

アリルクロリドのマウスを用いた  
吸入による 2 週間毒性試験報告書

試験番号：0333

# TABLES

## TABLES

- TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 2 CLINICAL OBSERVATION DURING AND AFTER EXPOSURE OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 3 CLINICAL OBSERVATION DURING AND AFTER EXPOSURE OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 4 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 5 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 6 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE
- TABLE 7 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS  
IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

---

<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:BDF1 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, 62.5, 125, 250, 500 or 1000ppm
<Duration of Dosing>	6 h/d, 5 d/wk for 2 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 : 55±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 air changes /h
<Type and Frequency of Observation>	Clinical Sign Clinical Sign Before the exposure : 1-1, 1-2, 1-4, 1-7, 2-3 and 2-7 After the exposure : 1-1, 1-2 During the exposure : 1-1( 3 and 5.5 hours) Observed 1 per day for mortality
	Body Weight Weighed 0-0, 1-2, 1-4, 1-7, 2-3 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 STUDY OF ALLYL CHLORIDE

---

<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)

The following measurement parameters were examined;

Total protein, Albumin, A/G ratio,  
Total bilirubin, Glucose, Total cholesterol,  
Triglyceride, Phospholipid,  
Glutamic oxaloacetic transaminase (GOT),  
Glutamic pyruvic transaminase (GPT),  
Lactate dehydrogenase (LDH),  
Alkaline phosphatase (ALP),  
 $\gamma$ -Glutamyl transpeptidase ( $\gamma$ -GTP),  
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;

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

<Histopathologic Examination>

Histopathologic examination performed on two animals per sex per schedule sacrificed  
groups and three animals per sex per all dead groups before schedule sacrificed.

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, adrenal, testis, epididymis, seminal vesicle,  
prostate, ovary, uterus, vagina, mammary gland,  
brain, spinal cord, peripheral nerve, eye, harderian gland, muscle, bone.

---

TABLE 2 CLINICAL OBSERVATION DURING AND AFTER EXPOSURE OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Group name.	First day during exposure			2th day
	3hour	5.5hour	after exposure	after exposure
1000ppm	Non remarkable	Locomotor movement decrease Diarrhea Loose stool Crouching position	Diarrhea Loose stool Soiled perianus	Already Dead
500ppm	Non remarkable	Diarrhea Loose stool	Diarrhea Loose stool Soiled perianus	Locomotion movement decrease Piloerection Subnomal temp
250ppm	Non remarkable	Non remarkable	Diarrhea Loose stool	Non remarkable
125ppm ~ 0ppm	Non remarkable	Non remarkable	Non remarkable	Non remarkable

TABLE 3 CLINICAL OBSERVATION DURING AND AFTER EXPOSURE OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Group name.	First day during exposure			2th day
	3hour	5.5hour	after exposure	after exposure
1000ppm	Non remarkable	Locomotor movement decrease Diarrhea Loose stool Crouching position	Diarrhea Loose stool Soiled perianus	Locomotor movement decrease Piloerection Subnomal temp Hematuria(2505) Dead(2507) Dead(2509)
500ppm	Non remarkable	Diarrhea Loose stool	Diarrhea Loose stool Soiled perianus	Non remarkable
250ppm	Non remarkable	Non remarkable	Diarrhea Loose stool	Non remarkable
125ppm ~ 0ppm	Non remarkable	Non remarkable	Non remarkable	Non remarkable

TABLE 4 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Week-Day on Study	0ppm		62.5ppm		125.0ppm		250.0ppm		500.0ppm		1000.0ppm						
	Av.Wt.	No.of Surviv. <10>	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.			
0-0	22.6 (10)	10/10	22.6 (10)	100	10/10	22.6 (10)	100	10/10	22.6 (10)	100	10/10	22.5 (10)	100	10/10	22.6 (10)	100	10/10
1-2	23.2 (10)	10/10	22.7 (10)	98	10/10	22.9 (10)	99	10/10	22.3 (10)	96	10/10	20.2 ( 8)	87	8/10	- (-)	-	0/10
1-4	23.9 (10)	10/10	23.1 (10)	97	10/10	23.2 (10)	97	10/10	22.9 (10)	96	10/10	19.2 ( 3)	80	3/10	- (-)	-	0/10
1-7	24.5 (10)	10/10	23.5 (10)	96	10/10	23.1 (10)	94	10/10	23.9 (10)	98	10/10	17.7 ( 2)	72	2/10	- (-)	-	0/10
2-3	24.7 (10)	10/10	23.5 (10)	95	10/10	23.3 (10)	94	10/10	25.3 (10)	102	10/10	- (-)	-	0/10	- (-)	-	0/10
2-7	25.2 (10)	10/10	23.9 (10)	95	10/10	23.3 (10)	92	10/10	25.7 (10)	102	10/10	- (-)	-	0/10	- (-)	-	0/10

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

TABLE 5 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Week-Day on Study	0ppm		62.5ppm		125.0ppm		250.0ppm		500.0ppm		1000.0ppm						
	Av.Wt.	No.of Surviv. <10>	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.	Av.Wt.	% of cont. <10>	No.of Surviv.			
0-0	18.6 (10)	10/10	18.6 (10)	100	10/10	18.6 (10)	100	10/10	18.5 (10)	99	10/10	18.5 (10)	99	10/10	18.6 (10)	100	10/10
1-2	18.9 (10)	10/10	18.1 (10)	96	10/10	18.6 (10)	98	10/10	18.2 (10)	96	10/10	17.6 (10)	93	10/10	16.8 ( 6)	89	4/10
1-4	19.5 (10)	10/10	18.9 (10)	97	10/10	19.1 (10)	98	10/10	19.2 (10)	98	10/10	17.4 (10)	89	10/10	15.1 ( 1)	77	1/10
1-7	19.8 (10)	10/10	19.6 (10)	99	10/10	19.4 (10)	98	10/10	20.2 (10)	102	10/10	17.6 (10)	89	10/10	- (-)	-	0/10
2-3	20.1 (10)	10/10	19.9 (10)	99	10/10	19.6 (10)	98	10/10	21.5 (10)	107	10/10	- (-)	-	0/10	- (-)	-	0/10
2-7	20.2 (10)	10/10	19.9 (10)	99	10/10	20.4 (10)	101	10/10	21.0 (10)	104	10/10	- (-)	-	0/10	- (-)	-	0/10

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

TABLE 6 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Week-Day on Study	0ppm		62.5ppm		125.0ppm		250.0ppm		500.0ppm		1000.0ppm						
	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.			
1-7	4.7 ( 5)	10/10	4.3 (10)	91	10/10	4.3 (10)	91	10/10	4.0 (10)	85	10/10	1.5 ( 2)	32	2/10	- ( -)	-	0/10
2-7	4.2 (10)	10/10	3.9 (10)	93	10/10	4.2 (10)	100	10/10	4.8 (10)	114	10/10	- ( -)	-	0/10	- ( -)	-	0/10
< > : No.of effective animals, ( ) : No.of measured animals      Av.FC. : g																	

TABLE 7 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK INHALATION STUDY OF ALLYL CHLORIDE

Week-Day on Study	0ppm		62.5ppm		125.0ppm		250.0ppm		500.0ppm		1000.0ppm						
	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.			
1-7	3.8 (10)	10/10	3.8 (10)	100	10/10	3.8 (10)	100	10/10	4.0 (10)	105	10/10	3.0 (10)	79	10/10	- ( -)	-	0/10
2-7	3.6 (10)	10/10	3.4 (10)	94	10/10	3.6 (10)	100	10/10	4.2 (10)	117	10/10	- ( -)	-	0/10	- ( -)	-	0/10
< > : No.of effective animals, ( ) : No.of measured animals      Av.FC. : g																	