キノリンのマウスを用いた経口投与による
2 週 間 毒 性 試 験（混 水 試 験）報 告 書

試験番号：０２８３

TABLES

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TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE 2-WEEK DRINKING STUDY OF QUINOLINE

	2-week study
<Method of Administration>	
Drinking Water	
<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>	0, 77, 192, 480, 1200 or 3000 ppm
<Female>	0, 77, 192, 480, 1200 or 3000 ppm
<Duration of Dosing>	
7d/wk for 2wk	
<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 in duration of quarantine	
Glass bottle in duration of acclimation and administration	
Available *ad libitum*	
Animal per Cage	
Single (stainless steel wire)	
Animal Room Environment	
Barrier system	
Temperature	: 24±2℃
Humidity	: 55±10%
Fluorescent light 12h/d	
15~17 room air changes /h	
<Type and Frequency of Observation>	
Clinical Sign	
Observed 1 per d	
Body Weight	
Weighed 0-0, 1-1, 1-3, 1-7, 2-3, and 2-7 (wk-d)	
Food Consumption	
Weighed 1-7, and 2-7 (wk-d)	
Water Consumption	
Weighed 1-3, 2-7, 2-3, and 2-7 (wk-d)	

TABLE 1 (Continued) EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE 2-WEEK DRINKING STUDY OF QUINOLINE

	2-week study
<Hematology>	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>	Total protein, Albumin, A/G ratio, Total bilirubin, Glucose, Total cholesterol Phospholipid, Glutamic oxaloacetic transaminase (GOT), Glutamic pyruvic transaminase (GPT), Lactate dehydrogenase (LDH), Creatine phosphokinase (CPK), Urea nitrogen, Sodium, Potassium, Chloride, Calcium, Inorganic phosphorus.
<Urinalysis>	None
<Necropsy>	Necropsy performed on all animals.
<Organ Weight>	Organ weight measurement performed on at least five animals per sex per group at sacrifice The following organs were weighed; thymus, adrenal, testis, ovary, heart, lung, kidney, spleen, liver, and brain.
<Histopathologic Examination>	Histopathologic examination performed on at least two animals per sex per group. 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, other organs/tissues with gross lesions.

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week-Day on Study	Control Av.Wt. <10>	Control No. of Surviv.	77ppm Av.Wt.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Wt.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Wt.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Wt.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Wt.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
0-0	24.3(10)	10/10	24.3(10)	100	10/10	24.3(10)	100	10/10	24.3(10)	100	10/10	24.3(10)	100	10/10	24.3(10)	100	10/10
1-1	23.5(10)	10/10	23.3(10)	99	10/10	23.4(10)	100	10/10	23.3(10)	99	10/10	21.8(10)	93	10/10	21.2(10)	90	10/10
1-3	24.3(10)	10/10	24.2(10)	100	10/10	24.3(10)	100	10/10	24.0(10)	99	10/10	22.6(10)	93	10/10	19.3(10)	79	10/10
1-7	24.5(10)	10/10	25.2(10)	103	10/10	24.2(10)	99	10/10	24.7(10)	101	10/10	23.7(10)	97	10/10	16.2(10)	66	10/10
2-3	25.3(10)	10/10	25.2(10)	100	10/10	25.2(10)	100	10/10	24.9(10)	98	10/10	22.7(10)	90	10/10	15.2(8)	60	8/10
2-7	26.1(10)	10/10	26.0(10)	100	10/10	26.2(10)	100	10/10	25.8(10)	99	10/10	23.6(10)	90	10/10	13.3(2)	51	4/10

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week-Day on Study	Control Av.Wt. <10>	Control No. of Surviv.	77ppm Av.Wt.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Wt.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Wt.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Wt.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Wt.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
0-0	20.0(10)	10/10	20.0(10)	100	10/10	20.0(10)	100	10/10	20.0(10)	100	10/10	20.0(10)	100	10/10	20.0(10)	100	10/10
1-1	18.7(10)	10/10	18.8(10)	101	10/10	18.6(10)	99	10/10	18.6(10)	99	10/10	17.4(10)	93	10/10	16.7(10)	89	10/10
1-3	19.4(10)	10/10	19.3(10)	99	10/10	19.3(10)	99	10/10	19.0(10)	98	10/10	17.1(10)	88	10/10	14.9(10)	77	10/10
1-7	19.9(10)	10/10	20.0(10)	101	10/10	20.0(10)	101	10/10	20.0(10)	101	10/10	18.8(10)	94	10/10	12.3(10)	62	10/10
2-3	19.8(10)	10/10	20.0(10)	101	10/10	19.9(10)	101	10/10	20.0(10)	101	10/10	19.0(10)	96	10/10	11.1(8)	56	8/10
2-7	21.0(10)	10/10	21.4(10)	102	10/10	21.0(10)	100	10/10	21.0(10)	100	10/10	20.2(10)	96	10/10	- (-)	-	0/10

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

TABLE 4 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week-Day on Study	Control Av.Wc.	Control No. of Surviv. <10>	77ppm Av.Wc.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Wc.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Wc.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Wc.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Wc.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
1-3	4.5(10)	10/10	4.1(10)	91	10/10	4.1(10)	91	10/10	3.5(10)	78	10/10	1.8(10)	40	10/10	0.6(10)	13	10/10
1-7	3.6(10)	10/10	3.9(10)	108	10/10	4.0(10)	111	10/10	3.4(10)	94	10/10	1.9(10)	53	10/10	0.4(10)	11	10/10
2-3	4.9(10)	10/10	4.3(10)	88	10/10	4.5(10)	92	10/10	3.6(10)	73	10/10	1.3(10)	27	10/10	0.3(9)	6	8/10
2-7	4.3(10)	10/10	4.3(10)	100	10/10	4.2(10)	98	10/10	3.4(10)	79	10/10	1.4(10)	33	10/10	0.3(4)	7	4/10

< >:No. of effective animals, ( ):No. of measurement animals Av.Wc.:g

TABLE 5 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week-Day on Study	Control Av.Wc.	Control No. of Surviv. <10>	77ppm Av.Wc.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Wc.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Wc.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Wc.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Wc.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
1-3	4.0(10)	10/10	4.2(10)	105	10/10	3.9(10)	98	10/10	3.3(10)	83	10/10	1.3(10)	33	10/10	0.5(10)	13	10/10
1-7	3.7(10)	10/10	4.2(10)	114	10/10	4.2(10)	114	10/10	3.5(10)	95	10/10	1.8(10)	49	10/10	0.4(10)	11	10/10
2-3	4.3(10)	10/10	4.7(10)	109	10/10	4.4(10)	102	10/10	3.4(10)	79	10/10	1.5(10)	35	10/10	0.4(9)	9	8/10
2-7	4.1(10)	10/10	4.3(10)	105	10/10	4.2(10)	102	10/10	3.3(10)	80	10/10	1.7(9)	41	10/10	- (-)	-	0/10

< >:No. of effective animals, ( ):No. of measurement animals Av.Wc.:g

TABLE 6 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control Av.Fc. <10>	Control No. of Surviv.	77ppm Av.Fc.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Fc.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Fc.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Fc.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Fc.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
1	3.6(10)	10/10	3.6(10)	100	10/10	3.5(10)	97	10/10	3.4(10)	94	10/10	3.2(10)	89	10/10	1.7(10)	47	10/10
2	3.7(10)	10/10	3.6(10)	97	10/10	3.7(10)	100	10/10	3.5(10)	95	10/10	3.1(10)	84	10/10	1.3(4)	35	4/10

< >:No. of effective animals, ( ):No. of measurement animals Av.Fc.:g

TABLE 7 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control Av.Fc. <10>	Control No. of Surviv.	77ppm Av.Fc.	77ppm % of cont. <10>	77ppm No. of Surviv.	192ppm Av.Fc.	192ppm % of cont. <10>	192ppm No. of Surviv.	480ppm Av.Fc.	480ppm % of cont. <10>	480ppm No. of Surviv.	1200ppm Av.Fc.	1200ppm % of cont. <10>	1200ppm No. of Surviv.	3000ppm Av.Fc.	3000ppm % of cont. <10>	3000ppm No. of Surviv.
1	3.0(10)	10/10	3.1(10)	103	10/10	3.1(10)	103	10/10	3.1(10)	103	10/10	2.5(10)	83	10/10	1.3(10)	43	10/10
2	3.2(10)	10/10	3.2(10)	100	10/10	3.1(10)	97	10/10	3.1(10)	97	10/10	2.8(10)	88	10/10	- (-)	-	0/10

< >:No. of effective animals, ( ):No. of measurement animals Av.Fc.:g