

Experiment Number: **340810**

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Acrylic acid**

CAS Number: **79-10-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **23:00:52**

NTP Study Number:

340810

Study Result:

Negative

Experiment Number: 340810
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Date Report Requested: 09/12/2018
 Time Report Requested: 23:00:52

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 4.7	122 ± 6.7	143 ± 3.8	171 ± 2.9	148 ± 4.2
10.0	148 ± 1.0	117 ± 6.6	138 ± 17.1	132 ± 10.3	125 ± 8.1
33.0	162 ± 6.7	138 ± 8.0	124 ± 4.7	141 ± 4.7	127 ± 8.5
100.0	147 ± 9.6	127 ± 2.0	119 ± 9.9	109 ± 6.7	126 ± 6.1
333.0	103 ± 16.2	105 ± 3.6	122 ± 11.7	134 ± 8.7	115 ± 9.6
666.0		116 ± 5.7	92 ± 10.4		92 ± 9.0
1000.0	53 ± 24.6			123 ± 9.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1252 ± 58.4
Positive Control ³			556 ± 44.8		
Positive Control ⁴				381 ± 23.1	
Positive Control ⁵	312 ± 8.7	501 ± 28.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	146 ± 12.7
10.0	163 ± 9.3
33.0	162 ± 9.9
100.0	138 ± 18.0
333.0	132 ± 8.0
666.0	
1000.0	119 ± 12.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	510 ± 18.2
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	11 ± 3.9	13 ± 3.5	16 ± 0.9	10 ± 1.7
10.0	11 ± 2.5	12 ± 4.7	13 ± 0.7	16 ± 3.3	8 ± 0.9
33.0	11 ± 0.6	10 ± 1.5	10 ± 1.2	11 ± 1.9	9 ± 2.3
100.0	10 ± 2.0	7 ± 1.2	8 ± 0.3	13 ± 2.0	13 ± 0.7
333.0	12 ± 1.2	8 ± 1.2	6 ± 1.7	14 ± 2.5	11 ± 2.6
666.0	12 ± 1.5	4 ± 0.9	6 ± 0.7		9 ± 2.6
1000.0				12 ± 3.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					77 ± 1.9
Positive Control ⁴			92 ± 11.3		
Positive Control ⁵	399 ± 4.9	633 ± 24.0			
Positive Control ⁶				54 ± 1.5	

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Date Report Requested: 09/12/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.3
10.0	14 ± 2.7
33.0	14 ± 1.5
100.0	11 ± 1.5
333.0	8 ± 1.5
666.0	
1000.0	9 ± 2.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	106 ± 11.8
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	222 ± 8.3	209 ± 3.3	202 ± 4.4	242 ± 4.0	202 ± 9.5
10.0	229 ± 5.5	224 ± 4.8	212 ± 8.3	247 ± 5.5	216 ± 8.4
33.0	228 ± 3.5	223 ± 9.8	205 ± 12.2	210 ± 12.5	224 ± 14.5
100.0	222 ± 13.6	194 ± 4.4	201 ± 4.7	235 ± 8.3	217 ± 10.0
333.0	217 ± 3.4	216 ± 4.6	202 ± 4.5	220 ± 5.8	183 ± 2.0
666.0	196 ± 9.6	222 ± 12.3	189 ± 5.7		176 ± 7.1
1000.0				197 ± 6.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					455 ± 17.1
Positive Control ³			347 ± 17.0		
Positive Control ⁴				322 ± 9.1	
Positive Control ⁷	534 ± 59.4	696 ± 40.2			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	205 ± 15.4	219 ± 9.6	223 ± 6.2
10.0	203 ± 8.3	235 ± 7.4	212 ± 0.3
33.0	226 ± 9.3	216 ± 9.7	211 ± 5.3
100.0	216 ± 12.9	211 ± 12.9	217 ± 9.1
333.0	241 ± 11.0	206 ± 6.6	219 ± 6.4
666.0	234 ± 2.0	194 ± 2.3	
1000.0			167 ± 16.8
Trial Summary	Negative	Negative	Negative
Positive Control ²	650 ± 45.4	374 ± 26.2	
Positive Control ³			322 ± 8.2
Positive Control ⁴			
Positive Control ⁷			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	37 ± 2.7	22 ± 0.7	23 ± 2.4	23 ± 2.2	21 ± 3.3
10.0	20 ± 3.8	24 ± 0.9	22 ± 3.3	23 ± 2.2	16 ± 0.6
33.0	19 ± 6.4	20 ± 2.9	28 ± 2.3	27 ± 1.7	20 ± 2.5
100.0	26 ± 4.8	23 ± 1.5	22 ± 3.2	19 ± 0.9	17 ± 3.0
333.0	23 ± 4.3	18 ± 0.6	21 ± 0.7	20 ± 2.0	21 ± 4.3
666.0		0 ± 0.0 ^s	24 ± 2.7		18 ± 2.9
1000.0	0 ± 0.0 ^s			15 ± 1.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1169 ± 108.8
Positive Control ³			352 ± 21.5	73 ± 0.7	
Positive Control ⁸	387 ± 24.9	524 ± 15.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 4.1
10.0	24 ± 2.1
33.0	21 ± 4.4
100.0	18 ± 0.6
333.0	20 ± 2.9
666.0	
1000.0	11 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	290 ± 20.6
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **