

Experiment Number: **942194**

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

**G06: Ames Summary Data**

Test Compound: **Ethylenediamine**

CAS Number: **107-15-3**

Date Report Requested: **09/17/2018**

Time Report Requested: **12:49:35**

**NTP Study Number:**

942194

**Study Result:**

Positive

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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>	134 ± 7.8	128 ± 15.3	157 ± 0.9	167 ± 5.6	153 ± 4.9
33.0		149 ± 3.4		164 ± 9.0	
100.0	140 ± 2.7	159 ± 5.5	162 ± 1.9	163 ± 10.9	156 ± 11.6
333.0	165 ± 27.4	162 ± 8.6	162 ± 12.5	188 ± 2.9	150 ± 6.1
1000.0	165 ± 16.2	161 ± 5.2	164 ± 5.2	205 ± 3.5	173 ± 1.5
3333.0	230 ± 7.2	196 ± 5.0	228 ± 24.5	267 ± 4.2	211 ± 12.5
6666.0	10 ± 10.0 <sup>s</sup>		210 ± 7.8		289 ± 10.9 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Weakly Positive	Positive
Positive Control <sup>2</sup>			629 ± 18.2	1378 ± 65.0	1393 ± 4.9
Positive Control <sup>3</sup>	334 ± 24.3	570 ± 11.0			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 7.4
33.0	172 ± 6.9
100.0	165 ± 8.2
333.0	164 ± 1.5
1000.0	183 ± 4.2
3333.0	263 ± 18.3
6666.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	2347 ± 23.2
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Ethylenediamine

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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>	44 ± 3.3	17 ± 3.0	10 ± 2.3	8 ± 3.8	9 ± 1.5
33.0		20 ± 4.3		9 ± 1.0	
100.0	54 ± 2.2	24 ± 2.0	14 ± 1.5	9 ± 1.2	15 ± 3.1
333.0	59 ± 7.4	27 ± 1.5	20 ± 3.6	16 ± 2.7	22 ± 4.8
1000.0	76 ± 2.5	38 ± 3.2	37 ± 0.9	24 ± 3.0	41 ± 2.6
3333.0	99 ± 4.9	0 ± 0.0 <sup>s</sup>	102 ± 6.1 <sup>s</sup>	67 ± 3.0	134 ± 8.4
6666.0	0 ± 0.0 <sup>s</sup>		38 ± 10.8 <sup>s</sup>		185 ± 19.2 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>3</sup>	347 ± 8.3	490 ± 17.0			
Positive Control <sup>4</sup>			167 ± 2.9	330 ± 19.7	339 ± 23.0

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.9
33.0	7 ± 0.7
100.0	10 ± 2.6
333.0	17 ± 1.8
1000.0	21 ± 1.0
3333.0	59 ± 4.9
6666.0	
Trial Summary	Positive
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	573 ± 18.7

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	129 ± 1.0	191 ± 9.6	212 ± 20.6
100.0	158 ± 6.7	209 ± 1.7	234 ± 7.5
333.0	139 ± 11.4	223 ± 9.3	211 ± 15.3
1000.0	148 ± 9.0	231 ± 4.1	193 ± 0.8
3333.0	124 ± 8.7	166 ± 8.4	185 ± 14.7
6666.0	5 ± 1.9 <sup>s</sup>	82 ± 7.9 <sup>s</sup>	147 ± 4.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		1124 ± 38.4	1360 ± 50.4
Positive Control <sup>5</sup>	416 ± 27.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 3.1	34 ± 2.7	34 ± 3.0
100.0	22 ± 2.9	33 ± 0.0	39 ± 1.6
333.0	26 ± 3.3	30 ± 1.7	28 ± 1.5
1000.0	22 ± 2.8	31 ± 1.8	34 ± 3.1
3333.0	16 ± 2.3	24 ± 2.3	22 ± 3.3
6666.0	9 ± 9.0	3 ± 2.7 <sup>s</sup>	21 ± 2.6
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		642 ± 25.7	1238 ± 41.9
Positive Control <sup>6</sup>	605 ± 35.2		

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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: 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 \*\*