

Experiment Number: 378562

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acrylic acid

CAS Number: 79-10-7

Date Report Requested: 09/14/2018

Time Report Requested: 03:39:22

NTP Study Number:

378562

Study Result:

Negative

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Test Compound: Acrylic acid

CAS Number: 79-10-7

Date Report Requested: 09/14/2018

Time Report Requested: 03:39:22

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	98 ± 6.6	129 ± 6.7	103 ± 5.0	106 ± 14.2	147 ± 18.8
33.0	97 ± 5.2	126 ± 0.9	126 ± 7.9	89 ± 5.9	150 ± 4.2
100.0	96 ± 0.9	139 ± 1.9	123 ± 4.7	93 ± 2.0	143 ± 16.9
333.0	79 ± 2.8	125 ± 3.8	100 ± 1.0	75 ± 1.7	116 ± 1.7
1000.0	60 ± 5.2	105 ± 4.0	87 ± 5.7	71 ± 2.1	92 ± 2.6
3333.0	Toxic	32 ± 7.1	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1440 ± 91.2
Positive Control ³	437 ± 39.0	1336 ± 16.0	1426 ± 124.0	1394 ± 62.0	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	163 ± 4.2	158 ± 1.0	135 ± 9.8	180 ± 6.4	185 ± 15.3
33.0	162 ± 7.4	158 ± 9.3	139 ± 13.3	155 ± 12.5	182 ± 5.9
100.0	169 ± 10.1	142 ± 15.8	132 ± 11.0	144 ± 8.1	160 ± 7.1
333.0	181 ± 9.9	136 ± 10.0	127 ± 18.0	136 ± 11.6	166 ± 7.9
1000.0	188 ± 7.4	108 ± 9.9	93 ± 3.6	110 ± 0.6	173 ± 7.1
3333.0	47 ± 8.6	Toxic	Toxic	Toxic	73 ± 11.9
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²	1020 ± 26.8	891 ± 77.3	1387 ± 70.3	1706 ± 91.9	1714 ± 185.3
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	163 ± 5.5	136 ± 4.1
33.0	168 ± 7.8	152 ± 7.1
100.0	186 ± 3.8	148 ± 3.2
333.0	179 ± 16.0	152 ± 0.7
1000.0	122 ± 4.3	118 ± 8.4
3333.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ²	1001 ± 44.0	2580 ± 36.6
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	13 ± 1.5	24 ± 2.9	11 ± 0.9	6 ± 0.6	16 ± 0.9
33.0	21 ± 1.9	25 ± 0.7	8 ± 0.9	6 ± 0.7	20 ± 3.3
100.0	16 ± 2.7	24 ± 3.8	12 ± 0.9	7 ± 1.8	16 ± 0.6
333.0	12 ± 2.7	20 ± 3.8	8 ± 0.3	6 ± 2.1	13 ± 1.3
1000.0	4 ± 0.3	14 ± 4.0	5 ± 0.7	4 ± 0.3	12 ± 2.3
3333.0	7 ± 1.2	10 ± 2.5	5 ± 1.2	0 ± 0.3	7 ± 1.5
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴					391 ± 12.3
Positive Control ³	1411 ± 33.8	1457 ± 54.4	730 ± 36.7	468 ± 86.2	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.3	9 ± 0.6	9 ± 0.6	17 ± 1.5	21 ± 0.9
33.0	27 ± 4.6	12 ± 0.9	12 ± 2.6	14 ± 2.2	18 ± 0.7
100.0	30 ± 5.0	9 ± 2.2	10 ± 0.9	15 ± 2.5	12 ± 0.9
333.0	26 ± 3.8	10 ± 0.6	6 ± 0.3	12 ± 0.6	15 ± 0.7
1000.0	22 ± 1.2	7 ± 1.2	6 ± 0.6	13 ± 0.0	16 ± 0.7
3333.0	0 ± 0.0	5 ± 1.2	Toxic	4 ± 0.7	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	470 ± 8.5	107 ± 13.1	213 ± 89.3	410 ± 69.1	260 ± 18.0
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.6	9 ± 0.7
33.0	10 ± 1.7	8 ± 0.3
100.0	9 ± 2.9	7 ± 2.4
333.0	11 ± 1.7	8 ± 2.7
1000.0	6 ± 0.9	9 ± 2.0
3333.0	2 ± 0.9	Toxic
Trial Summary	Negative	Negative
Positive Control ⁴	471 ± 44.1	423 ± 174.3
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	7 ± 1.0	6 ± 1.2	7 ± 1.2	6 ± 0.3	7 ± 0.9
3.3				6 ± 0.3	8 ± 0.0
10.0		13 ± 0.7		6 ± 1.2	10 ± 1.7
33.0	6 ± 0.9	15 ± 2.6	7 ± 1.5	4 ± 0.9	9 ± 0.3
100.0	5 ± 1.7	12 ± 2.0	7 ± 1.8	4 ± 0.9	6 ± 3.5
333.0	3 ± 0.9	13 ± 0.3	6 ± 0.6	5 ± 0.9	4 ± 1.3
1000.0	3 ± 0.7	13 ± 3.5	Toxic		
3333.0	0 ± 0.0		Toxic		
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁵	506 ± 101.9	1097 ± 52.2	648 ± 103.2	511 ± 7.7	570 ± 7.6

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	9 ± 2.4	20 ± 3.1	10 ± 2.0	7 ± 1.7	7 ± 1.2
3.3					
10.0				6 ± 1.5	11 ± 1.5
33.0	17 ± 0.6	22 ± 1.5	7 ± 0.9	5 ± 0.6	12 ± 1.2
100.0	19 ± 4.1	24 ± 2.1	9 ± 1.0	5 ± 1.5	12 ± 1.0
333.0	14 ± 1.2	19 ± 3.8	11 ± 1.5	7 ± 0.6	11 ± 2.5
1000.0	8 ± 2.1	22 ± 2.0	Toxic	4 ± 0.6	12 ± 1.3
3333.0	3 ± 1.2	Toxic	3 ± 1.5		
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴	301 ± 27.6	759 ± 11.0	198 ± 25.8	261 ± 19.3	208 ± 4.0
Positive Control ⁵					

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.8	17 ± 1.8	13 ± 1.5	7 ± 1.5	7 ± 1.2
3.3					
10.0				5 ± 0.3	10 ± 3.5
33.0	12 ± 2.0	27 ± 2.3	12 ± 1.5	5 ± 1.5	13 ± 1.0
100.0	10 ± 3.2	21 ± 2.7	10 ± 1.8	3 ± 1.2	11 ± 1.7
333.0	11 ± 0.7	20 ± 0.7	8 ± 1.0	7 ± 0.7	10 ± 2.5
1000.0	9 ± 0.3	23 ± 3.1	Toxic	6 ± 1.5	9 ± 0.9
3333.0	1 ± 1.3	Toxic	0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	319 ± 27.5	593 ± 20.7	164 ± 7.8	258 ± 124.0	244 ± 11.7
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	10 ± 0.3	26 ± 2.7	19 ± 1.5	13 ± 1.2	15 ± 2.3
10.0				15 ± 2.4	
33.0	15 ± 1.3	21 ± 1.7	16 ± 0.7	14 ± 0.7	15 ± 2.5
100.0	9 ± 1.7	22 ± 5.9	13 ± 0.7	11 ± 1.7	13 ± 2.4
333.0	12 ± 1.0	24 ± 1.5	12 ± 1.5	14 ± 1.2	91 ± 9.8
1000.0	10 ± 2.1	22 ± 1.7	8 ± 2.5	10 ± 3.5	108 ± 4.1
3333.0	Toxic	Toxic	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²					1398 ± 71.0
Positive Control ⁶	184 ± 11.9	246 ± 10.8	249 ± 8.5	317 ± 13.4	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	39 ± 4.5	16 ± 1.2	21 ± 1.8	20 ± 0.3	45 ± 1.8
10.0					
33.0	26 ± 3.2	21 ± 2.2	26 ± 1.2	14 ± 2.2	43 ± 3.8
100.0	29 ± 4.2	16 ± 2.6	15 ± 1.0	11 ± 0.9	42 ± 1.5
333.0	33 ± 2.2	20 ± 2.7	16 ± 1.5	12 ± 2.3	43 ± 2.0
1000.0	33 ± 3.8	14 ± 3.2	16 ± 1.5	12 ± 1.5	41 ± 2.8
3333.0	Toxic	Toxic	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	1008 ± 48.8	364 ± 15.4	769 ± 116.6	1438 ± 62.9	1301 ± 159.8
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	20 ± 2.1
10.0		
33.0	20 ± 2.0	23 ± 3.4
100.0	24 ± 3.0	21 ± 3.0
333.0	17 ± 3.5	19 ± 4.8
1000.0	15 ± 1.8	17 ± 1.5
3333.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ²	612 ± 109.8	1476 ± 61.8
Positive Control ⁶		

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****