

Experiment Number: 284726

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Methyl methacrylate**

CAS Number: **80-62-6**

Date Report Requested: **09/11/2018**

Time Report Requested: **15:22:18**

**NTP Study Number:**

284726

**Study Result:**

Negative

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl methacrylate

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Date Report Requested: 09/11/2018

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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>	138 ± 1.2	140 ± 6.7	141 ± 8.0	131 ± 10.5	131 ± 4.7
33.0		118 ± 5.6		139 ± 18.7	
100.0	128 ± 2.7	122 ± 21.1	157 ± 10.2	147 ± 11.3	143 ± 9.9
333.0	115 ± 6.3	126 ± 10.5	143 ± 7.1	135 ± 3.3	145 ± 4.1
1000.0	116 ± 5.4	136 ± 5.0	138 ± 11.6	160 ± 8.7	130 ± 8.5
3333.0	116 ± 10.4	129 ± 8.8	121 ± 10.7	142 ± 7.2	116 ± 6.2
6666.0	0 ± 0.0 <sup>s</sup>		48 ± 16.3 <sup>s</sup>		65 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			981 ± 16.2	438 ± 26.3	2286 ± 41.8
Positive Control <sup>3</sup>	426 ± 5.6	433 ± 5.0			

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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>	150 ± 7.8
33.0	131 ± 2.9
100.0	125 ± 6.1
333.0	119 ± 11.1
1000.0	144 ± 3.8
3333.0	115 ± 9.0
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	952 ± 12.6
Positive Control <sup>3</sup>	

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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>	14 ± 2.3	26 ± 4.4	9 ± 1.5	14 ± 2.2	6 ± 0.6
33.0		22 ± 2.2		14 ± 3.7	
100.0	14 ± 1.5	18 ± 1.7	6 ± 1.2	13 ± 1.5	6 ± 0.7
333.0	18 ± 1.7	17 ± 2.5	8 ± 2.1	12 ± 2.0	5 ± 0.0
1000.0	12 ± 2.2	16 ± 2.3	7 ± 1.0	16 ± 3.1	5 ± 0.7
3333.0	15 ± 2.5	16 ± 2.9	7 ± 1.2	12 ± 2.7	5 ± 1.2
6666.0	2 ± 1.2 <sup>s</sup>		4 ± 0.9 <sup>s</sup>		4 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	314 ± 5.2	427 ± 6.1			
Positive Control <sup>4</sup>			193 ± 11.9	189 ± 6.7	482 ± 35.4

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Test Compound: **Methyl methacrylate**

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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>	13 ± 1.5
33.0	15 ± 0.3
100.0	10 ± 1.2
333.0	9 ± 1.5
1000.0	9 ± 0.9
3333.0	10 ± 1.3
6666.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	672 ± 20.8

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## G06: Ames Summary Data

Test Compound: Methyl methacrylate

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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>	110 ± 10.2	145 ± 4.5	180 ± 9.4	192 ± 5.1	248 ± 105.5
33.0		145 ± 13.6		182 ± 3.3	
100.0	120 ± 4.0	151 ± 16.6	175 ± 11.6	185 ± 12.2	152 ± 9.1
333.0	130 ± 10.5	138 ± 14.0	190 ± 2.3	176 ± 9.5	157 ± 10.6
1000.0	117 ± 7.7	149 ± 1.0	195 ± 4.3	174 ± 19.0	158 ± 6.3
3333.0	114 ± 5.8	156 ± 3.8	166 ± 7.3	187 ± 4.7	169 ± 4.8
6666.0	44 ± 9.4 <sup>s</sup>		64 ± 31.8 <sup>s</sup>		89 ± 7.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1183 ± 12.0	596 ± 12.7	1431 ± 33.4
Positive Control <sup>5</sup>	1633 ± 58.1	901 ± 40.4			

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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>	167 ± 10.4
33.0	171 ± 7.5
100.0	171 ± 5.8
333.0	181 ± 10.5
1000.0	165 ± 5.8
3333.0	162 ± 9.8
6666.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	1011 ± 61.6
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Methyl methacrylate

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Time Report Requested: 15:22:18

## 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>	17 ± 5.0	22 ± 2.3	29 ± 4.9	39 ± 1.2	26 ± 2.0
33.0		20 ± 2.4		33 ± 2.5	
100.0	14 ± 0.7	18 ± 1.5	32 ± 2.2	27 ± 5.3	24 ± 2.6
333.0	13 ± 1.5	23 ± 3.0	26 ± 3.2	32 ± 3.5	25 ± 1.0
1000.0	17 ± 1.5	17 ± 1.0	27 ± 1.5	31 ± 4.5	22 ± 2.1
3333.0	14 ± 2.7	19 ± 0.3	16 ± 2.3	25 ± 4.1	18 ± 1.2
6666.0	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>		5 ± 2.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			443 ± 17.7	155 ± 1.5	1184 ± 24.0
Positive Control <sup>6</sup>	1843 ± 33.9	993 ± 31.7			

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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>	35 ± 1.9
33.0	30 ± 4.9
100.0	33 ± 3.2
333.0	37 ± 2.6
1000.0	24 ± 3.7
3333.0	23 ± 3.5
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	493 ± 21.7
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 \*\***