

ジクロロメタンのマウスを用いた
吸入による2週間毒性試験報告書

試験番号：0230

TABLES

TABLES

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

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
IN THE 2-WEEK INHALATION STUDIES OF DICHLOROMETHANE

<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 ₁ mouse	
Animal Source	
Charles River Japan, Inc.	
Duration Held Before Study	
2 wk	
Age When Placed on Study	
6 wk	
Age When Killed	
8 wk	
<Doses>	
Male and Female	
0, 1000, 2000, 4000, 8000 or 16000ppm	
<Duration of Dosing>	
5 d/wk for 2 wk	
<Animal Maintenance>	
Feed	
CRF-1 (Oriental Yeast Co., Ltd.)	
Sterilized by γ -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 (1 per d without Exposure day)	
Body Weight	
Weighed 0-0, 1-1, 1-7, and 2-7(wk-d)	
Food Consumption	
Weighed 1-7 and 2-7(wk-d)	

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
(Continued) IN THE 2-WEEK INHALATION STUDIES OF DICHLOROMETHANE

<Hematology>

Hematological examination performed on five animals per sex per groups.
(schedule 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>

Biochemistrical examination performed on five animals per sex per groups.
(schedule sacrificed animals)

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

<Necropsy>

Necropsy performed on all animals.

<Organ Weight>

Organ weight measurement performed on five animals per sex per groups.
(schedule 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.

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

Week-Day on Study	Control		1000ppm			2000ppm			4000ppm			8000ppm			16000ppm		
	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	22.8 (10)	10/10	22.5 (10)	99	10/10	22.4 (10)	98	10/10	22.6 (10)	99	10/10	22.7 (10)	100	10/10	22.5 (10)	99	5/10
1-1	23.6 (10)	10/10	22.9 (10)	97	10/10	22.6 (10)	96	10/10	22.8 (10)	97	10/10	21.9 (10)	93	10/10	20.4 (5)	86	5/10
1-7	24.6 (10)	10/10	23.7 (10)	96	10/10	23.9 (10)	97	10/10	24.4 (10)	99	10/10	23.9 (10)	97	10/10	21.5 (5)	87	5/10
2-7	25.7 (10)	10/10	24.6 (10)	96	10/10	24.5 (10)	95	10/10	25.2 (10)	98	10/10	25.4 (10)	99	10/10	22.4 (5)	87	5/10
< >: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 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		1000ppm			2000ppm			4000ppm			8000ppm			16000ppm		
	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	18.4 (10)	10/10	18.2 (10)	99	10/10	18.3 (10)	99	10/10	18.1 (10)	98	10/10	17.9 (10)	97	10/10	17.9 (10)	97	9/10
1-1	18.7 (10)	10/10	18.8 (10)	101	10/10	18.5 (10)	99	10/10	18.2 (10)	97	10/10	17.4 (10)	93	10/10	14.8 (8)	79	0/10
1-7	19.4 (10)	10/10	19.6 (10)	101	10/10	19.2 (10)	99	10/10	20.1 (10)	104	10/10	19.0 (10)	98	10/10	- (-)	-	0/10
2-7	20.8 (10)	10/10	21.1 (10)	101	10/10	20.5 (10)	99	10/10	20.2 (10)	97	10/10	19.9 (9)	96	10/10	- (-)	-	0/10
< >:No.of effective animals,() :No.of measured animals Au.Wt.: g																	

TABLE 4 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		1000ppm			2000ppm			4000ppm			8000ppm			16000ppm		
	Av.FC.	No.of Surviv. <10>	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.
1-7	4.4 (10)	10/10	4.2 (10)	95	10/10	4.3 (10)	98	10/10	4.3 (10)	98	10/10	4.0 (10)	91	10/10	3.4 (5)	77	5/10
2-7	4.3 (10)	10/10	4.2 (10)	98	10/10	4.3 (10)	100	10/10	4.2 (10)	98	10/10	4.6 (10)	107	10/10	4.1 (5)	95	5/10
< >:No.of effective animals,():No.of measured animals Av.FC.: g																	

TABLE 5 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control		1000ppm			2000ppm			4000ppm			8000ppm			16000ppm		
	Av.FC.	No.of Surviv. <10>	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.	Av.FC.	% of cont. <10>	No.of Surviv.
1-7	3.6 (10)	10/10	3.7 (10)	103	10/10	3.7 (10)	103	10/10	3.9 (10)	108	10/10	3.5 (10)	97	10/10	- (-)	-	0/10
2-7	3.7 (10)	10/10	3.7 (10)	100	10/10	3.8 (10)	103	10/10	3.5 (10)	95	10/10	3.6 (9)	97	10/10	- (-)	-	0/10
< >:No.of effective animals,():No.of measured animals Av.FC.: g																	