

1,4-ジクロロ-2-ニトロベンゼンのマウスを用いた
経口投与によるがん原性試験(混餌試験)報告書

試験番号：0329

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Week on Study	Control		320ppm			800ppm			2000ppm		
	Av. Wt.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.
0	23.0 (49)	49 / 49	23.0 (50)	100	50 / 50	23.0 (50)	100	50 / 50	23.0 (50)	100	50 / 50
1	24.2 (49)	49 / 49	24.0 (50)	99	50 / 50	24.1 (50)	100	50 / 50	23.9 (49)	99	49 / 50
2	25.0 (49)	49 / 49	24.7 (50)	99	50 / 50	25.1 (50)	100	50 / 50	24.7 (49)	99	49 / 50
3	25.7 (49)	49 / 49	25.3 (50)	99	50 / 50	25.5 (50)	99	50 / 50	25.5 (49)	99	49 / 50
4	26.9 (48)	48 / 49	26.8 (50)	100	50 / 50	26.7 (50)	99	50 / 50	26.7 (49)	99	49 / 50
5	27.6 (48)	48 / 49	27.5 (50)	100	50 / 50	27.3 (50)	99	50 / 50	27.0 (49)	98	49 / 50
6	28.6 (48)	48 / 49	28.5 (50)	100	50 / 50	28.5 (50)	100	50 / 50	28.2 (49)	99	49 / 50
7	29.1 (48)	48 / 49	29.0 (50)	100	50 / 50	28.9 (50)	99	50 / 50	28.7 (49)	99	49 / 50
8	29.2 (48)	48 / 49	29.3 (50)	100	50 / 50	29.2 (50)	100	50 / 50	28.7 (49)	98	49 / 50
9	30.5 (48)	48 / 49	30.6 (50)	100	50 / 50	30.6 (50)	100	50 / 50	30.2 (49)	99	49 / 50
10	30.8 (48)	48 / 49	30.8 (50)	100	50 / 50	30.6 (50)	99	50 / 50	30.2 (49)	98	49 / 50
11	32.1 (48)	48 / 49	32.1 (50)	100	50 / 50	31.8 (50)	99	50 / 50	31.3 (49)	97	49 / 50
12	33.1 (48)	48 / 49	32.8 (50)	99	50 / 50	32.6 (50)	99	50 / 50	32.3 (49)	98	49 / 50
13	33.9 (48)	48 / 49	33.4 (50)	98	50 / 50	33.0 (50)	97	50 / 50	32.6 (49)	96	49 / 50
14	34.9 (48)	48 / 49	34.5 (50)	99	50 / 50	33.7 (50)	97	50 / 50	33.3 (49)	95	49 / 50
18	36.8 (48)	48 / 49	37.2 (50)	101	50 / 50	36.6 (50)	99	50 / 50	35.5 (49)	96	49 / 50
22	39.7 (48)	48 / 49	40.4 (50)	102	50 / 50	38.7 (50)	98	50 / 50	37.5 (49)	95	49 / 50
26	42.5 (47)	47 / 49	43.4 (50)	102	50 / 50	41.7 (50)	98	50 / 50	40.1 (49)	94	49 / 50
30	44.9 (47)	47 / 49	45.3 (50)	101	50 / 50	44.2 (50)	98	50 / 50	42.3 (49)	94	49 / 50
34	47.0 (47)	47 / 49	47.6 (50)	101	50 / 50	46.4 (50)	99	50 / 50	44.1 (49)	94	49 / 50
38	48.9 (47)	47 / 49	49.8 (50)	102	50 / 50	48.4 (50)	99	50 / 50	46.3 (49)	95	49 / 50
42	50.0 (47)	47 / 49	51.3 (50)	103	50 / 50	50.2 (50)	100	50 / 50	48.0 (49)	96	49 / 50
46	51.4 (47)	47 / 49	51.9 (50)	101	50 / 50	51.4 (50)	100	50 / 50	49.8 (49)	97	49 / 50
50	51.9 (46)	46 / 49	52.9 (50)	102	50 / 50	52.7 (49)	102	49 / 50	50.9 (49)	98	49 / 50
54	53.2 (46)	46 / 49	53.9 (49)	101	49 / 50	54.1 (49)	102	49 / 50	52.2 (49)	98	49 / 50
58	53.1 (44)	44 / 49	53.9 (49)	102	49 / 50	54.5 (47)	103	47 / 50	52.7 (48)	99	48 / 50
62	53.2 (44)	44 / 49	54.2 (49)	102	49 / 50	55.9 (46)	105	46 / 50	52.5 (48)	99	48 / 50
66	54.1 (43)	43 / 49	54.9 (47)	101	47 / 50	56.4 (45)	104	45 / 50	52.2 (47)	96	47 / 50
70	54.7 (42)	42 / 49	55.6 (45)	102	45 / 50	57.1 (45)	104	45 / 50	53.4 (46)	98	46 / 50
74	55.0 (41)	41 / 49	55.9 (43)	102	43 / 50	56.4 (44)	103	44 / 50	51.5 (45)	94	45 / 50
78	53.7 (40)	40 / 49	55.2 (43)	103	43 / 50	56.2 (42)	105	41 / 50	49.4 (41)	92	41 / 50
82	54.1 (37)	37 / 49	54.6 (42)	101	42 / 50	55.2 (40)	102	40 / 50	45.9 (37)	85	37 / 50
86	54.9 (36)	36 / 49	54.7 (41)	100	41 / 50	55.2 (38)	101	38 / 50	43.8 (33)	80	33 / 50
90	54.4 (36)	36 / 49	53.7 (41)	99	41 / 50	53.1 (34)	98	34 / 50	40.6 (28)	75	28 / 50
94	52.7 (33)	33 / 49	53.4 (40)	101	40 / 50	51.4 (30)	98	30 / 50	38.3 (25)	73	24 / 50
98	54.1 (29)	29 / 49	52.3 (39)	97	39 / 50	48.0 (30)	89	30 / 50	38.6 (22)	71	22 / 50
102	52.7 (28)	28 / 49	51.1 (36)	97	36 / 50	45.5 (27)	86	27 / 50	35.6 (18)	68	18 / 50
104	52.4 (27)	27 / 49	50.0 (35)	95	35 / 50	44.8 (26)	85	26 / 50	34.7 (18)	66	18 / 50

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

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Week on Study	Control		320ppm			800ppm			2000ppm		
	Av. Wt.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.	Av. Wt.	% of cont.	No. of Surviv.
0	19.0 (50)	50 / 50	19.0 (50)	100	50 / 50	19.0 (50)	100	50 / 50	19.0 (50)	100	50 / 50
1	19.7 (50)	50 / 50	19.5 (50)	99	50 / 50	19.5 (50)	99	50 / 50	19.3 (50)	98	50 / 50
2	19.9 (50)	50 / 50	19.7 (50)	99	50 / 50	19.7 (50)	99	50 / 50	19.8 (50)	99	50 / 50
3	20.8 (50)	50 / 50	20.4 (50)	98	50 / 50	20.6 (50)	99	50 / 50	20.6 (50)	99	50 / 50
4	21.6 (50)	50 / 50	21.3 (50)	99	50 / 50	21.3 (50)	99	50 / 50	21.6 (49)	100	49 / 50
5	21.6 (50)	50 / 50	21.7 (50)	100	50 / 50	21.6 (50)	100	50 / 50	21.9 (48)	101	48 / 50
6	22.0 (49)	49 / 50	21.8 (50)	99	50 / 50	21.9 (50)	100	50 / 50	22.2 (48)	101	48 / 50
7	22.2 (49)	49 / 50	22.3 (50)	100	50 / 50	22.6 (50)	102	50 / 50	22.4 (48)	101	48 / 50
8	22.8 (49)	49 / 50	22.5 (50)	99	50 / 50	22.6 (50)	99	50 / 50	23.0 (48)	101	48 / 50
9	23.2 (49)	49 / 50	23.3 (50)	100	50 / 50	23.3 (50)	100	50 / 50	23.8 (48)	103	48 / 50
10	23.0 (49)	49 / 50	22.7 (50)	99	50 / 50	22.9 (50)	100	50 / 50	23.4 (48)	102	48 / 50
11	23.8 (49)	49 / 50	23.8 (50)	100	50 / 50	24.0 (50)	101	50 / 50	24.2 (48)	102	48 / 50
12	24.3 (49)	49 / 50	23.9 (50)	98	50 / 50	23.6 (50)	97	50 / 50	24.4 (48)	100	48 / 50
13	24.5 (49)	49 / 50	24.2 (50)	99	50 / 50	24.2 (50)	99	50 / 50	24.8 (48)	101	48 / 50
14	24.7 (49)	49 / 50	24.5 (50)	99	50 / 50	24.5 (50)	99	50 / 50	25.2 (48)	102	48 / 50
18	27.6 (49)	49 / 50	27.5 (50)	100	50 / 50	27.7 (50)	100	50 / 50	27.5 (48)	100	48 / 50
22	28.1 (49)	49 / 50	27.8 (50)	99	50 / 50	27.6 (50)	98	50 / 50	27.9 (48)	99	48 / 50
26	30.2 (49)	49 / 50	29.8 (50)	99	50 / 50	29.7 (50)	98	50 / 50	29.6 (48)	98	48 / 50
30	31.6 (49)	49 / 50	30.7 (50)	97	50 / 50	30.7 (50)	97	50 / 50	31.0 (48)	98	48 / 50
34	33.6 (49)	49 / 50	32.3 (50)	96	50 / 50	32.3 (50)	96	50 / 50	32.4 (48)	96	48 / 50
38	34.2 (49)	49 / 50	33.6 (50)	98	50 / 50	33.5 (50)	98	50 / 50	33.4 (48)	98	48 / 50
42	35.3 (49)	49 / 50	34.8 (50)	99	50 / 50	33.5 (50)	95	50 / 50	34.1 (48)	97	48 / 50
46	36.4 (49)	49 / 50	35.9 (50)	99	50 / 50	34.7 (50)	95	50 / 50	35.5 (48)	98	48 / 50
50	37.3 (49)	49 / 50	36.7 (50)	98	50 / 50	35.9 (50)	96	50 / 50	36.0 (48)	97	48 / 50
54	38.3 (49)	49 / 50	37.6 (50)	98	50 / 50	36.9 (50)	96	50 / 50	36.5 (48)	95	48 / 50
58	39.1 (49)	49 / 50	38.5 (50)	98	50 / 50	37.7 (50)	96	50 / 50	37.2 (48)	95	48 / 50
62	39.8 (49)	49 / 50	38.5 (50)	97	50 / 50	38.5 (49)	97	49 / 50	37.6 (46)	94	46 / 50
66	39.8 (49)	49 / 50	38.8 (49)	97	49 / 50	38.6 (48)	97	48 / 50	37.5 (45)	94	45 / 50
70	40.1 (49)	49 / 50	39.4 (49)	98	49 / 50	39.8 (47)	99	47 / 50	38.2 (45)	95	44 / 50
74	40.4 (47)	47 / 50	38.3 (48)	95	48 / 50	39.4 (47)	98	47 / 50	38.1 (44)	94	43 / 50
78	40.5 (46)	46 / 50	38.8 (46)	96	46 / 50	39.4 (46)	97	46 / 50	38.3 (39)	95	39 / 50
82	40.5 (45)	45 / 50	39.8 (44)	98	44 / 50	39.6 (45)	98	45 / 50	37.2 (39)	92	39 / 50
86	40.8 (45)	45 / 50	39.0 (41)	96	41 / 50	39.7 (43)	97	43 / 50	36.5 (36)	89	36 / 50
90	39.6 (41)	41 / 50	37.9 (41)	96	40 / 50	40.3 (41)	102	40 / 50	34.5 (32)	87	32 / 50
94	39.9 (35)	35 / 50	37.6 (36)	94	36 / 50	39.2 (38)	98	38 / 50	33.7 (28)	84	28 / 50
98	39.3 (33)	33 / 50	38.4 (32)	98	33 / 50	38.1 (35)	97	36 / 50	32.5 (26)	83	27 / 50
102	37.7 (31)	31 / 50	37.5 (28)	99	29 / 50	37.8 (31)	100	32 / 50	31.2 (23)	83	24 / 50
104	37.3 (30)	30 / 50	37.2 (27)	100	28 / 50	36.4 (28)	98	29 / 50	31.0 (23)	83	24 / 50

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

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Week on Study	Control		320ppm			800ppm			2000ppm		
	Av. FC.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.
1	4.0 (49)	49 / 49	4.0 (50)	99	50 / 50	4.0 (50)	99	50 / 50	3.9 (49)	97	50 / 50
2	3.8 (49)	49 / 49	3.8 (50)	101	50 / 50	3.8 (50)	101	50 / 50	3.9 (49)	103	49 / 50
3	3.8 (49)	49 / 49	3.7 (50)	98	50 / 50	3.8 (50)	101	50 / 50	3.8 (49)	101	49 / 50
4	4.0 (48)	49 / 49	4.0 (50)	101	50 / 50	3.8 (50)	96	50 / 50	3.9 (49)	98	49 / 50
5	3.9 (48)	48 / 49	3.9 (50)	99	50 / 50	3.9 (50)	99	50 / 50	3.8 (49)	97	49 / 50
6	4.0 (48)	48 / 49	4.0 (50)	99	50 / 50	3.9 (50)	97	50 / 50	4.0 (49)	99	49 / 50
7	4.0 (48)	48 / 49	4.0 (50)	100	50 / 50	3.8 (50)	95	50 / 50	3.9 (49)	97	49 / 50
8	4.1 (48)	48 / 49	4.1 (50)	100	50 / 50	4.1 (50)	100	50 / 50	4.0 (49)	98	49 / 50
9	4.2 (48)	48 / 49	4.2 (49)	101	50 / 50	4.1 (50)	99	50 / 50	4.1 (49)	99	49 / 50
10	4.3 (48)	48 / 49	4.3 (50)	100	50 / 50	4.2 (50)	98	50 / 50	4.2 (49)	98	49 / 50
11	4.2 (48)	48 / 49	4.1 (49)	98	50 / 50	4.1 (50)	98	50 / 50	4.1 (49)	98	49 / 50
12	4.2 (48)	48 / 49	4.9 (50)	115	50 / 50	4.2 (50)	99	50 / 50	4.1 (49)	97	49 / 50
13	4.2 (48)	48 / 49	4.2 (50)	99	50 / 50	4.0 (49)	95	50 / 50	4.0 (49)	95	49 / 50
14	4.3 (48)	48 / 49	4.3 (50)	100	50 / 50	4.2 (50)	98	50 / 50	4.2 (49)	98	49 / 50
18	4.3 (48)	48 / 49	4.4 (50)	102	50 / 50	4.3 (50)	100	50 / 50	4.3 (49)	100	49 / 50
22	4.4 (48)	48 / 49	4.5 (50)	102	50 / 50	4.3 (50)	98	50 / 50	4.4 (49)	100	49 / 50
26	4.4 (47)	48 / 49	4.4 (50)	100	50 / 50	4.4 (50)	100	50 / 50	4.4 (49)	100	49 / 50
30	4.6 (47)	47 / 49	4.5 (50)	98	50 / 50	4.4 (50)	96	50 / 50	4.3 (49)	93	49 / 50
34	4.7 (47)	47 / 49	4.7 (50)	100	50 / 50	4.7 (50)	100	50 / 50	4.6 (49)	98	49 / 50
38	4.6 (47)	47 / 49	4.6 (50)	100	50 / 50	4.7 (50)	102	50 / 50	4.8 (49)	104	49 / 50
42	4.7 (47)	47 / 49	4.6 (50)	98	50 / 50	4.6 (50)	98	50 / 50	4.9 (49)	104	49 / 50
46	4.7 (38)	47 / 49	4.7 (50)	100	50 / 50	4.7 (50)	100	50 / 50	4.8 (49)	102	49 / 50
50	4.7 (45)	47 / 49	4.8 (50)	102	50 / 50	5.0 (49)	106	50 / 50	5.0 (49)	106	49 / 50
54	4.8 (46)	46 / 49	4.7 (49)	98	50 / 50	4.8 (49)	100	49 / 50	4.9 (49)	102	49 / 50
58	4.7 (44)	46 / 49	4.8 (49)	102	49 / 50	4.9 (47)	104	49 / 50	5.1 (48)	109	49 / 50
62	4.8 (44)	44 / 49	4.8 (49)	100	49 / 50	5.1 (46)	106	47 / 50	5.2 (48)	108	48 / 50
66	5.2 (43)	44 / 49	5.1 (47)	98	49 / 50	5.3 (45)	102	46 / 50	5.3 (47)	102	48 / 50
70	4.9 (42)	43 / 49	5.0 (45)	102	47 / 50	5.1 (44)	104	45 / 50	5.2 (43)	106	47 / 50
74	4.9 (41)	42 / 49	5.1 (42)	104	45 / 50	4.9 (42)	100	45 / 50	5.0 (44)	102	46 / 50
78	4.8 (40)	41 / 49	4.9 (41)	102	43 / 50	5.1 (42)	106	44 / 50	5.1 (39)	106	45 / 50
82	5.0 (37)	40 / 49	4.8 (41)	96	43 / 50	4.9 (40)	98	41 / 50	4.8 (37)	96	41 / 50
86	5.1 (36)	37 / 49	5.2 (41)	102	42 / 50	5.1 (38)	100	40 / 50	5.0 (32)	98	37 / 50
90	5.0 (34)	36 / 49	5.1 (41)	102	41 / 50	4.9 (32)	98	38 / 50	5.1 (25)	102	33 / 50
94	4.7 (33)	36 / 49	5.0 (39)	106	41 / 50	4.9 (29)	104	34 / 50	5.2 (23)	111	28 / 50
98	4.9 (29)	33 / 49	4.8 (38)	98	40 / 50	4.7 (30)	96	30 / 50	5.5 (22)	112	24 / 50
102	5.0 (27)	29 / 49	4.9 (35)	98	39 / 50	5.0 (26)	100	30 / 50	5.9 (18)	118	22 / 50
104	4.8 (27)	28 / 49	4.8 (33)	100	36 / 50	4.8 (23)	100	27 / 50	5.6 (15)	117	18 / 50

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

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Week on Study	Control		320ppm			800ppm			2000ppm		
	Av. FC.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.
1	3.8 (50)	50 / 50	3.7 (50)	97	50 / 50	3.7 (50)	97	50 / 50	3.6 (50)	95	50 / 50
2	3.5 (50)	50 / 50	3.4 (50)	97	50 / 50	3.4 (50)	97	50 / 50	3.6 (50)	103	50 / 50
3	3.7 (50)	50 / 50	3.5 (50)	95	50 / 50	3.6 (50)	97	50 / 50	3.6 (50)	97	50 / 50
4	3.6 (50)	50 / 50	3.6 (50)	100	50 / 50	3.6 (50)	100	50 / 50	3.7 (49)	103	50 / 50
5	3.6 (50)	50 / 50	3.6 (50)	100	50 / 50	3.6 (50)	100	50 / 50	3.8 (48)	106	49 / 50
6	3.8 (49)	50 / 50	3.8 (50)	100	50 / 50	3.8 (50)	100	50 / 50	4.0 (48)	105	48 / 50
7	3.8 (49)	49 / 50	3.9 (50)	103	50 / 50	3.9 (50)	103	50 / 50	3.9 (48)	103	48 / 50
8	3.9 (49)	49 / 50	3.9 (50)	100	50 / 50	3.9 (50)	100	50 / 50	4.0 (47)	103	48 / 50
9	4.0 (49)	49 / 50	4.0 (50)	100	50 / 50	4.0 (50)	100	50 / 50	4.2 (48)	105	48 / 50
10	3.9 (49)	49 / 50	4.0 (50)	103	50 / 50	4.0 (50)	103	50 / 50	4.1 (47)	105	48 / 50
11	4.0 (49)	49 / 50	4.0 (49)	100	50 / 50	4.0 (50)	100	50 / 50	4.1 (45)	103	48 / 50
12	4.0 (49)	49 / 50	4.1 (50)	103	50 / 50	4.0 (50)	100	50 / 50	4.3 (48)	108	48 / 50
13	4.1 (49)	49 / 50	4.0 (50)	98	50 / 50	4.0 (49)	98	50 / 50	4.2 (48)	102	48 / 50
14	4.1 (49)	49 / 50	4.0 (50)	98	50 / 50	4.0 (50)	98	50 / 50	4.1 (48)	100	48 / 50
18	4.2 (49)	49 / 50	4.1 (50)	98	50 / 50	4.3 (50)	102	50 / 50	4.3 (48)	102	48 / 50
22	4.3 (49)	49 / 50	4.2 (50)	98	50 / 50	4.3 (50)	100	50 / 50	4.4 (48)	102	48 / 50
26	4.3 (49)	49 / 50	4.3 (50)	100	50 / 50	4.4 (49)	102	50 / 50	4.5 (47)	105	48 / 50
30	4.4 (48)	49 / 50	4.1 (50)	93	50 / 50	4.4 (50)	100	50 / 50	4.4 (46)	100	48 / 50
34	4.7 (49)	49 / 50	4.4 (50)	94	50 / 50	4.5 (50)	96	50 / 50	4.6 (47)	98	48 / 50
38	4.6 (49)	49 / 50	4.6 (50)	100	50 / 50	4.8 (50)	104	50 / 50	4.7 (46)	102	48 / 50
42	4.7 (49)	49 / 50	4.6 (50)	98	50 / 50	4.7 (50)	100	50 / 50	4.9 (48)	104	48 / 50
46	5.0 (48)	49 / 50	4.9 (50)	98	50 / 50	5.0 (50)	100	50 / 50	5.0 (45)	100	48 / 50
50	4.7 (49)	49 / 50	4.4 (50)	94	50 / 50	5.0 (50)	106	50 / 50	4.8 (47)	102	48 / 50
54	4.7 (49)	49 / 50	4.6 (50)	98	50 / 50	4.9 (50)	104	50 / 50	5.0 (48)	106	48 / 50
58	4.6 (49)	49 / 50	4.6 (50)	100	50 / 50	4.7 (50)	102	50 / 50	4.9 (47)	107	48 / 50
62	5.0 (49)	49 / 50	4.6 (50)	92	50 / 50	4.9 (49)	98	50 / 50	5.0 (44)	100	48 / 50
66	5.0 (49)	49 / 50	4.8 (48)	96	50 / 50	5.0 (45)	100	49 / 50	5.1 (42)	102	46 / 50
70	5.0 (48)	49 / 50	5.0 (47)	100	49 / 50	5.1 (46)	102	48 / 50	5.0 (41)	100	45 / 50
74	5.0 (46)	49 / 50	4.5 (47)	90	49 / 50	4.7 (44)	94	47 / 50	4.9 (41)	98	44 / 50
78	5.1 (46)	47 / 50	4.9 (46)	96	48 / 50	4.9 (45)	96	47 / 50	5.2 (36)	102	43 / 50
82	4.9 (44)	46 / 50	4.5 (41)	92	46 / 50	5.0 (41)	102	46 / 50	4.8 (36)	98	39 / 50
86	5.0 (45)	45 / 50	4.7 (38)	94	44 / 50	5.0 (40)	100	45 / 50	5.0 (31)	100	39 / 50
90	4.7 (39)	45 / 50	4.6 (38)	98	41 / 50	5.1 (35)	109	43 / 50	5.0 (26)	106	36 / 50
94	5.0 (34)	41 / 50	4.6 (31)	92	40 / 50	4.9 (33)	98	40 / 50	5.2 (22)	104	32 / 50
98	5.0 (33)	35 / 50	4.9 (30)	98	36 / 50	5.0 (32)	100	38 / 50	5.4 (21)	108	28 / 50
102	4.9 (30)	33 / 50	4.8 (27)	98	33 / 50	5.2 (30)	106	36 / 50	5.7 (19)	116	27 / 50
104	4.9 (28)	31 / 50	5.1 (25)	104	29 / 50	5.0 (25)	102	32 / 50	5.8 (15)	118	24 / 50

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

TABLE 5 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION OF MALE MICE
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Time of mass occurrence (week)	0~13	14~26	27~39	40~50	53~65	66~78	79~91	92~104	0~104
External mass									
Control	0/49	0/48	0/47	1/47	3/46	5/43	4/39	1/34	8/49 (7/22)
320ppm	0/50	0/50	0/50	0/50	3/49	5/47	4/43	5/41	8/50 (2/15)
800ppm	0/50	0/50	0/50	0/50	1/49	2/45	0/40	2/32	5/50 (4/24)
2000ppm	0/50	0/49	0/49	0/49	1/49	1/47	1/40	1/26	3/50 (2/32)
Internal mass									
Control	0/49	1/48	2/47	3/47	2/46	3/43	6/39	8/34	11/49 (7/22)
320ppm	0/50	1/50	2/50	1/50	3/49	4/47	10/43	12/41	17/50 (10/15)
800ppm	0/50	0/50	0/50	2/50	1/49	5/45	9/40	10/32	19/50 (9/24)
2000ppm	0/50	0/49	0/49	1/49	1/49	9/47	24/40	18/26	33/50 (23/32)

No. of animals with mass / No. of surviving animals at first week in each period.
(No. of dead and moribund animals with mass / No. of dead and moribund animals)

TABLE 6 INCIDENCE OF EXTERNAL AND INTERNAL MASS IN CLINICAL OBSERVATION OF FEMALE MICE
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Time of mass occurrence (week)	0~13	14~26	27~39	40~52	53~65	66~78	79~91	92~104	0~104
External mass									
Control	0/50	0/49	0/49	0/49	0/49	2/49	4/46	5/38	7/50 (6/20)
320ppm	0/50	0/50	0/50	0/50	0/50	0/49	1/46	2/38	2/50 (1/22)
800ppm	0/50	0/50	0/50	1/50	1/50	1/48	1/46	1/39	1/50 (0/21)
2000ppm	0/50	0/48	0/48	0/48	2/48	1/45	0/39	0/29	2/50 (2/26)
Internal mass									
Control	0/50	0/49	0/49	0/49	1/49	2/49	2/46	6/38	8/50 (5/20)
320ppm	0/50	0/50	0/50	0/50	2/50	3/49	9/46	9/38	14/50 (8/22)
800ppm	0/50	0/50	0/50	0/50	0/50	1/48	6/46	4/39	8/50 (7/21)
2000ppm	0/50	0/48	0/48	1/48	4/48	6/45	8/39	14/29	24/50 (13/26)

No. of animals with mass / No. of surviving animals at first week in each period.
(No. of dead and moribund animals with mass / No. of dead and moribund animals)

TABLE 7 HEMATOLOGY OF MALE MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm
No. of examined animals	23	32	24	16
MCV (fL)	45.3 ± 4.2	46.2 ± 3.0	46.1 ± 1.5 *	46.8 ± 2.8 *
MCHC (g/dL)	30.6 ± 1.3	30.5 ± 0.9	30.3 ± 1.0	29.6 ± 1.2 *
WBC Differential				
EOSINO (%)	1 ± 1	1 ± 1	0 ± 0 *	0 ± 1

Mean ± S.D.

*) Significant difference, p<0.05 (Test of Dunnett)

**) Significant difference, p<0.01 (Test of Dunnett)

TABLE 8 HEMATOLOGY OF FEMALE MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm
No. of examined animals	23	26	27	22
Red blood cell ($10^6/\mu$)	9.12 ± 1.77	9.39 ± 1.86	9.39 ± 0.97	10.44 ± 1.03 **
Hemoglobin (g/dL)	13.1 ± 2.0	13.8 ± 2.3	13.6 ± 1.5	14.8 ± 1.3 **
Hematocrit (%)	42.8 ± 5.6	45.2 ± 6.6	44.1 ± 4.2	48.8 ± 4.3 **

Mean ± S.D.

*) Significant difference, p<0.05 (Test of Dunnett)

**) Significant difference, p<0.01 (Test of Dunnett)

TABLE 9 BIOCHEMISTRY OF MALE MICE THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm
No. of examined animals	24	32	24	16
Total protein (g/dL)	5.3 ± 0.5	5.2 ± 0.6	5.5 ± 0.7	5.8 ± 0.6 *
T-Bilirubin (mg/dL)	0.19 ± 0.30	0.14 ± 0.06	0.19 ± 0.18	0.30 ± 0.35 **
Glucose (mg/dL)	196 ± 34	200 ± 48	183 ± 58	152 ± 26 **
T-Cholesterol (mg/dL)	117 ± 34	153 ± 50	202 ± 78 **	219 ± 51 **
Triglyceride (mg/dL)	44 ± 22	52 ± 22	41 ± 21	25 ± 11 **
Phospholipid (mg/dL)	213 ± 54	270 ± 84	363 ± 139 **	380 ± 95 **
GOT (IU/L)	159 ± 201	197 ± 509	287 ± 349 **	990 ± 2046 **
GPT (IU/L)	112 ± 149	225 ± 490	353 ± 387 **	1241 ± 2112 **
LDH (IU/L)	1194 ± 3133	940 ± 2008	2214 ± 4539 *	9267 ± 19122 **
ALP (IU/L)	117 ± 27	253 ± 356	766 ± 900 **	891 ± 598 **
γ-GTP(IU/L)	3 ± 3	6 ± 10	7 ± 8	22 ± 14 **
CPK (IU/L)	57 ± 21	55 ± 36	81 ± 82	137 ± 84 **
Calcium(mg/dL)	9.0 ± 0.5	9.0 ± 0.6	9.2 ± 0.6	9.5 ± 0.3 **
Inorganic phosphorus (mg/dL)	6.5 ± 0.8	6.9 ± 1.0	7.1 ± 0.9	7.3 ± 0.9 *

Mean ± S.D.

*) Significant difference, p<0.05 (Test of Dunnett)

**) Significant difference, p<0.01 (Test of Dunnett)

TABLE 10 BIOCHEMISTRY OF FEMALE MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm	
No. of examined animals	23	26	27	22	
Total protein (g/dL)	4.9 ± 0.7	4.9 ± 0.6	5.0 ± 0.5	5.5 ± 0.8	**
Albumin (g/dL)	2.7 ± 0.3	2.7 ± 0.4	2.8 ± 0.3	3.0 ± 0.4	**
T-Bilirubin (mg/dL)	0.14 ± 0.04	0.21 ± 0.18	0.14 ± 0.05	0.23 ± 0.16	**
Glucose (mg/dL)	161 ± 52	145 ± 59	162 ± 30	140 ± 32	*
T-Cholesterol (mg/dL)	85 ± 72	88 ± 23	96 ± 24	194 ± 75	**
Phospholipid (mg/dL)	146 ± 77	157 ± 38	191 ± 42	365 ± 138	**
GOT (IU/L)	96 ± 55	1244 ± 5547	149 ± 83	347 ± 242	**
GPT (IU/L)	40 ± 21	595 ± 2558	116 ± 49	528 ± 439	**
LDH (IU/L)	366 ± 184	4245 ± 18679	515 ± 419	1796 ± 1592	**
ALP (IU/L)	152 ± 63	218 ± 171	305 ± 203	1164 ± 979	**
γ-GTP(IU/L)	3 ± 2	4 ± 5	4 ± 4	27 ± 15	**
CPK (IU/L)	118 ± 163	124 ± 179	77 ± 64	150 ± 114	**
Urea Nitrogen(mg/L)	18.2 ± 9.5	18.1 ± 7.2	16.0 ± 2.4	20.8 ± 4.2	**

Mean ± S.D.

*) Significant difference, p<0.05 (Test of Dunnett)

**) Significant difference, p<0.01 (Test of Dunnett)

TABLE 11 URINALYSIS OF MALE MICE IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Group		Control	320ppm	800ppm	2000ppm
Number of examined animals		27	35	26	18
pH	Grade				
	6.0	0	3	2	3 *
	6.5	9	8	5	1
	7.0	8	16	6	4
	7.5	5	7	8	5
	8.0	3	1	3	5
	8.5	2	0	2	0
protein	—	0	0	0 *	4 **
	±	4	9	14	8
	+	20	21	11	6
	2+	3	3	1	0
	3+	0	2	0	0

Significant difference : * : p<0.05 ** : p<0.01 Chi square test

TABLE 12 URINALYSIS OF FEMALE MICE IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Group		Control	320ppm	800ppm	2000ppm
Number of examined animals		30	28	29	23
protein	Grade				
	—	0	0	0	1 **
	±	5	6	11	15
	+	19	18	12	6
	2+	5	3	5	1
	3+	1	1	1	0

Significant difference : * : p<0.05 ** : p<0.01 Chi square test

TABLE 13 ORGAN WEIGHTS OF MALE MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm
No. of examined animals	27	35	26	18
Body weight (g)	48.8 ± 6.1	46.8 ± 8.4	41.4 ± 8.4 **	32.0 ± 3.0 **
Testes (g)	0.225 ± 0.039	0.215 ± 0.046	0.215 ± 0.038	0.205 ± 0.028
Testes (%)	0.470 ± 0.102	0.469 ± 0.116	0.533 ± 0.109	0.644 ± 0.075 **
Heart (g)	0.234 ± 0.035	0.234 ± 0.039	0.237 ± 0.037	0.219 ± 0.042
Heart (%)	0.485 ± 0.089	0.510 ± 0.095	0.591 ± 0.135 **	0.692 ± 0.170 **
Lungs (g)	0.238 ± 0.090	0.275 ± 0.186	0.251 ± 0.097	0.250 ± 0.085
Lungs (%)	0.490 ± 0.153	0.630 ± 0.605	0.633 ± 0.292 **	0.785 ± 0.257 **
Kidneys (g)	0.612 ± 0.049	0.667 ± 0.230	0.649 ± 0.076	0.675 ± 0.150
Kidneys (%)	1.274 ± 0.191	1.498 ± 0.837	1.602 ± 0.230 **	2.152 ± 0.667 **
Liver (g)	2.168 ± 1.533	2.420 ± 1.014	3.467 ± 1.436 **	5.722 ± 1.957 **
Liver (%)	4.713 ± 4.288	5.465 ± 3.197	8.976 ± 4.789 **	17.918 ± 5.911 **
Brain (g)	0.458 ± 0.015	0.454 ± 0.015	0.448 ± 0.013 *	0.443 ± 0.011 **
Brain (%)	0.954 ± 0.135	1.002 ± 0.196	1.121 ± 0.210 **	1.397 ± 0.134 **

Mean ± S.D.

*) Significant difference, $p < 0.05$ (Test of Dunnett)

**) Significant difference, $p < 0.01$ (Test of Dunnett)

TABLE 14 ORGAN WEIGHTS OF FEMALE MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group Name	Control	320 ppm	800 ppm	2000 ppm
No. of examined animals	30	27	28	23
Body weight (g)	34.5 ± 7.2	34.7 ± 5.6	33.8 ± 5.1	28.6 ± 2.9
Ovaries (g)	0.224 ± 0.577	0.085 ± 0.069	0.070 ± 0.041	0.053 ± 0.061 *
Ovaries (%)	0.625 ± 1.634	0.243 ± 0.191	0.211 ± 0.130	0.175 ± 0.169
Lungs (g)	0.221 ± 0.063	0.213 ± 0.029	0.221 ± 0.037	0.203 ± 0.025
Lungs (%)	0.669 ± 0.235	0.631 ± 0.149	0.673 ± 0.179	0.714 ± 0.098 *
Kidneys (g)	0.479 ± 0.169	0.484 ± 0.167	0.459 ± 0.057	0.488 ± 0.103
Kidneys (%)	1.433 ± 0.522	1.430 ± 0.533	1.377 ± 0.179	1.712 ± 0.352 **
Liver (g)	1.625 ± 0.820	1.511 ± 0.356	2.028 ± 0.518 **	4.251 ± 1.538 **
Liver (%)	4.801 ± 2.414	4.437 ± 1.130	6.152 ± 1.882 **	15.195 ± 6.151 **
Brain (g)	0.469 ± 0.017	0.469 ± 0.014	0.467 ± 0.017	0.451 ± 0.015 **
Brain (%)	1.441 ± 0.438	1.385 ± 0.226	1.413 ± 0.219	1.590 ± 0.151 **

Mean ± S.D.

*) Significant difference, $p < 0.05$ (Test of Dunnett)

**) Significant difference, $p < 0.01$ (Test of Dunnett)

TABLE 15 INCIDENCES OF SELECTED LESIONS OF MALE MICE
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Group		Control	320ppm	800ppm	2000ppm	Peto	Cochran-
Number of examined animals		49	50	50	50	test	Armitage
Organ	Grade of Nonneoplastic finding						test
Findings							
Nasal cavity							
Eosinophilic change:	1+	4	11	15 *	7		
olfactory epithelium	2+	0	1	1	0		
Bone marrow							
Erythropoiesis:increased	1+	6	6	11	16 **		
	2+	1	1	3	7		
Tooth							
Dysplasia	1+	14	17	20 *	23 **		
	2+	16	7	4	2		
	3+	3	7	2	2		
Liver							
Hepatocellular hypertrophy with atypia: central	1+	0	10 **	9 **	4 **		
	2+	0	28	28	32		
	3+	0	0	2	4		
Inflammatory cell nest	1+	17	20	14	5 *		
	2+	2	1	1	2		
Acidophilic cell focus	1+	0	2	6 *	8 **		
	2+	0	0	1	3		
Hepatocellular adenoma 1)		17	21	20	16		
Hepatocellular carcinoma 2)		15	15	23	31 **	**	**
Hepatoblastoma 3)		1	10 **	12 **	25 **	**	**
2)+3)		16	23	31 **	41 **	**	**
1)+2)+3)		26	34	41 **	45 **	**	**
Kidney							
Deposit of hemosiderin	1+	0	1	2	5 **		
	2+	1	3	3	13		
	3+	0	2	1	7		
Harderian gland							
Adenoma		2	8 *	0	4		
Grade	1+: Slight	2+: Moderate	3+: Marked	4+: Severe			
Significant difference	* : p<0.05	** : p<0.01	Chi square test for non-neoplastic lesion				
			Fisher's exact test for neoplastic lesion				
The combined incidences indicate the tumor of animals bearing tumors.							

TABLE 16 INCIDENCES OF SELECTED LESIONS OF FEMALE MICE
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Group		Control	320ppm	800ppm	2000ppm	Peto	Cochran-
Number of examined animals		50	50	50	50	test	Armitage
Organ	Grade of Nonneoplastic finding						test
Findings							
Nasal cavity							
Eosinophilic change:	1+	18	18	10 **	14 **		
respiratory epithelium	2+	13	15	32	25		
	3+	0	0	1	3		
Respiratory metaplasia:	1+	3	16 **	7	27 **		
olfactory epithelium	2+	0	0	0	2		
Respiratory metaplasia:	1+	8	17	28 **	24 **		
gland	2+	1	0	4	7		
Liver							
Hepatocellular hypertrophy	1+	0	10 **	16 **	14 **		
with atypia: central	2+	0	5	13	17		
	3+	0	0	0	4		
Acidophilic cell focus	1+	1	7	2	1		
	2+	0	0	1	2		
Hepatocellular adenoma 1)		5	5	17 **	16 **	**	**
Hepatocellular carcinoma 2)		1	3	15 **	31 **	**	**
Hepatoblastoma 3)		0	0	0	2		
2)+3)		1	3	15 **	33 **	**	**
1)+2)+3)		6	8	29 **	39 **	**	**
Kidney							
Deposit of hemosiderin	1+	1	0	0	0		
	2+	0	0	0	1		
	3+	0	0	0	1		
Adrenal							
Spindle-cell hyperplasia	1+	28	38 *	39 *	37 *		
	2+	22	10	11	11		
Brain							
Mineralization	1+	7	16	29 **	8		
All site							
Hemangioma		5	3	6	0 *		
Grade	1+: Slight	2+: Moderate	3+: Marked	4+: Severe			
Significant difference	* : p<0.05	** : p<0.01	Chi square test for non-neoplastic lesion				
			Fisher's exact test for neoplastic lesion				
The combined incidences indicate the tumor of animals bearing tumors.							

TABLE 17 CAUSE OF DEATH OF MICE IN THE 2-YEAR FEED STUDY
OF 1,4-DICHLORO-2-NITROBENZENE

Group	Male				Female			
	Control	320ppm	800ppm	2000ppm	Control	320ppm	800ppm	2000ppm
Number of dead or moribund animals	22	15	24	32	20	22	21	26
No microscopical confirmation	2	1	0	2	1	2	0	2
Cardiovascular lesion	0	0	0	1	0	2	0	0
Digestive system lesion	0	0	0	0	0	2	0	0
Hepatic lesion	0	0	0	0	0	1	0	0
Renal lesion	0	0	0	0	0	1	1	0
Reproductive system lesion	0	0	0	0	0	0	1	1
Peripheral nerves lesion	0	0	0	1	0	0	0	0
Urinary retention	1	2	0	0	0	0	0	0
Arteritis	1	0	0	0	0	0	1	1
tooth lesion	0	1	0	0	0	0	0	0
Hydronephrosis	1	1	2	0	0	1	0	0
Tumor death : leukemia	3	1	1	2	10	7	9	8
subcutis	3	0	3	1	2	0	0	1
lung	1	1	5	1	0	0	0	0
bone marrow	1	0	0	0	0	0	0	0
spleen	0	0	1	0	0	0	0	1
liver	7	8	11	23	0	3	4	6
ureter	1	0	0	0	0	0	0	0
uterus	—	—	—	—	3	3	5	4
vagina	—	—	—	—	1	0	0	0
brain	0	0	1	0	0	0	0	0
spinal cord	0	0	0	0	0	0	0	1
peripheral nerves	0	0	0	0	0	0	0	1
bone	1	0	0	0	1	0	0	0
peritoneum	0	0	0	0	1	0	0	0
retroperitoneum	0	0	0	1	1	0	0	0

TABLE 18 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS
IN JAPAN BIOASSAY RESEARCH CENTER : Crj:BDF₁ MALE MICE

Organs	No. of animals examined	No. of animals with bearing tumors	Incidence (%)	Min. - Max. (%)
Tumors				
Liver	<1047>			
Hepatocellular adenoma 1)		179	17.1	4 - 34
Hepatocellular carcinoma 2)		224	21.4	2 - 42
Hepatoblastoma 3)		5	0.5	0 - 6
2)+3)		225	21.5	2 - 46
1)+2)+3)		377	36.0	8 - 72
Harderian gland	<1047>			
Adenoma		45	4.3	0 - 10

21 carcinogenicity studies examined in Japan Bioassay Research Center were used.
Study No. 0044, 0060, 0062, 0064, 0066, 0068, 0096, 0105, 0116, 0140, 0159, 0163, 0190, 0206, 0211, 0225, 0243, 0270, 0285
0297, 0319

TABLE 19 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS
IN JAPAN BIOASSAY RESEARCH CENTER : Crj:BDF₁ FEMALE MICE

Organs	No. of animals examined	No. of animals with bearing tumors	Incidence (%)	Min. - Max. (%)
Tumors				
Liver	<1048>			
Hepatocellular adenoma 1)		54	5.2	2 - 10
Hepatocellular carcinoma 2)		26	2.5	0 - 8
Hepatoblastoma 3)		0	0.0	0 - 0
2)+3)		26	2.5	0 - 8
1)+2)+3)		78	7.4	4 - 14

21 carcinogenicity studies examined in Japan Bioassay Research Center were used.
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