

アクリル酸=2 - ヒドロキシエチルのラットを用いた
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：0314

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

Week on Study	Control			512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	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.
0-0	125 (10)	10 / 10		125 (10)	100	10 / 10	125 (10)	100	10 / 10	125 (10)	100	10 / 10	125 (10)	100	10 / 10	125 (10)	100	10 / 10
1-3	137 (10)	10 / 10		136 (10)	99	10 / 10	133 (10)	97	10 / 10	117 (10)	85	10 / 10	105 (10)	77	10 / 10	102 (10)	74	10 / 10
1-7	155 (10)	10 / 10		152 (10)	98	10 / 10	149 (10)	96	10 / 10	124 (10)	80	10 / 10	90 (10)	58	10 / 10	82 (9)	53	9 / 10
2-3	166 (10)	10 / 10		163 (10)	98	10 / 10	159 (10)	96	10 / 10	133 (10)	80	10 / 10	81 (10)	49	10 / 10	69 (9)	42	9 / 10
2-7	183 (10)	10 / 10		180 (10)	98	10 / 10	174 (10)	95	10 / 10	147 (10)	80	10 / 10	71 (9)	39	9 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Wt.:g																		

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

Week on Study	Control			512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	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.
0-0	101 (10)	10 / 10		101 (10)	100	10 / 10	101 (10)	100	10 / 10	100 (10)	99	10 / 10	101 (10)	100	10 / 10	101 (10)	100	10 / 10
1-3	107 (10)	10 / 10		107 (10)	100	10 / 10	105 (10)	98	10 / 10	94 (10)	88	10 / 10	81 (10)	76	10 / 10	79 (10)	74	10 / 10
1-7	114 (10)	10 / 10		114 (10)	100	10 / 10	112 (10)	98	10 / 10	99 (10)	87	10 / 10	69 (10)	61	10 / 10	62 (8)	54	8 / 10
2-3	119 (10)	10 / 10		120 (10)	101	10 / 10	117 (10)	98	10 / 10	105 (10)	88	10 / 10	62 (10)	52	10 / 10	57 (4)	48	1 / 10
2-7	127 (10)	10 / 10		126 (10)	99	10 / 10	125 (10)	98	10 / 10	112 (10)	88	10 / 10	58 (4)	46	4 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Wt.:g																		

TABLE 3 WATER CONSUMPTION CHANGES OF MALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF 2-HYDROXYETHYL ACRYLATE

Week on Study	Control		512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	Av. Wc. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>
1-3	17.0 (10)	10 / 10	15.1 (10)	89	10 / 10	12.9 (10)	76	10 / 10	6.3 (10)	37	10 / 10	1.9 (10)	11	10 / 10	1.2 (10)	7	10 / 10
1-7	17.0 (10)	10 / 10	14.3 (10)	84	10 / 10	12.2 (10)	72	10 / 10	8.0 (10)	47	10 / 10	1.9 (10)	11	10 / 10	0.8 (9)	5	9 / 10
2-3	17.6 (9)	10 / 10	14.1 (10)	80	10 / 10	12.5 (10)	71	10 / 10	9.0 (10)	51	10 / 10	2.0 (10)	11	10 / 10	0.7 (9)	4	9 / 10
2-7	17.7 (10)	10 / 10	14.3 (10)	81	10 / 10	12.4 (10)	70	10 / 10	9.3 (10)	53	10 / 10	1.6 (9)	9	9 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Wc.:g																	

TABLE 4 WATER CONSUMPTION CHANGES OF FEMALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF 2-HYDROXYETHYL ACRYLATE

Week on Study	Control		512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	Av. Wc. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>	Av. Wc. <10>	% of cont. <10>	No. of Surviv. <10>
1-3	15.0 (10)	10 / 10	13.4 (10)	89	10 / 10	11.0 (10)	73	10 / 10	6.0 (10)	40	10 / 10	1.6 (10)	11	10 / 10	1.1 (10)	7	10 / 10
1-7	14.4 (10)	10 / 10	13.3 (10)	92	10 / 10	9.9 (10)	69	10 / 10	7.7 (10)	53	10 / 10	2.2 (10)	15	10 / 10	0.8 (8)	6	8 / 10
2-3	14.6 (10)	10 / 10	12.4 (10)	85	10 / 10	9.7 (10)	66	10 / 10	7.8 (10)	53	10 / 10	2.0 (10)	14	10 / 10	1.1 (1)	8	1 / 10
2-7	16.0 (10)	10 / 10	15.1 (10)	94	10 / 10	10.0 (10)	63	10 / 10	7.9 (10)	49	10 / 10	1.8 (4)	11	4 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Wc.:g																	

TABLE 5 FOOD CONSUMPTION CHANGES OF MALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF 2-HYDROXYETHYL ACRYLATE

Week on Study	Control		512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	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	13.8 (10)	10 / 10	13.3 (10)	96	10 / 10	12.7 (10)	92	10 / 10	9.2 (10)	67	10 / 10	6.3 (10)	46	10 / 10	5.4 (10)	39	10 / 10
1-7	14.2 (10)	10 / 10	13.4 (10)	94	10 / 10	12.8 (10)	90	10 / 10	9.4 (10)	66	10 / 10	3.8 (10)	27	10 / 10	2.4 (9)	17	9 / 10
2-3	14.9 (10)	10 / 10	14.2 (10)	95	10 / 10	14.1 (10)	95	10 / 10	11.2 (10)	75	10 / 10	4.8 (10)	32	10 / 10	3.9 (9)	26	9 / 10
2-7	15.1 (10)	10 / 10	14.5 (10)	96	10 / 10	13.7 (10)	91	10 / 10	11.7 (10)	77	10 / 10	4.3 (9)	28	9 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Fc.:g																	

TABLE 6 FOOD CONSUMPTION CHANGES OF FEMALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF 2-HYDROXYETHYL ACRYLATE

Week on Study	Control		512ppm			1280ppm			3200ppm			8000ppm			20000ppm		
	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	11.0 (10)	10 / 10	10.7 (10)	97	10 / 10	9.6 (10)	87	10 / 10	7.1 (10)	65	10 / 10	3.9 (10)	35	10 / 10	3.5 (10)	32	10 / 10
1-7	10.9 (10)	10 / 10	10.7 (10)	98	10 / 10	9.7 (10)	89	10 / 10	8.7 (10)	80	10 / 10	3.2 (10)	29	10 / 10	2.6 (8)	24	8 / 10
2-3	10.8 (10)	10 / 10	10.5 (10)	97	10 / 10	10.3 (10)	95	10 / 10	9.5 (10)	88	10 / 10	4.0 (10)	37	10 / 10	2.3 (1)	21	1 / 10
2-7	11.3 (10)	10 / 10	10.9 (10)	96	10 / 10	10.4 (10)	92	10 / 10	9.6 (10)	85	10 / 10	4.2 (4)	37	4 / 10	— ()	—	0 / 10
< > : No.of effective animals, () : No.of measured animals Av.Fc.:g																	