2-アミノエタノールのラットを用いた
経口投与による13週間毒性試験（混水試験）報告書

試験番号：0602

TABLES

TABLES

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETANOL

Week on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 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.
	<10>		<10>			<10>			<10>			<10>			<10>		
0	126 (10)	10 / 10	126 (10)	100	10 / 10	126 (10)	100	10 / 10	126 (10)	100	10 / 10	126 (10)	100	10 / 10	126 (10)	100	10 / 10
1	156 (10)	10 / 10	153 (10)	98	10 / 10	154 (10)	99	10 / 10	153 (10)	98	10 / 10	152 (10)	97	10 / 10	138 (10)	88	10 / 10
2	185 (10)	10 / 10	183 (10)	99	10 / 10	184 (10)	99	10 / 10	180 (10)	97	10 / 10	180 (10)	97	10 / 10	164 (10)	89	10 / 10
3	210 (10)	10 / 10	206 (10)	98	10 / 10	208 (10)	99	10 / 10	204 (10)	97	10 / 10	204 (10)	97	10 / 10	184 (10)	88	10 / 10
4	229 (10)	10 / 10	226 (10)	99	10 / 10	228 (10)	100	10 / 10	223 (10)	97	10 / 10	221 (10)	97	10 / 10	202 (10)	88	10 / 10
5	245 (10)	10 / 10	241 (10)	98	10 / 10	244 (10)	100	10 / 10	239 (10)	98	10 / 10	238 (10)	97	10 / 10	216 (10)	88	10 / 10
6	259 (10)	10 / 10	254 (10)	98	10 / 10	258 (10)	100	10 / 10	252 (10)	97	10 / 10	252 (10)	97	10 / 10	227 (10)	88	10 / 10
7	271 (10)	10 / 10	267 (10)	99	10 / 10	271 (10)	100	10 / 10	267 (10)	99	10 / 10	264 (10)	97	10 / 10	239 (10)	88	10 / 10
8	283 (10)	10 / 10	279 (10)	99	10 / 10	283 (10)	100	10 / 10	277 (10)	98	10 / 10	275 (10)	97	10 / 10	247 (10)	87	10 / 10
9	293 (10)	10 / 10	287 (10)	98	10 / 10	292 (10)	100	10 / 10	287 (10)	98	10 / 10	284 (10)	97	10 / 10	253 (10)	86	10 / 10
10	302 (10)	10 / 10	297 (10)	98	10 / 10	301 (10)	100	10 / 10	298 (10)	99	10 / 10	293 (10)	97	10 / 10	259 (10)	86	10 / 10
11	310 (10)	10 / 10	305 (10)	98	10 / 10	309 (10)	100	10 / 10	304 (10)	98	10 / 10	299 (10)	96	10 / 10	261 (10)	84	10 / 10
12	316 (10)	10 / 10	310 (10)	98	10 / 10	315 (10)	100	10 / 10	311 (10)	98	10 / 10	305 (10)	97	10 / 10	265 (10)	84	10 / 10
13	322 (10)	10 / 10	314 (10)	98	10 / 10	319 (10)	99	10 / 10	315 (10)	98	10 / 10	311 (10)	97	10 / 10	269 (10)	84	10 / 10

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

(Study No. 0602)

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETANOL

Week on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 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.
	<10>		<10>			<10>			<10>			<10>			<10>		
0	99 (10)	10 / 10	99 (10)	100	10 / 10	99 (10)	100	10 / 10	99 (10)	100	10 / 10	99 (10)	100	10 / 10	99 (10)	100	10 / 10
1	114 (10)	10 / 10	113 (10)	99	10 / 10	115 (10)	101	10 / 10	113 (10)	99	10 / 10	111 (10)	97	10 / 10	98 (10)	86	10 / 10
2	125 (10)	10 / 10	123 (10)	98	10 / 10	125 (10)	100	10 / 10	124 (10)	99	10 / 10	122 (10)	98	10 / 10	111 (10)	89	10 / 10
3	133 (10)	10 / 10	132 (10)	99	10 / 10	135 (10)	102	10 / 10	132 (10)	99	10 / 10	130 (10)	98	10 / 10	122 (10)	92	10 / 10
4	137 (10)	10 / 10	138 (10)	101	10 / 10	141 (10)	103	10 / 10	139 (10)	101	10 / 10	136 (10)	99	10 / 10	128 (10)	93	10 / 10
5	144 (10)	10 / 10	144 (10)	100	10 / 10	147 (10)	102	10 / 10	146 (10)	101	10 / 10	142 (10)	99	10 / 10	131 (10)	91	10 / 10
6	146 (10)	10 / 10	146 (10)	100	10 / 10	150 (10)	103	10 / 10	150 (10)	103	10 / 10	147 (10)	101	10 / 10	136 (10)	93	10 / 10
7	151 (10)	10 / 10	149 (10)	99	10 / 10	155 (10)	103	10 / 10	154 (10)	102	10 / 10	151 (10)	100	10 / 10	139 (10)	92	10 / 10
8	153 (10)	10 / 10	152 (10)	99	10 / 10	159 (10)	104	10 / 10	156 (10)	102	10 / 10	153 (10)	100	10 / 10	142 (10)	93	10 / 10
9	155 (10)	10 / 10	154 (10)	99	10 / 10	162 (10)	105	10 / 10	159 (10)	103	10 / 10	156 (10)	101	10 / 10	145 (10)	94	10 / 10
10	159 (10)	10 / 10	158 (10)	99	10 / 10	165 (10)	104	10 / 10	163 (10)	103	10 / 10	160 (10)	101	10 / 10	147 (10)	92	10 / 10
11	161 (10)	10 / 10	161 (10)	100	10 / 10	168 (10)	104	10 / 10	167 (10)	104	10 / 10	163 (10)	101	10 / 10	150 (10)	93	10 / 10
12	164 (10)	10 / 10	163 (10)	99	10 / 10	170 (10)	104	10 / 10	168 (10)	102	10 / 10	165 (10)	101	10 / 10	151 (10)	92	10 / 10
13	164 (10)	10 / 10	163 (10)	99	10 / 10	171 (10)	104	10 / 10	168 (10)	102	10 / 10	167 (10)	102	10 / 10	153 (10)	93	10 / 10

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

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETANOL

Week on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 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.
	<10>		<10>			<10>			<10>			<10>			<10>		
1	13.5 (10)	10 / 10	13.5 (10)	100	10 / 10	13.1 (10)	97	10 / 10	12.7 (10)	94	10 / 10	12.4 (10)	92	10 / 10	10.3 (10)	76	10 / 10
2	14.9 (10)	10 / 10	14.9 (10)	100	10 / 10	14.9 (10)	100	10 / 10	14.3 (10)	96	10 / 10	13.9 (10)	93	10 / 10	13.1 (10)	88	10 / 10
3	15.6 (10)	10 / 10	15.6 (10)	100	10 / 10	15.3 (10)	98	10 / 10	14.9 (10)	96	10 / 10	14.6 (10)	94	10 / 10	13.7 (10)	88	10 / 10
4	15.7 (10)	10 / 10	16.0 (10)	102	10 / 10	15.7 (10)	100	10 / 10	15.1 (10)	96	10 / 10	15.1 (10)	96	10 / 10	14.2 (10)	90	10 / 10
5	15.6 (10)	10 / 10	15.5 (10)	99	10 / 10	14.9 (10)	96	10 / 10	14.7 (10)	94	10 / 10	14.0 (10)	90	10 / 10	13.0 (10)	83	10 / 10
6	15.0 (10)	10 / 10	14.6 (10)	97	10 / 10	14.3 (10)	95	10 / 10	14.2 (10)	95	10 / 10	13.9 (10)	93	10 / 10	12.6 (10)	84	10 / 10
7	15.1 (10)	10 / 10	15.0 (10)	99	10 / 10	14.8 (10)	98	10 / 10	14.8 (10)	98	10 / 10	14.3 (10)	95	10 / 10	12.9 (10)	85	10 / 10
8	15.0 (10)	10 / 10	15.0 (10)	100	10 / 10	15.0 (10)	100	10 / 10	14.6 (10)	97	10 / 10	14.0 (10)	93	10 / 10	13.0 (10)	87	10 / 10
9	15.5 (10)	10 / 10	15.0 (10)	97	10 / 10	15.0 (10)	97	10 / 10	14.9 (10)	96	10 / 10	14.0 (10)	90	10 / 10	12.8 (10)	83	10 / 10
10	15.3 (10)	10 / 10	15.2 (10)	99	10 / 10	15.3 (10)	100	10 / 10	14.8 (10)	97	10 / 10	13.9 (10)	91	10 / 10	12.8 (10)	84	10 / 10
11	15.2 (10)	10 / 10	14.7 (10)	97	10 / 10	14.9 (10)	98	10 / 10	14.3 (10)	94	10 / 10	14.0 (10)	92	10 / 10	12.6 (10)	83	10 / 10
12	15.3 (10)	10 / 10	14.8 (10)	97	10 / 10	14.9 (10)	97	10 / 10	14.5 (10)	95	10 / 10	14.1 (10)	92	10 / 10	12.5 (10)	82	10 / 10
13	15.0 (10)	10 / 10	14.8 (10)	99	10 / 10	14.8 (10)	99	10 / 10	14.6 (10)	97	10 / 10	14.0 (10)	93	10 / 10	12.4 (10)	83	10 / 10

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

(Study No. 0602)

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETANOL

Week on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 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.
	<10>		<10>			<10>			<10>			<10>			<10>		
1	10.3 (10)	10 / 10	9.9 (10)	96	10 / 10	10.5 (10)	102	10 / 10	9.9 (10)	96	10 / 10	9.3 (10)	90	10 / 10	6.9 (10)	67	10 / 10
2	10.4 (10)	10 / 10	10.1 (10)	97	10 / 10	10.4 (10)	100	10 / 10	10.1 (10)	97	10 / 10	9.8 (10)	94	10 / 10	9.2 (10)	88	10 / 10
3	10.4 (10)	10 / 10	10.3 (10)	99	10 / 10	10.7 (10)	103	10 / 10	10.0 (10)	96	10 / 10	9.5 (10)	91	10 / 10	9.3 (10)	89	10 / 10
4	10.0 (10)	10 / 10	10.2 (10)	102	10 / 10	10.3 (10)	103	10 / 10	9.9 (10)	99	10 / 10	9.5 (10)	95	10 / 10	9.0 (10)	90	10 / 10
5	10.1 (10)	10 / 10	9.9 (10)	98	10 / 10	10.3 (10)	102	10 / 10	10.0 (10)	99	10 / 10	9.6 (10)	95	10 / 10	8.6 (10)	85	10 / 10
6	9.9 (10)	10 / 10	9.4 (10)	95	10 / 10	9.9 (10)	100	10 / 10	9.7 (10)	98	10 / 10	9.2 (10)	93	10 / 10	8.1 (10)	82	10 / 10
7	9.8 (10)	10 / 10	9.4 (10)	96	10 / 10	10.0 (10)	102	10 / 10	9.8 (10)	100	10 / 10	9.0 (10)	92	10 / 10	8.3 (10)	85	10 / 10
8	9.6 (10)	10 / 10	9.1 (10)	95	10 / 10	9.9 (10)	103	10 / 10	9.5 (10)	99	10 / 10	8.9 (10)	93	10 / 10	8.1 (10)	84	10 / 10
9	9.5 (10)	10 / 10	9.2 (10)	97	10 / 10	9.4 (10)	99	10 / 10	9.1 (10)	96	10 / 10	8.9 (10)	94	10 / 10	8.0 (10)	84	10 / 10
10	9.9 (10)	10 / 10	9.4 (10)	95	10 / 10	9.8 (10)	99	10 / 10	9.7 (10)	98	10 / 10	9.3 (10)	94	10 / 10	8.3 (10)	84	10 / 10
11	9.5 (10)	10 / 10	9.5 (10)	100	10 / 10	9.5 (10)	100	10 / 10	9.6 (10)	101	10 / 10	9.2 (10)	97	10 / 10	8.2 (10)	86	10 / 10
12	9.3 (10)	10 / 10	9.3 (10)	100	10 / 10	9.7 (10)	104	10 / 10	9.3 (10)	100	10 / 10	9.0 (10)	97	10 / 10	8.0 (10)	86	10 / 10
13	9.4 (10)	10 / 10	9.2 (10)	98	10 / 10	9.5 (10)	101	10 / 10	9.3 (10)	99	10 / 10	9.1 (10)	97	10 / 10	8.2 (10)	87	10 / 10

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

(Study No. 0602)

TABLE 5 WATER CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week on Study	Control			625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 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.
	<10>			<10>			<10>			<10>			<10>			<10>		
1	17.1 (10)		10 / 10	17.2 (10)	101	10 / 10	16.1 (10)	94	10 / 10	16.6 (10)	97	10 / 10	13.8 (10)	81	10 / 10	12.8 (10)	75	10 / 10
2	18.3 (10)		10 / 10	18.2 (10)	99	10 / 10	17.2 (10)	94	10 / 10	16.3 (10)	89	10 / 10	14.2 (10)	78	10 / 10	13.1 (10)	72	10 / 10
3	18.9 (10)		10 / 10	20.1 (10)	106	10 / 10	17.5 (10)	93	10 / 10	16.7 (10)	88	10 / 10	15.0 (10)	79	10 / 10	12.2 (10)	65	10 / 10
4	19.7 (10)		10 / 10	18.7 (10)	95	10 / 10	17.9 (10)	91	10 / 10	16.9 (10)	86	10 / 10	15.2 (10)	77	10 / 10	12.7 (10)	64	10 / 10
5	20.0 (10)		10 / 10	18.2 (10)	91	10 / 10	16.8 (10)	84	10 / 10	16.5 (10)	83	10 / 10	14.7 (10)	74	10 / 10	11.6 (10)	58	10 / 10
6	19.1 (10)		10 / 10	17.4 (10)	91	10 / 10	16.6 (10)	87	10 / 10	16.2 (10)	85	10 / 10	14.3 (10)	75	10 / 10	11.4 (10)	60	10 / 10
7	18.3 (10)		10 / 10	17.8 (10)	97	10 / 10	16.8 (10)	92	10 / 10	16.4 (10)	90	10 / 10	14.2 (10)	78	10 / 10	11.7 (10)	64	10 / 10
8	18.2 (10)		10 / 10	17.1 (10)	94	10 / 10	17.0 (10)	93	10 / 10	16.1 (10)	88	10 / 10	14.2 (10)	78	10 / 10	11.3 (10)	62	10 / 10
9	18.0 (10)		10 / 10	17.3 (10)	96	10 / 10	17.2 (10)	96	10 / 10	16.3 (10)	91	10 / 10	14.5 (10)	81	10 / 10	11.1 (10)	62	10 / 10
10	18.5 (10)		10 / 10	18.4 (10)	99	10 / 10	17.4 (10)	94	10 / 10	16.7 (10)	90	10 / 10	14.6 (10)	79	10 / 10	11.8 (10)	64	10 / 10
11	18.1 (10)		10 / 10	17.4 (10)	96	10 / 10	16.8 (10)	93	10 / 10	16.0 (10)	88	10 / 10	14.0 (10)	77	10 / 10	11.3 (10)	62	10 / 10
12	18.0 (10)		10 / 10	17.2 (10)	96	10 / 10	16.8 (10)	93	10 / 10	16.4 (10)	91	10 / 10	14.3 (10)	79	10 / 10	11.5 (10)	64	10 / 10
13	17.7 (10)		10 / 10	17.4 (10)	98	10 / 10	16.1 (10)	91	10 / 10	15.9 (10)	90	10 / 10	14.5 (10)	82	10 / 10	11.2 (10)	63	10 / 10

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

TABLE 6 WATER CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Week on Study	Control			625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 ppm		
	Av. WC. <10>		No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.
1	15.6	(10)	10 / 10	14.9 (10)	96	10 / 10	17.3 (10)	111	10 / 10	14.7 (10)	94	10 / 10	11.9 (10)	76	10 / 10	10.0 (10)	64	10 / 10
2	18.3	(10)	10 / 10	17.3 (10)	95	10 / 10	23.2 (10)	127	10 / 10	16.8 (10)	92	10 / 10	11.1 (10)	61	10 / 10	9.8 (10)	54	10 / 10
3	21.2	(10)	10 / 10	20.7 (10)	98	10 / 10	23.8 (10)	112	10 / 10	13.5 (9)	64	10 / 10	11.3 (10)	53	10 / 10	9.6 (10)	45	10 / 10
4	18.4	(9)	10 / 10	17.3 (9)	94	10 / 10	19.1 (9)	104	10 / 10	13.4 (9)	73	10 / 10	10.3 (10)	56	10 / 10	9.0 (10)	49	10 / 10
5	25.2	(9)	10 / 10	17.4 (9)	69	10 / 10	19.7 (10)	78	10 / 10	16.5 (10)	65	10 / 10	11.3 (10)	45	10 / 10	8.9 (10)	35	10 / 10
6	20.9	(10)	10 / 10	17.6 (10)	84	10 / 10	16.7 (9)	80	10 / 10	15.6 (9)	75	10 / 10	10.5 (10)	50	10 / 10	8.8 (10)	42	10 / 10
7	21.9	(10)	10 / 10	17.7 (10)	81	10 / 10	19.7 (10)	90	10 / 10	17.3 (10)	79	10 / 10	10.6 (10)	48	10 / 10	8.2 (10)	37	10 / 10
8	17.5	(9)	10 / 10	18.0 (10)	103	10 / 10	19.8 (10)	113	10 / 10	15.3 (9)	87	10 / 10	10.1 (10)	58	10 / 10	8.2 (10)	47	10 / 10
9	16.9	(9)	10 / 10	17.6 (10)	104	10 / 10	16.4 (10)	97	10 / 10	12.7 (8)	75	10 / 10	10.4 (10)	62	10 / 10	7.9 (10)	47	10 / 10
10	20.7	(9)	10 / 10	16.7 (9)	81	10 / 10	20.5 (10)	99	10 / 10	17.6 (10)	85	10 / 10	10.8 (10)	52	10 / 10	9.2 (10)	44	10 / 10
11	16.6	(9)	10 / 10	15.9 (9)	96	10 / 10	15.5 (8)	93	10 / 10	14.7 (8)	89	10 / 10	11.0 (10)	66	10 / 10	9.2 (10)	55	10 / 10
12	17.4	(9)	10 / 10	19.5 (10)	112	10 / 10	16.6 (10)	95	10 / 10	16.2 (10)	93	10 / 10	10.7 (10)	61	10 / 10	9.6 (10)	55	10 / 10
13	15.8	(9)	10 / 10	18.3 (10)	116	10 / 10	14.2 (7)	90	10 / 10	13.9 (9)	88	10 / 10	9.9 (10)	63	10 / 10	8.8 (10)	56	10 / 10

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

(Study No. 0602)

TABLE 7　HEMATOLOGY OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	10	10	10	10	10	10
RED BLOOD CELL ($10^6/\mu$ L)	9.53 ± 0.31	9.51 ± 0.18	9.45 ± 0.11	9.52 ± 0.25	9.31 ± 0.20	8.94 ± 0.15 **
HEMOGLOBIN (g/dL)	16.2 ± 0.4	16.2 ± 0.2	16.2 ± 0.3	16.3 ± 0.4	15.8 ± 0.3 **	15.4 ± 0.3 **
HEMATOCRIT (%)	46 ± 1.1	45.8 ± 0.8	45.5 ± 0.7	45.8 ± 1.1	44.6 ± 0.8 **	43.4 ± 0.7 **
PLATELET ($10^3/\mu$ L)	715 ± 39	718 ± 28	725 ± 30	732 ± 31	705 ± 30	670 ± 50 *

Mean ± S.D.

Significant difference: * : p≦0.05 ** : p≦0.01 Test of Dunnett

TABLE 8　HEMATOLOGY OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	10	10	10	10	10	10
RED BLOOD CELL ($10^6/\mu$ L)	8.82 ± 0.19	8.81 ± 0.13	8.67 ± 0.36	8.66 ± 0.14	8.56 ± 0.22 *	8.45 ± 0.20 **
HEMOGLOBIN (g/dL)	16.1 ± 0.4	16.2 ± 0.3	15.9 ± 0.7	16.0 ± 0.3	15.8 ± 0.4	15.5 ± 0.4 **
HEMATOCRIT (%)	44.4 ± 1.0	44.6 ± 0.5	43.9 ± 1.6	43.8 ± 0.7	43.4 ± 1.2	42.8 ± 0.8 **
RETICULOCYTE (%)	1.6 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	1.6 ± 0.3	1.7 ± 0.3	2.0 ± 0.4 *

Mean ± S.D.

Significant difference: * : p≦0.05 ** : p≦0.01 Test of Dunnett

TABLE 9　BIOCHEMISTRY OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm		1250 ppm		2500 ppm		5000 ppm		10000 ppm	
No. of examined animals	10	10		10		10		10		10	
TOTAL PROTEIN (g/dL)	6.5 ± 0.1	6.4 ± 0.1		6.4 ± 0.1		6.4 ± 0.2		6.3 ± 0.1	**	6.2 ± 0.1	**
ALBUMIN (g/dL)	3.6 ± 0.1	3.6 ± 0.1		3.6 ± 0.1		3.6 ± 0.1		3.5 ± 0.1	**	3.5 ± 0.1	**
T-CHOLESTEROL (mg/dL)	61 ± 5	50 ± 3	**	52 ± 5	**	53 ± 4	**	50 ± 4	**	52 ± 3	**
PHOSPHOLIPID (mg/dL)	115 ± 7	99 ± 5	**	100 ± 6	**	101 ± 6	**	98 ± 5	**	97 ± 5	**
UREA NITOROGEN (mg/dL)	17.8 ± 1	17.4 ± 0.9		17.9 ± 1.5		18.9 ± 1.8		19.2 ± 1.0		22.1 ± 1.1	**

Mean ± S.D.

Significant difference:　* : p≦0.05　** : p≦0.01　Test of Dunnett

TABLE 10　BIOCHEMISTRY OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm		1250 ppm		2500 ppm		5000 ppm		10000 ppm	
No. of examined animals	10	10		10		10		10		10	
TOTAL PROTEIN (g/dL)	6.2 ± 0.1	6.2 ± 0.2		6.1 ± 0.2		6.0 ± 0.2		6.1 ± 0.2		5.8 ± 0.1	**
ALBUMIN (g/dL)	3.6 ± 0.1	3.6 ± 0.1		3.5 ± 0.1		3.5 ± 0.0		3.5 ± 0.1		3.4 ± 0.1	**
GLUCOSE (mg/dL)	146 ± 14	149 ± 10		164 ± 20	**	149 ± 8		150 ± 9		155 ± 12	
T-CHOLESTEROL (mg/dL)	68 ± 6	62 ± 9		68 ± 4		59 ± 5	*	60 ± 7	*	54 ± 6	**
PHOSPHOLIPID (mg/dL)	128 ± 11	120 ± 16		131 ± 10		114 ± 9	*	118 ± 11		107 ± 10	**
UREA NITOROGEN (mg/dL)	19.1 ± 2.4	18.8 ± 2.5		17.3 ± 2.4		18.4 ± 1.7		20.8 ± 2.9		23.2 ± 2.8	**
CHLORIDE (mEq/L)	106 ± 2	107 ± 1		106 ± 1		107 ± 1		105 ± 2	**	105 ± 1	

Mean ± S.D.

Significant difference:　* : p≦0.05　** : p≦0.01　Test of Dunnett

TABLE 11 URINALYSIS OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name		Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals		10	10	10	10	10	10
	Grade						
Protein	−	0	0	0	0	0	0
	±	0	0	0	0	0	0
	+	4	3	2	0	1	0
	2+	6	7	8	10	9	10
	3+	0	0	0	0	0	0
	4+	0	0	0	0	0	0
	Chi square test				*		*

Significant difference: * : p≦0.05 ** : p≦0.01

TABLE 12 URINALYSIS OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name		Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals		10	10	10	10	10	10
	Grade						
Protein	−	0	0	0	0	0	0
	±	1	1	4	1	0	0
	+	8	9	5	7	4	3
	2+	1	0	1	2	6	7
	3+	0	0	0	0	0	0
	4+	0	0	0	0	0	0
	Chi square test						*

Significant difference: * : p≦0.05 ** : p≦0.01

TABLE 13 ORGAN WEIGHTS OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animal	10	10	10	10	10	10
Body weight (g)	300 ± 20	297 ± 15	299 ± 17	295 ± 16	294 ± 20	257 ± 23 **
Adrenals (g)	0.050 ± 0.003	0.049 ± 0.004	0.050 ± 0.004	0.047 ± 0.004	0.048 ± 0.003	0.045 ± 0.003 **
Adrenals (%)	0.017 ± 0.001	0.017 ± 0.002	0.017 ± 0.002	0.016 ± 0.001	0.016 ± 0.001	0.018 ± 0.002
Testes (g)	3.190 ± 0.082	3.176 ± 0.096	3.171 ± 0.105	3.141 ± 0.146	3.060 ± 0.284	3.053 ± 0.121
Testes (%)	1.068 ± 0.076	1.073 ± 0.050	1.063 ± 0.043	1.068 ± 0.059	1.047 ± 0.115	1.195 ± 0.107 *
Heart (g)	0.898 ± 0.054	0.882 ± 0.056	0.873 ± 0.045	0.866 ± 0.073	0.854 ± 0.106	0.781 ± 0.064 **
Heart (%)	0.300 ± 0.013	0.297 ± 0.015	0.293 ± 0.012	0.294 ± 0.021	0.291 ± 0.034	0.304 ± 0.015
Lungs (g)	0.949 ± 0.064	0.924 ± 0.039	0.938 ± 0.030	0.914 ± 0.037	0.926 ± 0.062	0.860 ± 0.055 **
Lungs (%)	0.317 ± 0.015	0.312 ± 0.009	0.314 ± 0.012	0.311 ± 0.008	0.316 ± 0.013	0.336 ± 0.024
Kidneys (g)	1.872 ± 0.114	1.854 ± 0.102	1.872 ± 0.105	1.863 ± 0.061	1.930 ± 0.146	1.807 ± 0.122
Kidneys (%)	0.625 ± 0.021	0.625 ± 0.018	0.627 ± 0.016	0.634 ± 0.021	0.658 ± 0.032 *	0.705 ± 0.037 **
Spleen (g)	0.558 ± 0.046	0.528 ± 0.035	0.535 ± 0.033	0.525 ± 0.026	0.525 ± 0.047	0.461 ± 0.046 **
Spleen (%)	0.186 ± 0.007	0.178 ± 0.009	0.179 ± 0.006	0.179 ± 0.008	0.179 ± 0.007	0.179 ± 0.009
Liver (g)	7.339 ± 0.576	7.184 ± 0.350	7.283 ± 0.563	7.141 ± 0.543	6.972 ± 0.416	6.087 ± 0.551 **
Liver (%)	2.446 ± 0.056	2.423 ± 0.053	2.435 ± 0.072	2.423 ± 0.084	2.377 ± 0.071	2.368 ± 0.084
Brain (g)	1.914 ± 0.058	1.895 ± 0.051	1.905 ± 0.026	1.868 ± 0.059	1.884 ± 0.042	1.854 ± 0.049
Brain (%)	0.640 ± 0.037	0.640 ± 0.035	0.639 ± 0.033	0.635 ± 0.028	0.644 ± 0.034	0.726 ± 0.065 **

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

TABLE 14 ORGAN WEIGHTS OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animal	10	10	10	10	10	10
Body weight (g)	151 ± 17	150 ± 12	165 ± 13	157 ± 8	157 ± 10	146 ± 10
Lungs (g)	0.672 ± 0.039	0.661 ± 0.023	0.679 ± 0.034	0.682 ± 0.037	0.672 ± 0.038	0.622 ± 0.039 *
Lungs (%)	0.447 ± 0.035	0.442 ± 0.029	0.414 ± 0.023	0.436 ± 0.028	0.428 ± 0.018	0.427 ± 0.013
Kidneys (g)	1.074 ± 0.063	1.081 ± 0.063	1.119 ± 0.080	1.154 ± 0.061 *	1.200 ± 0.064 **	1.225 ± 0.060 **
Kidneys (%)	0.714 ± 0.044	0.721 ± 0.030	0.681 ± 0.031	0.738 ± 0.038	0.764 ± 0.051 *	0.842 ± 0.039 **
Liver (g)	3.563 ± 0.331	3.613 ± 0.281	4.193 ± 0.649 *	3.728 ± 0.193	3.641 ± 0.215	3.384 ± 0.269
Liver (%)	2.358 ± 0.067	2.408 ± 0.063	2.539 ± 0.251	2.382 ± 0.080	2.316 ± 0.055	2.320 ± 0.055
Brain (g)	1.743 ± 0.047	1.726 ± 0.065	1.740 ± 0.053	1.741 ± 0.038	1.731 ± 0.048	1.695 ± 0.046
Brain (%)	1.163 ± 0.116	1.155 ± 0.072	1.061 ± 0.070 *	1.114 ± 0.061	1.103 ± 0.051	1.167 ± 0.066

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

TABLE 15 INCIDENCES OF SELECTED LESIONS OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control				625 ppm				1250 ppm				2500 ppm				5000 ppm				10000 ppm			
Number of examined animals	10				10				10				10				10				10			
Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
kidney	<10>				<10>				<10>				<10>				<10>				<10>			
degeneration:papilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0 **	8	0	0	0 **

Grade 1: Slight 2 : Moderate 3 : Marked 4 :Severe
< > : Number of animals examined at the site
Significant difference : * : p≦ 0.05 ** : p≦ 0.01 Test of Chi Square

TABLE 16 INCIDENCES OF SELECTED LESIONS OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF 2-AMINOETHANOL

Group Name	Control				625 ppm				1250 ppm				2500 ppm				5000 ppm				10000 ppm			
Number of examined animals	10				10				10				10				10				10			
Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
kidney	<10>				<10>				<10>				<10>				<10>				<10>			
degeneration:papilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0 *	10	0	0	0 **

Grade 1: Slight 2 : Moderate 3 : Marked 4 :Severe
< > : Number of animals examined at the site
Significant difference : * : p≦ 0.05 ** : p≦ 0.01 Test of Chi Square