)	102	9/ 9	3.8 (10)	90	10/10
9-7	4.4 (10)	10/10	4.3 (10)	98	10/10	4.4 (10)	100	10/10	4.3 (10)	98	10/10	4.2 (9)	95	9/ 9	3.8 (10)	86	10/10
10-7	4.3 (10)	10/10	4.4 (10)	102	10/10	4.2 (10)	98	10/10	4.3 (10)	100	10/10	4.3 (9)	100	9/ 9	3.9 (10)	91	10/10
11-7	4.2 (10)	10/10	4.4 (10)	105	10/10	4.3 (10)	102	10/10	4.3 (10)	102	10/10	4.2 (9)	100	9/ 9	3.8 (10)	90	10/10
12-7	4.2 (10)	10/10	4.4 (10)	105	10/10	4.4 (10)	105	10/10	4.4 (10)	105	10/10	4.3 (9)	102	9/ 9	3.8 (10)	90	10/10
13-7	4.3 (10)	10/10	4.3 (10)	100	10/10	4.2 (10)	98	10/10	4.2 (10)	98	10/10	4.4 (9)	102	9/ 9	4.0 (10)	93	10/10

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