

Experiment Number: 101009

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylenediamine

CAS Number: 107-15-3

Date Report Requested: 09/11/2018

Time Report Requested: 13:33:34

NTP Study Number:

101009

Study Result:

Weakly 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	122 ± 3.3	115 ± 5.6	130 ± 13.3	117 ± 11.6	98 ± 2.4
30.0	126 ± 5.8	118 ± 8.4	135 ± 6.7	103 ± 1.8	133 ± 24.0
100.0	117 ± 8.4	126 ± 12.5	116 ± 9.3	88 ± 8.4	109 ± 8.4
300.0	111 ± 4.8	130 ± 4.5	142 ± 5.6	133 ± 2.4	119 ± 7.5
1000.0	173 ± 7.8	156 ± 5.5	185 ± 7.1	153 ± 2.0	131 ± 16.1
3000.0	159 ± 1.5 ^s	155 ± 19.7 ^s	149 ± 12.2 ^s	164 ± 4.9 ^s	185 ± 11.8 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					3659 ± 20.5
Positive Control ³			1256 ± 5.8	1264 ± 86.8	
Positive Control ⁴	1995 ± 77.9	1864 ± 48.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 4.9
30.0	112 ± 10.7
100.0	111 ± 6.1
300.0	114 ± 12.6
1000.0	146 ± 7.1
3000.0	160 ± 4.2 ^s
Trial Summary	Equivocal
Positive Control ²	2739 ± 115.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 1.0	19 ± 1.0	16 ± 3.3	19 ± 6.7	9 ± 1.2
30.0	19 ± 3.8	19 ± 3.8	22 ± 1.5	9 ± 0.9	15 ± 2.6
100.0	22 ± 1.5	22 ± 1.5	21 ± 3.6	10 ± 4.7	15 ± 5.1
300.0	23 ± 2.0	23 ± 2.0	21 ± 4.1	18 ± 2.4	13 ± 1.7
1000.0	22 ± 3.2	22 ± 3.2	28 ± 1.2	28 ± 1.5	28 ± 1.9
3000.0	Toxic	Toxic	Toxic	29 ± 4.9 ^s	29 ± 4.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ²					
Positive Control ³				82 ± 5.5	81 ± 3.3
Positive Control ⁴	1305 ± 40.0	1305 ± 40.0	887 ± 142.0		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.9	13 ± 1.0
30.0	11 ± 3.5	8 ± 1.0
100.0	13 ± 0.0	12 ± 0.3
300.0	17 ± 1.0	10 ± 0.3
1000.0	26 ± 1.0	19 ± 3.5
3000.0	Toxic	20 ± 1.5 ^s
Trial Summary	Negative	Negative
Positive Control ²	143 ± 17.9	123 ± 8.8
Positive Control ³		
Positive Control ⁴		

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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 ¹	4 ± 1.2	9 ± 1.2	11 ± 0.7	17 ± 11.4	10 ± 4.1
30.0	5 ± 1.0	8 ± 1.2	7 ± 2.2	9 ± 0.6	9 ± 2.0
100.0	4 ± 0.7	9 ± 0.9	7 ± 2.7	8 ± 1.0	8 ± 0.7
300.0	8 ± 1.2	8 ± 3.6	9 ± 1.5	11 ± 1.5	9 ± 2.6
1000.0	10 ± 1.5	7 ± 1.0	9 ± 0.3	8 ± 1.9	8 ± 1.5
3000.0	Toxic	8 ± 1.2 ^s	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					358 ± 15.6
Positive Control ³			69 ± 6.5	55 ± 2.6	
Positive Control ⁵	65 ± 3.8	192 ± 65.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
30.0	6 ± 0.3
100.0	6 ± 0.7
300.0	4 ± 0.7
1000.0	8 ± 1.3
3000.0	13 ± 1.0 ^s
Trial Summary	Negative
Positive Control ²	255 ± 5.8
Positive Control ³	
Positive Control ⁵	

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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 ¹	14 ± 4.0	19 ± 1.8	28 ± 3.5	22 ± 2.9	27 ± 1.5
30.0	16 ± 2.6	23 ± 0.9	31 ± 1.7	24 ± 3.5	23 ± 1.8
100.0	19 ± 2.3	26 ± 1.8	27 ± 2.9	20 ± 1.0	28 ± 2.9
300.0	16 ± 1.2	22 ± 1.8	33 ± 7.0	24 ± 1.2	23 ± 5.4
1000.0	22 ± 2.7	21 ± 1.5	38 ± 4.7	27 ± 1.5	26 ± 2.0
3000.0	Toxic	43 ± 28.0 ^s	Toxic	15 ± 2.3 ^s	11 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2974 ± 112.2
Positive Control ³			1120 ± 27.6	1322 ± 35.8	
Positive Control ⁶	1399 ± 43.7	1564 ± 29.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.5
30.0	27 ± 2.3
100.0	20 ± 1.8
300.0	16 ± 3.7
1000.0	23 ± 2.2
3000.0	20 ± 4.3 ^s
Trial Summary	Negative
Positive Control ²	2748 ± 127.3
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **