

プロピオノニトリルのマウスを用いた
吸入によるがん原性試験報告書

試験番号：0515

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

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.0 \pm 0.0
12.5 ppm	12.5 \pm 0.2
25 ppm	25.1 \pm 0.2
50 ppm	49.9 \pm 1.1

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Week on Study	Control		12.5 ppm			25 ppm			50 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	23.2 (50)	50 / 50	23.2 (50)	100	50 / 50	23.2 (50)	100	50 / 50	23.2 (50)	100	50 / 50
1	24.8 (50)	50 / 50	24.6 (50)	99	50 / 50	24.8 (50)	100	50 / 50	24.6 (50)	99	50 / 50
2	25.8 (50)	50 / 50	25.5 (50)	99	50 / 50	25.9 (50)	100	50 / 50	25.7 (50)	100	50 / 50
3	26.6 (50)	50 / 50	26.3 (49)	99	49 / 50	26.7 (50)	100	50 / 50	26.5 (50)	100	50 / 50
4	27.4 (50)	50 / 50	27.2 (49)	99	49 / 50	27.1 (50)	99	50 / 50	26.8 (50)	98	50 / 50
5	28.0 (50)	50 / 50	27.6 (49)	99	49 / 50	27.8 (50)	99	50 / 50	27.5 (50)	98	50 / 50
6	28.5 (50)	50 / 50	27.8 (49)	98	49 / 50	28.3 (50)	99	50 / 50	27.7 (50)	97	50 / 50
7	28.9 (50)	50 / 50	28.3 (49)	98	49 / 50	28.6 (50)	99	50 / 50	28.0 (50)	97	50 / 50
8	29.5 (50)	50 / 50	28.9 (49)	98	49 / 50	29.4 (50)	100	50 / 50	28.6 (49)	97	49 / 50
9	30.1 (50)	50 / 50	29.7 (49)	99	49 / 50	30.1 (50)	100	50 / 50	29.5 (49)	98	49 / 50
10	30.8 (50)	50 / 50	30.3 (49)	98	49 / 50	30.7 (50)	100	50 / 50	30.0 (49)	97	49 / 50
11	31.2 (50)	50 / 50	30.5 (49)	98	49 / 50	31.1 (50)	100	50 / 50	29.9 (49)	96	49 / 50
12	32.0 (50)	50 / 50	31.5 (49)	98	49 / 50	31.8 (50)	99	50 / 50	30.9 (49)	97	49 / 50
13	32.5 (50)	50 / 50	32.1 (49)	99	49 / 50	32.3 (50)	99	50 / 50	31.4 (49)	97	49 / 50
17	34.7 (50)	50 / 50	34.4 (49)	99	49 / 50	34.8 (50)	100	50 / 50	33.7 (49)	97	49 / 50
21	36.6 (50)	50 / 50	36.2 (49)	99	49 / 50	36.5 (50)	100	50 / 50	36.1 (48)	99	48 / 50
25	38.5 (50)	50 / 50	38.0 (49)	99	49 / 50	38.3 (50)	99	50 / 50	37.6 (48)	98	48 / 50
29	40.0 (50)	50 / 50	40.0 (49)	100	49 / 50	39.9 (49)	100	49 / 50	39.1 (48)	98	48 / 50
33	41.5 (50)	50 / 50	41.0 (49)	99	49 / 50	41.3 (49)	100	49 / 50	40.6 (48)	98	48 / 50
37	42.8 (50)	50 / 50	42.2 (49)	99	49 / 50	42.7 (49)	100	49 / 50	41.8 (48)	98	48 / 50
41	43.4 (50)	50 / 50	43.4 (49)	100	49 / 50	44.1 (49)	102	49 / 50	43.2 (48)	100	48 / 50
45	44.2 (50)	50 / 50	44.5 (49)	101	49 / 50	45.1 (49)	102	49 / 50	44.0 (48)	100	48 / 50
49	45.4 (48)	48 / 50	45.5 (49)	100	49 / 50	46.0 (49)	101	49 / 50	45.4 (47)	100	47 / 50
53	45.8 (48)	48 / 50	46.3 (48)	101	48 / 50	46.8 (48)	102	48 / 50	45.7 (45)	100	45 / 50
57	46.4 (48)	48 / 50	46.7 (48)	101	48 / 50	46.9 (48)	101	48 / 50	45.8 (45)	99	45 / 50
58	46.6 (48)	48 / 50	46.8 (48)	100	48 / 50	47.0 (48)	101	48 / 50	45.9 (45)	98	45 / 50
62	47.0 (48)	48 / 50	47.4 (48)	101	48 / 50	48.0 (48)	102	48 / 50	46.5 (45)	99	45 / 50
66	47.6 (48)	48 / 50	48.3 (48)	101	48 / 50	48.4 (48)	102	48 / 50	47.2 (45)	99	45 / 50
70	48.0 (48)	48 / 50	48.8 (47)	102	47 / 50	48.3 (48)	101	48 / 50	47.5 (45)	99	45 / 50
74	48.8 (48)	48 / 50	49.9 (46)	102	46 / 50	48.7 (48)	100	48 / 50	48.2 (45)	99	45 / 50
78	49.6 (47)	47 / 50	50.6 (44)	102	44 / 50	49.7 (46)	100	46 / 50	49.2 (44)	99	44 / 50
82	49.6 (46)	46 / 50	50.6 (42)	102	42 / 50	50.1 (42)	101	42 / 50	49.1 (44)	99	44 / 50
86	49.6 (44)	44 / 50	50.7 (42)	102	42 / 50	50.1 (40)	101	40 / 50	49.0 (42)	99	42 / 50
90	49.5 (43)	43 / 50	51.5 (40)	104	40 / 50	49.9 (40)	101	40 / 50	48.3 (40)	98	40 / 50
94	50.0 (40)	40 / 50	51.4 (40)	103	40 / 50	49.6 (40)	99	40 / 50	48.1 (38)	96	38 / 50
98	48.9 (39)	39 / 50	49.8 (40)	102	40 / 50	49.7 (38)	102	38 / 50	48.4 (34)	99	34 / 50
102	47.7 (37)	37 / 50	50.4 (36)	106	36 / 50	49.0 (34)	103	34 / 50	48.2 (32)	101	32 / 50
104	47.3 (35)	35 / 50	49.9 (35)	105	35 / 50	48.6 (34)	103	34 / 50	48.0 (31)	101	31 / 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 MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Week on Study	Control		12.5 ppm			25 ppm			50 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	19.1 (50)	50 / 50	19.1 (50)	100	50 / 50	19.1 (50)	100	50 / 50	19.1 (50)	100	50 / 50
1	20.2 (50)	50 / 50	20.1 (50)	100	50 / 50	20.1 (50)	100	50 / 50	20.1 (50)	100	50 / 50
2	21.2 (50)	50 / 50	20.9 (50)	99	50 / 50	20.9 (50)	99	50 / 50	20.9 (50)	99	50 / 50
3	21.6 (50)	50 / 50	21.1 (50)	98	50 / 50	21.4 (50)	99	50 / 50	21.5 (50)	100	50 / 50
4	22.4 (50)	50 / 50	21.9 (50)	98	50 / 50	21.9 (50)	98	50 / 50	21.9 (50)	98	50 / 50
5	22.7 (50)	50 / 50	22.3 (50)	98	50 / 50	22.5 (50)	99	50 / 50	22.6 (50)	100	50 / 50
6	23.2 (50)	50 / 50	22.8 (50)	98	50 / 50	22.8 (50)	98	50 / 50	22.9 (50)	99	50 / 50
7	23.7 (50)	50 / 50	23.2 (50)	98	50 / 50	23.4 (50)	99	50 / 50	23.0 (50)	97	50 / 50
8	24.0 (50)	50 / 50	23.4 (50)	98	50 / 50	23.9 (50)	100	50 / 50	23.5 (50)	98	50 / 50
9	24.0 (50)	50 / 50	23.8 (50)	99	50 / 50	24.1 (50)	100	50 / 50	24.0 (50)	100	50 / 50
10	24.0 (50)	50 / 50	23.9 (50)	100	50 / 50	24.2 (50)	101	50 / 50	24.1 (50)	100	50 / 50
11	24.5 (50)	50 / 50	24.1 (50)	98	50 / 50	24.4 (50)	100	50 / 50	23.8 (50)	97	50 / 50
12	25.1 (50)	50 / 50	24.5 (50)	98	50 / 50	25.0 (50)	100	50 / 50	24.6 (50)	98	50 / 50
13	25.1 (50)	50 / 50	25.0 (50)	100	50 / 50	25.2 (50)	100	50 / 50	24.8 (50)	99	50 / 50
17	26.2 (50)	50 / 50	26.4 (50)	101	50 / 50	26.1 (50)	100	50 / 50	25.9 (50)	99	50 / 50
21	27.1 (50)	50 / 50	27.1 (50)	100	50 / 50	27.6 (50)	102	50 / 50	27.0 (50)	100	50 / 50
25	28.1 (50)	50 / 50	27.8 (50)	99	50 / 50	28.4 (50)	101	50 / 50	27.5 (50)	98	50 / 50
29	29.0 (50)	50 / 50	28.9 (50)	100	50 / 50	29.3 (50)	101	50 / 50	28.6 (50)	99	50 / 50
33	29.2 (50)	50 / 50	29.1 (50)	100	50 / 50	29.5 (50)	101	50 / 50	28.9 (50)	99	50 / 50
37	29.8 (50)	50 / 50	29.9 (50)	100	50 / 50	30.0 (50)	101	50 / 50	29.3 (50)	98	50 / 50
41	30.1 (49)	49 / 50	30.1 (50)	100	50 / 50	30.8 (50)	102	50 / 50	30.2 (50)	100	50 / 50
45	31.2 (49)	49 / 50	31.0 (50)	99	50 / 50	31.2 (50)	100	50 / 50	30.6 (50)	98	50 / 50
49	31.5 (49)	49 / 50	31.6 (50)	100	50 / 50	32.1 (50)	102	50 / 50	31.5 (50)	100	50 / 50
53	31.2 (49)	49 / 50	31.4 (50)	101	50 / 50	31.9 (50)	102	50 / 50	31.2 (50)	100	50 / 50
57	32.0 (49)	49 / 50	31.7 (49)	99	49 / 50	32.0 (50)	100	50 / 50	31.2 (50)	98	50 / 50
58	31.8 (49)	49 / 50	31.4 (49)	99	49 / 50	31.7 (50)	100	50 / 50	31.3 (50)	98	50 / 50
62	32.5 (49)	49 / 50	31.9 (49)	98	49 / 50	32.7 (48)	101	48 / 50	31.8 (50)	98	50 / 50
66	33.0 (47)	47 / 50	32.7 (48)	99	48 / 50	33.1 (47)	100	47 / 50	31.8 (50)	96	50 / 50
70	33.0 (47)	47 / 50	32.5 (47)	98	47 / 50	34.0 (47)	103	47 / 50	32.0 (50)	97	50 / 50
74	33.5 (46)	46 / 50	33.1 (46)	99	46 / 50	33.7 (45)	101	45 / 50	32.8 (49)	98	49 / 50
78	34.4 (45)	45 / 50	33.7 (42)	98	42 / 50	35.0 (45)	102	45 / 50	33.6 (47)	98	47 / 50
82	34.3 (45)	45 / 50	33.3 (40)	97	40 / 50	34.8 (42)	101	42 / 50	33.4 (45)	97	45 / 50
86	34.6 (44)	44 / 50	33.7 (39)	97	39 / 50	34.8 (38)	101	38 / 50	33.8 (44)	98	44 / 50
90	33.9 (41)	41 / 50	33.3 (37)	98	37 / 50	34.8 (36)	103	36 / 50	33.7 (41)	99	41 / 50
94	34.3 (38)	38 / 50	33.6 (35)	98	35 / 50	35.1 (36)	102	36 / 50	33.8 (38)	99	38 / 50
98	34.0 (32)	32 / 50	33.5 (31)	99	31 / 50	34.9 (32)	103	32 / 50	33.8 (34)	99	34 / 50
102	35.3 (29)	29 / 50	35.1 (29)	99	29 / 50	34.8 (28)	99	28 / 50	34.3 (29)	97	29 / 50
104	35.4 (28)	28 / 50	34.4 (28)	97	28 / 50	34.0 (26)	96	26 / 50	35.0 (26)	99	26 / 50

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

TABLE 4 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Week on Study	Control		12.5 ppm			25 ppm			50 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	4.1 (50)	50 / 50	4.1 (50)	100	50 / 50	4.2 (50)	102	50 / 50	4.2 (50)	102	50 / 50
2	4.1 (50)	50 / 50	4.0 (50)	98	50 / 50	4.2 (50)	102	50 / 50	4.1 (50)	100	50 / 50
3	4.1 (50)	50 / 50	4.1 (49)	100	49 / 50	4.3 (50)	105	50 / 50	4.1 (50)	100	50 / 50
4	4.2 (50)	50 / 50	4.3 (49)	102	49 / 50	4.2 (50)	100	50 / 50	4.2 (50)	100	50 / 50
5	4.2 (50)	50 / 50	4.2 (49)	100	49 / 50	4.2 (50)	100	50 / 50	4.2 (50)	100	50 / 50
6	4.3 (50)	50 / 50	4.3 (49)	100	49 / 50	4.3 (50)	100	50 / 50	4.2 (50)	98	50 / 50
7	4.3 (50)	50 / 50	4.4 (49)	102	49 / 50	4.3 (50)	100	50 / 50	4.3 (50)	100	50 / 50
8	4.4 (50)	50 / 50	4.5 (49)	102	49 / 50	4.4 (50)	100	50 / 50	4.4 (49)	100	49 / 50
9	4.4 (50)	50 / 50	4.5 (49)	102	49 / 50	4.4 (50)	100	50 / 50	4.5 (49)	102	49 / 50
10	4.4 (50)	50 / 50	4.6 (49)	105	49 / 50	4.5 (50)	102	50 / 50	4.4 (49)	100	49 / 50
11	4.5 (50)	50 / 50	4.5 (49)	100	49 / 50	4.5 (50)	100	50 / 50	4.5 (49)	100	49 / 50
12	4.5 (50)	50 / 50	4.6 (49)	102	49 / 50	4.5 (50)	100	50 / 50	4.5 (49)	100	49 / 50
13	4.5 (50)	50 / 50	4.5 (49)	100	49 / 50	4.5 (50)	100	50 / 50	4.5 (49)	100	49 / 50
17	4.5 (50)	50 / 50	4.6 (49)	102	49 / 50	4.5 (50)	100	50 / 50	4.5 (49)	100	49 / 50
21	4.5 (50)	50 / 50	4.6 (49)	102	49 / 50	4.5 (50)	100	50 / 50	4.6 (48)	102	48 / 50
25	4.5 (50)	50 / 50	4.6 (49)	102	49 / 50	4.6 (50)	102	50 / 50	4.6 (48)	102	48 / 50
29	4.6 (50)	50 / 50	4.8 (49)	104	49 / 50	4.7 (49)	102	49 / 50	4.7 (48)	102	48 / 50
33	4.7 (50)	50 / 50	4.8 (49)	102	49 / 50	4.8 (49)	102	49 / 50	4.8 (48)	102	48 / 50
37	4.7 (50)	50 / 50	4.9 (49)	104	49 / 50	4.8 (49)	102	49 / 50	4.9 (48)	104	48 / 50
41	4.7 (50)	50 / 50	4.8 (49)	102	49 / 50	4.8 (49)	102	49 / 50	4.8 (48)	102	48 / 50
45	4.7 (50)	50 / 50	4.8 (49)	102	49 / 50	4.8 (49)	102	49 / 50	4.8 (48)	102	48 / 50
49	4.8 (48)	48 / 50	4.9 (49)	102	49 / 50	4.8 (49)	100	49 / 50	4.8 (47)	100	47 / 50
53	4.8 (48)	48 / 50	4.9 (48)	102	48 / 50	4.9 (48)	102	48 / 50	4.8 (45)	100	45 / 50
57	4.8 (48)	48 / 50	4.9 (48)	102	48 / 50	4.9 (48)	102	48 / 50	4.9 (45)	102	45 / 50
58	4.9 (48)	48 / 50	4.9 (48)	100	48 / 50	4.9 (48)	100	48 / 50	4.9 (45)	100	45 / 50
62	5.0 (48)	48 / 50	5.0 (48)	100	48 / 50	5.0 (48)	100	48 / 50	4.9 (45)	98	45 / 50
66	5.0 (48)	48 / 50	5.0 (48)	100	48 / 50	5.0 (48)	100	48 / 50	5.0 (45)	100	45 / 50
70	5.1 (48)	48 / 50	5.1 (47)	100	47 / 50	5.1 (48)	100	48 / 50	5.1 (45)	100	45 / 50
74	5.2 (48)	48 / 50	5.2 (46)	100	46 / 50	5.3 (48)	102	48 / 50	5.2 (45)	100	45 / 50
78	5.1 (47)	47 / 50	5.1 (44)	100	44 / 50	5.1 (46)	100	46 / 50	5.1 (44)	100	44 / 50
82	5.2 (46)	46 / 50	5.2 (42)	100	42 / 50	5.2 (42)	100	42 / 50	5.2 (44)	100	44 / 50
86	5.1 (44)	44 / 50	5.1 (42)	100	42 / 50	5.3 (40)	104	40 / 50	5.2 (42)	102	42 / 50
90	5.1 (43)	43 / 50	5.4 (40)	106	40 / 50	5.3 (40)	104	40 / 50	5.2 (40)	102	40 / 50
94	5.0 (40)	40 / 50	5.1 (40)	102	40 / 50	5.2 (40)	104	40 / 50	5.2 (38)	104	38 / 50
98	4.9 (39)	39 / 50	4.9 (40)	100	40 / 50	5.1 (38)	104	38 / 50	5.1 (34)	104	34 / 50
102	5.0 (37)	37 / 50	5.2 (36)	104	36 / 50	5.1 (34)	102	34 / 50	5.1 (32)	102	32 / 50
104	4.9 (35)	35 / 50	5.2 (35)	106	35 / 50	5.1 (34)	104	34 / 50	5.2 (31)	106	31 / 50

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

TABLE 5 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Week on Study	Control		12.5 ppm			25 ppm			50 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	3.5 (50)	50 / 50	3.6 (50)	103	50 / 50	3.5 (50)	100	50 / 50	3.6 (50)	103	50 / 50
2	3.5 (50)	50 / 50	3.5 (50)	100	50 / 50	3.5 (50)	100	50 / 50	3.5 (50)	100	50 / 50
3	3.6 (50)	50 / 50	3.6 (50)	100	50 / 50	3.6 (50)	100	50 / 50	3.6 (50)	100	50 / 50
4	3.8 (50)	50 / 50	3.9 (50)	103	50 / 50	3.8 (50)	100	50 / 50	3.8 (50)	100	50 / 50
5	3.8 (50)	50 / 50	3.9 (50)	103	50 / 50	3.8 (50)	100	50 / 50	3.8 (50)	100	50 / 50
6	3.9 (50)	50 / 50	4.0 (50)	103	50 / 50	4.1 (50)	105	50 / 50	3.9 (50)	100	50 / 50
7	4.1 (50)	50 / 50	4.2 (50)	102	50 / 50	4.1 (50)	100	50 / 50	4.0 (50)	98	50 / 50
8	4.2 (50)	50 / 50	4.3 (50)	102	50 / 50	4.1 (50)	98	50 / 50	4.2 (50)	100	50 / 50
9	4.2 (50)	50 / 50	4.2 (50)	100	50 / 50	4.1 (50)	98	50 / 50	4.2 (50)	100	50 / 50
10	4.2 (49)	50 / 50	4.3 (50)	102	50 / 50	4.2 (50)	100	50 / 50	4.1 (50)	98	50 / 50
11	4.2 (49)	50 / 50	4.3 (50)	102	50 / 50	4.2 (50)	100	50 / 50	4.2 (50)	100	50 / 50
12	4.3 (50)	50 / 50	4.3 (50)	100	50 / 50	4.2 (44)	98	50 / 50	4.2 (50)	98	50 / 50
13	4.2 (50)	50 / 50	4.2 (50)	100	50 / 50	4.1 (50)	98	50 / 50	4.2 (50)	100	50 / 50
17	4.2 (50)	50 / 50	4.4 (50)	105	50 / 50	4.3 (50)	102	50 / 50	4.2 (50)	100	50 / 50
21	4.3 (50)	50 / 50	4.4 (50)	102	50 / 50	4.3 (50)	100	50 / 50	4.3 (50)	100	50 / 50
25	4.4 (50)	50 / 50	4.4 (49)	100	50 / 50	4.3 (50)	98	50 / 50	4.3 (50)	98	50 / 50
29	4.6 (50)	50 / 50	4.6 (50)	100	50 / 50	4.5 (50)	98	50 / 50	4.5 (50)	98	50 / 50
33	4.5 (50)	50 / 50	4.6 (50)	102	50 / 50	4.6 (50)	102	50 / 50	4.6 (50)	102	50 / 50
37	4.5 (50)	50 / 50	4.7 (50)	104	50 / 50	4.6 (50)	102	50 / 50	4.6 (50)	102	50 / 50
41	4.4 (49)	49 / 50	4.5 (50)	102	50 / 50	4.5 (50)	102	50 / 50	4.5 (50)	102	50 / 50
45	4.6 (49)	49 / 50	4.7 (50)	102	50 / 50	4.6 (50)	100	50 / 50	4.4 (50)	96	50 / 50
49	4.5 (49)	49 / 50	4.5 (50)	100	50 / 50	4.5 (50)	100	50 / 50	4.5 (50)	100	50 / 50
53	4.4 (49)	49 / 50	4.5 (50)	102	50 / 50	4.4 (50)	100	50 / 50	4.4 (50)	100	50 / 50
57	4.5 (49)	49 / 50	4.4 (49)	98	49 / 50	4.4 (50)	98	50 / 50	4.4 (50)	98	50 / 50
58	4.4 (49)	49 / 50	4.4 (49)	100	49 / 50	4.3 (50)	98	50 / 50	4.4 (50)	100	50 / 50
62	4.5 (49)	49 / 50	4.5 (49)	100	49 / 50	4.6 (48)	102	48 / 50	4.5 (50)	100	50 / 50
66	4.6 (47)	47 / 50	4.5 (48)	98	48 / 50	4.5 (47)	98	47 / 50	4.6 (50)	100	50 / 50
70	4.6 (47)	47 / 50	4.6 (47)	100	47 / 50	4.7 (47)	102	47 / 50	4.5 (50)	98	50 / 50
74	4.7 (46)	46 / 50	4.6 (46)	98	46 / 50	4.8 (45)	102	45 / 50	4.7 (49)	100	49 / 50
78	4.6 (45)	45 / 50	4.4 (42)	96	42 / 50	4.6 (45)	100	45 / 50	4.6 (47)	100	47 / 50
82	4.7 (45)	45 / 50	4.5 (40)	96	40 / 50	4.8 (42)	102	42 / 50	4.6 (45)	98	45 / 50
86	4.7 (44)	44 / 50	4.7 (39)	100	39 / 50	4.6 (38)	98	38 / 50	4.7 (44)	100	44 / 50
90	4.6 (41)	41 / 50	4.8 (37)	104	37 / 50	4.7 (36)	102	36 / 50	4.8 (41)	104	41 / 50
94	4.6 (38)	38 / 50	4.8 (35)	104	35 / 50	4.8 (36)	104	36 / 50	4.8 (38)	104	38 / 50
98	4.6 (32)	32 / 50	4.6 (31)	100	31 / 50	4.5 (32)	98	32 / 50	4.7 (34)	102	34 / 50
102	4.8 (29)	29 / 50	5.0 (29)	104	29 / 50	5.0 (28)	104	28 / 50	4.8 (29)	100	29 / 50
104	4.9 (28)	28 / 50	4.9 (28)	100	28 / 50	4.7 (26)	96	26 / 50	4.9 (26)	100	26 / 50

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

TABLE 6 HEMATOLOGY OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Group Name	Control	12.5 ppm	25 ppm	50 ppm
No. of examined animals	26	27	24	25
RETICULOCYTE (%)	4.6 ± 5.5	3.9 ± 3.6	2.5 ± 0.7	5.0 ± 6.6 **

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

TABLE 7 URINALYSIS OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Group Name		Control	12.5 ppm	25 ppm	50 ppm
No. of examined animals		28	29	26	27
pH	Grade				
	5.0	0	0	0	0
	6.0	1	2	1	2
	6.5	1	1	1	4
	7.0	2	6	1	2
	7.5	14	8	4	1
	8.0	8	10	19	16
	8.5	2	2	0	2
	Chi square test			*	**
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$					

TABLE 8 INCIDENCES OF SELECTED NEOPLASTIC LESIONS OF MALE MICE
IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Group Name	Control	12.5 ppm	25 ppm	50 ppm	Peto	Cochran-
Number of examined animals	50	50	50	50	test	Armitage
						test
liver	<50>	<50>	<50>	<50>		
hemangioma	1 (2 %)	0 (0 %)	2 (4 %)	3 (6 %)		
hemangiosarcoma	2 (4 %)	5 (10 %)	5 (10 %)	5 (10 %)		
hemangioma + hemangiosarcoma	3 (6 %)	5 (10 %)	7 (14 %)	8 (16 %)	↑	
Harderian gland adenoma	<50>	<50>	<50>	<50>		↑
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 9 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN JAPAN BIOASSAY RESEARCH CENTER : B6D2F1/Crlj MALE MICE

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Liver	1796			
Hemangioma 1)		57	3.2	0 - 14
Hemangiosarcoma 2)		73	4.1	0 - 14
1) + 2)		130	7.2	0 - 16
Harderian gland	1795			
Adenoma		88	4.9	0 - 10

36 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, 0268, 0270, 0279, 0285, 0297, 0319, 0329, 0343, 0348, 0366, 0372, 0402, 0406, 0418, 0422, 0438, 0449, 0458, 0462

TABLE 10 CAUSE OF DEATH OF MICE IN THE 2-YEAR INHALATION STUDY OF PROPIONONITRILE

Group name	Male				Female			
	Control	12.5 ppm	25 ppm	50 ppm	Control	12.5 ppm	25 ppm	50 ppm
Number of dead or moribund animals	15	15	16	19	22	22	24	24
no microscopical confirmation	0	0	0	0	0	0	0	1
integumentary system lesion	0	0	0	1	0	0	0	0
renal lesion	0	0	0	0	1	0	0	0
reproductive system lesion	0	0	0	0	0	1	0	0
central nervous system lesion	0	0	0	0	1	0	0	0
urinary retention	1	2	2	0	0	0	0	0
amyloidosis	0	0	0	0	0	0	1	0
arteritis	1	0	0	0	0	0	0	0
hydronephrosis	2	3	1	5	0	0	0	0
tumor death :								
leukemia	0	3	3	3	9	11	12	9
subcutis	0	2	1	1	0	0	0	2
lung	3	1	1	1	0	0	0	0
spleen	0	0	1	1	1	1	0	0
salivary gland	2	0	0	0	0	0	0	0
liver	4	4	5	3	3	1	2	2
urinary bladder	0	0	1	0	0	0	0	0
pituitary gland	0	0	0	0	2	2	0	2
thyroid	0	0	0	0	1	0	0	0
adrenal gland	1	0	0	0	0	0	0	0
epididymis	1	0	1	1	—	—	—	—
uterus	—	—	—	—	4	6	9	8
brain	0	0	0	1	0	0	0	0
peripheral nerves	0	0	0	2	0	0	0	0