

Experiment Number: 014831

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diethylenetriamine

CAS Number: 111-40-0

Date Report Requested: 09/14/2018

Time Report Requested: 06:56:18

**NTP Study Number:**

014831

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Diethylenetriamine

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## 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>	118 ± 10.3	129 ± 10.0	143 ± 4.7	122 ± 12.2	138 ± 5.7
33.0	131 ± 7.8	93 ± 10.4			
100.0	135 ± 9.7	91 ± 7.5	149 ± 10.8	113 ± 7.5	150 ± 12.2
333.0	152 ± 11.7	86 ± 7.8	154 ± 14.6	126 ± 15.3	152 ± 7.9
1000.0	128 ± 7.5	77 ± 8.4	150 ± 9.9	113 ± 7.2	159 ± 2.1
3333.0	98 ± 14.8 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	169 ± 12.2	0 ± 0.0 <sup>s</sup>	153 ± 7.3
10000.0			39 ± 38.7 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	159 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			412 ± 17.6	396 ± 27.0	1373 ± 44.0
Positive Control <sup>3</sup>	369 ± 11.7	557 ± 34.9			

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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>	131 ± 5.7
33.0	
100.0	149 ± 7.8
333.0	140 ± 7.7
1000.0	154 ± 4.3
3333.0	148 ± 6.4
10000.0	143 ± 7.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1565 ± 37.7
Positive Control <sup>3</sup>	

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Test Compound: Diethylenetriamine

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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>	31 ± 3.7	32 ± 3.2	29 ± 2.0	27 ± 2.4	13 ± 0.3
33.0	38 ± 4.2	20 ± 3.8			
100.0	20 ± 2.3	27 ± 1.8	38 ± 8.8	28 ± 3.7	27 ± 5.9
333.0	23 ± 2.7	25 ± 6.2	35 ± 3.0	36 ± 4.4	35 ± 3.7
1000.0	32 ± 3.8	17 ± 3.4	42 ± 1.2	28 ± 4.7	40 ± 10.5
3333.0	15 ± 1.8	0 ± 0.0 <sup>s</sup>	28 ± 6.4	0 ± 0.0 <sup>s</sup>	25 ± 6.1
10000.0			0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	14 ± 7.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	340 ± 15.0	467 ± 5.2			
Positive Control <sup>4</sup>			130 ± 3.8	163 ± 12.5	338 ± 22.7

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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>	23 ± 2.5
33.0	
100.0	38 ± 4.3
333.0	42 ± 1.5
1000.0	37 ± 3.5
3333.0	31 ± 1.5
10000.0	10 ± 9.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	451 ± 27.3

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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>	5 ± 0.6	5 ± 0.7	8 ± 2.6	12 ± 3.5	6 ± 1.0
33.0	5 ± 1.2	7 ± 1.5			
100.0	7 ± 0.9	4 ± 0.7	8 ± 0.3	8 ± 0.3	7 ± 1.5
333.0	5 ± 0.7	5 ± 0.0	9 ± 0.3	6 ± 1.0	9 ± 1.5
1000.0	8 ± 2.0	3 ± 1.5	10 ± 3.2	10 ± 2.5	10 ± 1.8
3333.0	3 ± 3.0 <sup>s</sup>	Toxic	10 ± 1.0	0 ± 0.0 <sup>s</sup>	9 ± 2.5
10000.0			4 ± 4.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	8 ± 2.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			191 ± 11.6	138 ± 6.4	534 ± 5.4
Positive Control <sup>5</sup>	894 ± 166.3	751 ± 33.2			

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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>	12 ± 1.8
33.0	
100.0	10 ± 2.1
333.0	8 ± 2.1
1000.0	10 ± 2.1
3333.0	11 ± 2.5
10000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	307 ± 24.1
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Diethylenetriamine

CAS Number: 111-40-0

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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>	17 ± 1.9	21 ± 2.3	35 ± 4.4	38 ± 2.6	29 ± 1.9
33.0	24 ± 4.2	16 ± 2.3			
100.0	24 ± 4.0	13 ± 5.9	38 ± 7.9	37 ± 4.4	39 ± 8.5
333.0	20 ± 2.6	13 ± 2.5	39 ± 0.6	42 ± 0.6	34 ± 1.2
1000.0	22 ± 2.5	12 ± 3.2	34 ± 7.7	26 ± 1.2	34 ± 2.8
3333.0	3 ± 3.0 <sup>s</sup>	Toxic	33 ± 9.3	0 ± 0.0 <sup>s</sup>	29 ± 0.9
10000.0			24 ± 12.4	0 ± 0.0 <sup>s</sup>	10 ± 10.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			254 ± 18.8	376 ± 19.1	830 ± 61.5
Positive Control <sup>6</sup>	600 ± 12.2	1033 ± 16.6			



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**G06: Ames Summary Data**

Test Compound: Diethylenetriamine

CAS Number: 111-40-0

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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>	38 ± 4.5
33.0	
100.0	45 ± 1.2
333.0	36 ± 3.2
1000.0	36 ± 3.2
3333.0	37 ± 0.9
10000.0	19 ± 9.7
Trial Summary	Negative
Positive Control <sup>2</sup>	1649 ± 83.9
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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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