

Experiment Number: 864609

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,6-Hexamethylene diacrylate

CAS Number: 13048-33-4

Date Report Requested: 09/16/2018

Time Report Requested: 15:48:31

**NTP Study Number:**

864609

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	145 ± 1.7	143 ± 8.9	125 ± 11.0	139 ± 7.2	119 ± 10.8
3.0	137 ± 6.5	145 ± 22.3			
10.0	134 ± 4.9	134 ± 18.2	133 ± 17.3	155 ± 8.2	128 ± 12.8
33.0	138 ± 2.6	146 ± 20.2	137 ± 6.1	155 ± 10.8	120 ± 9.0
100.0	119 ± 7.4	137 ± 11.4	134 ± 6.7	146 ± 9.0	136 ± 8.2
333.0	105 ± 2.9 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	112 ± 9.0	160 ± 10.3	124 ± 7.9
666.0				163 ± 9.0	
1000.0			46 ± 1.5 <sup>s</sup>		89 ± 0.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	441 ± 8.4	435 ± 21.4			
Positive Control <sup>3</sup>			981 ± 16.2	375 ± 20.0	2286 ± 41.8

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	154 ± 2.0
3.0	
10.0	168 ± 6.1
33.0	155 ± 14.4
100.0	142 ± 7.2
333.0	157 ± 3.5
666.0	140 ± 0.9
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	675 ± 43.9

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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 <sup>1</sup>	25 ± 0.7	30 ± 2.3	9 ± 1.5	16 ± 3.0	5 ± 1.2
3.0	20 ± 1.9	32 ± 0.9			
10.0	18 ± 3.0	30 ± 3.3	11 ± 1.2	15 ± 0.9	5 ± 0.9
33.0	18 ± 0.9	32 ± 2.9	7 ± 0.6	12 ± 0.3	6 ± 1.3
100.0	23 ± 1.5	31 ± 1.2	7 ± 1.5	20 ± 2.0	5 ± 0.0
333.0	15 ± 1.5 <sup>s</sup>	10 ± 2.4 <sup>s</sup>	9 ± 1.2	15 ± 1.5	7 ± 1.5
666.0				14 ± 0.7	
1000.0			4 ± 0.3 <sup>s</sup>		7 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	265 ± 8.2	455 ± 18.4			
Positive Control <sup>4</sup>			193 ± 11.9	149 ± 5.2	482 ± 35.4

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 2.2
3.0	
10.0	16 ± 1.5
33.0	11 ± 2.1
100.0	13 ± 0.3
333.0	11 ± 0.3
666.0	12 ± 1.5
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	612 ± 20.7

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	154 ± 8.9	168 ± 3.9	133 ± 5.2	191 ± 5.6	120 ± 4.4
3.0	161 ± 10.3	173 ± 1.2			
10.0	147 ± 4.0	169 ± 4.4	149 ± 6.7	199 ± 2.5	120 ± 5.4
33.0	154 ± 3.8	151 ± 11.8	146 ± 4.9	192 ± 6.7	110 ± 3.8
100.0	146 ± 12.1	159 ± 4.7	153 ± 5.8	202 ± 2.1	126 ± 6.4
333.0	120 ± 14.9 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	140 ± 6.3	183 ± 8.1	121 ± 4.4
666.0				169 ± 10.3	
1000.0			0 ± 0.0 <sup>s</sup>		80 ± 4.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1183 ± 12.0	565 ± 14.4	1431 ± 33.4
Positive Control <sup>5</sup>	1075 ± 37.7	1306 ± 80.9			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	177 ± 9.8
3.0	
10.0	191 ± 3.5
33.0	164 ± 19.2
100.0	173 ± 5.5
333.0	170 ± 11.9
666.0	161 ± 5.8
1000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	1238 ± 32.0
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	22 ± 1.5	22 ± 4.0	21 ± 1.7	44 ± 4.3	20 ± 2.1
3.0	25 ± 1.2	21 ± 1.5			
10.0	22 ± 2.0	25 ± 3.7	22 ± 3.0	44 ± 0.6	23 ± 4.0
33.0	21 ± 4.3	27 ± 3.9	26 ± 0.6	41 ± 1.8	21 ± 2.0
100.0	16 ± 2.8	25 ± 3.7	21 ± 3.0	41 ± 4.6	21 ± 3.7
333.0	10 ± 0.9 <sup>s</sup>	4 ± 1.9 <sup>s</sup>	15 ± 3.8	35 ± 1.8	18 ± 2.2
666.0				22 ± 3.8 <sup>s</sup>	
1000.0			0 ± 0.0 <sup>s</sup>		9 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			443 ± 17.7	187 ± 5.6	1184 ± 24.0
Positive Control <sup>6</sup>	1305 ± 76.7	1419 ± 38.7			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	43 ± 3.4
3.0	
10.0	41 ± 0.9
33.0	34 ± 3.0
100.0	37 ± 5.2
333.0	36 ± 2.5
666.0	37 ± 2.4
1000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	408 ± 49.7
Positive Control <sup>6</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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***