

Experiment Number: 906929

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: n-Hexyl methacrylate

CAS Number: 142-09-6

Date Report Requested: 09/16/2018

Time Report Requested: 23:47:07

**NTP Study Number:**

906929

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 8.4	195 ± 6.9	168 ± 3.8	201 ± 9.7	159 ± 2.6
3.0	118 ± 10.7	194 ± 11.0			
10.0	122 ± 7.0	208 ± 3.8			
33.0	96 ± 4.1	182 ± 14.6			
100.0	83 ± 6.9	189 ± 11.6	144 ± 6.7	203 ± 13.6	180 ± 5.7
333.0	Toxic	Toxic	137 ± 8.2	199 ± 6.1	160 ± 5.5
1000.0			143 ± 6.3	193 ± 12.1	140 ± 11.0
3333.0			178 ± 9.3	198 ± 9.6	144 ± 4.0
10000.0			185 ± 3.3	149 ± 6.4	144 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1190 ± 143.1	1780 ± 302.2	1590 ± 53.0
Positive Control <sup>3</sup>	1350 ± 39.2	1441 ± 81.6			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	190 ± 5.1
3.0	
10.0	
33.0	
100.0	184 ± 13.6
333.0	194 ± 14.7
1000.0	208 ± 18.0
3333.0	196 ± 14.4
10000.0	166 ± 17.0
Trial Summary	Negative
Positive Control <sup>2</sup>	2077 ± 244.2
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 0.9	23 ± 1.7	18 ± 1.5	23 ± 0.7	22 ± 0.6
3.0	14 ± 1.0	22 ± 1.7			
10.0	12 ± 0.6	25 ± 1.2			
33.0	15 ± 2.0	30 ± 0.9			
100.0	12 ± 0.9	29 ± 1.7	18 ± 1.2	25 ± 2.6	18 ± 2.5
333.0	10 ± 1.0	Toxic	15 ± 1.5	24 ± 0.3	21 ± 2.7
1000.0			14 ± 1.0	25 ± 0.3	23 ± 2.3
3333.0			18 ± 1.5	21 ± 2.2	27 ± 3.5
10000.0			14 ± 2.6	19 ± 0.9	20 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			345 ± 40.8	523 ± 55.8	412 ± 56.1
Positive Control <sup>3</sup>	1234 ± 26.3	1346 ± 42.4			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	26 ± 0.3
3.0	
10.0	
33.0	
100.0	30 ± 1.0
333.0	22 ± 3.2
1000.0	23 ± 1.2
3333.0	23 ± 2.7
10000.0	19 ± 2.8
Trial Summary	Negative
Positive Control <sup>4</sup>	755 ± 122.2
Positive Control <sup>3</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	10 ± 0.6	14 ± 2.3			25 ± 1.9
Vehicle Control <sup>5</sup>			9 ± 0.7	7 ± 1.3	
0.1				7 ± 0.9	
0.33				8 ± 1.7	
1.0			10 ± 0.6	7 ± 1.2	
3.0	7 ± 1.5	12 ± 0.9	8 ± 0.9	5 ± 0.7	
10.0	14 ± 1.2	12 ± 1.7	Toxic	4 ± 1.7	
33.0	7 ± 1.5	14 ± 0.9	Toxic	Toxic	
100.0	11 ± 2.7	Toxic	0 ± 0.0	Toxic	20 ± 3.0
333.0	Toxic	Toxic			18 ± 2.9
1000.0					22 ± 1.5
3333.0					18 ± 5.0
10000.0					15 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					471 ± 27.7
Positive Control <sup>6</sup>	115 ± 13.6	237 ± 24.0	395 ± 148.7	216 ± 50.7	

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## Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 0.6	30 ± 1.8	17 ± 2.1
Vehicle Control <sup>5</sup>			
0.1			
0.33			
1.0			
3.0			
10.0			
33.0			
100.0	18 ± 0.7	26 ± 0.9	22 ± 0.3
333.0	19 ± 2.1	22 ± 0.6	19 ± 3.8
1000.0	16 ± 1.8	27 ± 1.5	17 ± 1.2
3333.0	20 ± 0.9	14 ± 0.9	24 ± 2.0
10000.0	14 ± 0.9	8 ± 0.9	13 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>	434 ± 68.5	686 ± 19.9	558 ± 39.7
Positive Control <sup>6</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 3.8	30 ± 2.4	40 ± 1.5	43 ± 2.3	43 ± 5.9
3.0	22 ± 2.3	27 ± 2.3			
10.0	20 ± 3.2	29 ± 4.7			
33.0	20 ± 3.6	24 ± 2.6			
100.0	18 ± 3.2	24 ± 3.0	38 ± 2.9	40 ± 3.9	40 ± 0.3
333.0	Toxic	29 ± 3.9	39 ± 0.9	43 ± 2.6	28 ± 8.5
1000.0			38 ± 2.6	33 ± 3.8	31 ± 1.2
3333.0			36 ± 0.6	43 ± 0.9	33 ± 2.4
10000.0			33 ± 1.5	33 ± 3.1	31 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			579 ± 36.6	885 ± 65.0	1079 ± 86.1
Positive Control <sup>7</sup>	136 ± 13.4	215 ± 17.1			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	51 ± 2.7
3.0	
10.0	
33.0	
100.0	46 ± 4.8
333.0	46 ± 3.8
1000.0	44 ± 3.5
3333.0	42 ± 3.5
10000.0	37 ± 4.3
Trial Summary	Negative
Positive Control <sup>2</sup>	1178 ± 187.9
Positive Control <sup>7</sup>	

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#### LEGEND

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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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: Vehicle Control: 95% Ethanol
- 6: 33.0 ug/Plate 9-Aminoacridine
- 7: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*