

1,2-ジクロロプロパンのラットを用いた  
吸入によるがん原性試験報告書

試験番号：0457

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TABLE 1 CONCENTRATIONS OF 1,2-DICHLOROPROPANE IN THE INHALATION CHAMBER OF THE 2-YEAR INHALATION STUDY

Group Name	Concentration(ppm) Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
80 ppm	80.2 $\pm$ 0.5
200 ppm	200.5 $\pm$ 1.3
500 ppm	500.2 $\pm$ 2.4

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Week on Study	Control		80 ppm			200 ppm			500 ppm		
	Av. Wt. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0	122 ( 50 )	50 / 50	122 ( 50 )	100	50 / 50	122 ( 50 )	100	50 / 50	122 ( 50 )	100	50 / 50
1	153 ( 50 )	50 / 50	144 ( 50 )	94	50 / 50	142 ( 50 )	93	50 / 50	138 ( 50 )	90	50 / 50
2	185 ( 50 )	50 / 50	177 ( 50 )	96	50 / 50	173 ( 50 )	94	50 / 50	168 ( 50 )	91	50 / 50
3	212 ( 50 )	50 / 50	200 ( 50 )	94	50 / 50	194 ( 50 )	92	50 / 50	187 ( 50 )	88	50 / 50
4	232 ( 50 )	50 / 50	221 ( 50 )	95	50 / 50	214 ( 50 )	92	50 / 50	204 ( 50 )	88	50 / 50
5	250 ( 50 )	50 / 50	241 ( 50 )	96	50 / 50	233 ( 50 )	93	50 / 50	223 ( 50 )	89	50 / 50
6	264 ( 50 )	50 / 50	253 ( 50 )	96	50 / 50	244 ( 50 )	92	50 / 50	234 ( 50 )	89	50 / 50
7	278 ( 50 )	50 / 50	266 ( 50 )	96	50 / 50	256 ( 50 )	92	50 / 50	246 ( 50 )	88	50 / 50
8	292 ( 50 )	50 / 50	277 ( 50 )	95	50 / 50	269 ( 50 )	92	50 / 50	258 ( 50 )	88	50 / 50
9	301 ( 50 )	50 / 50	287 ( 50 )	95	50 / 50	277 ( 50 )	92	50 / 50	267 ( 50 )	89	50 / 50
10	307 ( 50 )	50 / 50	294 ( 50 )	96	50 / 50	285 ( 50 )	93	50 / 50	274 ( 50 )	89	50 / 50
11	314 ( 50 )	50 / 50	302 ( 50 )	96	50 / 50	290 ( 50 )	92	50 / 50	280 ( 50 )	89	50 / 50
12	321 ( 50 )	50 / 50	309 ( 50 )	96	50 / 50	299 ( 50 )	93	50 / 50	288 ( 50 )	90	50 / 50
13	327 ( 50 )	50 / 50	315 ( 50 )	96	50 / 50	304 ( 50 )	93	50 / 50	292 ( 50 )	89	50 / 50
14	332 ( 50 )	50 / 50	315 ( 50 )	95	50 / 50	304 ( 50 )	92	50 / 50	293 ( 50 )	88	50 / 50
18	347 ( 50 )	50 / 50	330 ( 50 )	95	50 / 50	318 ( 50 )	92	50 / 50	309 ( 50 )	89	50 / 50
22	363 ( 50 )	50 / 50	345 ( 50 )	95	50 / 50	334 ( 50 )	92	50 / 50	324 ( 50 )	89	50 / 50
26	375 ( 50 )	50 / 50	356 ( 50 )	95	50 / 50	346 ( 50 )	92	50 / 50	336 ( 50 )	90	50 / 50
30	383 ( 50 )	50 / 50	364 ( 50 )	95	50 / 50	355 ( 50 )	93	50 / 50	346 ( 50 )	90	50 / 50
34	391 ( 50 )	50 / 50	371 ( 50 )	95	50 / 50	364 ( 50 )	93	50 / 50	356 ( 49 )	91	49 / 50
38	399 ( 50 )	50 / 50	378 ( 50 )	95	50 / 50	373 ( 50 )	93	50 / 50	365 ( 49 )	91	49 / 50
42	405 ( 50 )	50 / 50	385 ( 49 )	95	49 / 50	379 ( 50 )	94	50 / 50	373 ( 49 )	92	49 / 50
46	411 ( 50 )	50 / 50	390 ( 49 )	95	49 / 50	383 ( 50 )	93	50 / 50	377 ( 49 )	92	49 / 50
50	420 ( 50 )	50 / 50	399 ( 49 )	95	49 / 50	392 ( 50 )	93	50 / 50	386 ( 49 )	92	49 / 50
54	421 ( 50 )	50 / 50	401 ( 49 )	95	49 / 50	396 ( 50 )	94	50 / 50	387 ( 49 )	92	49 / 50
58	424 ( 50 )	50 / 50	402 ( 49 )	95	49 / 50	397 ( 50 )	94	50 / 50	389 ( 48 )	92	48 / 50
62	426 ( 50 )	50 / 50	405 ( 49 )	95	49 / 50	400 ( 50 )	94	50 / 50	392 ( 48 )	92	48 / 50
66	430 ( 49 )	49 / 50	406 ( 49 )	94	49 / 50	402 ( 50 )	93	50 / 50	394 ( 47 )	92	47 / 50
70	430 ( 49 )	49 / 50	407 ( 48 )	95	48 / 50	402 ( 50 )	93	50 / 50	395 ( 47 )	92	47 / 50
74	431 ( 49 )	49 / 50	409 ( 47 )	95	47 / 50	403 ( 50 )	94	50 / 50	394 ( 46 )	91	46 / 50
78	432 ( 48 )	48 / 50	410 ( 47 )	95	47 / 50	405 ( 50 )	94	50 / 50	393 ( 44 )	91	44 / 50
82	428 ( 47 )	47 / 50	409 ( 45 )	96	45 / 50	404 ( 50 )	94	50 / 50	391 ( 43 )	91	43 / 50
86	424 ( 47 )	47 / 50	407 ( 43 )	96	43 / 50	402 ( 49 )	95	49 / 50	388 ( 43 )	92	43 / 50
90	423 ( 46 )	46 / 50	408 ( 42 )	96	42 / 50	401 ( 49 )	95	49 / 50	386 ( 41 )	91	41 / 50
94	421 ( 45 )	45 / 50	409 ( 42 )	97	42 / 50	394 ( 48 )	94	48 / 50	385 ( 41 )	91	41 / 50
98	416 ( 45 )	45 / 50	403 ( 41 )	97	41 / 50	387 ( 46 )	93	46 / 50	380 ( 39 )	91	39 / 50
102	407 ( 42 )	42 / 50	400 ( 40 )	98	40 / 50	382 ( 43 )	94	43 / 50	381 ( 37 )	94	37 / 50
104	409 ( 40 )	40 / 50	396 ( 39 )	97	39 / 50	382 ( 41 )	93	41 / 50	362 ( 36 )	89	36 / 50

< > : No. of effective animals, ( ) : No. of measured animals, Av. Wt. : Averaged body weight (Unit : g).

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Week on Study	Control		80 ppm			200 ppm			500 ppm		
	Av. Wt. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0	96 ( 50 )	50 / 50	96 ( 50 )	100	50 / 50	96 ( 50 )	100	50 / 50	96 ( 50 )	100	50 / 50
1	111 ( 50 )	50 / 50	106 ( 50 )	95	50 / 50	105 ( 50 )	95	50 / 50	103 ( 50 )	93	50 / 50
2	124 ( 50 )	50 / 50	119 ( 50 )	96	50 / 50	118 ( 50 )	95	50 / 50	117 ( 50 )	94	50 / 50
3	134 ( 50 )	50 / 50	129 ( 50 )	96	50 / 50	127 ( 50 )	95	50 / 50	124 ( 50 )	93	50 / 50
4	142 ( 50 )	50 / 50	136 ( 50 )	96	50 / 50	135 ( 50 )	95	50 / 50	133 ( 50 )	94	50 / 50
5	150 ( 50 )	50 / 50	145 ( 50 )	97	50 / 50	144 ( 50 )	96	50 / 50	141 ( 50 )	94	50 / 50
6	155 ( 50 )	50 / 50	151 ( 50 )	97	50 / 50	148 ( 50 )	95	50 / 50	146 ( 50 )	94	50 / 50
7	160 ( 50 )	50 / 50	156 ( 50 )	98	50 / 50	152 ( 50 )	95	50 / 50	151 ( 50 )	94	50 / 50
8	165 ( 50 )	50 / 50	160 ( 50 )	97	50 / 50	157 ( 50 )	95	50 / 50	156 ( 50 )	95	50 / 50
9	170 ( 50 )	50 / 50	164 ( 50 )	96	50 / 50	160 ( 50 )	94	50 / 50	160 ( 50 )	94	50 / 50
10	173 ( 50 )	50 / 50	167 ( 50 )	97	50 / 50	165 ( 50 )	95	50 / 50	164 ( 50 )	95	50 / 50
11	176 ( 50 )	50 / 50	172 ( 50 )	98	50 / 50	167 ( 50 )	95	50 / 50	166 ( 50 )	94	50 / 50
12	179 ( 50 )	50 / 50	174 ( 50 )	97	50 / 50	171 ( 50 )	96	50 / 50	170 ( 50 )	95	50 / 50
13	182 ( 50 )	50 / 50	177 ( 50 )	97	50 / 50	171 ( 50 )	94	50 / 50	170 ( 50 )	93	50 / 50
14	183 ( 50 )	50 / 50	176 ( 50 )	96	50 / 50	171 ( 50 )	93	50 / 50	169 ( 50 )	92	50 / 50
18	189 ( 50 )	50 / 50	182 ( 50 )	96	50 / 50	179 ( 50 )	95	50 / 50	177 ( 50 )	94	50 / 50
22	196 ( 50 )	50 / 50	188 ( 50 )	96	50 / 50	187 ( 50 )	95	50 / 50	186 ( 50 )	95	50 / 50
26	201 ( 50 )	50 / 50	194 ( 50 )	97	50 / 50	194 ( 50 )	97	50 / 50	194 ( 50 )	97	50 / 50
30	205 ( 50 )	50 / 50	200 ( 50 )	98	50 / 50	199 ( 50 )	97	50 / 50	200 ( 50 )	98	50 / 50
34	208 ( 50 )	50 / 50	202 ( 50 )	97	50 / 50	203 ( 50 )	98	50 / 50	204 ( 50 )	98	50 / 50
38	212 ( 50 )	50 / 50	207 ( 50 )	98	50 / 50	210 ( 50 )	99	50 / 50	208 ( 50 )	98	50 / 50
42	214 ( 50 )	50 / 50	210 ( 50 )	98	50 / 50	212 ( 50 )	99	50 / 50	212 ( 50 )	99	50 / 50
46	220 ( 50 )	50 / 50	216 ( 50 )	98	50 / 50	217 ( 50 )	99	50 / 50	217 ( 50 )	99	50 / 50
50	225 ( 50 )	50 / 50	219 ( 49 )	97	49 / 50	225 ( 50 )	100	50 / 50	224 ( 48 )	100	48 / 50
54	227 ( 50 )	50 / 50	221 ( 49 )	97	49 / 50	226 ( 49 )	100	49 / 50	226 ( 48 )	100	48 / 50
58	229 ( 50 )	50 / 50	224 ( 49 )	98	49 / 50	227 ( 48 )	99	48 / 50	228 ( 47 )	100	47 / 50
62	234 ( 50 )	50 / 50	228 ( 49 )	97	49 / 50	232 ( 47 )	99	47 / 50	232 ( 46 )	99	46 / 50
66	237 ( 49 )	49 / 50	232 ( 49 )	98	49 / 50	236 ( 47 )	100	47 / 50	236 ( 46 )	100	46 / 50
70	243 ( 47 )	47 / 50	237 ( 49 )	98	49 / 50	240 ( 47 )	99	47 / 50	238 ( 46 )	98	46 / 50
74	247 ( 46 )	46 / 50	240 ( 48 )	97	48 / 50	247 ( 46 )	100	46 / 50	240 ( 46 )	97	46 / 50
78	255 ( 46 )	46 / 50	244 ( 47 )	96	47 / 50	250 ( 46 )	98	46 / 50	241 ( 44 )	95	44 / 50
82	257 ( 45 )	45 / 50	248 ( 47 )	96	47 / 50	253 ( 46 )	98	46 / 50	240 ( 43 )	93	43 / 50
86	258 ( 44 )	44 / 50	249 ( 47 )	97	47 / 50	258 ( 46 )	100	46 / 50	241 ( 41 )	93	41 / 50
90	262 ( 43 )	43 / 50	252 ( 47 )	96	47 / 50	260 ( 46 )	99	46 / 50	243 ( 40 )	93	40 / 50
94	262 ( 43 )	43 / 50	255 ( 47 )	97	47 / 50	262 ( 44 )	100	44 / 50	246 ( 38 )	94	38 / 50
98	268 ( 40 )	40 / 50	253 ( 45 )	94	45 / 50	264 ( 42 )	99	42 / 50	243 ( 36 )	91	36 / 50
102	267 ( 38 )	38 / 50	254 ( 42 )	95	42 / 50	264 ( 40 )	99	40 / 50	245 ( 34 )	92	34 / 50
104	267 ( 37 )	37 / 50	252 ( 41 )	94	41 / 50	266 ( 38 )	100	38 / 50	246 ( 32 )	92	32 / 50

< > : No. of effective animals, ( ) : No. of measured animals, Av. Wt. : Averaged body weight (Unit : g).

TABLE 4 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Week on Study	Control		80 ppm			200 ppm			500 ppm		
	Av. FC. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1	15.7 ( 50 )	50 / 50	13.5 ( 50 )	86	50 / 50	13.1 ( 50 )	83	50 / 50	12.3 ( 50 )	78	50 / 50
2	16.1 ( 50 )	50 / 50	15.2 ( 50 )	94	50 / 50	14.5 ( 50 )	90	50 / 50	14.6 ( 50 )	91	50 / 50
3	16.6 ( 50 )	50 / 50	15.8 ( 50 )	95	50 / 50	14.9 ( 50 )	90	50 / 50	14.8 ( 50 )	89	50 / 50
4	17.5 ( 50 )	50 / 50	17.0 ( 50 )	97	50 / 50	16.9 ( 50 )	97	50 / 50	16.8 ( 50 )	96	50 / 50
5	17.0 ( 50 )	50 / 50	17.2 ( 50 )	101	50 / 50	16.6 ( 50 )	98	50 / 50	16.4 ( 50 )	96	50 / 50
6	17.0 ( 50 )	50 / 50	16.7 ( 50 )	98	50 / 50	15.9 ( 50 )	94	50 / 50	16.2 ( 50 )	95	50 / 50
7	16.7 ( 50 )	50 / 50	16.7 ( 50 )	100	50 / 50	16.0 ( 50 )	96	50 / 50	16.2 ( 50 )	97	50 / 50
8	17.0 ( 50 )	50 / 50	16.7 ( 50 )	98	50 / 50	15.9 ( 50 )	94	50 / 50	15.8 ( 50 )	93	50 / 50
9	16.8 ( 50 )	50 / 50	16.6 ( 50 )	99	50 / 50	16.0 ( 50 )	95	50 / 50	16.0 ( 50 )	95	50 / 50
10	16.9 ( 50 )	50 / 50	16.9 ( 50 )	100	50 / 50	16.1 ( 50 )	95	50 / 50	15.7 ( 50 )	93	50 / 50
11	16.4 ( 50 )	50 / 50	16.2 ( 50 )	99	50 / 50	15.6 ( 50 )	95	50 / 50	15.5 ( 50 )	95	50 / 50
12	16.4 ( 50 )	50 / 50	16.4 ( 50 )	100	50 / 50	15.5 ( 50 )	95	50 / 50	15.1 ( 50 )	92	50 / 50
13	16.0 ( 50 )	50 / 50	15.9 ( 50 )	99	50 / 50	15.4 ( 50 )	96	50 / 50	14.8 ( 50 )	93	50 / 50
14	16.5 ( 50 )	50 / 50	15.4 ( 50 )	93	50 / 50	14.4 ( 50 )	87	50 / 50	14.0 ( 50 )	85	50 / 50
18	16.3 ( 50 )	50 / 50	15.7 ( 50 )	96	50 / 50	14.9 ( 50 )	91	50 / 50	14.9 ( 50 )	91	50 / 50
22	16.5 ( 50 )	50 / 50	16.2 ( 50 )	98	50 / 50	15.5 ( 50 )	94	50 / 50	15.3 ( 50 )	93	50 / 50
26	16.5 ( 50 )	50 / 50	15.9 ( 50 )	96	50 / 50	15.5 ( 50 )	94	50 / 50	15.2 ( 50 )	92	50 / 50
30	16.7 ( 50 )	50 / 50	16.2 ( 50 )	97	50 / 50	16.0 ( 50 )	96	50 / 50	16.0 ( 50 )	96	50 / 50
34	16.7 ( 50 )	50 / 50	16.3 ( 50 )	98	50 / 50	16.3 ( 50 )	98	50 / 50	16.0 ( 49 )	96	49 / 50
38	16.9 ( 50 )	50 / 50	16.5 ( 50 )	98	50 / 50	16.4 ( 50 )	97	50 / 50	16.4 ( 49 )	97	49 / 50
42	17.2 ( 50 )	50 / 50	16.9 ( 49 )	98	49 / 50	16.7 ( 50 )	97	50 / 50	16.7 ( 49 )	97	49 / 50
46	17.1 ( 50 )	50 / 50	16.7 ( 49 )	98	49 / 50	16.4 ( 50 )	96	50 / 50	16.5 ( 49 )	96	49 / 50
50	17.3 ( 50 )	50 / 50	17.3 ( 49 )	100	49 / 50	17.0 ( 50 )	98	50 / 50	16.8 ( 49 )	97	49 / 50
54	16.7 ( 50 )	50 / 50	16.7 ( 49 )	100	49 / 50	16.4 ( 50 )	98	50 / 50	16.4 ( 49 )	98	49 / 50
58	16.9 ( 50 )	50 / 50	16.7 ( 49 )	99	49 / 50	16.4 ( 50 )	97	50 / 50	16.3 ( 48 )	96	48 / 50
62	16.7 ( 50 )	50 / 50	16.5 ( 49 )	99	49 / 50	16.4 ( 50 )	98	50 / 50	16.3 ( 48 )	98	48 / 50
66	17.0 ( 49 )	49 / 50	16.3 ( 49 )	96	49 / 50	16.3 ( 50 )	96	50 / 50	16.2 ( 47 )	95	47 / 50
70	16.9 ( 49 )	49 / 50	16.4 ( 48 )	97	48 / 50	16.4 ( 50 )	97	50 / 50	16.4 ( 47 )	97	47 / 50
74	16.6 ( 49 )	49 / 50	16.5 ( 47 )	99	47 / 50	16.4 ( 50 )	99	50 / 50	16.1 ( 46 )	97	46 / 50
78	16.9 ( 48 )	48 / 50	16.3 ( 47 )	96	47 / 50	16.7 ( 50 )	99	50 / 50	16.2 ( 44 )	96	44 / 50
82	16.5 ( 47 )	47 / 50	16.5 ( 45 )	100	45 / 50	16.5 ( 50 )	100	50 / 50	16.1 ( 43 )	98	43 / 50
86	16.8 ( 47 )	47 / 50	16.8 ( 43 )	100	43 / 50	16.7 ( 49 )	99	49 / 50	16.2 ( 43 )	96	43 / 50
90	16.8 ( 46 )	46 / 50	16.8 ( 42 )	100	42 / 50	16.9 ( 49 )	101	49 / 50	16.6 ( 41 )	99	41 / 50
94	16.9 ( 45 )	45 / 50	17.3 ( 42 )	102	42 / 50	16.1 ( 48 )	95	48 / 50	16.6 ( 41 )	98	41 / 50
98	16.6 ( 45 )	45 / 50	16.6 ( 41 )	100	41 / 50	15.6 ( 46 )	94	46 / 50	15.7 ( 39 )	95	39 / 50
102	16.6 ( 42 )	42 / 50	17.0 ( 40 )	102	40 / 50	16.1 ( 43 )	97	43 / 50	16.0 ( 36 )	96	37 / 50
104	16.5 ( 40 )	40 / 50	16.2 ( 39 )	98	39 / 50	16.2 ( 41 )	98	41 / 50	15.2 ( 36 )	92	36 / 50

< > : No. of effective animals, ( ) : No. of measured animals, Av. FC. : Averaged food consumption (Unit : g).

TABLE 5 FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Week on Study	Control		80 ppm			200 ppm			500 ppm		
	Av. FC. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1	11.8 ( 50 )	50 / 50	10.6 ( 50 )	90	50 / 50	9.9 ( 50 )	84	50 / 50	9.4 ( 50 )	80	50 / 50
2	10.9 ( 50 )	50 / 50	10.5 ( 50 )	96	50 / 50	10.8 ( 50 )	99	50 / 50	11.1 ( 50 )	102	50 / 50
3	11.1 ( 50 )	50 / 50	11.1 ( 50 )	100	50 / 50	10.4 ( 50 )	94	50 / 50	10.5 ( 50 )	95	50 / 50
4	11.4 ( 50 )	50 / 50	11.3 ( 50 )	99	50 / 50	11.5 ( 50 )	101	50 / 50	11.7 ( 50 )	103	50 / 50
5	11.2 ( 50 )	50 / 50	11.8 ( 50 )	105	50 / 50	11.1 ( 50 )	99	50 / 50	11.4 ( 50 )	102	50 / 50
6	11.0 ( 50 )	50 / 50	11.2 ( 50 )	102	50 / 50	11.0 ( 50 )	100	50 / 50	11.3 ( 50 )	103	50 / 50
7	10.7 ( 50 )	50 / 50	11.3 ( 50 )	106	50 / 50	10.5 ( 50 )	98	50 / 50	10.9 ( 50 )	102	50 / 50
8	10.7 ( 50 )	50 / 50	10.6 ( 50 )	99	50 / 50	10.8 ( 50 )	101	50 / 50	11.2 ( 50 )	105	50 / 50
9	11.1 ( 50 )	50 / 50	11.1 ( 50 )	100	50 / 50	10.4 ( 50 )	94	50 / 50	10.9 ( 50 )	98	50 / 50
10	11.0 ( 50 )	50 / 50	11.1 ( 50 )	101	50 / 50	10.9 ( 50 )	99	50 / 50	11.3 ( 50 )	103	50 / 50
11	11.0 ( 50 )	50 / 50	10.9 ( 50 )	99	50 / 50	10.2 ( 50 )	93	50 / 50	10.6 ( 50 )	96	50 / 50
12	10.6 ( 50 )	50 / 50	10.9 ( 50 )	103	50 / 50	10.6 ( 50 )	100	50 / 50	10.8 ( 50 )	102	50 / 50
13	10.9 ( 50 )	50 / 50	11.0 ( 50 )	101	50 / 50	10.0 ( 50 )	92	50 / 50	10.3 ( 50 )	94	50 / 50
14	10.7 ( 50 )	50 / 50	10.5 ( 50 )	98	50 / 50	9.9 ( 50 )	93	50 / 50	9.9 ( 50 )	93	50 / 50
18	10.6 ( 50 )	50 / 50	10.5 ( 50 )	99	50 / 50	10.7 ( 50 )	101	50 / 50	10.8 ( 50 )	102	50 / 50
22	10.5 ( 50 )	50 / 50	10.7 ( 50 )	102	50 / 50	11.2 ( 50 )	107	50 / 50	11.2 ( 50 )	107	50 / 50
26	10.9 ( 50 )	50 / 50	10.8 ( 50 )	99	50 / 50	10.9 ( 50 )	100	50 / 50	11.2 ( 50 )	103	50 / 50
30	11.2 ( 50 )	50 / 50	11.3 ( 50 )	101	50 / 50	11.5 ( 50 )	103	50 / 50	11.8 ( 50 )	105	50 / 50
34	10.5 ( 50 )	50 / 50	10.7 ( 50 )	102	50 / 50	11.3 ( 50 )	108	50 / 50	11.6 ( 50 )	110	50 / 50
38	11.2 ( 50 )	50 / 50	11.2 ( 50 )	100	50 / 50	11.9 ( 50 )	106	50 / 50	11.8 ( 50 )	105	50 / 50
42	11.1 ( 50 )	50 / 50	11.6 ( 50 )	105	50 / 50	11.9 ( 50 )	107	50 / 50	12.0 ( 50 )	108	50 / 50
46	11.4 ( 50 )	50 / 50	11.6 ( 50 )	102	50 / 50	12.0 ( 50 )	105	50 / 50	12.1 ( 50 )	106	50 / 50
50	11.4 ( 50 )	50 / 50	11.2 ( 49 )	98	49 / 50	12.3 ( 50 )	108	50 / 50	12.4 ( 48 )	109	48 / 50
54	10.8 ( 50 )	50 / 50	11.2 ( 49 )	104	49 / 50	11.4 ( 49 )	106	49 / 50	11.9 ( 48 )	110	48 / 50
58	11.1 ( 50 )	50 / 50	11.5 ( 49 )	104	49 / 50	11.5 ( 48 )	104	48 / 50	11.7 ( 47 )	105	47 / 50
62	11.3 ( 50 )	50 / 50	11.5 ( 49 )	102	49 / 50	12.0 ( 47 )	106	47 / 50	12.1 ( 46 )	107	46 / 50
66	11.3 ( 49 )	49 / 50	11.3 ( 49 )	100	49 / 50	11.8 ( 47 )	104	47 / 50	12.1 ( 46 )	107	46 / 50
70	11.7 ( 47 )	47 / 50	11.8 ( 49 )	101	49 / 50	12.0 ( 47 )	103	47 / 50	12.0 ( 46 )	103	46 / 50
74	11.7 ( 46 )	46 / 50	11.8 ( 48 )	101	48 / 50	12.4 ( 46 )	106	46 / 50	11.7 ( 46 )	100	46 / 50
78	12.0 ( 46 )	46 / 50	12.1 ( 47 )	101	47 / 50	12.3 ( 46 )	103	46 / 50	12.1 ( 44 )	101	44 / 50
82	11.8 ( 45 )	45 / 50	11.9 ( 47 )	101	47 / 50	12.2 ( 46 )	103	46 / 50	11.8 ( 43 )	100	43 / 50
86	12.5 ( 44 )	44 / 50	12.4 ( 47 )	99	47 / 50	12.8 ( 46 )	102	46 / 50	12.3 ( 41 )	98	41 / 50
90	12.5 ( 43 )	43 / 50	12.3 ( 47 )	98	47 / 50	12.6 ( 46 )	101	46 / 50	12.4 ( 40 )	99	40 / 50
94	12.4 ( 43 )	43 / 50	12.7 ( 47 )	102	47 / 50	12.7 ( 44 )	102	44 / 50	12.6 ( 38 )	102	38 / 50
98	12.7 ( 40 )	40 / 50	11.9 ( 45 )	94	45 / 50	12.3 ( 42 )	97	42 / 50	11.8 ( 36 )	93	36 / 50
102	12.9 ( 38 )	38 / 50	12.6 ( 42 )	98	42 / 50	12.4 ( 40 )	96	40 / 50	12.5 ( 34 )	97	34 / 50
104	12.7 ( 37 )	37 / 50	11.9 ( 41 )	94	41 / 50	12.4 ( 38 )	98	38 / 50	12.6 ( 32 )	99	32 / 50

< > : No. of effective animals, ( ) : No. of measured animals, Av. FC. : Averaged food consumption (Unit : g).



TABLE 6 HEMATOLOGY OF MALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm
No. of examined animals	40	39	41	36
WBC ( $10^3/\mu\text{L}$ )	5.85 ± 1.47	11.11 ± 25.55	5.59 ± 1.40	5.04 ± 1.49 *

Mean ± S.D.  
Significant difference: \* :  $p \leq 0.05$  \*\* :  $p \leq 0.01$  Test of Dunnett

TABLE 7 HEMATOLOGY OF FEMALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm
No. of examined animals	37	41	38	32
RED BLOOD CELL ( $10^6/\mu\text{L}$ )	7.96 ± 1.13	7.90 ± 1.06	8.03 ± 0.52	7.67 ± 0.78 *
MCV (fL)	52.7 ± 4.8	52.7 ± 4.2	52.5 ± 1.6	54.1 ± 1.9 **
MCHC (g/dL)	35.6 ± 1.2	35.3 ± 1.7	35.5 ± 0.6	34.9 ± 1.2 **
Differential WBC (%)				
EOSINO	2 ± 1	2 ± 1	1 ± 1 *	1 ± 1 **

Mean ± S.D.  
Significant difference: \* :  $p \leq 0.05$  \*\* :  $p \leq 0.01$  Test of Dunnett

TABLE 8 BIOCHEMISTRY OF MALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm	
No. of examined animals	40	39	41	36	
POTASSIUM (mEq/L)	3.5 ± 0.2	3.7 ± 0.3	3.6 ± 0.3	3.8 ± 0.4	**
Mean ± S.D.					
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett					

TABLE 9 BIOCHEMISTRY OF FEMALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm	
No. of examined animals	37	41	38	32	
G-GTP (IU/L)	3 ± 2	3 ± 2	3 ± 2	5 ± 4	**
UREA NITROGEN (mg/dL)	17.3 ± 1.9	18.4 ± 2.3 *	17.5 ± 1.8	17.8 ± 2.8	
Mean ± S.D.					
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett					

TABLE 10 ORGAN WEIGHTS OF MALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm
No. of examined animals	40	39	41	36
Body weight (g)	381 ± 28	372 ± 44	357 ± 31	339 ± 39
Testes (g)	3.193 ± 1.411	3.730 ± 1.553	3.589 ± 1.278	4.639 ± 1.865
Testes (%)	0.838 ± 0.365	0.999 ± 0.406	1.001 ± 0.341	1.358 ± 0.492
Heart (g)	1.229 ± 0.084	1.232 ± 0.089	1.211 ± 0.096	1.197 ± 0.102
Heart (%)	0.324 ± 0.029	0.335 ± 0.037	0.341 ± 0.036	0.357 ± 0.049
Lungs (g)	1.438 ± 0.141	1.476 ± 0.225	1.379 ± 0.099	1.365 ± 0.085
Lungs (%)	0.379 ± 0.046	0.404 ± 0.094	0.388 ± 0.040	0.408 ± 0.054
Kidneys (g)	2.709 ± 0.171	2.753 ± 0.253	2.761 ± 0.310	2.706 ± 0.265
Kidneys (%)	0.714 ± 0.069	0.746 ± 0.070	0.777 ± 0.099	0.808 ± 0.125
Spleen (g)	1.029 ± 0.506	1.625 ± 3.568	0.853 ± 0.219	0.835 ± 0.373
Spleen (%)	0.270 ± 0.136	0.476 ± 1.211	0.238 ± 0.055	0.248 ± 0.125
Liver (g)	11.016 ± 1.269	11.094 ± 2.037	10.346 ± 1.156	10.105 ± 1.530
Liver (%)	2.896 ± 0.331	2.994 ± 0.532	2.903 ± 0.301	2.982 ± 0.291
Brain (g)	2.041 ± 0.050	2.017 ± 0.050	2.000 ± 0.063	1.967 ± 0.041
Brain (%)	0.538 ± 0.040	0.549 ± 0.063	0.563 ± 0.046	0.589 ± 0.080

Mean ± S.D.  
Significant difference: \* :  $p \leq 0.05$  \*\* :  $p \leq 0.01$  Test of Dunnett

TABLE 11 ORGAN WEIGHTS OF FEMALE RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm	
No. of examined animals	37	41	38	32	
Body weight (g)	249 ± 35	234 ± 19	249 ± 21	230 ± 35	**
Adrenals (g)	0.107 ± 0.228	0.069 ± 0.006	0.077 ± 0.023	0.094 ± 0.115	
Adrenals (%)	0.043 ± 0.089	0.030 ± 0.003	0.031 ± 0.010	0.043 ± 0.058	**
Ovaries (g)	0.137 ± 0.064	0.320 ± 1.231	0.131 ± 0.028	0.181 ± 0.216	
Ovaries (%)	0.055 ± 0.024	0.150 ± 0.608	0.053 ± 0.012	0.083 ± 0.109	*
Heart (g)	0.884 ± 0.082	0.868 ± 0.073	0.885 ± 0.067	0.894 ± 0.085	
Heart (%)	0.359 ± 0.037	0.373 ± 0.043	0.357 ± 0.031	0.394 ± 0.043	**
Lungs (g)	1.041 ± 0.138	1.025 ± 0.143	1.025 ± 0.047	1.046 ± 0.107	
Lungs (%)	0.423 ± 0.065	0.441 ± 0.089	0.414 ± 0.039	0.463 ± 0.075	**
Kidneys (g)	1.789 ± 0.159	1.729 ± 0.100	1.767 ± 0.097	1.810 ± 0.159	
Kidneys (%)	0.729 ± 0.092	0.741 ± 0.061	0.714 ± 0.066	0.799 ± 0.107	**
Liver (g)	6.717 ± 1.111	6.412 ± 0.893	6.724 ± 0.603	6.764 ± 1.190	
Liver (%)	2.715 ± 0.401	2.743 ± 0.380	2.710 ± 0.249	2.958 ± 0.415	**
Brain (g)	1.855 ± 0.055	1.824 ± 0.042 *	1.828 ± 0.055 *	1.789 ± 0.046	**
Brain (%)	0.759 ± 0.099	0.783 ± 0.064	0.740 ± 0.076	0.793 ± 0.099	
Mean ± S.D.					
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett					

TABLE 12 INCIDENCES OF SELECTED NEOPLASTIC LESIONS OF MALE RATS  
IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm	Peto	Cochran-
Number of examined animals	50	50	50	50	test	Armitage
						test
subcutis	<50>	<50>	<50>	<50>		
fibroma	2 ( 4 %)	4 ( 8 %)	8 (16 %)*	6 (12 %)	↑	
fibrosarcoma	0 ( 0 %)	1 ( 2 %)	0 ( 0 %)	0 ( 0 %)		
nasal cavity	<50>	<50>	<50>	<50>		
squamous cell papilloma	0 ( 0 %)	0 ( 0 %)	2 ( 4 %)	14 (28 %)**	↑ ↑	↑ ↑
adenoma	0 ( 0 %)	0 ( 0 %)	1 ( 2 %)	1 ( 2 %)		
adenoacanthoma	0 ( 0 %)	0 ( 0 %)	0 ( 0 %)	1 ( 2 %)		
ethesioneuroepithelioma	0 ( 0 %)	2 ( 4 %)	1 ( 2 %)	0 ( 0 %)		
pancreas	<50>	<50>	<50>	<50>		
islet cell adenoma	6 (12 %)	2 ( 4 %)	0 ( 0 %)*	2 ( 4 %)		
thyroid	<50>	<50>	<50>	<50>		
follicular adenoma	1 ( 2 %)	0 ( 0 %)	0 ( 0 %)	3 ( 6 %)	↑	
follicular adenocarcinoma	0 ( 0 %)	0 ( 0 %)	1 ( 2 %)	1 ( 2 %)		

Significant difference : \* :  $p \leq 0.05$  \*\* :  $p \leq 0.01$  Fisher's exact test for neoplastic lesion  
 $\uparrow(\downarrow)$  :  $p \leq 0.05$   $\uparrow\uparrow(\downarrow\downarrow)$  :  $p \leq 0.01$  Peto or Cochran-Armitage test for neoplastic lesion  
< > : Number of animals examined at the site

TABLE 13 INCIDENCES OF SELECTED NEOPLASTIC LESIONS OF FEMALE RATS  
IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control	80 ppm	200 ppm	500 ppm	Peto	Cochran-
Number of examined animals	50	50	50	50	test	Armitage
						test
nasal cavity	<50>	<50>	<50>	<50>		
squamous cell papilloma	0 ( 0 %)	0 ( 0 %)	0 ( 0 %)	9 ( 18 % ) **	↑ ↑	↑ ↑
spleen	<50>	<50>	<50>	<50>		
mononuclear cell leukemia	8 ( 16 %)	6 ( 12 %)	3 ( 6 %)	2 ( 4 % ) *		↓
uterus	<50>	<50>	<50>	<50>		
endometrial stromal polyp	10 ( 20 %)	15 ( 30 %)	2 ( 4 % ) *	3 ( 6 % ) *		↓ ↓
mammary gland	<50>	<50>	<50>	<50>		
adenoma	0 ( 0 %)	2 ( 4 %)	0 ( 0 %)	4 ( 8 %)	↑	↑
fibroadenoma	2 ( 4 %)	4 ( 8 %)	3 ( 6 %)	5 ( 10 %)		
Significant difference : * : $p \leq 0.05$ ** : $p \leq 0.01$ Fisher's exact test for neoplastic lesion						
↑ (↓) : $p \leq 0.05$ ↑ ↑ (↓ ↓) : $p \leq 0.01$ Peto or Cochran-Armitage test for neoplastic lesion						
< > : Number of animals examined at the site						

TABLE 14 INCIDENCES OF SELECTED NON-NEOPLASTIC LESIONS OF MALE RATS  
IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control				80 ppm				200 ppm				500 ppm			
	50				50				50				50			
Grade of non-neoplastic lesion	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
nasal cavity	<50>				<50>				<50>				<50>			
inflammation:respiratory epithelium	20	0	0	0	35	0	0	0 **	46	1	0	0 **	37	10	0	0 **
squamous cell metaplasia:respiratory epithelium	5	0	0	0	30	1	0	0 **	40	1	0	0 **	37	12	0	0 **
hyperplasia:transitional epithelium	0	0	0	0	27	4	0	0 **	36	3	0	0 **	20	17	11	0 **
goblet cell hyperplasia	0	0	0	0	15	0	0	0 **	39	2	0	0 **	37	7	1	0 **
squamous cell hyperplasia	0	0	0	0	2	0	0	0	6	0	0	0 *	23	4	0	0 **
atrophy:olfactory epithelium	0	0	0	0	41	7	0	0 **	4	46	0	0 **	0	49	0	0 **
respiratory metaplasia:olfactory epithelium	21	0	0	0	49	1	0	0 **	50	0	0	0 **	2	42	5	0 **
sclerosis:lamina propria	0	0	0	0	2	0	0	0	9	0	0	0 **	15	0	0	0 **
hyperplasia:gland	0	0	0	0	44	2	0	0 **	8	37	5	0 **	3	19	27	0 **
adhesion	0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
eosinophilic change:olfactory epithelium	40	6	0	0	0	0	0	0 **	0	0	0	0 **	0	0	0	0 **
eosinophilic change:respiratory epithelium	36	0	0	0	0	0	0	0 **	1	0	0	0 **	1	0	0	0 **
liver	<50>				<50>				<50>				<50>			
bile duct hyperplasia	49	0	0	0	48	0	0	0	45	0	0	0	42	0	0	0 *

Grade 1 : Slight    2 : Moderate    3 : Marked    4 : Severe  
 < > : Number of animals examined at the site  
 Significant difference : \* :  $p \leq 0.05$     \*\* :  $p \leq 0.01$     Test of Chi Square

TABLE 15 INCIDENCES OF SELECTED NON-NEOPLASTIC LESIONS OF FEMALE RATS  
IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group Name	Control				80 ppm				200 ppm				500 ppm			
	50				50				50				50			
Grade of non-neoplastic lesion	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
nasal cavity	<50>				<50>				<50>				<50>			
inflammation:respiratory epithelium	10	0	0	0	29	1	0	0 **	38	1	0	0 **	35	5	0	0 **
squamous cell metaplasia:respiratory epithelium	3	0	0	0	15	0	0	0 **	31	6	0	0 **	25	21	0	0 **
hyperplasia:transitional epithelium	2	0	0	0	17	3	1	0 **	35	4	0	0 **	31	10	7	0 **
goblet cell hyperplasia	0	0	0	0	0	0	0	0	15	0	0	0 **	41	0	0	0 **
squamous cell hyperplasia	0	0	0	0	0	0	0	0	3	0	0	0	15	5	0	0 **
atrophy:olfactory epithelium	0	0	0	0	50	0	0	0 **	3	47	0	0 **	2	48	0	0 **
respiratory metaplasia:olfactory epithelium	0	0	0	0	49	0	0	0 **	18	32	0	0 **	1	48	1	0 **
sclerosis:lamina propria	0	0	0	0	8	0	0	0 **	12	0	0	0 **	24	0	0	0 **
hyperplasia:gland	0	0	0	0	41	1	0	0 **	7	41	2	0 **	4	31	15	0 **
adhesion	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0
eosinophilic change:olfactory epithelium	7	42	0	0	1	0	0	0 **	1	0	0	0 **	0	0	0	0 **
eosinophilic change:respiratory epithelium	41	0	0	0	12	0	0	0 **	5	0	0	0 **	2	0	0	0 **
liver	<50>				<50>				<50>				<50>			
granulation	10	0	1	0	19	3	0	0 *	23	3	1	0 **	16	0	0	0
pancreas	<50>				<50>				<50>				<50>			
atrophy	11	0	0	0	8	0	0	0	2	0	0	0 *	4	0	1	0

Grade 1 : Slight    2 : Moderate    3 : Marked    4 : Severe  
 < > : Number of animals examined at the site  
 Significant difference : \* :  $p \leq 0.05$     \*\* :  $p \leq 0.01$     Test of Chi Square



TABLE 16 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER :  
F344/DuCrICrIj MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Nasal cavity	1949			
Adenoma		2	0.1	0 - 2
Adenoacanthoma		0	0.0	0 - 0
Squamous cell papilloma		0	0.0	0 - 0
Ethesioneuroepithelioma		0	0.0	0 - 0
Thyroid	1942			
Follicular adenoma 1)		16	0.8	0 - 4
Follicular adenocarcinoma 2)		34	1.8	0 - 8
1)+2)		50	2.6	0 - 8
Subcutis	1949			
Fibroma		151	7.7	2 - 20

Thirty nine carcinogenicity studies examined in Japan Bioassay Research Center were used.

Study No. : 0043, 0059, 0061, 0063, 0065, 0067, 0095, 0104, 0115, 0130, 0141, 0158, 0162, 0189, 0205, 0210, 0224, 0242, 0267, 0269, 0278, 0284, 0288, 0294, 0296, 0318, 0328, 0342, 0347, 0365, 0371, 0396, 0399, 0401, 0407, 0417, 0421, 0437, 0448

TABLE 17 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER :  
F344/DuCrICrIj FEMALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Nasal cavity	1797			
Squamous cell papilloma		0	0.0	0 - 0
Mammary gland	1797			
Adenoma 1)		202	11.2	0 - 20
Fibroadenoma 2)		55	3.1	0 - 18
1)+2)		254	14.1	4 - 24

Thirty six carcinogenicity studies examined in Japan Bioassay Research Center were used.

Study No. : 0043, 0059, 0061, 0063, 0065, 0067, 0095, 0104, 0115, 0130, 0141, 0158, 0162, 0189, 0205, 0210, 0224, 0242, 0267, 0269, 0278, 0284, 0296, 0303, 0318, 0328, 0342, 0347, 0365, 0371, 0399, 0401, 0417, 0421, 0437, 0448

TABLE 18 CAUSE OF DEATH OF RATS IN THE 2-YEAR INHALATION STUDY OF 1,2-DICHLOROPROPANE

Group name	Male				Female			
	Control	80 ppm	200 ppm	500 ppm	Control	80 ppm	200 ppm	500 ppm
Number of dead or moribund animals	10	11	9	14	13	9	12	18
Urinary retention	1	2	0	0	0	0	0	0
Hepatic lesion	0	0	0	0	1	0	0	0
Renal lesion	0	0	0	0	0	0	0	2
Nasal lesion	0	0	0	2	0	0	0	0
Endocrine system lesion	0	0	0	0	1	1	0	1
Central nervous system lesion	0	0	0	0	0	0	0	1
Deglutition disorder	0	0	0	0	0	0	0	2
Arteritis	0	0	0	1	0	0	0	0
Tumor death : leukemia	5	0	4	4	5	3	3	1
skin / appendage	0	0	0	0	0	0	0	1
subcutis	0	1	2	2	0	0	0	1
bone marrow	0	0	0	1	0	0	0	0
liver	0	0	0	1	0	0	0	0
pituitary gland	2	0	2	0	3	3	4	3
thyroid	1	0	1	0	0	0	0	0
adrenal gland	0	1	0	0	0	0	0	0
ovary	—	—	—	—	1	0	0	0
uterus	—	—	—	—	0	0	2	1
brain	0	0	0	1	0	0	0	0
spinal cord	0	0	0	0	0	1	0	0
Zymbal gland	0	1	0	0	0	0	1	1
muscle	0	1	0	0	0	0	0	0
bone	0	1	0	0	0	0	1	0
peritoneum	0	1	0	0	0	0	0	0
retroperitoneum	1	1	0	0	0	0	0	0
No microscopical confirmation	0	2	0	2	2	1	1	4