

2-アミノエタノールのマウスを用いた
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：0595

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Wt.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.
	< 5>		< 5>			< 5>			< 5>			< 5>			< 5>		
0-0	22.8 (5)	5/5	22.8 (5)	100	5/5	22.8 (5)	100	5/5	22.8 (5)	100	5/5	22.8 (5)	100	5/5	22.7 (5)	100	5/5
1-4	23.1 (5)	5/5	23.1 (5)	100	5/5	22.6 (5)	98	5/5	22.6 (5)	98	5/5	22.8 (5)	99	5/5	21.8 (5)	94	5/5
1-7	24.0 (5)	5/5	23.5 (5)	98	5/5	23.4 (5)	98	5/5	23.4 (5)	98	5/5	23.3 (5)	97	5/5	23.3 (5)	97	5/5
2-4	24.4 (5)	5/5	24.4 (5)	100	5/5	24.1 (5)	99	5/5	24.5 (5)	100	5/5	24.0 (5)	98	5/5	23.4 (5)	96	5/5
2-7	24.9 (5)	5/5	24.8 (5)	100	5/5	24.6 (5)	99	5/5	25.0 (5)	100	5/5	24.4 (5)	98	5/5	24.0 (5)	96	5/5

< > : No. of effective animals, () : No. of measured animals Av.Wt. : Averaged body weight (Unit : g).

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Wt.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.	Av.Wt.	% of cont.	No.of Surviv.
	< 5>		< 5>			< 5>			< 5>			< 5>			< 5>		
0-0	19.4 (5)	5/5	19.4 (5)	100	5/5	19.4 (5)	100	5/5	19.4 (5)	100	5/5	19.4 (5)	100	5/5	19.4 (5)	100	5/5
1-4	19.9 (5)	5/5	19.9 (5)	100	5/5	19.4 (5)	97	5/5	19.7 (5)	99	5/5	18.8 (5)	94	5/5	18.4 (5)	92	5/5
1-7	19.7 (5)	5/5	19.9 (5)	101	5/5	19.6 (5)	99	5/5	20.1 (5)	102	5/5	19.1 (5)	97	5/5	19.0 (5)	96	5/5
2-4	19.8 (5)	5/5	20.1 (5)	102	5/5	20.2 (5)	102	5/5	20.1 (5)	102	5/5	19.2 (5)	97	5/5	19.4 (5)	98	5/5
2-7	20.7 (5)	5/5	20.7 (5)	100	5/5	20.1 (5)	97	5/5	20.9 (5)	101	5/5	20.1 (5)	97	5/5	19.5 (5)	94	5/5

< > : No. of effective animals, () : No. of measured animals Av.Wt. : Averaged body weight (Unit : g).

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Fc.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.
	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<
1-4	3.9 (5)	5/5	3.7 (5)	95	5/5	3.7 (5)	95	5/5	3.7 (5)	95	5/5	3.7 (5)	95	5/5	3.3 (5)	85	5/5
1-7	4.4 (5)	5/5	4.1 (5)	93	5/5	4.3 (5)	98	5/5	4.4 (5)	100	5/5	4.2 (5)	95	5/5	4.4 (5)	100	5/5
2-4	3.9 (5)	5/5	3.9 (5)	100	5/5	4.1 (5)	105	5/5	4.2 (5)	108	5/5	4.1 (5)	105	5/5	3.6 (5)	92	5/5
2-7	4.1 (5)	5/5	4.3 (5)	105	5/5	4.2 (5)	102	5/5	4.4 (5)	107	5/5	4.2 (5)	102	5/5	4.1 (5)	100	5/5

< > : No. of effective animals, () : No. of measured animals Av.Fc. : Averaged food consumption (Unit : g).

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Fc.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.	Av.Fc.	% of cont.	No.of Surviv.
	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<	5>	<
1-4	3.4 (5)	5/5	3.4 (5)	100	5/5	3.3 (5)	97	5/5	3.3 (5)	97	5/5	2.8 (5)	82	5/5	2.6 (5)	76	5/5
1-7	3.7 (5)	5/5	3.7 (5)	100	5/5	3.7 (5)	100	5/5	3.6 (5)	97	5/5	3.5 (5)	95	5/5	3.4 (5)	92	5/5
2-4	3.5 (5)	5/5	3.3 (5)	94	5/5	3.6 (5)	103	5/5	3.3 (5)	94	5/5	3.3 (5)	94	5/5	3.1 (5)	89	5/5
2-7	4.1 (5)	5/5	4.1 (5)	100	5/5	4.0 (5)	98	5/5	4.0 (5)	98	5/5	3.7 (5)	90	5/5	3.4 (5)	83	5/5

< > : No. of effective animals, () : No. of measured animals Av.Fc. : Averaged food consumption (Unit : g).

TABLE 5 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Wc.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.
	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>
1-4	4.9 (5)	5/5	4.4 (5)	90	5/5	4.6 (5)	94	5/5	4.5 (4)	92	5/5	3.7 (5)	76	5/5	2.4 (5)	49	5/5
1-7	4.9 (5)	5/5	4.2 (5)	86	5/5	4.7 (5)	96	5/5	5.9 (5)	120	5/5	3.9 (5)	80	5/5	3.0 (5)	61	5/5
2-4	4.7 (5)	5/5	4.4 (5)	94	5/5	4.7 (5)	100	5/5	4.9 (3)	104	5/5	4.2 (5)	89	5/5	2.8 (5)	60	5/5
2-7	4.5 (5)	5/5	4.2 (5)	93	5/5	4.6 (5)	102	5/5	4.7 (4)	104	5/5	3.8 (5)	84	5/5	2.8 (5)	62	5/5

< > : No. of effective animals, () : No. of measured animals Av.Wc. : Averaged water consumption (Unit : g).

TABLE 6 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week-Day on Study	Control		1250 ppm			2500 ppm			5000 ppm			10000 ppm			20000 ppm		
	Av.Wc.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.	Av.Wc.	% of cont.	No.of Surviv.
	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>
1-4	4.2 (5)	5/5	4.0 (5)	95	5/5	3.9 (5)	93	5/5	3.8 (5)	90	5/5	2.9 (5)	69	5/5	2.2 (5)	52	5/5
1-7	4.4 (5)	5/5	4.1 (5)	93	5/5	4.1 (5)	93	5/5	3.9 (5)	89	5/5	3.5 (5)	80	5/5	2.6 (5)	59	5/5
2-4	4.6 (5)	5/5	4.3 (5)	93	5/5	4.5 (5)	98	5/5	4.1 (5)	89	5/5	3.7 (5)	80	5/5	2.6 (5)	57	5/5
2-7	4.6 (5)	5/5	4.6 (5)	100	5/5	4.7 (5)	102	5/5	4.3 (5)	93	5/5	3.8 (5)	83	5/5	2.8 (5)	61	5/5

< > : No. of effective animals, () : No. of measured animals Av.Wc. : Averaged water consumption (Unit : g).

TABLE 7 HEMATOLOGY OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	1250 ppm	2500 ppm	5000 ppm	10000 ppm	20000 ppm
No. of examined animals	5	4	5	5	5	5
RED BLOOD CELL ($10^9/\mu\text{L}$)	10.48 \pm 0.25	10.40 \pm 0.41	10.46 \pm 0.18	10.07 \pm 0.13 *	10.11 \pm 0.11	10.22 \pm 0.27
HEMATOCRIT (%)	49.6 \pm 0.9	49.0 \pm 1.5	49.2 \pm 0.7	47.5 \pm 0.7 **	47.5 \pm 0.8 **	47.7 \pm 1.0 *
RETICULOCYTE (%)	2.1 \pm 0.1	2.4 \pm 0.3	2.2 \pm 0.1	2.6 \pm 0.2 **	2.5 \pm 0.2 *	2.2 \pm 0.2

Mean \pm S.D.
Significant difference: * : p 0.05 ** : p 0.01 Test of Dunnett

TABLE 8 ORGAN WEIGHTS OF MALE MICE IN THE 2-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	1250 ppm	2500 ppm	5000 ppm	10000 ppm	20000 ppm
No. of examined animal	5	5	5	5	5	5
Body weight (g)	24.9 ± 1.0	24.8 ± 0.4	24.6 ± 0.9	25.0 ± 0.7	24.4 ± 1.1	24.0 ± 0.7
Kidneys (g)	0.388 ± 0.023	0.402 ± 0.025	0.405 ± 0.020	0.409 ± 0.016	0.427 ± 0.019	0.409 ± 0.009
Kidneys (%)	1.561 ± 0.100	1.621 ± 0.093	1.645 ± 0.053	1.638 ± 0.075	1.752 ± 0.123 **	1.709 ± 0.026 *

Mean ± S.D.
Significant difference: * : p 0.05 ** : p 0.01 Test of Dunnett