

アセト酢酸メチルのマウス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： 0427

TABLES

TABLES

TABLE 1	SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 2	SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 3	WATER CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 4	WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 5	FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 6	FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 7	BIOCHEMISTRY OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOAVETATE
TABLE 8	BIOCHEMISTRY OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 9	URINALYSIS OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACTATE
TABLE 10	URINALYSIS OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE
TABLE 11	ORGAN WEIGHTS OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE
IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Wt. <10>	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.
0	22.9 (10)	10 / 10	22.9 (10)	100	10 / 10	22.9 (10)	100	10 / 10	22.9 (10)	100	10 / 10	22.9 (10)	100	10 / 10	22.9 (10)	100	10 / 10
1	24.0 (10)	10 / 10	23.9 (10)	100	10 / 10	24.0 (10)	100	10 / 10	24.0 (10)	100	10 / 10	23.4 (10)	98	10 / 10	24.0 (10)	100	10 / 10
2	25.0 (10)	10 / 10	25.1 (10)	100	10 / 10	25.0 (10)	100	10 / 10	24.9 (10)	100	10 / 10	24.7 (10)	99	10 / 10	25.4 (10)	102	10 / 10
3	25.9 (10)	10 / 10	26.1 (10)	101	10 / 10	25.5 (10)	98	10 / 10	25.7 (10)	99	10 / 10	25.7 (10)	99	10 / 10	25.9 (10)	100	10 / 10
4	27.3 (10)	10 / 10	27.3 (10)	100	10 / 10	26.8 (10)	98	10 / 10	26.9 (10)	99	10 / 10	26.9 (10)	99	10 / 10	27.2 (10)	100	10 / 10
5	27.8 (10)	10 / 10	27.3 (10)	98	10 / 10	27.4 (10)	99	10 / 10	27.4 (10)	99	10 / 10	27.4 (10)	99	10 / 10	27.4 (10)	99	10 / 10
6	28.9 (10)	10 / 10	28.6 (10)	99	10 / 10	28.1 (10)	97	10 / 10	28.6 (10)	99	10 / 10	28.6 (10)	99	10 / 10	28.4 (10)	98	10 / 10
7	29.4 (10)	10 / 10	29.3 (10)	100	10 / 10	29.2 (10)	99	10 / 10	29.2 (10)	99	10 / 10	29.2 (10)	99	10 / 10	29.2 (10)	99	10 / 10
8	30.7 (10)	10 / 10	30.2 (10)	98	10 / 10	30.1 (10)	98	10 / 10	30.4 (10)	99	10 / 10	30.3 (10)	99	10 / 10	30.0 (10)	98	10 / 10
9	31.5 (10)	10 / 10	31.1 (10)	99	10 / 10	30.7 (10)	97	10 / 10	31.2 (10)	99	10 / 10	31.1 (10)	99	10 / 10	30.4 (10)	97	10 / 10
10	32.3 (10)	10 / 10	32.2 (10)	100	10 / 10	31.9 (10)	99	10 / 10	32.5 (10)	101	10 / 10	32.4 (10)	100	10 / 10	31.6 (10)	98	10 / 10
11	33.1 (10)	10 / 10	32.9 (10)	99	10 / 10	32.7 (10)	99	10 / 10	33.2 (10)	100	10 / 10	32.9 (10)	99	10 / 10	32.3 (10)	98	10 / 10
12	33.8 (10)	10 / 10	33.5 (10)	99	10 / 10	33.4 (10)	99	10 / 10	33.8 (10)	100	10 / 10	33.9 (10)	100	10 / 10	33.3 (10)	99	10 / 10
13	34.1 (10)	10 / 10	33.8 (10)	99	10 / 10	33.7 (10)	99	10 / 10	34.1 (10)	100	10 / 10	34.0 (10)	100	10 / 10	33.3 (10)	98	10 / 10

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

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE
IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Wt. <10>	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.
0	18.8 (10)	10 / 10	18.8 (10)	100	10 / 10	18.8 (10)	100	10 / 10	18.8 (10)	100	10 / 10	18.8 (10)	100	10 / 10	18.8 (10)	100	10 / 10
1	19.4 (10)	10 / 10	19.3 (10)	99	10 / 10	19.4 (10)	100	10 / 10	18.8 (10)	97	10 / 10	19.2 (10)	99	10 / 10	19.3 (10)	99	10 / 10
2	19.9 (10)	10 / 10	20.3 (10)	102	10 / 10	20.2 (10)	102	10 / 10	19.8 (10)	99	10 / 10	20.2 (10)	102	10 / 10	20.1 (10)	101	10 / 10
3	20.6 (10)	10 / 10	20.5 (10)	100	10 / 10	20.8 (10)	101	10 / 10	20.3 (10)	99	10 / 10	20.2 (10)	98	10 / 10	20.7 (10)	100	10 / 10
4	20.9 (10)	10 / 10	21.0 (10)	100	10 / 10	21.4 (10)	102	10 / 10	20.7 (10)	99	10 / 10	21.3 (10)	102	10 / 10	21.4 (10)	102	10 / 10
5	21.5 (10)	10 / 10	21.7 (10)	101	10 / 10	21.4 (10)	100	10 / 10	21.0 (10)	98	10 / 10	21.4 (10)	100	10 / 10	21.8 (10)	101	10 / 10
6	21.9 (10)	10 / 10	22.3 (10)	102	10 / 10	21.9 (10)	100	10 / 10	21.5 (10)	98	10 / 10	22.3 (10)	102	10 / 10	22.2 (10)	101	10 / 10
7	22.5 (10)	10 / 10	22.7 (10)	101	10 / 10	22.6 (10)	100	10 / 10	21.7 (10)	96	10 / 10	22.3 (10)	99	10 / 10	22.6 (10)	100	10 / 10
8	22.9 (10)	10 / 10	23.1 (10)	101	10 / 10	22.4 (10)	98	10 / 10	22.3 (10)	97	10 / 10	23.5 (10)	103	10 / 10	23.2 (10)	101	10 / 10
9	23.5 (10)	10 / 10	23.5 (10)	100	10 / 10	23.4 (10)	100	10 / 10	22.7 (10)	97	10 / 10	23.7 (10)	101	10 / 10	23.5 (10)	100	10 / 10
10	23.8 (10)	10 / 10	24.0 (10)	101	10 / 10	23.3 (10)	98	10 / 10	23.2 (10)	97	10 / 10	23.6 (10)	99	10 / 10	24.2 (10)	102	10 / 10
11	24.0 (10)	10 / 10	24.0 (10)	100	10 / 10	24.1 (10)	100	10 / 10	23.4 (10)	98	10 / 10	24.2 (10)	101	10 / 10	23.9 (10)	100	10 / 10
12	24.5 (10)	10 / 10	24.3 (10)	99	10 / 10	24.2 (10)	99	10 / 10	24.0 (10)	98	10 / 10	24.5 (10)	100	10 / 10	24.9 (10)	102	10 / 10
13	24.8 (10)	10 / 10	24.9 (10)	100	10 / 10	24.1 (10)	97	10 / 10	23.5 (10)	95	10 / 10	24.5 (10)	99	10 / 10	24.5 (10)	99	10 / 10

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

TABLE 3 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 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	4.4 (10)	10 / 10	5.1 (10)	116	10 / 10	4.6 (#)	105	10 / 10	4.1 (10)	93	10 / 10	5.0 (10)	114	10 / 10	4.4 (10)	100	10 / 10
2	4.3 (10)	10 / 10	4.9 (10)	114	10 / 10	4.7 (9)	109	10 / 10	4.1 (10)	95	10 / 10	4.9 (9)	114	10 / 10	4.7 (10)	109	10 / 10
3	4.1 (10)	10 / 10	4.7 (10)	115	10 / 10	4.4 (9)	107	10 / 10	4.0 (10)	98	10 / 10	4.6 (9)	112	10 / 10	4.6 (9)	112	10 / 10
4	4.0 (10)	10 / 10	4.3 (10)	108	10 / 10	4.1 (9)	103	10 / 10	4.0 (10)	100	10 / 10	4.3 (9)	108	10 / 10	4.6 (10)	115	10 / 10
5	3.9 (10)	10 / 10	4.3 (10)	110	10 / 10	4.1 (9)	105	10 / 10	3.9 (10)	100	10 / 10	4.3 (9)	110	10 / 10	4.4 (9)	113	10 / 10
6	3.9 (10)	10 / 10	4.3 (10)	110	10 / 10	4.0 (9)	103	10 / 10	3.9 (10)	100	10 / 10	4.2 (9)	108	10 / 10	4.3 (9)	110	10 / 10
7	3.7 (10)	10 / 10	4.1 (10)	111	10 / 10	4.2 (#)	114	10 / 10	3.7 (10)	100	10 / 10	3.8 (9)	103	10 / 10	4.1 (10)	111	10 / 10
8	3.7 (10)	10 / 10	4.2 (10)	114	10 / 10	3.9 (9)	105	10 / 10	3.9 (10)	105	10 / 10	3.8 (9)	103	10 / 10	4.1 (10)	111	10 / 10
9	3.6 (10)	10 / 10	4.1 (10)	114	10 / 10	4.0 (#)	111	10 / 10	3.7 (10)	103	10 / 10	4.0 (10)	111	10 / 10	4.0 (10)	111	10 / 10
10	3.5 (10)	10 / 10	4.0 (10)	114	10 / 10	3.6 (9)	103	10 / 10	3.6 (10)	103	10 / 10	3.8 (10)	109	10 / 10	4.1 (10)	117	10 / 10
11	3.5 (10)	10 / 10	3.8 (10)	109	10 / 10	4.0 (#)	114	10 / 10	3.8 (10)	109	10 / 10	3.8 (10)	109	10 / 10	4.0 (10)	114	10 / 10
12	3.5 (10)	10 / 10	3.8 (10)	109	10 / 10	3.9 (#)	111	10 / 10	3.6 (10)	103	10 / 10	3.8 (10)	109	10 / 10	4.0 (10)	114	10 / 10
13	3.7 (10)	10 / 10	4.0 (10)	108	10 / 10	3.9 (#)	105	10 / 10	3.8 (10)	103	10 / 10	3.9 (10)	105	10 / 10	4.0 (10)	108	10 / 10

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

TABLE 4 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 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	4.5 (10)	10 / 10	4.2 (10)	93	10 / 10	4.4 (#)	98	10 / 10	3.9 (10)	87	10 / 10	3.7 (10)	82	10 / 10	3.8 (10)	84	10 / 10
2	4.8 (10)	10 / 10	4.4 (10)	92	10 / 10	4.5 (#)	94	10 / 10	4.1 (10)	85	10 / 10	4.0 (10)	83	10 / 10	4.1 (10)	85	10 / 10
3	4.4 (10)	10 / 10	4.2 (10)	95	10 / 10	4.3 (#)	98	10 / 10	3.9 (10)	89	10 / 10	3.9 (10)	89	10 / 10	4.0 (10)	91	10 / 10
4	4.2 (10)	10 / 10	4.2 (10)	100	10 / 10	4.3 (#)	102	10 / 10	4.0 (10)	95	10 / 10	4.0 (10)	95	10 / 10	3.8 (10)	90	10 / 10
5	4.0 (10)	10 / 10	4.1 (10)	103	10 / 10	4.1 (#)	103	10 / 10	4.0 (10)	100	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10
6	4.1 (10)	10 / 10	4.2 (10)	102	10 / 10	4.3 (#)	105	10 / 10	4.2 (10)	102	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10
7	4.0 (10)	10 / 10	4.0 (10)	100	10 / 10	4.3 (#)	108	10 / 10	4.0 (10)	100	10 / 10	4.0 (10)	100	10 / 10	3.7 (10)	93	10 / 10
8	4.2 (10)	10 / 10	4.2 (10)	100	10 / 10	4.4 (#)	105	10 / 10	4.1 (10)	98	10 / 10	4.2 (10)	100	10 / 10	3.8 (10)	90	10 / 10
9	4.2 (10)	10 / 10	4.2 (10)	100	10 / 10	4.5 (#)	107	10 / 10	4.1 (10)	98	10 / 10	4.1 (10)	98	10 / 10	3.9 (10)	93	10 / 10
10	4.2 (10)	10 / 10	4.3 (10)	102	10 / 10	4.2 (#)	100	10 / 10	4.1 (10)	98	10 / 10	4.0 (10)	95	10 / 10	3.9 (10)	93	10 / 10
11	4.3 (10)	10 / 10	4.2 (10)	98	10 / 10	4.5 (#)	105	10 / 10	4.1 (10)	95	10 / 10	4.0 (10)	93	10 / 10	3.6 (10)	84	10 / 10
12	4.4 (10)	10 / 10	4.3 (10)	98	10 / 10	4.3 (#)	98	10 / 10	4.1 (10)	93	10 / 10	3.9 (10)	89	10 / 10	3.6 (10)	82	10 / 10
13	4.3 (10)	10 / 10	4.3 (10)	100	10 / 10	4.0 (#)	93	10 / 10	4.1 (10)	95	10 / 10	4.0 (10)	93	10 / 10	3.9 (10)	91	10 / 10

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

TABLE 5 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Fc. <10>	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.
1	3.9 (10)	10 / 10	4.0 (10)	103	10 / 10	3.9 (10)	100	10 / 10	3.8 (10)	97	10 / 10	3.9 (10)	100	10 / 10	3.9 (10)	100	10 / 10
2	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	3.8 (10)	95	10 / 10	3.8 (10)	95	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10
3	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	3.8 (10)	95	10 / 10	3.8 (10)	95	10 / 10	3.9 (10)	98	10 / 10	3.7 (10)	93	10 / 10
4	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10
5	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	3.9 (10)	98	10 / 10	3.9 (10)	98	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10
6	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	3.9 (10)	98	10 / 10	3.9 (10)	98	10 / 10	4.1 (10)	103	10 / 10	4.0 (10)	100	10 / 10
7	4.0 (10)	10 / 10	4.0 (10)	100	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10
8	4.1 (10)	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10
9	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10
10	4.0 (10)	10 / 10	4.1 (10)	103	10 / 10	4.0 (10)	100	10 / 10	4.0 (10)	100	10 / 10	4.1 (10)	103	10 / 10	4.0 (10)	100	10 / 10
11	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	4.1 (10)	98	10 / 10	4.2 (10)	100	10 / 10	4.1 (10)	98	10 / 10	4.0 (10)	95	10 / 10
12	4.1 (10)	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	5.0 (10)	122	10 / 10	4.9 (10)	120	10 / 10
13	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	4.0 (10)	95	10 / 10	4.1 (10)	98	10 / 10	4.1 (10)	98	10 / 10	3.9 (10)	93	10 / 10

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

TABLE 6 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Fc. <10>	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.	Av. Fc. <10>	% of cont.	No. of Surviv.
1	3.4 (10)	10 / 10	3.4 (10)	100	10 / 10	3.5 (10)	103	10 / 10	3.2 (10)	94	10 / 10	3.2 (10)	94	10 / 10	3.3 (10)	97	10 / 10
2	3.3 (10)	10 / 10	3.5 (10)	106	10 / 10	3.4 (10)	103	10 / 10	3.3 (10)	100	10 / 10	3.3 (10)	100	10 / 10	3.2 (10)	97	10 / 10
3	3.4 (10)	10 / 10	3.5 (10)	103	10 / 10	3.6 (10)	106	10 / 10	3.4 (10)	100	10 / 10	3.3 (10)	97	10 / 10	3.3 (10)	97	10 / 10
4	3.5 (10)	10 / 10	3.5 (10)	100	10 / 10	3.5 (10)	100	10 / 10	3.4 (10)	97	10 / 10	3.5 (10)	100	10 / 10	3.3 (10)	94	10 / 10
5	3.5 (10)	10 / 10	3.7 (10)	106	10 / 10	3.7 (10)	106	10 / 10	3.5 (10)	100	10 / 10	3.5 (10)	100	10 / 10	3.4 (10)	97	10 / 10
6	3.6 (10)	10 / 10	3.7 (10)	103	10 / 10	3.6 (10)	100	10 / 10	3.4 (10)	94	10 / 10	3.6 (10)	100	10 / 10	3.4 (10)	94	10 / 10
7	3.6 (10)	10 / 10	3.7 (10)	103	10 / 10	3.8 (10)	106	10 / 10	3.6 (10)	100	10 / 10	3.6 (10)	100	10 / 10	3.5 (10)	97	10 / 10
8	3.6 (10)	10 / 10	3.8 (10)	106	10 / 10	3.6 (10)	100	10 / 10	3.6 (10)	100	10 / 10	3.7 (10)	103	10 / 10	3.5 (10)	97	10 / 10
9	3.7 (10)	10 / 10	3.9 (10)	105	10 / 10	3.8 (10)	103	10 / 10	3.5 (10)	95	10 / 10	3.6 (10)	97	10 / 10	3.4 (10)	92	10 / 10
10	3.6 (10)	10 / 10	3.8 (10)	106	10 / 10	3.7 (10)	103	10 / 10	3.7 (10)	103	10 / 10	3.5 (10)	97	10 / 10	3.4 (10)	94	10 / 10
11	3.7 (10)	10 / 10	3.7 (10)	100	10 / 10	3.9 (10)	105	10 / 10	3.7 (10)	100	10 / 10	3.8 (10)	103	10 / 10	3.4 (10)	92	10 / 10
12	3.7 (10)	10 / 10	3.8 (10)	103	10 / 10	3.8 (10)	103	10 / 10	3.7 (10)	100	10 / 10	3.6 (10)	97	10 / 10	3.5 (10)	95	10 / 10
13	3.7 (10)	10 / 10	3.8 (10)	103	10 / 10	3.7 (10)	100	10 / 10	3.5 (10)	95	10 / 10	3.7 (10)	100	10 / 10	3.4 (10)	92	10 / 10

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

TABLE 7 BIOCHEMISTRY OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOAVETATE

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals	10	10	10	10	10	10
Total protein (g/dL)	5.3 ± 0.2	5.3 ± 0.3	5.3 ± 0.1	5.2 ± 0.1	5.2 ± 0.2	5.0 ± 0.2 **
Albumin (g/dL)	3.2 ± 0.1	3.2 ± 0.1	3.2 ± 0.1	3.1 ± 0.1	3.1 ± 0.2	3.0 ± 0.1 **
Mean ± S.D.						
*) Significant difference, p<0.05 (Test of Dunnett)						
**) Significant difference, p<0.01 (Test of Dunnett)						

TABLE 8 BIOCHEMISTRY OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOAVETATE

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals	10	10	10	10	10	10
Total protein (g/dL)	5.2 ± 0.2	5.3 ± 0.1	5.1 ± 0.2	5.0 ± 0.1 *	5.2 ± 0.1	5.0 ± 0.2 *
Albumin (g/dL)	3.5 ± 0.1	3.4 ± 0.1	3.3 ± 0.2	3.4 ± 0.1	3.4 ± 0.1	3.3 ± 0.1 *
Urea Nitrogen (mg/dL)	27.0 ± 4.6	23.6 ± 1.9	23.1 ± 2.2	27.3 ± 3.2	24.8 ± 2.5	22.3 ± 1.7 **
Calcium (mg/dL)	9.1 ± 0.2	9.0 ± 0.2	8.9 ± 0.2	8.8 ± 0.4	9.0 ± 0.2	8.8 ± 0.1 *
Mean ± S.D.						
*) Significant difference, p<0.05 (Test of Dunnett)						
**) Significant difference, p<0.01 (Test of Dunnett)						

TABLE 9 URINALYSIS OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACTATE

Group		Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
Number of examined animals		10	10	10	10	10	10
	Grade						
Ketone body	—	2	5	4	1 *	3	1
	±	2	4	3	8	2	3
	+	6	1	3	1	4	5
	2+	0	0	0	0	1	1
	3+	0	0	0	0	0	0
	4+	0	0	0	0	0	0
Significant difference : * : p<0.05 ** : p<0.01 Chi square test							

TABLE 10 URINALYSIS OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACTATE

Group		Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
Number of examined animals		10	10	10	10	10	9
	Grade						
pH	6.0	0	0	0	0	0 *	0
	6.5	1	1	2	1	0	1
	7.0	2	2	1	3	4	3
	7.5	0	3	0	3	4	1
	8.0	7	4	7	3	2	4
	8.5	0	0	0	0	0	1
Ketone body	—	0	0	0	0	0	0 **
	±	8	8	8	8	4	1
	+	2	1	2	2	5	1
	2+	0	1	0	0	1	5
	3+	0	0	0	0	0	2
	4+	0	0	0	0	0	1
Significant difference : * : p<0.05 ** : p<0.01 Chi square test							

TABLE 11 ORGAN WEIGHTS OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals	10	10	10	10	10	10
Body weight (g)	31.6 ± 2.9	31.3 ± 2.3	31.0 ± 2.7	31.7 ± 1.8	31.3 ± 2.1	30.9 ± 1.6
Kidneys (g)	0.421 ± 0.025	0.488 ± 0.242	0.733 ± 0.972	0.434 ± 0.022	0.446 ± 0.027	0.456 ± 0.017
Kidneys (%)	1.340 ± 0.114	1.574 ± 0.829	2.404 ± 3.253	1.373 ± 0.102	1.430 ± 0.106	1.475 ± 0.075 *

Mean ± S.D.

^{*)} Significant difference, p<0.05 (Test of Dunnett)

^{**)} Significant difference, p<0.01 (Test of Dunnett)