

Experiment Number: 249557

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethyl methacrylate

CAS Number: 97-63-2

Date Report Requested: 09/11/2018

Time Report Requested: 01:39:24

**NTP Study Number:**

249557

**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>	105 ± 1.5	173 ± 7.0	132 ± 6.5	146 ± 7.5	164 ± 2.8
100.0	101 ± 6.7	150 ± 2.6	146 ± 10.6	147 ± 2.5	178 ± 4.4
333.0	129 ± 9.1	164 ± 11.7	149 ± 4.7	134 ± 2.6	167 ± 13.3
1000.0	116 ± 8.1	157 ± 9.4	150 ± 5.4	148 ± 7.8	175 ± 1.5
3333.0	114 ± 5.2	181 ± 10.5	107 ± 13.0	126 ± 11.3	144 ± 10.4
10000.0	100 ± 3.3	173 ± 5.5	117 ± 3.5	123 ± 2.4	115 ± 10.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2265 ± 61.1	1538 ± 147.8	2315 ± 7.4
Positive Control <sup>3</sup>	1734 ± 41.3	1499 ± 42.8			

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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>	168 ± 5.1
100.0	152 ± 3.0
333.0	140 ± 10.4
1000.0	140 ± 6.0
3333.0	124 ± 4.3
10000.0	100 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	1525 ± 94.4
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% Rat S9
Vehicle Control <sup>1</sup>	6 ± 1.5	9 ± 1.2	16 ± 0.9	12 ± 1.3	10 ± 1.0
33.0				13 ± 2.3	2 ± 0.3
100.0	8 ± 1.0	8 ± 0.0	15 ± 0.7	14 ± 2.3	5 ± 2.2
333.0	11 ± 0.0	9 ± 1.3	12 ± 1.2	10 ± 1.2	8 ± 0.6
1000.0	10 ± 2.3	5 ± 1.9	12 ± 1.2	12 ± 1.8	4 ± 1.0
3333.0	10 ± 1.0	6 ± 1.2	Toxic	11 ± 1.2	6 ± 0.7
10000.0	8 ± 0.9	4 ± 1.5	2 ± 0.3		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			253 ± 36.4	150 ± 25.1	310 ± 13.7
Positive Control <sup>3</sup>	406 ± 33.2	1134 ± 11.6			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	24 ± 1.3	15 ± 3.7
33.0		
100.0	23 ± 1.9	18 ± 2.1
333.0	25 ± 2.6	19 ± 2.3
1000.0	22 ± 1.8	16 ± 2.2
3333.0	12 ± 1.5	11 ± 0.9
10000.0	7 ± 1.2	6 ± 0.7
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	136 ± 6.2	141 ± 15.3
Positive Control <sup>3</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>	5 ± 1.0	7 ± 1.3	10 ± 2.2	10 ± 0.9	15 ± 2.4
100.0	8 ± 0.0	6 ± 0.9	12 ± 3.0	10 ± 1.5	25 ± 2.3
333.0	6 ± 0.3	5 ± 1.5	12 ± 1.0	8 ± 0.9	26 ± 1.8
1000.0	3 ± 1.0	5 ± 1.5	13 ± 3.7	6 ± 1.5	19 ± 3.5
3333.0	3 ± 0.6	5 ± 1.9	13 ± 1.5	9 ± 1.3	15 ± 2.3
10000.0	Toxic	5 ± 1.8	11 ± 1.5	4 ± 1.2	12 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			147 ± 23.6	273 ± 61.5	251 ± 16.9
Positive Control <sup>5</sup>	1059 ± 19.9	216 ± 50.7			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 1.9
100.0	13 ± 3.8
333.0	11 ± 3.5
1000.0	8 ± 1.3
3333.0	6 ± 1.2
10000.0	5 ± 0.3
Trial Summary	Negative
Positive Control <sup>4</sup>	194 ± 26.7
Positive Control <sup>5</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>	20 ± 1.5	15 ± 0.9	31 ± 2.1	23 ± 2.5	39 ± 3.6
100.0	14 ± 2.0	19 ± 1.3	28 ± 0.0	22 ± 3.2	43 ± 7.3
333.0	17 ± 0.6	13 ± 2.5	28 ± 4.9	14 ± 2.3	43 ± 5.5
1000.0	23 ± 1.5	18 ± 1.2	29 ± 1.2	17 ± 1.5	34 ± 4.8
3333.0	20 ± 2.5	14 ± 1.5	24 ± 1.7	16 ± 3.2	37 ± 4.6
10000.0	19 ± 2.6	15 ± 0.9	25 ± 0.9	15 ± 0.9	30 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1350 ± 25.9	1208 ± 45.2	1289 ± 102.6
Positive Control <sup>6</sup>	164 ± 4.7	282 ± 25.7			



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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>	27 ± 5.8
100.0	21 ± 0.9
333.0	13 ± 0.9
1000.0	15 ± 2.9
3333.0	24 ± 1.9
10000.0	16 ± 2.3
Trial Summary	Negative
Positive Control <sup>2</sup>	1737 ± 159.2
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: 95% Ethanol

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 \*\***