

Experiment Number: 414798

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: **23:36:53**

NTP Study Number:

414798

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 3.2	111 ± 3.0	106 ± 1.2
33.0	106 ± 11.9	97 ± 2.2	80 ± 3.8
100.0	101 ± 1.2	109 ± 0.8	96 ± 4.7
333.0	119 ± 2.3 ^s	102 ± 2.3	103 ± 3.5
1000.0	160 ± 9.9 ^s	108 ± 4.8 ^s	109 ± 6.7 ^s
2000.0	186 ± 18.8 ^s	120 ± 7.1 ^s	114 ± 3.5 ^s
Trial Summary	Equivocal	Negative	Negative
Positive Control ²			
Positive Control ³			490 ± 7.3
Positive Control ⁴	519 ± 11.4		
Positive Control ⁵		921 ± 46.2	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	25 ± 2.4	12 ± 1.5	11 ± 2.3	11 ± 2.1	11 ± 2.7
33.0	19 ± 1.0	16 ± 0.7	7 ± 1.9	12 ± 0.9	18 ± 1.9
100.0	26 ± 0.7	13 ± 2.0	14 ± 3.5	12 ± 0.7	12 ± 1.7
333.0	29 ± 3.8	20 ± 1.2	17 ± 4.4	21 ± 1.2	25 ± 4.9
1000.0	22 ± 0.6 ^s	24 ± 1.2 ^s	34 ± 7.5 ^s	32 ± 1.2 ^s	26 ± 1.0
2000.0	32 ± 4.5 ^s	29 ± 4.0 ^s	37 ± 0.0 ^s	53 ± 5.9 ^s	37 ± 4.9
3333.0					
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive	Weakly Positive
Positive Control ²					
Positive Control ³					
Positive Control ⁴	316 ± 16.8				
Positive Control ⁵					
Positive Control ⁶					
Positive Control ⁷		237 ± 41.6			88 ± 11.7
Positive Control ⁸			208 ± 10.8	219 ± 8.2	

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9	11 ± 2.6	11 ± 0.9	17 ± 3.3
33.0	10 ± 1.8	13 ± 5.4	12 ± 2.0	13 ± 1.5
100.0	14 ± 1.8	17 ± 0.3	18 ± 3.7	18 ± 1.5
333.0	24 ± 2.0	19 ± 4.1	19 ± 1.8	20 ± 1.2
1000.0	29 ± 1.2 ^s	33 ± 2.7 ^s	28 ± 1.5	29 ± 1.3
2000.0	34 ± 9.1 ^s	39 ± 6.7 ^s		41 ± 3.0 ^s
3333.0			37 ± 2.6 ^s	
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Equivocal
Positive Control ²				
Positive Control ³		48 ± 3.2	51 ± 7.1	
Positive Control ⁴				
Positive Control ⁵	111 ± 1.9			
Positive Control ⁶				78 ± 5.5
Positive Control ⁷				
Positive Control ⁸				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	90 ± 0.3	119 ± 4.7	76 ± 8.0
33.0	83 ± 6.0	114 ± 2.2	100 ± 9.2
100.0	83 ± 5.9	104 ± 11.5	92 ± 6.8
333.0	98 ± 2.3	114 ± 5.5	90 ± 8.0
1000.0	87 ± 0.5 ^s	100 ± 3.2 ^s	97 ± 2.1 ^s
2000.0	77 ± 4.7 ^s	75 ± 1.7 ^s	101 ± 2.8 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			312 ± 9.6
Positive Control ⁸		238 ± 16.7	
Positive Control ⁹	1413 ± 28.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.5	33 ± 1.7	33 ± 1.2
33.0	18 ± 1.8	28 ± 5.5	25 ± 1.9
100.0	18 ± 2.3	27 ± 2.6	27 ± 3.2
333.0	17 ± 1.5	33 ± 3.8	25 ± 1.7
1000.0	17 ± 2.9 ^s	27 ± 3.8 ^s	33 ± 1.5 ^s
2000.0	13 ± 2.1 ^s	12 ± 1.7 ^s	13 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ¹⁰			148 ± 8.3
Positive Control ³		253 ± 2.4	
Positive Control ¹¹	212 ± 16.8		

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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: 0.25 ug/Plate Sodium Azide
 - 3: 0.4 ug/Plate 2-Aminoanthracene
 - 4: 0.5 ug/Plate Sodium Azide
 - 5: 0.75 ug/Plate 2-Aminoanthracene
 - 6: 1.0 ug/Plate 2-Aminoanthracene
 - 7: 1.5 ug/Plate 2-Aminoanthracene
 - 8: 2.0 ug/Plate 2-Aminoanthracene
 - 9: 3.5 ug/Plate 9-Aminoacridine
 - 10: 0.2 ug/Plate 2-Aminoanthracene
 - 11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **