

Experiment Number: 986505

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

G06: Ames Summary Data

Test Compound: **Ethylenediamine**

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

Date Report Requested: **09/18/2018**

Time Report Requested: **07:29:58**

NTP Study Number:

986505

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 ¹	112 ± 10.7	98 ± 10.1	107 ± 4.6	86 ± 3.8	112 ± 5.0
33.3	125 ± 2.1			123 ± 7.6	145 ± 3.4
100.0	110 ± 2.7	136 ± 8.5	127 ± 12.5	131 ± 15.3	151 ± 9.8
333.3	127 ± 9.2	138 ± 6.2	142 ± 4.6	166 ± 4.1	149 ± 2.8
1000.0	102 ± 4.5	122 ± 9.9	148 ± 4.2	168 ± 10.3	178 ± 8.3
3333.3	159 ± 10.0	168 ± 10.3	159 ± 5.8	166 ± 2.1 ^s	148 ± 7.4 ^s
6666.6		206 ± 3.8	219 ± 6.7		
Trial Summary	Equivocal	Positive	Positive	Positive	Equivocal
Positive Control ²			633 ± 31.8	571 ± 39.1	1464 ± 84.3
Positive Control ³	281 ± 4.9	217 ± 3.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 4.0
33.3	
100.0	135 ± 7.2
333.3	151 ± 4.6
1000.0	145 ± 14.0
3333.3	174 ± 17.4
6666.6	221 ± 9.0
Trial Summary	Equivocal
Positive Control ²	1741 ± 54.0
Positive Control ³	

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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 ¹	11 ± 2.3	18 ± 0.6	9 ± 2.1	8 ± 1.9	7 ± 1.5
33.3	18 ± 1.8			6 ± 1.2	8 ± 0.7
100.0	17 ± 1.2	9 ± 1.8	12 ± 1.3	5 ± 1.7	5 ± 1.5
333.3	18 ± 3.7	12 ± 2.2	16 ± 0.9	9 ± 1.8	9 ± 2.0
1000.0	22 ± 4.7	18 ± 1.8	23 ± 2.4	19 ± 2.5	16 ± 1.2
3333.3	47 ± 4.5	38 ± 1.7	43 ± 4.7	29 ± 5.1 ^s	15 ± 3.3 ^s
6666.6		34 ± 8.4			
6666.7			78 ± 3.5		
Trial Summary	Equivocal	Equivocal	Positive	Equivocal	Negative
Positive Control ³	170 ± 3.9	126 ± 5.6			
Positive Control ⁴			246 ± 18.5	266 ± 8.7	333 ± 16.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9
33.3	
100.0	11 ± 2.8
333.3	9 ± 1.8
1000.0	21 ± 1.5
3333.3	47 ± 2.5
6666.6	82 ± 2.3 ^p
6666.7	
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	400 ± 24.9

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Test Compound: Ethylenediamine

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.0	7 ± 1.3	5 ± 0.7
33.3	8 ± 0.7	4 ± 0.6	6 ± 0.6
100.0	5 ± 0.7	3 ± 0.3	4 ± 0.7
333.3	6 ± 1.8	4 ± 1.5	6 ± 1.7
1000.0	4 ± 0.0	5 ± 1.2	6 ± 0.3
3333.3	7 ± 2.3	5 ± 1.5 ^s	4 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		142 ± 14.4	251 ± 3.8
Positive Control ⁵	122 ± 40.0		

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Test Compound: Ethylenediamine
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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.4	31 ± 3.6	32 ± 4.1
33.3	28 ± 1.8	31 ± 6.9	29 ± 5.0
100.0	25 ± 4.0	29 ± 0.9	35 ± 2.4
333.3	26 ± 2.6	27 ± 0.9	32 ± 1.0
1000.0	17 ± 1.7	28 ± 1.5	32 ± 0.6
3333.3	21 ± 2.2	7 ± 1.2 ^s	12 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		448 ± 22.1	1196 ± 47.3
Positive Control ⁶	438 ± 3.5		

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LEGEND

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****