

Experiment Number: **248390**

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

**G06: Ames Summary Data**

Test Compound: **Diethylene glycol**

CAS Number: **111-46-6**

Date Report Requested: **09/10/2018**

Time Report Requested: **20:28:25**

**NTP Study Number:**

248390

**Study Result:**

Negative

Experiment Number: 248390

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Diethylene glycol  
CAS Number: 111-46-6

Date Report Requested: 09/10/2018

Time Report Requested: 20:28:25

## 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>	120 ± 5.1	138 ± 2.7	116 ± 10.2	116 ± 10.2	143 ± 8.5
100.0	121 ± 9.5	133 ± 3.9	125 ± 10.5	125 ± 11.7	120 ± 12.7
333.0	111 ± 7.8	115 ± 4.4	141 ± 11.3	127 ± 11.1	122 ± 7.3
1000.0	112 ± 0.3	127 ± 10.4	103 ± 15.4	126 ± 8.1	121 ± 6.5
3333.0	115 ± 9.4	126 ± 14.0	112 ± 7.8	119 ± 10.8	145 ± 3.2
10000.0	107 ± 8.8	110 ± 11.6	112 ± 3.5	118 ± 3.2	114 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	277 ± 18.4	482 ± 16.8			
Positive Control <sup>3</sup>			688 ± 39.0	692 ± 31.1	1100 ± 18.7

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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>	135 ± 13.7
100.0	94 ± 2.7
333.0	91 ± 9.8
1000.0	85 ± 4.6
3333.0	78 ± 1.5
10000.0	79 ± 5.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1303 ± 26.5

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 0.7	19 ± 4.0	19 ± 0.6	18 ± 1.9	12 ± 2.3
100.0	17 ± 2.0	16 ± 0.9	12 ± 3.0	21 ± 4.6	12 ± 2.4
333.0	27 ± 3.0	20 ± 0.3	14 ± 1.5	16 ± 1.2	12 ± 3.2
1000.0	34 ± 2.2	21 ± 3.8	14 ± 2.6	17 ± 2.2	15 ± 1.5
3333.0	23 ± 2.2	19 ± 0.3	16 ± 0.3	18 ± 1.5	12 ± 2.2
10000.0	28 ± 0.6	19 ± 4.7	11 ± 1.5	25 ± 3.0	15 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	315 ± 14.6	334 ± 14.3			
Positive Control <sup>4</sup>			260 ± 7.7	248 ± 11.7	357 ± 17.6

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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>	12 ± 1.7
100.0	11 ± 1.8
333.0	13 ± 2.6
1000.0	12 ± 1.7
3333.0	10 ± 1.9
10000.0	10 ± 1.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	366 ± 13.3

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## G06: Ames Summary Data

Test Compound: Diethylene glycol  
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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.2	7 ± 0.6	16 ± 2.6	23 ± 1.2	7 ± 2.3
100.0	5 ± 0.6	11 ± 2.6	8 ± 2.8	21 ± 2.7	13 ± 2.1
333.0	7 ± 1.2	7 ± 2.4	11 ± 2.4	22 ± 2.6	3 ± 0.7
1000.0	4 ± 1.2	6 ± 0.6	11 ± 3.1	21 ± 2.6	8 ± 0.6
3333.0	3 ± 0.6	6 ± 1.5	11 ± 1.0	27 ± 0.3	10 ± 2.7
10000.0	5 ± 0.6	4 ± 0.9	11 ± 2.7	22 ± 2.2	8 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		148 ± 13.0			
Positive Control <sup>4</sup>			217 ± 5.3	137 ± 8.1	446 ± 16.1
Positive Control <sup>5</sup>	110 ± 6.9				

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 2.8
100.0	12 ± 1.7
333.0	9 ± 1.5
1000.0	8 ± 2.3
3333.0	12 ± 2.8
10000.0	9 ± 2.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	338 ± 3.9
Positive Control <sup>5</sup>	

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Test Compound: Diethylene glycol  
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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 0.9	22 ± 2.3	24 ± 2.2	49 ± 3.7	29 ± 0.9
100.0	24 ± 2.7	26 ± 5.6	29 ± 2.7	59 ± 3.1	30 ± 2.4
333.0	19 ± 3.2	26 ± 1.2	32 ± 2.0	58 ± 2.1	21 ± 2.9
1000.0	14 ± 3.5	34 ± 8.0	37 ± 2.1	59 ± 4.9	28 ± 2.7
3333.0	17 ± 2.4	28 ± 1.7	36 ± 2.6	52 ± 2.9	26 ± 1.7
10000.0	20 ± 4.2	25 ± 3.2	27 ± 2.2	62 ± 4.1	30 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			462 ± 37.8	468 ± 6.7	926 ± 12.5
Positive Control <sup>6</sup>	654 ± 54.9	767 ± 12.9			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	37 ± 2.9
100.0	43 ± 6.5
333.0	51 ± 3.2
1000.0	42 ± 5.5
3333.0	48 ± 7.2
10000.0	43 ± 6.7
Trial Summary	Negative
Positive Control <sup>3</sup>	977 ± 39.8
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*