

ジクロロメタンのマウスを用いた  
吸入による 13 週間毒性試験報告書

試験番号 : 0258

# TABLES

## TABLES

- TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE
- TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE
- TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE
- TABLE 4 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE
- TABLE 5 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANETHANE

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS  
IN THE 13-WEEK INHALATION STUDIES OF DICHLOROMETHANE

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<Method of Administration>	Inhalation
<Number of Groups>	Male 6, Female 6
<Size of Groups>	10 males and 10 females of each group
<Animals>	Strain and Species Crj:BDF <sub>1</sub> mouse
	Animal Source Charles River Japan, Inc.
	Duration Held Before Study 2 wk
	Age When Placed on Study 6 wk
	Age When Killed 19 wk
<Doses>	Male and Female 0, 500, 1000, 2000, 4000 or 8000ppm
<Duration of Dosing>	5 d/wk for 13 wk
<Animal Maintenance>	Feed CRF-1 (Oriental Yeast Co., Ltd.) Sterilized by $\gamma$ -ray Available <i>ad libitum</i>
	Water Filtrated and sterilized by ultraviolet ray Automatic watering system Available <i>ad libitum</i>
	Animal per Cage Single (stainless steel wire)
	Animal Room Environment Barrier system Temperature : 21±2°C Humidity : 60±10% Fluorescent light 12 h/d 15~17 room air changes /h
	Chamber Environment Barrier system Temperature : 20~24°C Humidity : 30~70% 12±1 chamber air changes /h
<Type and Frequency of Observation>	Clinical Sign Observed 2 per d
	Body Weight Weighed 1 per wk
	Food Consumption Weighed 1 per wk

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TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS  
(Continued) IN THE 13-WEEK INHALATION STUDIES OF DICHLOROMETHANE

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<Hematology>

Hematological examination performed on scheduled sacrificed animals.

The following measurement parameters were examined;

Red blood cell (RBC), Hemoglobin, Hematocrit,  
Mean Corpuscular Volume (MCV),  
Mean Corpuscular hemoglobin (MCH),  
Mean Corpuscular hemoglobin concentrate (MCHC),  
Platelet, White blood cell (WBC),  
Differential WBC.

<Biochemistry>

Biochemical examination performed on scheduled sacrificed animals.

The following measurement parameters were examined;

Total protein, Albumin, A/G/ ratio,  
Total bilirubin, Glucose, Total cholesterol,  
Triglyceride,  
Glutamic oxaloacetic transaminase (GOT),  
Glutamic pyruvic transaminase (GPT),  
Alkaline phosphatase (ALP),  
Lactate dehydrogenase (LDH),  
Creatine phosphokinase (CPK),  
Urea nitrogen, Sodium,  
Potassium, Chloride,  
Calcium, Inorganic phosphorus.

<Urinalysis>

Urinalysis performed on all animals that survived to end of dosing period using fresh urine collection.

The following measurement parameters were examined;

pH, Protein, Glucose, Ketone body,  
Occult blood, Urobilinogen.

<Necropsy>

Necropsy performed on all animals.

<Organ Weight>

Organ weight measurement performed on scheduled sacrificed animals.

The following organs were weighed;

brain, lung, liver, spleen, heart, kidney, adrenal,  
testis, ovary, thymus.

<Histopathologic Examination>

Histopathologic examination performed on at least two animals per sex per groups.

The following organs were examined;

skin, nasal cavity, nasopharynx, larynx, trachea, lung,  
bone marrow, lymph node, thymus, spleen, heart, tongue,  
salivary gland, esophagus, stomach, small intestine,  
large intestine, liver, gall bladder, pancreas,  
kidney, urinary bladder, pituitary, thyroid,  
parathyroid, prostate, ovary, uterus, vagina,  
mammary gland, brain, spinal cord, peripheral nerve,  
eye, harderian gland, muscle, bone.

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TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		500 ppm			1000 ppm			2000 ppm			4000 ppm			8000 ppm		
	Au.Wt.	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0-0	22.2 (10)	10/10	22.1 (10)	100	10/10	22.4 (10)	101	10/10	22.3 (10)	100	10/10	22.4 (10)	101	10/10	22.0 (10)	99	10/10
1-7	24.0 (10)	10/10	23.8 (10)	99	10/10	23.7 (10)	99	10/10	24.2 (10)	101	10/10	24.3 (10)	101	10/10	22.5 (10)	94	10/10
2-7	25.0 (10)	10/10	24.8 (10)	99	10/10	24.6 (10)	98	10/10	25.1 (10)	100	10/10	25.4 (10)	102	10/10	24.1 (10)	96	10/10
3-7	26.2 (10)	10/10	25.8 (10)	98	10/10	25.4 (10)	97	10/10	26.0 (10)	99	10/10	26.1 (10)	100	10/10	25.3 (10)	97	10/10
4-7	26.9 (10)	10/10	26.5 (10)	99	10/10	26.1 (10)	97	10/10	26.7 (10)	99	10/10	27.0 (10)	100	10/10	26.2 (10)	97	10/10
5-7	27.5 (10)	10/10	27.0 (10)	98	10/10	26.6 (10)	97	10/10	27.2 (10)	99	10/10	27.7 (10)	101	10/10	26.9 (10)	98	10/10
6-7	28.5 (10)	10/10	27.5 (10)	96	10/10	27.4 (10)	96	10/10	27.5 (10)	96	10/10	28.4 (10)	100	10/10	27.4 (10)	96	10/10
7-7	29.1 (10)	10/10	28.3 (10)	97	10/10	27.7 (10)	95	10/10	27.4 (10)	94	10/10	28.8 (10)	99	10/10	27.9 (10)	96	10/10
8-7	29.8 (10)	10/10	29.0 (10)	97	10/10	28.2 (10)	95	10/10	28.3 (10)	95	10/10	29.8 (10)	100	10/10	28.9 (10)	97	10/10
9-7	30.7 (10)	10/10	29.4 (10)	96	10/10	28.9 (10)	94	10/10	28.6 (10)	93	10/10	29.9 (10)	97	10/10	29.5 (10)	96	10/10
10-7	31.5 (10)	10/10	30.1 (10)	96	10/10	30.0 (10)	95	10/10	29.0 (10)	92	10/10	30.7 (10)	97	10/10	30.0 (10)	95	10/10
11-7	32.0 (10)	10/10	30.4 (10)	95	10/10	30.4 (10)	95	10/10	30.1 (10)	94	10/10	31.0 (10)	97	10/10	30.4 (10)	95	10/10
12-7	32.7 (10)	10/10	31.0 (10)	95	10/10	30.8 (10)	94	10/10	30.5 (10)	93	10/10	31.7 (10)	97	10/10	30.8 (10)	94	10/10
13-6	33.0 (10)	10/10	32.1 (10)	97	10/10	31.7 (10)	96	10/10	31.8 (10)	96	10/10	33.0 (10)	100	10/10	31.9 (10)	97	10/10

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		500 ppm			1000 ppm			2000 ppm			4000 ppm			8000 ppm		
	Au.Wt.	No.of Surviv. <10>	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.	Au.Wt.	% of cont. <10>	No.of Surviv.
0-0	18.5 (10)	10/10	18.6 (10)	101	10/10	18.2 (10)	98	10/10	18.7 (10)	101	10/10	18.7 (10)	101	10/10	18.4 (10)	99	10/10
1-7	19.8 (10)	10/10	19.9 (10)	101	10/10	19.7 (10)	99	10/10	19.7 (10)	99	10/10	19.8 (10)	100	10/10	18.2 (10)	92	10/10
2-7	20.9 (10)	10/10	20.7 (10)	99	10/10	20.5 (10)	98	10/10	20.6 (10)	99	10/10	20.4 (10)	98	10/10	19.2 (10)	92	10/10
3-7	21.5 (10)	10/10	21.5 (10)	100	10/10	21.4 (10)	100	10/10	21.7 (10)	101	10/10	21.1 (10)	98	10/10	19.7 (10)	92	10/10
4-7	22.1 (10)	10/10	22.4 (10)	101	10/10	22.2 (10)	100	10/10	22.3 (10)	101	10/10	22.3 (10)	101	10/10	20.5 (10)	93	10/10
5-7	22.3 (10)	10/10	22.9 (10)	103	10/10	22.7 (10)	102	10/10	22.0 (10)	99	10/10	22.4 (10)	100	10/10	21.1 (10)	95	10/10
6-7	23.6 (10)	10/10	23.8 (10)	101	10/10	23.5 (10)	100	10/10	23.1 (10)	98	10/10	22.9 (10)	97	10/10	21.4 (10)	91	10/10
7-7	24.2 (10)	10/10	24.4 (10)	101	10/10	23.6 (10)	98	10/10	23.7 (10)	98	10/10	23.5 (10)	97	10/10	22.0 (10)	91	10/10
8-7	24.2 (10)	10/10	24.4 (10)	101	10/10	24.3 (10)	100	10/10	23.7 (10)	98	10/10	24.0 (10)	99	10/10	21.8 (10)	90	10/10
9-7	24.1 (10)	10/10	24.9 (10)	103	10/10	24.8 (10)	103	10/10	25.1 (10)	104	10/10	24.3 (10)	101	10/10	22.4 (10)	93	10/10
10-7	24.7 (10)	10/10	25.1 (10)	102	10/10	24.7 (10)	100	10/10	24.1 (10)	98	10/10	24.7 (10)	100	10/10	22.6 (10)	91	10/10
11-7	25.2 (10)	10/10	26.0 (10)	103	10/10	25.1 (10)	100	10/10	24.8 (10)	98	10/10	24.5 (10)	97	10/10	22.5 ( 9)	89	9/10
12-7	26.0 (10)	10/10	25.5 (10)	98	10/10	25.1 (10)	97	10/10	24.8 (10)	95	10/10	24.9 (10)	96	10/10	23.1 ( 9)	89	9/10
13-6	26.0 (10)	10/10	26.1 (10)	100	10/10	25.3 (10)	97	10/10	25.8 (10)	99	10/10	25.5 (10)	98	10/10	23.5 ( 9)	90	9/10

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

TABLE 4 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		500 ppm		1000 ppm		2000 ppm		4000 ppm		8000 ppm						
	Au.F.C.	No. of Surviv. <10>	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.			
1-7	4.4 (10)	10/10	4.5 (10)	102	10/10	4.3 (10)	98	10/10	4.5 (10)	102	10/10	4.5 (10)	102	10/10	3.8 (10)	86	10/10
2-7	4.4 (10)	10/10	4.5 (10)	102	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.5 (10)	102	10/10	4.6 (10)	105	10/10
3-7	4.4 (10)	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.5 (10)	102	10/10	4.9 (10)	111	10/10	4.8 (10)	109	10/10
4-7	4.4 (10)	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	5.1 (10)	116	10/10	4.8 (10)	109	10/10
5-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10	4.9 (10)	109	10/10	4.9 (10)	109	10/10
6-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.6 (10)	102	10/10	4.4 (10)	98	10/10	5.0 (10)	111	10/10	4.9 (10)	109	10/10
7-7	4.7 (10)	10/10	4.8 (10)	102	10/10	4.3 (10)	91	10/10	4.1 (10)	87	10/10	4.5 (10)	96	10/10	4.6 (10)	98	10/10
8-7	4.6 (10)	10/10	4.5 (10)	98	10/10	4.7 (10)	102	10/10	4.5 (10)	98	10/10	5.1 (10)	111	10/10	5.1 (10)	111	10/10
9-7	4.6 (10)	10/10	4.6 (10)	100	10/10	4.8 (10)	104	10/10	4.5 (10)	98	10/10	4.7 (10)	102	10/10	4.7 (10)	102	10/10
10-7	4.5 (10)	10/10	4.5 (10)	100	10/10	4.6 (10)	102	10/10	4.3 (10)	96	10/10	4.9 (10)	109	10/10	5.0 (10)	111	10/10
11-7	4.6 (10)	10/10	4.6 (10)	100	10/10	4.5 (10)	98	10/10	4.5 (10)	98	10/10	4.9 (10)	107	10/10	5.0 (10)	109	10/10
12-7	4.5 (10)	10/10	4.6 (10)	102	10/10	4.5 (10)	100	10/10	4.4 (10)	98	10/10	5.1 (10)	113	10/10	5.0 (10)	111	10/10
13-6	4.5 (10)	10/10	4.7 (10)	104	10/10	4.5 (10)	100	10/10	4.5 (10)	100	10/10	5.2 (10)	116	10/10	5.5 (10)	122	10/10

< >:No. of effective animals, ( ):No. of measured animals Au.F.C.: g

TABLE 5 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		500 ppm		1000 ppm		2000 ppm		4000 ppm		8000 ppm						
	Au.F.C.	No. of Surviv. <10>	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.	Au.F.C.	% of cont. <10>	No. of Surviv.			
1-7	3.6 (10)	10/10	3.8 (10)	106	10/10	3.6 (10)	100	10/10	3.9 (10)	108	10/10	3.7 (10)	103	10/10	3.3 (10)	92	10/10
2-7	3.8 (10)	10/10	4.0 (10)	105	10/10	4.0 (10)	105	10/10	4.2 (10)	111	10/10	3.9 (10)	103	10/10	3.8 (10)	100	10/10
3-7	3.9 (10)	10/10	4.3 (10)	110	10/10	4.1 (10)	105	10/10	4.2 (10)	108	10/10	4.5 (10)	115	10/10	4.1 (10)	105	10/10
4-7	4.2 (10)	10/10	4.5 (10)	107	10/10	4.3 (10)	102	10/10	4.2 (10)	100	10/10	4.5 (10)	107	10/10	4.2 (10)	100	10/10
5-7	4.3 (10)	10/10	4.6 (10)	107	10/10	4.4 (10)	102	10/10	4.2 (10)	98	10/10	4.4 (10)	102	10/10	4.4 (10)	102	10/10
6-7	4.4 (10)	10/10	4.8 (10)	109	10/10	4.7 (10)	107	10/10	4.5 (10)	102	10/10	4.5 (10)	102	10/10	4.3 (10)	98	10/10
7-7	4.7 (10)	10/10	5.0 (10)	106	10/10	4.8 (10)	102	10/10	4.4 (10)	94	10/10	4.2 (10)	89	10/10	4.1 (10)	87	10/10
8-7	4.5 (10)	10/10	4.8 (10)	107	10/10	4.8 (10)	107	10/10	4.7 (10)	104	10/10	4.5 (10)	100	10/10	4.3 (10)	96	10/10
9-7	4.4 (10)	10/10	4.9 (10)	111	10/10	4.9 (10)	111	10/10	4.8 (10)	109	10/10	4.4 (10)	100	10/10	4.1 (10)	93	10/10
10-7	4.4 (10)	10/10	4.7 (10)	107	10/10	4.4 (10)	100	10/10	4.4 (10)	100	10/10	4.5 (10)	102	10/10	4.1 (10)	93	10/10
11-7	4.5 (10)	10/10	5.0 (10)	111	10/10	4.6 (10)	102	10/10	4.6 (10)	102	10/10	4.5 (10)	100	10/10	4.2 (10)	93	9/10
12-7	4.4 (10)	10/10	4.6 (10)	105	10/10	4.5 (10)	102	10/10	4.6 (10)	105	10/10	4.2 (10)	95	10/10	4.3 (9)	98	9/10
13-6	4.5 (10)	10/10	5.0 (10)	111	10/10	4.5 (10)	100	10/10	4.8 (10)	107	10/10	4.7 (10)	104	10/10	4.5 (9)	100	9/10

< >:No. of effective animals, ( ):No. of measured animals Au.F.C.: g