

Experiment Number: 401459

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diethylene glycol monobutyl ether

CAS Number: 112-34-5

Date Report Requested: 09/14/2018

Time Report Requested: 16:41:39

**NTP Study Number:**

401459

**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>	116 ± 4.7	147 ± 10.6	146 ± 9.4	137 ± 10.7	159 ± 4.5
100.0	107 ± 5.1	158 ± 3.3	159 ± 7.9	141 ± 5.0	173 ± 7.2
333.0	145 ± 9.3	166 ± 7.4	169 ± 8.4	140 ± 8.1	172 ± 11.7
1000.0	91 ± 5.7	143 ± 3.7	142 ± 3.7	145 ± 2.2	168 ± 5.5
3333.0	99 ± 7.0	152 ± 5.0	116 ± 5.2	151 ± 11.9	162 ± 8.3
10000.0	88 ± 0.5	139 ± 7.4	143 ± 2.2	85 ± 5.0	152 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					739 ± 13.4
Positive Control <sup>3</sup>			548 ± 34.2		
Positive Control <sup>4</sup>	354 ± 30.3	416 ± 13.7			
Positive Control <sup>5</sup>				547 ± 36.3	

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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>	170 ± 3.2
100.0	183 ± 12.7
333.0	162 ± 5.8
1000.0	137 ± 6.6
3333.0	142 ± 3.8
10000.0	126 ± 11.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	593 ± 18.9
Positive Control <sup>4</sup>	
Positive Control <sup>5</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>	25 ± 2.5	14 ± 0.6	13 ± 0.6	19 ± 3.0	14 ± 1.0
100.0	14 ± 1.0	15 ± 0.7	12 ± 1.5	21 ± 2.6	12 ± 2.7
333.0	20 ± 2.7	14 ± 3.1	7 ± 0.3	24 ± 2.9	9 ± 1.8
1000.0	14 ± 1.8	14 ± 2.1	8 ± 0.7	14 ± 0.3	11 ± 2.3
3333.0	19 ± 2.8	17 ± 3.8	8 ± 1.2	21 ± 1.5	7 ± 1.9
10000.0	24 ± 1.5	17 ± 2.6	8 ± 0.9	17 ± 1.5	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					265 ± 9.0
Positive Control <sup>4</sup>	466 ± 17.5	409 ± 23.0			
Positive Control <sup>5</sup>			205 ± 21.2		
Positive Control <sup>6</sup>				166 ± 12.3	

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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 ± 3.7
100.0	23 ± 3.9
333.0	14 ± 2.6
1000.0	8 ± 1.0
3333.0	10 ± 0.9
10000.0	12 ± 1.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	474 ± 17.8
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>	204 ± 9.8	160 ± 6.6	154 ± 18.8	190 ± 6.5	165 ± 5.8
100.0	197 ± 11.7	163 ± 7.2	137 ± 23.9	213 ± 8.9	145 ± 5.3
333.0	207 ± 8.4	158 ± 10.1	185 ± 6.7	188 ± 17.1	150 ± 12.8
1000.0	212 ± 5.1	130 ± 13.1	176 ± 15.0	165 ± 19.4	159 ± 3.0
3333.0	195 ± 9.2	162 ± 16.9	135 ± 20.9	159 ± 12.9	121 ± 4.1
10000.0	137 ± 6.4	150 ± 8.7	63 ± 19.2 <sup>s</sup>	135 ± 6.6	142 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					499 ± 21.7
Positive Control <sup>3</sup>			436 ± 2.5		
Positive Control <sup>5</sup>				482 ± 9.9	
Positive Control <sup>7</sup>	562 ± 18.2	640 ± 46.7			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	191 ± 17.2	172 ± 14.7
100.0	292 ± 20.3	216 ± 2.3
333.0	223 ± 2.5	194 ± 6.2
1000.0	164 ± 1.2	190 ± 7.5
3333.0	169 ± 9.8	208 ± 3.8
10000.0	137 ± 4.8	186 ± 16.2
Trial Summary	Equivocal	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	359 ± 4.6	367 ± 30.9
Positive Control <sup>5</sup>		
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>	15 ± 0.6	24 ± 3.5	29 ± 1.9	28 ± 5.4	31 ± 3.9
100.0	15 ± 1.7	22 ± 2.5	33 ± 2.9	22 ± 2.4	36 ± 4.0
333.0	21 ± 3.2	21 ± 1.7	32 ± 2.9	24 ± 2.0	33 ± 4.3
1000.0	16 ± 0.6	24 ± 1.9	33 ± 0.0	24 ± 3.8	29 ± 2.0
3333.0	15 ± 1.5	24 ± 3.7	24 ± 3.3	25 ± 1.0	32 ± 2.7
10000.0	15 ± 3.5	31 ± 0.3	25 ± 4.2	17 ± 0.6	28 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					348 ± 30.6
Positive Control <sup>3</sup>			422 ± 16.7	163 ± 9.8	
Positive Control <sup>8</sup>	574 ± 7.3	580 ± 21.7			



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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>	24 ± 1.8
100.0	32 ± 2.3
333.0	31 ± 1.2
1000.0	29 ± 1.2
3333.0	22 ± 1.3
10000.0	15 ± 1.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	441 ± 26.6
Positive Control <sup>8</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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