

Experiment Number: 570334

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

**G06: Ames Summary Data**

Test Compound: **Glycidyl methacrylate**

CAS Number: **106-91-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **04:40:33**

**NTP Study Number:**

570334

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Glycidyl methacrylate

CAS Number: 106-91-2

Date Report Requested: 09/14/2018

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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>	123 ± 7.8	171 ± 2.9	116 ± 8.7	149 ± 19.2	139 ± 4.8
10.0	140 ± 5.8	156 ± 13.4	169 ± 7.8	144 ± 12.3	171 ± 14.9
33.0	182 ± 4.4	211 ± 10.5	225 ± 4.3	231 ± 10.9	246 ± 6.6
100.0	258 ± 21.1	360 ± 8.0	327 ± 7.1	386 ± 2.7	346 ± 5.2
333.0	424 ± 41.2	780 ± 23.9	621 ± 9.2	816 ± 16.8	685 ± 5.5
1000.0	784 ± 90.8	1739 ± 44.9	950 ± 24.5	1538 ± 46.1	1024 ± 12.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					395 ± 2.9
Positive Control <sup>3</sup>	477 ± 16.0	488 ± 28.2			
Positive Control <sup>4</sup>			390 ± 24.6	532 ± 30.1	

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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>	146 ± 1.5
10.0	166 ± 3.5
33.0	248 ± 10.5
100.0	439 ± 2.8
333.0	879 ± 21.4
1000.0	1568 ± 59.0
Trial Summary	Positive
Positive Control <sup>2</sup>	748 ± 29.1
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	36 ± 4.9	27 ± 1.5	14 ± 1.2	12 ± 0.3	15 ± 1.8
10.0	38 ± 3.7	49 ± 0.3	34 ± 4.3	37 ± 4.1	34 ± 2.8
33.0	89 ± 2.0	80 ± 8.7	120 ± 14.0	100 ± 1.9	105 ± 8.3
100.0	166 ± 4.2	159 ± 5.9	239 ± 14.2	308 ± 4.0	283 ± 17.2
333.0	418 ± 27.3	435 ± 10.6	655 ± 36.3	835 ± 6.5	722 ± 37.5
1000.0	651 ± 23.2	902 ± 25.4	931 ± 31.9	1708 ± 46.8	1039 ± 6.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>4</sup>					176 ± 7.3
Positive Control <sup>3</sup>	487 ± 15.9	592 ± 4.6			
Positive Control <sup>5</sup>			199 ± 10.3	148 ± 5.8	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.8
10.0	43 ± 3.2
33.0	107 ± 10.7
100.0	329 ± 20.5
333.0	852 ± 16.2
1000.0	1637 ± 44.5
Trial Summary	Positive
Positive Control <sup>4</sup>	228 ± 11.5
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Glycidyl methacrylate

CAS Number: 106-91-2

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 10.3	181 ± 5.2	110 ± 9.0	193 ± 8.4	166 ± 8.4
10.0	135 ± 17.2	195 ± 15.1	198 ± 10.5	247 ± 9.6	188 ± 12.2
33.0	171 ± 25.4	224 ± 16.2	190 ± 18.6	244 ± 16.0	200 ± 7.3
100.0	198 ± 12.3	289 ± 23.1	206 ± 7.8	268 ± 12.0	211 ± 4.3
333.0	362 ± 29.0	492 ± 22.1	258 ± 15.2	296 ± 10.3	264 ± 0.7
1000.0	464 ± 89.0	1038 ± 53.9	321 ± 20.4	437 ± 20.4	342 ± 23.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					484 ± 15.1
Positive Control <sup>4</sup>			410 ± 10.4	601 ± 57.1	
Positive Control <sup>6</sup>	569 ± 33.8	1119 ± 73.9			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	196 ± 4.8
10.0	232 ± 7.3
33.0	215 ± 11.5
100.0	231 ± 15.2
333.0	263 ± 9.3
1000.0	411 ± 25.7
Trial Summary	Positive
Positive Control <sup>2</sup>	623 ± 40.5
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	26 ± 3.2	39 ± 1.5	42 ± 4.5
10.0	30 ± 3.4	33 ± 0.3	38 ± 6.3
33.0	26 ± 0.3	30 ± 5.8	43 ± 2.6
100.0	31 ± 3.1	37 ± 3.8	42 ± 5.3
333.0	32 ± 0.9	36 ± 1.8	35 ± 1.8
1000.0	33 ± 3.5	36 ± 3.8	41 ± 4.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			576 ± 48.2
Positive Control <sup>4</sup>		462 ± 28.8	
Positive Control <sup>7</sup>	824 ± 40.3		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

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