

Experiment Number: 851593

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diethylene glycol monoethyl ether

CAS Number: 111-90-0

Date Report Requested: 09/16/2018

Time Report Requested: 08:52:24

**NTP Study Number:**

851593

**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>	127 ± 4.7	109 ± 7.2	147 ± 5.2	246 ± 6.6	119 ± 4.6
10.0		115 ± 5.8	125 ± 2.0		135 ± 2.3
33.0		119 ± 6.5	121 ± 4.2		126 ± 4.0
100.0	146 ± 7.8			247 ± 4.9	
333.0	142 ± 6.7			237 ± 10.1	
1000.0	137 ± 8.6	119 ± 3.1	126 ± 11.5	236 ± 12.9	121 ± 4.6
3333.0	144 ± 5.8	112 ± 2.4	144 ± 3.9	254 ± 9.1	120 ± 4.0
10000.0	166 ± 5.5	112 ± 7.0	154 ± 6.4	251 ± 8.0	119 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					349 ± 38.9
Positive Control <sup>3</sup>	918 ± 37.6	470 ± 42.6			
Positive Control <sup>4</sup>			936 ± 40.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1921 ± 60.0	

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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>	187 ± 6.7
10.0	
33.0	
100.0	182 ± 18.2
333.0	181 ± 10.5
1000.0	170 ± 2.3
3333.0	167 ± 1.5
10000.0	184 ± 7.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	1286 ± 9.0
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>	17 ± 2.0	7 ± 1.5	10 ± 2.3	17 ± 2.2	12 ± 1.7
10.0		9 ± 1.8	10 ± 0.6		9 ± 1.2
33.0		7 ± 2.6	12 ± 0.6		8 ± 1.2
100.0	14 ± 4.2			24 ± 1.2	
333.0	11 ± 0.7			16 ± 2.1	
1000.0	16 ± 1.8	9 ± 0.9	8 ± 1.5	15 ± 2.9	11 ± 0.3
3333.0	16 ± 3.2	9 ± 1.5	12 ± 0.7	19 ± 1.3	10 ± 1.2
10000.0	20 ± 1.8	10 ± 0.7	12 ± 3.7	23 ± 1.9	11 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					26 ± 1.9
Positive Control <sup>3</sup>	571 ± 24.7	354 ± 17.6			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			174 ± 5.4	137 ± 9.4	

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

**G06: Ames Summary Data**

Test Compound: **Diethylene glycol monoethyl ether**  
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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>	16 ± 0.7
10.0	
33.0	
100.0	17 ± 2.6
333.0	16 ± 1.8
1000.0	16 ± 1.2
3333.0	24 ± 2.4
10000.0	23 ± 5.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	170 ± 6.6
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>	163 ± 8.3	170 ± 7.4	179 ± 2.3	236 ± 18.1	179 ± 8.8
10.0		156 ± 7.8	181 ± 13.1		168 ± 5.7
33.0		147 ± 9.3	182 ± 5.0		175 ± 13.0
100.0	151 ± 4.7			235 ± 11.7	
333.0	169 ± 9.7			240 ± 1.9	
1000.0	150 ± 6.9	147 ± 7.3	176 ± 5.5	237 ± 11.6	177 ± 4.4
3333.0	172 ± 6.9	157 ± 4.3	189 ± 2.6	226 ± 10.3	150 ± 3.0
10000.0	190 ± 8.5	153 ± 8.6	196 ± 8.4	227 ± 7.5	170 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1268 ± 34.6
Positive Control <sup>6</sup>			3019 ± 39.8	868 ± 38.1	
Positive Control <sup>7</sup>	372 ± 34.7	2720 ± 61.6			

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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>	193 ± 7.8
10.0	
33.0	
100.0	188 ± 5.8
333.0	194 ± 5.1
1000.0	188 ± 3.5
3333.0	189 ± 6.0
10000.0	182 ± 2.7
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1329 ± 29.7
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>	20 ± 1.7	19 ± 0.9	16 ± 1.5	26 ± 1.2	14 ± 4.0
10.0		16 ± 1.2	16 ± 2.4		12 ± 1.5
33.0		18 ± 0.9	19 ± 2.0		9 ± 1.3
100.0	22 ± 0.9			31 ± 5.7	
333.0	22 ± 2.4			24 ± 1.5	
1000.0	25 ± 0.3	12 ± 2.3	15 ± 1.2	29 ± 1.5	14 ± 1.9
3333.0	22 ± 3.2	14 ± 3.1	14 ± 0.7	28 ± 2.9	11 ± 0.7
10000.0	21 ± 2.0	19 ± 2.2	18 ± 1.5	28 ± 2.8	12 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			205 ± 6.6		334 ± 7.8
Positive Control <sup>8</sup>	462 ± 26.3	288 ± 20.0			
Positive Control <sup>5</sup>				681 ± 5.9	



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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>	33 ± 2.6
10.0	
33.0	
100.0	36 ± 3.2
333.0	35 ± 5.6
1000.0	36 ± 1.0
3333.0	43 ± 3.7
10000.0	37 ± 3.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	1200 ± 76.4

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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 \*\***