

シクロヘキセンのマウスを用いた  
吸入によるがん原性試験報告書

試験番号：0406

# TABLES

## TABLES

- TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 3 INCIDENCES OF EXTERNAL AND INTERNAL MASSES IN CLINICAL OBSERVATION OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 4 INCIDENCES OF EXTERNAL AND INTERNAL MASSES IN CLINICAL OBSERVATION OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 5 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 6 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 7 HEMATOLOGY OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 8 BIOCHEMISTRY OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 9 ORGAN WEIGHTS OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE
- TABLE 10 ORGAN WEIGHTS OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

## TABLES(CONTINUED)

TABLE 11 INCIDENCES OF SELECTED LESIONS OF MALE MICE  
IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

TABLE 12 INCIDENCES OF SELECTED LESIONS OF FEMALE MICE  
IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

TABLE 13 CAUSE OF DEATH OF MALE AND FEMALE MICE IN THE 2-YEAR  
INHALATION STUDY OF CYCLOHEXENE

TABLE 14 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : Crj :BDF<sub>1</sub> MALE MICE

TABLE 15 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : Crj :BDF<sub>1</sub> FEMALE MICE

TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Weeks on Study	Control		75ppm			150ppm			300ppm		
	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.
	<50>		<50>			<50>			<50>		
0	22.9 (50)	50/50	22.9 (50)	100	50/50	22.9 (50)	100	50/50	22.9 (50)	100	50/50
1	24.0 (50)	50/50	24.0 (50)	100	50/50	24.2 (50)	101	50/50	23.6 (50)	98	50/50
2	24.9 (50)	50/50	24.8 (50)	100	50/50	24.9 (50)	100	50/50	24.6 (50)	99	50/50
3	25.6 (50)	50/50	25.4 (49)	99	49/50	25.5 (49)	100	49/50	24.9 (50)	97	50/50
4	26.0 (50)	50/50	25.6 (49)	98	49/50	26.0 (49)	100	49/50	25.4 (50)	98	50/50
5	26.4 (50)	50/50	25.8 (49)	98	49/50	26.4 (49)	100	49/50	25.6 (50)	97	50/50
6	27.1 (50)	50/50	26.3 (49)	97	49/50	27.1 (49)	100	49/50	26.2 (50)	97	50/50
7	27.6 (50)	50/50	26.6 (49)	96	49/50	27.4 (49)	99	49/50	26.6 (50)	96	50/50
8	28.2 (50)	50/50	27.4 (49)	97	49/50	28.1 (49)	100	49/50	27.3 (50)	97	50/50
9	28.6 (50)	50/50	27.8 (49)	97	49/50	28.7 (49)	100	49/50	27.5 (50)	96	50/50
10	29.1 (50)	50/50	28.2 (49)	97	49/50	29.3 (49)	101	49/50	28.2 (50)	97	50/50
11	29.7 (50)	50/50	28.8 (49)	97	49/50	30.0 (49)	101	49/50	28.4 (50)	96	50/50
12	30.7 (50)	50/50	29.7 (49)	97	49/50	31.3 (49)	102	49/50	29.3 (50)	95	50/50
13	31.4 (50)	50/50	30.4 (49)	97	49/50	31.6 (49)	101	49/50	29.7 (50)	95	50/50
14	32.0 (50)	50/50	31.0 (49)	97	49/50	32.2 (49)	101	49/50	30.2 (50)	94	50/50
18	34.6 (50)	50/50	34.0 (49)	98	49/50	35.3 (49)	102	49/50	33.2 (50)	96	50/50
22	36.8 (50)	50/50	35.9 (49)	98	49/50	37.5 (49)	102	49/50	35.3 (50)	96	50/50
26	38.8 (49)	49/50	38.4 (49)	99	49/50	39.3 (49)	101	49/50	37.4 (50)	96	50/50
30	40.7 (49)	49/50	40.5 (49)	100	49/50	40.9 (49)	100	49/50	39.1 (50)	96	50/50
34	42.1 (49)	49/50	41.5 (49)	99	49/50	42.3 (49)	100	49/50	40.4 (50)	96	50/50
38	43.1 (49)	49/50	42.9 (49)	100	49/50	43.2 (49)	100	49/50	41.1 (50)	95	50/50
42	44.0 (49)	49/50	44.0 (49)	100	49/50	44.5 (49)	101	49/50	42.3 (50)	96	50/50
46	45.0 (49)	49/50	45.1 (49)	100	49/50	45.1 (49)	100	49/50	43.1 (50)	96	50/50
50	46.0 (49)	49/50	45.9 (49)	100	49/50	46.0 (49)	100	49/50	44.4 (50)	97	50/50
54	46.8 (49)	49/50	46.7 (49)	100	49/50	47.3 (48)	101	48/50	45.1 (50)	96	50/50
58	47.4 (49)	49/50	47.2 (49)	100	49/50	47.9 (48)	101	48/50	45.8 (50)	97	50/50
62	48.1 (49)	49/50	48.0 (49)	100	49/50	48.4 (48)	101	48/50	46.1 (50)	96	50/50
66	49.3 (49)	49/50	49.6 (49)	101	49/50	49.0 (48)	99	48/50	47.6 (49)	97	49/50
70	50.2 (49)	49/50	50.3 (49)	100	49/50	50.1 (48)	100	48/50	48.4 (49)	96	49/50
74	50.5 (49)	49/50	50.8 (49)	101	49/50	50.8 (48)	101	48/50	49.5 (49)	98	49/50
78	50.0 (48)	48/50	51.0 (49)	102	49/50	50.9 (46)	102	46/50	49.2 (49)	98	49/50
82	49.8 (47)	47/50	51.0 (49)	102	49/50	51.0 (46)	102	46/50	49.6 (48)	100	48/50
86	49.5 (47)	47/50	51.8 (47)	105	47/50	51.8 (45)	105	45/50	50.7 (47)	102	47/50
90	49.4 (44)	44/50	51.0 (47)	103	47/50	51.7 (43)	105	43/50	51.1 (46)	103	46/50
94	49.1 (41)	41/50	49.7 (45)	101	45/50	50.8 (41)	103	41/50	50.8 (45)	103	45/50
98	48.8 (39)	39/50	49.3 (44)	101	44/50	49.9 (41)	102	41/50	50.7 (44)	104	44/50
102	48.0 (37)	37/50	49.0 (39)	102	39/50	48.3 (38)	101	38/50	49.6 (43)	103	43/50
104	47.4 (37)	37/50	48.2 (38)	102	38/50	48.5 (35)	102	35/50	48.9 (42)	103	42/50

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

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

Weeks on Study	Control		75ppm			150ppm			300ppm		
	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.
	<50>		<50>			<50>			<49>		
0	19.1 (50)	50/50	19.1 (50)	100	50/50	19.1 (50)	100	50/50	19.1 (49)	100	49/49
1	19.7 (50)	50/50	19.7 (50)	100	50/50	19.6 (50)	99	50/50	19.3 (49)	98	49/49
2	20.6 (50)	50/50	20.5 (50)	100	50/50	20.7 (50)	100	50/50	20.2 (49)	98	49/49
3	21.0 (50)	50/50	20.9 (50)	100	50/50	20.9 (50)	100	50/50	20.5 (49)	98	49/49
4	21.6 (50)	50/50	21.7 (50)	100	50/50	21.6 (50)	100	50/50	21.4 (49)	99	49/49
5	22.1 (50)	50/50	21.8 (50)	99	50/50	22.0 (50)	100	50/50	21.5 (49)	97	49/49
6	22.7 (50)	50/50	22.5 (50)	99	50/50	22.6 (50)	100	50/50	22.1 (49)	97	49/49
7	23.1 (50)	50/50	22.8 (50)	99	50/50	22.8 (50)	99	50/50	22.4 (49)	97	49/49
8	23.4 (50)	50/50	23.3 (50)	100	50/50	23.1 (50)	99	50/50	22.9 (49)	98	49/49
9	23.4 (50)	50/50	23.3 (50)	100	50/50	23.3 (50)	100	50/50	23.0 (49)	98	49/49
10	23.9 (50)	50/50	23.4 (50)	98	50/50	23.7 (50)	99	50/50	23.4 (49)	98	49/49
11	24.1 (50)	50/50	24.0 (50)	100	50/50	23.9 (50)	99	50/50	23.7 (49)	98	49/49
12	24.6 (50)	50/50	24.3 (50)	99	50/50	24.4 (50)	99	50/50	23.8 (49)	97	49/49
13	24.5 (50)	50/50	24.3 (50)	99	50/50	24.5 (50)	100	50/50	24.0 (49)	98	49/49
14	24.7 (50)	50/50	24.8 (50)	100	50/50	24.8 (50)	100	50/50	24.2 (49)	98	49/49
18	26.4 (50)	50/50	25.9 (50)	98	50/50	26.1 (50)	99	50/50	25.8 (49)	98	49/49
22	26.8 (50)	50/50	26.4 (50)	99	50/50	26.5 (50)	99	50/50	26.0 (49)	97	49/49
26	27.3 (50)	50/50	27.5 (50)	101	50/50	27.1 (50)	99	50/50	26.3 (49)	96	49/49
30	28.1 (50)	50/50	27.9 (50)	99	50/50	27.8 (50)	99	50/50	27.4 (48)	98	48/49
34	28.7 (50)	50/50	28.2 (50)	98	50/50	28.6 (50)	100	50/50	27.4 (48)	95	48/49
38	28.7 (50)	50/50	28.8 (50)	100	50/50	28.9 (50)	101	50/50	27.5 (48)	96	48/49
42	29.1 (50)	50/50	29.6 (50)	102	50/50	29.6 (50)	102	50/50	28.4 (48)	98	48/49
46	29.5 (50)	50/50	29.9 (50)	101	50/50	30.1 (49)	102	49/50	28.5 (48)	97	48/49
50	29.9 (50)	50/50	30.4 (50)	102	50/50	31.0 (49)	104	49/50	28.9 (48)	97	48/49
54	30.6 (50)	50/50	31.0 (50)	101	50/50	30.8 (48)	101	48/50	29.6 (48)	97	48/49
58	30.5 (50)	50/50	31.6 (50)	104	50/50	31.2 (47)	102	47/50	30.0 (48)	98	48/49
62	31.5 (49)	49/50	32.2 (49)	102	49/50	32.2 (46)	102	46/50	29.6 (46)	94	46/49
66	32.3 (48)	48/50	32.8 (49)	102	49/50	32.6 (46)	101	46/50	30.2 (46)	93	46/49
70	32.7 (48)	48/50	33.1 (47)	101	47/50	33.3 (46)	102	46/50	30.7 (45)	94	45/49
74	33.7 (46)	46/50	34.5 (45)	102	45/50	34.0 (45)	101	45/50	31.8 (45)	94	45/49
78	33.3 (44)	44/50	34.8 (44)	105	44/50	33.2 (44)	100	44/50	32.2 (44)	97	44/49
82	33.7 (43)	43/50	34.5 (42)	102	42/50	33.8 (42)	100	42/50	32.0 (43)	95	43/49
86	33.9 (43)	43/50	35.4 (40)	104	40/50	34.5 (38)	102	38/50	32.8 (39)	97	39/49
90	33.6 (42)	42/50	34.7 (37)	103	37/50	34.5 (36)	103	36/50	33.0 (37)	98	37/49
94	33.1 (39)	39/50	34.3 (35)	104	35/50	34.9 (34)	105	34/50	32.5 (35)	98	35/49
98	33.8 (38)	38/50	35.2 (31)	104	31/50	35.3 (30)	104	30/50	32.9 (32)	97	32/49
102	33.8 (32)	32/50	36.3 (28)	107	28/50	34.9 (25)	103	25/50	33.6 (32)	99	32/49
104	33.4 (27)	27/50	36.2 (25)	108	25/50	34.1 (24)	102	24/50	33.0 (29)	99	29/49

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

TABLE 3 INCIDENCES OF EXTERNAL AND INTERNAL MASSES IN CLINICAL OBSERVATION OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

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	0/50	0/49	0/49	0/49	0/49	2/48	3/43	5/50 (2/13)
75ppm	0/50	0/49	0/49	0/49	1/49	1/49	2/49	1/46	2/50 (1/12)
150ppm	0/50	0/49	0/49	0/49	0/48	0/48	1/46	2/43	2/50 (1/15)
300ppm	0/50	0/50	0/50	0/50	0/50	2/49	1/49	3/45	4/50 (1/8)
Internal mass									
Control	1/50	1/50	0/49	0/49	0/49	2/49	9/48	14/43	19/50 (7/13)
75ppm	0/50	0/49	0/49	0/49	0/49	1/49	6/49	17/46	18/50 (7/12)
150ppm	0/50	0/49	0/49	0/49	0/48	0/48	1/46	9/43	10/50 (5/15)
300ppm	0/50	0/50	1/50	1/50	1/50	3/49	5/49	12/45	14/50 (3/8)
No. of animals with mass / No. of survival animals at first week on each period. (No. of dead and moribund animals with mass / No. of dead and moribund animals)									

TABLE 4 INCIDENCES OF EXTERNAL AND INTERNAL MASSES IN CLINICAL OBSERVATION OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

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	0/50	0/50	0/50	0/50	0/48	1/43	5/40	5/50 (4/23)
75ppm	0/50	0/50	0/50	0/50	0/50	1/49	2/43	2/35	3/50 (2/25)
150ppm	0/50	0/50	0/50	0/50	0/48	1/46	2/43	2/35	5/50 (4/26)
300ppm	0/49	0/49	0/49	0/48	1/48	0/46	2/44	1/37	3/49 (2/20)
Internal mass									
Control	0/50	0/50	0/50	0/50	1/50	5/48	4/43	6/40	13/50 (12/23)
75ppm	0/50	0/50	0/50	1/50	1/50	5/49	4/43	8/35	17/50 (12/25)
150ppm	0/50	0/50	0/50	1/50	1/48	4/46	5/43	9/35	17/50 (10/26)
300ppm	1/49	1/49	1/49	2/48	5/48	7/46	8/44	11/37	18/49 (13/20)
No. of animals with mass / No. of survival animals at first week on each period. (No. of dead and moribund animals with mass / No. of dead and moribund animals)									

TABLE 5 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Weeks on Study	Control		75ppm		150ppm		300ppm	
	Av.Fc.		Av.Fc.	% of cont.	Av.Fc.	% of cont.	Av.Fc.	% of cont.
	<50>		<50>		<50>		<50>	
1	4.2	(50)	4.2	(50) 100	4.2	(50) 100	4.1	(50) 98
2	4.1	(50)	4.1	(50) 100	3.9	(50) 95	4.0	(50) 98
3	4.0	(50)	4.0	(49) 100	4.0	(49) 100	4.0	(50) 100
4	4.0	(50)	4.1	(49) 103	4.1	(49) 103	4.1	(50) 103
5	4.1	(50)	4.1	(49) 100	4.2	(49) 102	4.1	(50) 100
6	4.2	(50)	4.3	(49) 102	4.3	(49) 102	4.3	(50) 102
7	4.3	(50)	4.4	(49) 102	4.4	(49) 102	4.3	(50) 100
8	4.4	(50)	4.5	(49) 102	4.4	(49) 100	4.4	(50) 100
9	4.5	(50)	4.6	(49) 102	4.6	(49) 102	4.6	(50) 102
10	4.5	(50)	4.5	(49) 100	4.6	(49) 102	4.7	(50) 104
11	4.6	(50)	4.6	(49) 100	4.6	(49) 100	4.5	(50) 98
12	4.6	(50)	4.6	(49) 100	4.6	(49) 100	4.6	(50) 100
13	4.6	(50)	4.6	(49) 100	4.5	(49) 98	4.6	(50) 100
14	4.6	(50)	4.7	(49) 102	4.6	(49) 100	4.6	(50) 100
18	4.8	(50)	4.6	(49) 96	4.7	(49) 98	4.8	(50) 100
22	4.7	(50)	4.7	(49) 100	4.8	(49) 102	4.8	(50) 102
26	4.6	(49)	4.7	(49) 102	4.6	(49) 100	4.7	(50) 102
30	4.7	(49)	4.8	(49) 102	4.6	(49) 98	4.7	(50) 100
34	4.8	(49)	4.9	(49) 102	4.8	(49) 100	4.8	(50) 100
38	4.8	(49)	4.9	(49) 102	4.8	(49) 100	4.7	(50) 98
42	4.8	(49)	4.9	(49) 102	4.8	(49) 100	4.8	(50) 100
46	4.9	(49)	5.0	(49) 102	4.8	(49) 98	4.9	(50) 100
50	4.9	(49)	4.9	(49) 100	4.7	(49) 96	4.8	(50) 98
54	4.9	(49)	4.9	(49) 100	4.9	(48) 100	4.8	(50) 98
58	5.1	(49)	5.1	(49) 100	5.1	(48) 100	5.0	(50) 98
62	5.1	(49)	5.1	(49) 100	5.1	(48) 100	5.0	(50) 98
66	5.1	(49)	5.2	(49) 102	5.1	(48) 100	5.0	(49) 98
70	5.1	(49)	5.1	(49) 100	5.1	(48) 100	5.1	(49) 100
74	5.3	(49)	5.3	(49) 100	5.2	(48) 98	5.3	(49) 100
78	5.2	(48)	5.2	(49) 100	5.2	(46) 100	5.1	(49) 98
82	5.2	(47)	5.2	(49) 100	5.1	(46) 98	5.2	(48) 100
86	5.2	(47)	5.3	(47) 102	5.1	(45) 98	5.1	(47) 98
90	5.1	(44)	5.2	(47) 102	5.1	(43) 100	5.2	(46) 102
94	5.0	(41)	4.9	(45) 98	5.0	(41) 100	5.1	(45) 102
98	5.1	(39)	5.0	(44) 98	5.0	(41) 98	5.1	(44) 100
102	5.1	(37)	4.9	(39) 96	5.0	(38) 98	5.0	(43) 98
104	4.9	(37)	5.0	(38) 102	4.9	(35) 100	4.9	(42) 100

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

TABLE 6 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Weeks on Study	Control		75ppm		150ppm		300ppm	
	Av.Fc.		Av.Fc.	% of cont.	Av.Fc.	% of cont.	Av.Fc.	% of cont.
	<50>		<50>		<50>		<49>	
1	3.6	(50)	3.6	(50) 100	3.5	(50) 97	3.4	(49) 94
2	3.5	(50)	3.5	(50) 100	3.5	(50) 100	3.5	(49) 100
3	3.6	(50)	3.6	(50) 100	3.6	(50) 100	3.5	(49) 97
4	3.8	(50)	3.8	(50) 100	3.8	(50) 100	3.8	(49) 100
5	4.0	(50)	3.9	(50) 98	4.0	(50) 100	3.8	(49) 95
6	4.1	(50)	4.1	(50) 100	4.1	(50) 100	4.0	(49) 98
7	4.2	(50)	4.2	(50) 100	4.3	(50) 102	4.2	(49) 100
8	4.3	(50)	4.3	(50) 100	4.3	(50) 100	4.4	(49) 102
9	4.5	(50)	4.5	(50) 100	4.5	(50) 100	4.5	(49) 100
10	4.4	(50)	4.4	(50) 100	4.4	(50) 100	4.5	(49) 102
11	4.4	(50)	4.4	(50) 100	4.4	(50) 100	4.4	(49) 100
12	4.2	(50)	4.2	(50) 100	4.2	(50) 100	4.2	(49) 100
13	4.3	(50)	4.3	(50) 100	4.3	(50) 100	4.3	(49) 100
14	4.4	(50)	4.4	(50) 100	4.4	(50) 100	4.4	(49) 100
18	4.4	(50)	4.4	(50) 100	4.4	(50) 100	4.5	(49) 102
22	4.4	(50)	4.3	(50) 98	4.3	(48) 98	4.4	(49) 100
26	4.2	(50)	4.3	(50) 102	4.2	(50) 100	4.3	(49) 102
30	4.4	(50)	4.4	(50) 100	4.3	(50) 98	4.4	(47) 100
34	4.5	(50)	4.5	(50) 100	4.4	(50) 98	4.5	(48) 100
38	4.4	(50)	4.5	(50) 102	4.4	(50) 100	4.4	(48) 100
42	4.4	(50)	4.5	(50) 102	4.4	(50) 100	4.4	(48) 100
46	4.5	(50)	4.5	(50) 100	4.5	(49) 100	4.5	(48) 100
50	4.4	(49)	4.4	(50) 100	4.4	(49) 100	4.3	(48) 98
54	4.5	(50)	4.5	(50) 100	4.3	(48) 96	4.4	(48) 98
58	4.5	(50)	4.5	(50) 100	4.6	(47) 102	4.5	(48) 100
62	4.6	(49)	4.6	(49) 100	4.5	(46) 98	4.4	(46) 96
66	4.7	(48)	4.6	(49) 98	4.6	(46) 98	4.6	(46) 98
70	4.6	(48)	4.6	(47) 100	4.6	(46) 100	4.4	(45) 96
74	4.8	(46)	5.0	(45) 104	4.8	(45) 100	4.8	(45) 100
78	4.7	(44)	4.7	(44) 100	4.5	(44) 96	4.7	(44) 100
82	4.7	(43)	4.8	(42) 102	4.7	(42) 100	4.6	(43) 98
86	4.9	(43)	4.8	(40) 98	4.5	(38) 92	4.6	(39) 94
90	4.6	(42)	4.6	(37) 100	4.6	(36) 100	4.7	(37) 102
94	4.4	(39)	4.6	(35) 105	4.6	(34) 105	4.7	(35) 107
98	4.7	(38)	4.7	(31) 100	4.7	(30) 100	4.6	(32) 98
102	4.7	(32)	5.0	(28) 106	4.7	(25) 100	4.9	(32) 104
104	4.6	(27)	4.8	(25) 104	4.6	(24) 100	4.6	(29) 100

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



TABLE 7 HEMATOLOGY OF FEMALE MICE IN THE 2-YEAR  
INHALATION STUDY OF CYCLOHEXENE

Group Name	Control	75 ppm	150 ppm	300 ppm
No. of examined animals	27	23	20	27
Platelet ( $10^3/\mu\text{L}$ )	1241 $\pm$ 299	1068 $\pm$ 385	1053 $\pm$ 480	950 $\pm$ 332 *
Mean $\pm$ S.D.				
Significant difference: * : p<0.05 ** : p<0.01 Test of Dunnett				

TABLE 8 BIOCHEMISTRY OF MALE MICE IN THE 2-YEAR  
INHALATION STUDY OF CYCLOHEXENE

Group Name	Control	75 ppm	150 ppm	300 ppm
No. of examined animals	36	38	34	41
Total protein (g/dL)	5.3 $\pm$ 0.8	5.1 $\pm$ 0.6	5.2 $\pm$ 0.6	4.8 $\pm$ 0.5 **
Calcium (mg/dL)	9.3 $\pm$ 0.6	9.0 $\pm$ 0.5	9.1 $\pm$ 0.5	8.9 $\pm$ 0.3 **
Mean $\pm$ S.D.				
Significant difference: * : p<0.05 ** : p<0.01 Test of Dunnett				

TABLE 9 ORGAN WEIGHTS OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Group Name	Control	75 ppm	150 ppm	300 ppm
No. of examined animals	37	38	35	42
Body weight (g)	43.1 ± 8.6	44.1 ± 8.1	44.1 ± 8.0	45.0 ± 6.9
Kidneys (g)	0.659 ± 0.089	0.617 ± 0.046 *	0.641 ± 0.067	0.743 ± 0.320
Kidneys (%)	1.579 ± 0.348	1.444 ± 0.292	1.505 ± 0.373	1.752 ± 1.152

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

TABLE 10 ORGAN WEIGHTS OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Group Name	Control	75 ppm	150 ppm	300 ppm
No. of examined animals	27	25	24	29
Body weight (g)	29.2 ± 3.6	32.1 ± 6.4	30.7 ± 4.2	29.0 ± 2.1
Adrenal (g)	0.015 ± 0.003	0.014 ± 0.003	0.013 ± 0.003	0.014 ± 0.003
Adrenal (%)	0.051 ± 0.013	0.045 ± 0.012	0.042 ± 0.012 *	0.049 ± 0.010
Kidneys (g)	0.448 ± 0.059	0.614 ± 0.355 **	0.462 ± 0.068	0.485 ± 0.279
Kidneys (%)	1.542 ± 0.200	1.997 ± 1.347	1.521 ± 0.251	1.688 ± 1.020
Liver (g)	1.453 ± 0.227	2.464 ± 2.253 **	1.934 ± 1.248	1.502 ± 0.361
Liver (%)	4.975 ± 0.536	7.420 ± 5.535	6.188 ± 3.255	5.206 ± 1.368

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

TABLE 11 INCIDENCES OF SELECTED LESIONS OF MALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Group	Control	75 ppm	150 ppm	300 ppm	Peto	Cochran-
Number of examined animals	50	50	50	50	test	Armitage
Organ						test
<b>Findings</b>						
<b>Liver</b>						
Hepatocellular adenoma 1)	8	6	9	5		
Hepatocellular carcinoma 2)	12	7	5	3	*	↓
1)+2)	20	13	12	8	**	↓
Significant difference	* : p<0.05	** : p<0.01	Fisher's exact test for neoplastic lesion			
	↑(↓) : p<0.05		↑↑(↓↓) : p<0.01		Peto or Cochran-Armitage test for neoplastic lesion	
The combined incidences indicate the tumor-bearing animals but not the tumors.						

TABLE 12 INCIDENCES OF SELECTED LESIONS OF FEMALE MICE IN THE 2-YEAR INHALATION STUDY OF CYCLOHEXENE

Group	Control	75 ppm	150 ppm	300 ppm	Peto	Cochran-
Number of examined animals	50	50	50	49	test	Armitage
Organ						test
<b>Findings</b>						
<b>Lymph node</b>						
Malignant lymphoma	18	23	19	10		↓
<b>Mammary gland</b>						
Adenocarcinoma	3	0	0	0		↓
Significant difference	* : p<0.05	** : p<0.01	Fisher's exact test for neoplastic lesion			
	↑(↓) : p<0.05		↑↑(↓↓) : p<0.01		Peto or Cochran-Armitage test for neoplastic lesion	



TABLE 14 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : Crj:BDF<sub>1</sub> MALE MICE

Organs	No. of animals examined	No. of animals bearing tumors	Incidence (%)	Min. - Max. (%)
Tumors				
Liver	<1346>			
Hepatocellular adenoma 1)		241	17.9	4 - 34
Hepatocellular carcinoma 2)		273	20.3	2 - 42
1)+2)		470	34.9	8 - 68

27 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

TABLE 15 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : Crj:BDF<sub>1</sub> FEMALE MICE

Organs	No. of animals examined	No. of animals bearing tumors	Incidence (%)	Min. - Max. (%)
Tumors				
Lymph node	<1348>			
Malignant lymphoma		368	28.6	12 - 44
Mammary gland	<1348>			
Adenocarcinoma		24	1.8	0 - 8

27 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