ジクロロメタンのラットを用いた
吸入による2週間毒性試験報告書

試験番号：0229

TABLES

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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
F344/DuCrj (Fischer) rat
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 *ad libitum*
Water
Filtrated and sterilized by ultraviolet ray
Automatic watering system
Available *ad libitum*
Animal per Cage
Single (stainless steel wire)
Animal Room Environment
Barrier system
Temperature : 21±2℃
Humidity : 60±10%
Fluorescent light 12 h/d
15~17 room air changes /h
Chamber Environment
Barrier system
Temperature : 20~24℃
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 (Continued) EXPERIMENTAL DESIGN AND MATERIALS AND METHODS 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, Reticulocyte,
Prothrombin time (PT),
Activated partial thromboplastin time (APTT).

<Biochemistry>

Biochemistrical examination performed on five animals per sex per groups.
(schedule sacrificed animals)
The following measurement parameters were examined;
Total protein, Albumin, A/G/ ratio,
Total bilirubin, Glucose, Total cholesterol,
Phospholipid,
Glutamic oxaloacetic transaminase (GOT),
Glutamic pyruvic transaminase (GPT),
Lactate dehydrogenase (LDH),
γ-Glutamyl transpeptidase (G-GTP),
Creatine phosphokinase (CPK),
Urea nitrogen, Creatinine,
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, 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 RATS IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	1000ppm Av.Wt.	1000ppm % of cont. <10>	1000ppm No.of Surviv.	2000ppm Av.Wt.	2000ppm % of cont. <10>	2000ppm No.of Surviv.	4000ppm Av.Wt.	4000ppm % of cont. <10>	4000ppm No.of Surviv.	8000ppm Av.Wt.	8000ppm % of cont. <10>	8000ppm No.of Surviv.	16000ppm Av.Wt.	16000ppm % of cont. <10>	16000ppm No.of Surviv.
0-0	113 (10)	10/10	114 (10)	101	10/10	114 (10)	101	10/10	114 (10)	101	10/10	113 (10)	100	10/10	113 (10)	100	1/10
1-1	116 (10)	10/10	116 (10)	100	10/10	117 (10)	101	10/10	115 (10)	99	10/10	110 (10)	95	10/10	104 (1)	90	1/10
1-7	134 (10)	10/10	138 (10)	103	10/10	135 (10)	101	10/10	134 (10)	100	10/10	120 (10)	90	10/10	- (-)	-	0/10
2-7	157 (10)	10/10	167 (10)	106	10/10	159 (10)	101	10/10	161 (10)	103	10/10	138 (10)	88	10/10	- (-)	-	0/10

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <10>	1000ppm Av.Wt.	1000ppm % of cont. <10>	1000ppm No.of Surviv.	2000ppm Av.Wt.	2000ppm % of cont. <10>	2000ppm No.of Surviv.	4000ppm Av.Wt.	4000ppm % of cont. <10>	4000ppm No.of Surviv.	8000ppm Av.Wt.	8000ppm % of cont. <10>	8000ppm No.of Surviv.	16000ppm Av.Wt.	16000ppm % of cont. <10>	16000ppm No.of Surviv.
0-0	101 (10)	10/10	99 (10)	98	10/10	100 (10)	99	10/10	100 (10)	99	10/10	99 (10)	98	10/10	99 (10)	98	3/10
1-1	102 (10)	10/10	100 (10)	98	10/10	101 (10)	99	10/10	101 (10)	99	10/10	95 (10)	93	10/10	100 (3)	98	1/10
1-7	111 (10)	10/10	110 (10)	99	10/10	112 (10)	101	10/10	111 (10)	100	10/10	98 (10)	88	10/10	- (-)	-	0/10
2-7	125 (10)	10/10	122 (10)	98	10/10	125 (10)	100	10/10	125 (10)	100	10/10	110 (10)	88	10/10	- (-)	-	0/10

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

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

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	1000ppm Av.FC.	1000ppm % of cont. <10>	1000ppm No.of Surviv.	2000ppm Av.FC.	2000ppm % of cont. <10>	2000ppm No.of Surviv.	4000ppm Av.FC.	4000ppm % of cont. <10>	4000ppm No.of Surviv.	8000ppm Av.FC.	8000ppm % of cont. <10>	8000ppm No.of Surviv.	16000ppm Av.FC.	16000ppm % of cont. <10>	16000ppm No.of Surviv.
1-7	13.8 (10)	10/10	14.0 (10)	101	10/10	13.8 (10)	100	10/10	13.6 (10)	99	10/10	10.2 (10)	74	10/10	7.2 (1)	52	0/10
2-7	14.2 (10)	10/10	15.3 (10)	108	10/10	14.4 (10)	101	10/10	14.3 (10)	101	10/10	11.9 (10)	84	10/10	- (-)	-	0/10

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

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

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <10>	1000ppm Av.FC.	1000ppm % of cont. <10>	1000ppm No.of Surviv.	2000ppm Av.FC.	2000ppm % of cont. <10>	2000ppm No.of Surviv.	4000ppm Av.FC.	4000ppm % of cont. <10>	4000ppm No.of Surviv.	8000ppm Av.FC.	8000ppm % of cont. <10>	8000ppm No.of Surviv.	16000ppm Av.FC.	16000ppm % of cont. <10>	16000ppm No.of Surviv.
1-7	11.6 (10)	10/10	11.4 (10)	98	10/10	11.5 (10)	99	10/10	11.6 (10)	100	10/10	8.2 (10)	71	10/10	7.2 (1)	62	0/10
2-7	11.8 (10)	10/10	11.5 (10)	97	10/10	11.6 (10)	98	10/10	11.7 (10)	99	10/10	9.6 (10)	81	10/10	- (-)	-	0/10

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