

Experiment Number: 479502

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Decyl methacrylate

CAS Number: 3179-47-3

Date Report Requested: 09/11/2018

Time Report Requested: 16:56:04

**NTP Study Number:**

479502

**Study Result:**

Negative

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Test Compound: Decyl methacrylate

CAS Number: 3179-47-3

Date Report Requested: 09/11/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	90 ± 4.0	101 ± 7.7	122 ± 8.3	176 ± 6.1	127 ± 5.3
33.0	85 ± 4.4	96 ± 7.5			
100.0	76 ± 4.3	88 ± 0.6	146 ± 10.6	133 ± 6.7	
333.0	83 ± 2.6	88 ± 0.9	88 ± 13.9	174 ± 4.3	
1000.0	74 ± 6.6	88 ± 4.5	97 ± 8.6	189 ± 6.9	125 ± 3.2
1667.0					127 ± 7.9
3333.0	Toxic	91 ± 1.3	93 ± 4.7	208 ± 8.3	130 ± 16.0
6667.0					122 ± 9.5
10000.0			100 ± 9.1 <sup>P</sup>	188 ± 5.2 <sup>P</sup>	116 ± 6.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>			935 ± 83.4	1057 ± 69.2	
Positive Control <sup>3</sup>					1634 ± 145.1
Positive Control <sup>4</sup>	1240 ± 61.1	988 ± 54.3			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	136 ± 6.0	171 ± 0.3	123 ± 3.1
33.0			
100.0	117 ± 5.5	172 ± 20.6	
333.0	118 ± 4.4	176 ± 8.5	
1000.0	139 ± 7.4	184 ± 5.0	104 ± 2.0
1667.0			120 ± 9.7
3333.0	150 ± 3.2	189 ± 9.7	120 ± 10.2
6667.0			118 ± 7.2
10000.0	153 ± 5.0 <sup>P</sup>	197 ± 13.1 <sup>P</sup>	126 ± 6.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	1283 ± 167.3	1481 ± 39.9	
Positive Control <sup>3</sup>			1550 ± 28.0
Positive Control <sup>4</sup>			

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	9 ± 2.5	9 ± 0.3	11 ± 1.2	27 ± 1.5	14 ± 2.3
33.0	9 ± 1.2	9 ± 2.9			15 ± 0.9
100.0	7 ± 0.3	10 ± 1.2	15 ± 1.5	36 ± 1.5	17 ± 0.6
333.0	7 ± 0.6	9 ± 1.8	7 ± 0.9	49 ± 4.3	18 ± 1.2
1000.0	5 ± 0.6	8 ± 2.0	6 ± 0.9	46 ± 3.7	15 ± 0.9
3333.0	3 ± 0.0	4 ± 0.9	7 ± 2.1	31 ± 3.2	14 ± 2.2
10000.0			4 ± 1.7 <sup>p</sup>	27 ± 2.6 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>3</sup>			129 ± 13.1	252 ± 24.1	436 ± 60.9
Positive Control <sup>4</sup>	259 ± 35.5	867 ± 68.1			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.9	26 ± 0.7
33.0		
100.0	14 ± 1.9	30 ± 4.5
333.0	13 ± 0.6	30 ± 4.4
1000.0	12 ± 1.7	26 ± 0.9
3333.0	8 ± 0.9	21 ± 2.7
10000.0	6 ± 1.2 <sup>p</sup>	16 ± 1.7 <sup>p</sup>
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	160 ± 31.2	283 ± 23.6
Positive Control <sup>4</sup>		

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 0.7	9 ± 0.9	15 ± 2.5	10 ± 0.6	13 ± 0.7
33.0	10 ± 0.7	6 ± 1.2			
100.0	4 ± 1.2	7 ± 0.7	6 ± 0.7	10 ± 2.7	10 ± 0.7
333.0	5 ± 1.5	6 ± 2.0	5 ± 1.7	11 ± 2.4	10 ± 0.7
1000.0	3 ± 0.9	5 ± 1.3	8 ± 1.2	8 ± 0.3	7 ± 1.5
3333.0	Toxic	2 ± 0.7	6 ± 2.0	14 ± 2.0	7 ± 1.5
10000.0			1 ± 0.6 <sup>p</sup>	9 ± 2.0 <sup>p</sup>	5 ± 0.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			261 ± 26.3	176 ± 17.9	174 ± 9.3
Positive Control <sup>5</sup>	170 ± 35.9	108 ± 19.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 0.7
33.0	
100.0	19 ± 2.5
333.0	17 ± 2.1
1000.0	12 ± 2.0
3333.0	13 ± 0.9
10000.0	10 ± 1.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	137 ± 13.0
Positive Control <sup>5</sup>	

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Test Compound: Decyl methacrylate

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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>	18 ± 1.7	15 ± 3.7	41 ± 1.5	25 ± 1.2	27 ± 2.4
33.0	17 ± 2.7	11 ± 1.0			
100.0	15 ± 4.3	14 ± 1.9	30 ± 2.4	28 ± 2.0	34 ± 1.5
333.0	15 ± 1.3	14 ± 3.0	32 ± 1.5	28 ± 3.3	35 ± 3.5
1000.0	10 ± 2.7	17 ± 1.2	29 ± 2.2	26 ± 5.1	24 ± 1.0
3333.0	3 ± 0.5	15 ± 2.1	28 ± 0.7	18 ± 3.5	27 ± 2.7
10000.0			27 ± 2.8 <sup>p</sup>	17 ± 1.3 <sup>p</sup>	19 ± 0.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			476 ± 19.6	439 ± 42.5	914 ± 12.2
Positive Control <sup>6</sup>	154 ± 4.4	199 ± 10.2			



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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>	21 ± 5.2
33.0	
100.0	20 ± 1.3
333.0	25 ± 4.0
1000.0	24 ± 1.3
3333.0	21 ± 0.9
10000.0	21 ± 2.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	789 ± 85.6
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 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 3.3 ug/Plate Sodium Azide
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*