

Experiment Number: 776398

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diethylene glycol monomethyl ether

CAS Number: 111-77-3

Date Report Requested: 09/18/2018

Time Report Requested: 00:39:28

**NTP Study Number:**

776398

**Study Result:**

Negative

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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>	151 ± 5.4	148 ± 0.3	154 ± 3.3	172 ± 8.4	153 ± 6.4
100.0	152 ± 10.7	133 ± 2.3	150 ± 12.5	174 ± 1.5	145 ± 8.2
333.0	147 ± 4.1	141 ± 8.2	150 ± 8.7	163 ± 4.0	148 ± 9.9
1000.0	152 ± 1.5	141 ± 5.2	147 ± 9.0	176 ± 8.3	146 ± 8.7
3333.0	147 ± 4.8	143 ± 2.0	141 ± 3.8	180 ± 2.3	154 ± 5.5
10000.0	150 ± 3.9	127 ± 10.7	143 ± 7.9	171 ± 9.2	155 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					550 ± 34.4
Positive Control <sup>3</sup>	527 ± 10.7	470 ± 21.7			
Positive Control <sup>4</sup>			822 ± 22.9		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				939 ± 18.5	

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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>	155 ± 7.3
100.0	143 ± 17.3
333.0	143 ± 1.8
1000.0	134 ± 3.9
3333.0	149 ± 10.3
10000.0	155 ± 5.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	581 ± 18.2
Positive Control <sup>6</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>	12 ± 2.5	8 ± 2.9	11 ± 2.9	19 ± 0.6	13 ± 2.6
100.0	11 ± 1.3	9 ± 0.7	14 ± 3.2	17 ± 2.0	11 ± 0.9
333.0	9 ± 2.2	9 ± 1.2	10 ± 0.9	15 ± 3.5	10 ± 1.2
1000.0	16 ± 1.2	9 ± 1.5	12 ± 3.2	21 ± 4.1	11 ± 1.5
3333.0	10 ± 1.9	8 ± 2.8	13 ± 0.9	18 ± 3.5	9 ± 3.2
10000.0	14 ± 1.0	10 ± 0.9	9 ± 2.0	15 ± 2.0	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					84 ± 1.5
Positive Control <sup>3</sup>	239 ± 15.9	297 ± 17.4			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			135 ± 7.1	108 ± 11.5	

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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>	17 ± 1.2
100.0	15 ± 0.7
333.0	15 ± 2.2
1000.0	16 ± 1.7
3333.0	15 ± 1.5
10000.0	17 ± 3.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	147 ± 9.0
Positive Control <sup>6</sup>	

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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>	209 ± 5.4	174 ± 10.1	188 ± 7.9	238 ± 7.8	192 ± 7.4
100.0	189 ± 6.5	168 ± 14.9	172 ± 3.1	243 ± 10.1	176 ± 5.5
333.0	193 ± 4.1	175 ± 4.7	180 ± 3.6	254 ± 8.1	175 ± 3.2
1000.0	202 ± 3.5	181 ± 5.2	179 ± 9.9	248 ± 7.5	183 ± 8.2
3333.0	197 ± 12.4	167 ± 4.3	178 ± 10.6	238 ± 7.2	185 ± 6.3
10000.0	188 ± 2.0	158 ± 8.1	164 ± 5.8	226 ± 16.8	183 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1588 ± 41.1
Positive Control <sup>6</sup>			2023 ± 113.2	548 ± 20.5	
Positive Control <sup>7</sup>	543 ± 11.0	390 ± 17.4			

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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>	202 ± 3.3
100.0	214 ± 4.9
333.0	220 ± 9.5
1000.0	217 ± 7.1
3333.0	231 ± 7.8
10000.0	196 ± 13.0
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1037 ± 32.5
Positive Control <sup>7</sup>	

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## 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>	19 ± 2.3	18 ± 4.0	20 ± 2.1	22 ± 4.7	25 ± 0.9
100.0	21 ± 2.0	15 ± 0.3	24 ± 0.7	28 ± 2.3	20 ± 7.1
333.0	17 ± 2.1	19 ± 3.0	20 ± 1.5	28 ± 2.6	24 ± 3.4
1000.0	23 ± 3.2	16 ± 2.0	20 ± 1.5	31 ± 1.0	21 ± 3.1
3333.0	25 ± 3.9	21 ± 0.6	21 ± 0.6	32 ± 1.9	21 ± 1.0
10000.0	19 ± 3.0	18 ± 2.5	21 ± 2.4	28 ± 0.6	18 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			237 ± 14.2		665 ± 32.9
Positive Control <sup>8</sup>	452 ± 10.5	616 ± 8.7			
Positive Control <sup>5</sup>				287 ± 17.9	
Positive Control <sup>6</sup>					



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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>	26 ± 0.9
100.0	21 ± 2.6
333.0	25 ± 2.3
1000.0	24 ± 3.9
3333.0	33 ± 2.7
10000.0	25 ± 4.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	336 ± 14.1
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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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