

Experiment Number: 301015

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-(Hydroxyethyl)ethylenediamine

CAS Number: 111-41-1

Date Report Requested: 09/11/2018

Time Report Requested: 22:13:16

NTP Study Number:

301015

Study Result:

Weakly Positive

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Test Compound: N-(Hydroxyethyl)ethylenediamine

CAS Number: 111-41-1

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	160 ± 2.0	147 ± 5.0	154 ± 8.8
33.0	158 ± 6.4	150 ± 0.7	148 ± 4.3
100.0	165 ± 4.3	158 ± 7.7	155 ± 1.2
333.0	173 ± 7.5	162 ± 4.3	160 ± 5.5
1000.0	192 ± 1.7	157 ± 11.0	165 ± 15.7
3333.0	197 ± 10.8 ^s	185 ± 7.5 ^s	192 ± 4.2 ^s
Trial Summary	Equivocal	Negative	Equivocal
Positive Control ²			707 ± 72.3
Positive Control ³		778 ± 7.5	
Positive Control ⁴	1473 ± 26.6		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	27 ± 4.1	34 ± 0.9	8 ± 2.4	41 ± 3.8	10 ± 2.1
33.0	28 ± 5.9				11 ± 1.7
100.0	26 ± 3.2	35 ± 2.7	11 ± 2.1	43 ± 1.8	12 ± 1.7
333.0	34 ± 3.8	42 ± 5.9	11 ± 0.7	42 ± 6.8	13 ± 1.2
1000.0	33 ± 6.1	32 ± 2.4	9 ± 2.4	39 ± 5.2	9 ± 2.6
1800.0		24 ± 3.3	7 ± 0.6	27 ± 4.4	
2800.0		16 ± 3.1 ^s	7 ± 1.2 ^s	25 ± 3.5 ^s	
3333.0	18 ± 2.0 ^s	19 ± 3.5 ^s	3 ± 0.6 ^s	27 ± 3.5 ^s	21 ± 3.2 ^s
3500.0		13 ± 2.9 ^s	5 ± 0.6 ^s	14 ± 0.6 ^s	
4000.0		14 ± 2.0 ^s	5 ± 0.9 ^s	21 ± 0.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³					79 ± 8.1
Positive Control ⁴	1262 ± 14.0	1484 ± 111.0	869 ± 23.8	1124 ± 41.3	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 12% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.8	6 ± 2.0	7 ± 0.3	13 ± 2.5	12 ± 0.9
33.0					10 ± 2.4
100.0	16 ± 2.6	12 ± 1.9	10 ± 2.6	9 ± 2.1	13 ± 0.9
333.0	16 ± 2.8	7 ± 0.3	7 ± 3.3	16 ± 1.9	11 ± 0.6
1000.0	13 ± 1.0	11 ± 2.5	8 ± 1.2	12 ± 0.6	11 ± 1.2
1800.0	17 ± 1.3	12 ± 1.5	7 ± 1.2	10 ± 1.7	
2800.0	22 ± 2.4	11 ± 2.9	10 ± 2.9	24 ± 7.1	
3333.0	33 ± 3.7 ^s	11 ± 2.2 ^s	13 ± 0.9 ^s	30 ± 0.7 ^s	21 ± 0.9 ^s
3500.0	28 ± 2.4 ^s	9 ± 0.9 ^s	11 ± 4.0 ^s	31 ± 1.3 ^s	
4000.0	28 ± 1.5 ^s	7 ± 2.3 ^s	7 ± 1.3 ^s	32 ± 1.2 ^s	
Trial Summary	Positive	Negative	Negative	Weakly Positive	Negative
Positive Control ²		85 ± 2.3			80 ± 1.8
Positive Control ³	95 ± 11.4		83 ± 4.7	125 ± 11.9	
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 12% Hamster S9
Vehicle Control ¹	13 ± 1.7	13 ± 1.3
33.0		
100.0	16 ± 1.5	13 ± 1.9
333.0	16 ± 1.5	11 ± 0.6
1000.0	19 ± 2.4	12 ± 1.5
1800.0	16 ± 0.3	14 ± 1.7
2800.0	37 ± 2.7	35 ± 3.4
3333.0	25 ± 2.4 ^s	36 ± 2.0 ^s
3500.0	32 ± 4.1 ^s	32 ± 3.7 ^s
4000.0	23 ± 1.2 ^s	25 ± 4.1 ^s
Trial Summary	Weakly Positive	Weakly Positive
Positive Control ²	99 ± 2.3	117 ± 8.5
Positive Control ³		
Positive Control ⁴		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.9	9 ± 2.0	8 ± 1.8
33.0	7 ± 2.6	6 ± 2.6	11 ± 3.2
100.0	8 ± 2.5	9 ± 2.0	9 ± 1.3
333.0	6 ± 1.2	9 ± 1.9	11 ± 3.5
1000.0	7 ± 0.3	8 ± 0.9	10 ± 1.5
3333.0	5 ± 1.5 ^s	5 ± 0.6 ^s	4 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			74 ± 4.5
Positive Control ³		57 ± 5.8	
Positive Control ⁵	64 ± 3.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.6	24 ± 2.2	25 ± 1.5
33.0	22 ± 2.4	27 ± 3.0	26 ± 1.2
100.0	21 ± 3.5	28 ± 2.0	27 ± 2.4
333.0	18 ± 4.0	21 ± 1.7	29 ± 3.3
1000.0	22 ± 2.1	25 ± 1.8	33 ± 2.2
3333.0	19 ± 2.7 ^s	23 ± 1.8 ^s	20 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			414 ± 42.7
Positive Control ³		366 ± 24.6	
Positive Control ⁶	1458 ± 18.0		

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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 ****