

Experiment Number: 572096

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

G06: Ames Summary Data

Test Compound: **Ethylenediamine**

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

Date Report Requested: **09/14/2018**

Time Report Requested: **05:03:09**

NTP Study Number:

572096

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% Rat S9
Vehicle Control ¹	127 ± 8.9	123 ± 1.5	151 ± 18.3	177 ± 1.9	128 ± 3.2
100.0	158 ± 10.6	136 ± 12.8	152 ± 13.7	156 ± 19.8	
333.0	151 ± 9.8	145 ± 18.5	172 ± 2.6	160 ± 11.3	166 ± 6.3
1000.0	165 ± 6.0	134 ± 5.0	211 ± 8.5	221 ± 7.8	212 ± 6.7
1666.0		159 ± 11.1		218 ± 6.0	231 ± 4.5
3333.0	202 ± 10.8	185 ± 8.1	267 ± 12.5	212 ± 2.5	238 ± 0.3
6666.0	122 ± 64.3 ^s		294 ± 7.8 ^s		131 ± 118.0 ^s
Trial Summary	Equivocal	Equivocal	Positive	Equivocal	Positive
Positive Control ²					
Positive Control ³			390 ± 24.6	532 ± 30.1	1343 ± 24.1
Positive Control ⁴	477 ± 16.0	488 ± 28.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	124 ± 15.3	149 ± 8.1	137 ± 5.8
100.0	121 ± 6.4	169 ± 5.0	
333.0	154 ± 17.3	159 ± 9.7	123 ± 9.0
1000.0	185 ± 14.3	169 ± 15.9	171 ± 13.7
1666.0		192 ± 4.2	171 ± 2.6
3333.0	228 ± 21.1	212 ± 7.8	219 ± 14.5
6666.0	249 ± 9.2 ^s		Toxic
Trial Summary	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²	395 ± 2.9	748 ± 29.1	1235 ± 94.1
Positive Control ³			
Positive Control ⁴			

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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	28 ± 3.9	28 ± 1.2	10 ± 1.7	13 ± 1.2	12 ± 1.0
100.0	29 ± 1.0	25 ± 3.5	18 ± 3.5	9 ± 2.3	16 ± 5.8
333.0	31 ± 4.6	25 ± 4.0	21 ± 3.5	16 ± 1.5	16 ± 1.8
1000.0	44 ± 4.0	30 ± 3.8	36 ± 7.0	35 ± 3.2	36 ± 4.3
1666.0		47 ± 6.7		33 ± 3.3	
3333.0	67 ± 5.1	54 ± 10.2	83 ± 10.6	71 ± 4.4	82 ± 3.3
6666.0	78 ± 1.0 ^s		147 ± 16.8 ^s		75 ± 32.0 ^s
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ³					176 ± 7.3
Positive Control ⁴	487 ± 15.9	592 ± 4.6			
Positive Control ⁵			199 ± 10.3	148 ± 5.8	

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Test Compound: Ethylenediamine

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5
100.0	15 ± 0.7
333.0	19 ± 3.5
1000.0	24 ± 1.8
1666.0	36 ± 0.3
3333.0	81 ± 2.6
6666.0	
Trial Summary	Positive
Positive Control ³	228 ± 11.5
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 10.3	142 ± 9.5	144 ± 18.6
100.0	127 ± 27.0	127 ± 28.2	165 ± 3.0
333.0	119 ± 15.5	146 ± 28.1	165 ± 5.7
1000.0	118 ± 12.1	158 ± 24.4	198 ± 10.9
3333.0	117 ± 11.9	129 ± 18.5	109 ± 24.3 ^s
6666.0	26 ± 8.4 ^s	25 ± 17.9 ^s	11 ± 4.5 ^s
Trial Summary	Negative	Negative	Equivocal
Positive Control ²			484 ± 15.1
Positive Control ³		410 ± 10.4	
Positive Control ⁶	569 ± 33.8		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.5	32 ± 3.8	33 ± 5.9
100.0	19 ± 0.6	37 ± 2.6	42 ± 0.3
333.0	24 ± 3.2	38 ± 2.4	33 ± 5.3
1000.0	24 ± 2.0	41 ± 1.0	29 ± 8.1
3333.0	25 ± 4.4	25 ± 2.6	21 ± 9.2
6666.0	5 ± 4.7 ^s	10 ± 3.2 ^s	17 ± 4.4 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			576 ± 48.2
Positive Control ³		462 ± 28.8	
Positive Control ⁷	824 ± 40.3		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **