

Experiment Number: 586320

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diethylene glycol dimethyl ether

CAS Number: 111-96-6

Date Report Requested: 09/14/2018

Time Report Requested: 17:28:03

**NTP Study Number:**

586320

**Study Result:**

Negative

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**Strain: TA100**

<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>	142 ± 10.0	104 ± 19.4	199 ± 5.0	139 ± 7.7	191 ± 10.1
100.0	138 ± 10.1	105 ± 3.5	184 ± 1.5	121 ± 3.9	188 ± 9.5
333.0	164 ± 6.2	96 ± 12.9	196 ± 22.3	124 ± 6.7	185 ± 25.8
1000.0	189 ± 11.5	103 ± 17.9	237 ± 18.2	151 ± 14.2	228 ± 8.1
3333.0	179 ± 14.6	107 ± 12.2	219 ± 3.2	142 ± 5.5	254 ± 7.8
10000.0	180 ± 9.9	85 ± 1.7	222 ± 24.3	159 ± 12.0	251 ± 18.9
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			498 ± 10.3	326 ± 12.2	650 ± 90.7
Positive Control <sup>3</sup>	390 ± 42.2	287 ± 6.8			

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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>	141 ± 6.2
100.0	133 ± 4.9
333.0	136 ± 2.4
1000.0	148 ± 13.5
3333.0	150 ± 18.9
10000.0	160 ± 12.4
Trial Summary	Negative
Positive Control <sup>2</sup>	547 ± 20.3
Positive Control <sup>3</sup>	

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Test Compound: Diethylene glycol dimethyl ether  
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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>	10 ± 1.2	9 ± 1.2	15 ± 0.7	11 ± 2.6	11 ± 1.5
100.0	8 ± 1.2	7 ± 1.2	8 ± 2.7	7 ± 2.3	11 ± 2.1
333.0	10 ± 1.5	9 ± 1.5	8 ± 1.7	6 ± 1.2	8 ± 1.2
1000.0	8 ± 2.2	8 ± 1.9	13 ± 1.5	10 ± 1.2	8 ± 2.2
3333.0	9 ± 1.5	8 ± 1.5	9 ± 2.1	7 ± 1.5	10 ± 0.9
10000.0	7 ± 0.9	6 ± 1.0	7 ± 2.1	5 ± 1.5	7 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			56 ± 10.7	29 ± 3.2	62 ± 8.2
Positive Control <sup>3</sup>	229 ± 8.0	232 ± 12.5			

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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 ± 0.6
100.0	8 ± 1.5
333.0	5 ± 1.0
1000.0	6 ± 1.5
3333.0	6 ± 1.5
10000.0	5 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	87 ± 7.4
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Diethylene glycol dimethyl ether  
CAS Number: 111-96-6

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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>	8 ± 1.5	6 ± 1.2	7 ± 2.3	7 ± 1.7	9 ± 1.5
100.0	5 ± 2.6	5 ± 1.3	8 ± 1.9	8 ± 1.5	9 ± 1.3
333.0	6 ± 0.0	5 ± 1.2	7 ± 2.0	7 ± 1.2	8 ± 1.2
1000.0	7 ± 1.2	6 ± 0.6	8 ± 2.3	9 ± 0.3	7 ± 0.9
3333.0	5 ± 0.6	5 ± 2.3	8 ± 1.8	8 ± 0.9	4 ± 0.3
10000.0	6 ± 1.2	6 ± 0.7	12 ± 0.6	8 ± 2.1	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			88 ± 14.0	31 ± 3.5	134 ± 6.4
Positive Control <sup>4</sup>	496 ± 32.0	218 ± 19.9			

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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>	9 ± 0.3
100.0	7 ± 2.3
333.0	6 ± 1.2
1000.0	7 ± 0.3
3333.0	7 ± 1.8
10000.0	8 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	79 ± 8.4
Positive Control <sup>4</sup>	

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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>	13 ± 0.9	14 ± 0.7	24 ± 3.8	20 ± 1.2	28 ± 3.0
100.0	14 ± 2.1	15 ± 1.5	21 ± 1.5	19 ± 1.2	27 ± 1.8
333.0	14 ± 1.5	15 ± 1.7	21 ± 1.9	16 ± 1.8	27 ± 0.7
1000.0	15 ± 1.0	16 ± 0.3	20 ± 4.0	18 ± 1.2	21 ± 2.6
3333.0	16 ± 2.6	17 ± 0.3	30 ± 2.9	21 ± 3.1	21 ± 2.0
10000.0	23 ± 2.6	18 ± 4.1	29 ± 0.3	19 ± 2.6	24 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			529 ± 48.8	125 ± 7.6	905 ± 73.9
Positive Control <sup>5</sup>	374 ± 18.7	209 ± 27.0			



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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>	19 ± 1.5
100.0	21 ± 2.0
333.0	21 ± 1.2
1000.0	17 ± 1.2
3333.0	17 ± 1.0
10000.0	22 ± 2.7
Trial Summary	Negative
Positive Control <sup>2</sup>	251 ± 10.7
Positive Control <sup>5</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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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