

Experiment Number: 689062

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methyl methacrylate

CAS Number: 80-62-6

Date Report Requested: 09/13/2018

Time Report Requested: 02:01:13

**NTP Study Number:**

689062

**Study Result:**

Negative

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Test Compound: Methyl methacrylate

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	88 ± 1.7	105 ± 5.5	102 ± 2.2	124 ± 1.7	127 ± 13.9
33.0		98 ± 7.9	108 ± 3.6		
100.0	90 ± 10.7	90 ± 6.7	105 ± 5.9	114 ± 6.6	149 ± 7.4
333.0	81 ± 6.8	98 ± 1.7	105 ± 1.5	104 ± 3.7	153 ± 2.9
1000.0	75 ± 1.8	90 ± 4.6	101 ± 1.3	113 ± 7.2	156 ± 5.5
3333.0	Toxic	91 ± 4.7	Toxic	117 ± 11.5	168 ± 5.9
10000.0	Toxic			115 ± 3.0	153 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>				2510 ± 29.7	2441 ± 251.3
Positive Control <sup>3</sup>	1379 ± 20.5	1690 ± 22.6	1571 ± 134.6		

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 12.4	150 ± 5.0
33.0		
100.0	119 ± 1.7	131 ± 3.3
333.0	126 ± 2.3	129 ± 9.2
1000.0	112 ± 3.9	145 ± 2.8
3333.0	136 ± 8.2	148 ± 4.4
10000.0	138 ± 17.5	136 ± 2.0
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	1512 ± 142.1	1656 ± 188.6
Positive Control <sup>3</sup>		

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	10 ± 1.2	9 ± 0.7	8 ± 0.9	10 ± 3.5	8 ± 0.0
10.0		8 ± 2.4	6 ± 0.6		
33.0		6 ± 2.3	6 ± 0.3		9 ± 2.6
100.0	13 ± 1.9	6 ± 1.3	5 ± 1.5	11 ± 0.3	8 ± 0.6
333.0	13 ± 1.3	5 ± 2.2	4 ± 2.0	12 ± 1.2	7 ± 2.0
1000.0	12 ± 1.7	5 ± 0.6	5 ± 1.2	13 ± 1.5	8 ± 0.6
3333.0	0 ± 0.0			8 ± 2.0	8 ± 0.6
10000.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				417 ± 40.2	276 ± 43.0
Positive Control <sup>3</sup>	1213 ± 63.9	1355 ± 70.4	1371 ± 68.8		

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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>	10 ± 1.7	18 ± 0.9
10.0		
33.0		
100.0	12 ± 2.0	15 ± 0.6
333.0	9 ± 0.7	15 ± 2.7
1000.0	13 ± 1.9	13 ± 0.6
3333.0	15 ± 2.8	17 ± 2.3
10000.0	Toxic	0 ± 0.0
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	372 ± 28.3	119 ± 1.0
Positive Control <sup>3</sup>		

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	6 ± 1.2	6 ± 1.2	6 ± 0.6	9 ± 2.6	4 ± 0.3
10.0		7 ± 1.5	5 ± 1.2		
33.0		7 ± 0.9	13 ± 4.3		
100.0	5 ± 1.2	7 ± 2.0	5 ± 1.5	10 ± 3.2	8 ± 0.9
333.0	5 ± 1.5	7 ± 0.6	6 ± 1.7	11 ± 1.9	9 ± 1.5
1000.0	3 ± 0.3	5 ± 0.7	5 ± 1.3	14 ± 4.3	8 ± 0.3
3333.0	1 ± 0.7			12 ± 2.3	6 ± 0.7
10000.0	0 ± 0.0			Toxic	3 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				81 ± 26.4	35 ± 3.5
Positive Control <sup>5</sup>	609 ± 62.4	698 ± 150.5	574 ± 31.9		

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**Strain: TA1537**

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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>	7 ± 1.2	6 ± 1.0
10.0		
33.0		9 ± 1.5
100.0	10 ± 3.0	10 ± 2.3
333.0	13 ± 2.0	8 ± 0.7
1000.0	14 ± 1.5	7 ± 1.5
3333.0	11 ± 2.3	9 ± 0.6
10000.0	0 ± 0.3	
Trial Summary	Equivocal	Negative
Positive Control <sup>4</sup>	74 ± 6.9	251 ± 13.3
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>	28 ± 2.9	25 ± 2.8	34 ± 3.5	20 ± 0.9	28 ± 2.3
100.0	23 ± 2.6	23 ± 3.2	33 ± 4.3	22 ± 1.9	28 ± 2.3
333.0	23 ± 2.8	23 ± 3.0	29 ± 4.9	17 ± 4.5	34 ± 2.2
1000.0	24 ± 3.0	21 ± 1.3	30 ± 0.0	25 ± 2.3	29 ± 4.3
3333.0	26 ± 0.3	23 ± 1.5	27 ± 3.3	13 ± 1.5	27 ± 0.5
10000.0	24 ± 2.3	18 ± 4.2	25 ± 1.7	19 ± 0.6	31 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			913 ± 42.5	1867 ± 2.9	1443 ± 34.1
Positive Control <sup>6</sup>	232 ± 20.5	164 ± 9.1			



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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>	34 ± 2.1
100.0	31 ± 3.0
333.0	36 ± 1.5
1000.0	33 ± 4.9
3333.0	26 ± 3.4
10000.0	31 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1168 ± 185.3
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: 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 \*\*