

Experiment Number: 579654

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-(1-Naphthyl)ethylenediamine dihydrochloride
CAS Number: 1465-25-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:38:28

NTP Study Number:

579654

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	134 ± 1.2	120 ± 0.3	128 ± 1.0	120 ± 1.8	100 ± 4.1
1.0					
3.3	129 ± 6.7	124 ± 3.8			
10.0	131 ± 1.2	120 ± 7.5			
33.0	136 ± 7.6	113 ± 7.2	130 ± 1.2	126 ± 1.8	160 ± 8.4
100.0	143 ± 5.0	104 ± 7.6	110 ± 11.9	120 ± 11.5	188 ± 9.7
333.0	125 ± 11.0 ^s	108 ± 7.2 ^s	113 ± 9.1	114 ± 12.3	209 ± 7.8
800.0					
1000.0			131 ± 5.5	122 ± 8.3	211 ± 14.8
1200.0					
1500.0				116 ± 9.6 ^s	
2150.0			119 ± 7.4 ^s		154 ± 17.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²					1917 ± 59.2
Positive Control ³			929 ± 36.7	1403 ± 24.5	
Positive Control ⁴	2306 ± 21.3	2045 ± 11.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 7.1	113 ± 5.8
1.0		136 ± 8.8
3.3		169 ± 5.7
10.0		189 ± 3.3
33.0	190 ± 9.4	205 ± 1.5
100.0	200 ± 5.8	228 ± 13.9
333.0	199 ± 3.4	224 ± 7.8
800.0		272 ± 16.7
1000.0	206 ± 9.0	266 ± 18.5
1200.0		253 ± 1.5 ^s
1500.0	173 ± 8.3 ^s	
2150.0		
Trial Summary	Equivocal	Positive
Positive Control ²	2333 ± 72.5	2226 ± 31.7
Positive Control ³		
Positive Control ⁴		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 4.7	9 ± 0.0	10 ± 1.2
3.3	29 ± 1.2		
10.0	34 ± 6.4		
33.0	33 ± 1.2	14 ± 1.7	13 ± 1.9
100.0	29 ± 2.6	12 ± 3.0	13 ± 2.6
333.0	27 ± 5.0 ^s	8 ± 0.7	12 ± 0.9
1000.0		12 ± 1.5	12 ± 1.2
2150.0		10 ± 1.7 ^s	11 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			109 ± 0.7
Positive Control ³		48 ± 4.4	
Positive Control ⁴	1975 ± 81.5		

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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	6 ± 2.0	5 ± 1.9	7 ± 1.7	6 ± 0.3	8 ± 0.0
0.1				4 ± 0.7	
1.0				9 ± 1.8	
3.3	7 ± 0.9	5 ± 1.3			
10.0	7 ± 1.7	4 ± 1.3		11 ± 0.6	
33.0	6 ± 2.9	7 ± 1.2	9 ± 1.8		19 ± 3.2
100.0	9 ± 2.0	7 ± 1.7	12 ± 1.0	11 ± 2.8	18 ± 2.3
333.0	9 ± 1.3 ^s	7 ± 1.9 ^s	13 ± 3.6		19 ± 3.0
800.0					
1000.0			9 ± 0.6	11 ± 1.9	17 ± 2.4
1200.0					
2150.0			9 ± 1.7 ^s		16 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					168 ± 10.9
Positive Control ³			71 ± 0.6	133 ± 6.1	
Positive Control ⁵	1251 ± 104.8	279 ± 18.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.1	8 ± 1.9
0.1	6 ± 0.3	
1.0	9 ± 3.1	11 ± 1.8
3.3		13 ± 0.3
10.0	13 ± 1.7	12 ± 1.5
33.0		14 ± 3.2
100.0	16 ± 3.2	18 ± 1.8
333.0		17 ± 1.8
800.0		15 ± 0.6
1000.0	17 ± 0.3	12 ± 1.0
1200.0		16 ± 4.6 ^s
2150.0		
Trial Summary	Positive	Equivocal
Positive Control ²	195 ± 5.8	233 ± 10.3
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	17 ± 2.3	13 ± 0.7	25 ± 1.9	25 ± 4.2	25 ± 0.3
0.1				28 ± 2.1	
1.0				23 ± 3.9	
3.3	18 ± 1.2	18 ± 1.5			
10.0	17 ± 3.7	19 ± 3.2		23 ± 3.3	
33.0	14 ± 3.0	19 ± 3.6	34 ± 4.4		31 ± 3.8
100.0	19 ± 2.8	18 ± 2.0	27 ± 1.5	21 ± 0.9	38 ± 1.0
333.0	19 ± 0.7 ^s	20 ± 3.8 ^s	25 ± 2.9		38 ± 0.3
800.0					
1000.0			25 ± 2.7	24 ± 2.6	41 ± 6.4
1200.0					
2150.0			12 ± 1.5 ^s		8 ± 3.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					1636 ± 100.8
Positive Control ³			722 ± 36.2	1170 ± 40.2	
Positive Control ⁶	2259 ± 24.5	2137 ± 98.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 3.2	26 ± 2.6
0.1	29 ± 1.8	
1.0	31 ± 0.5	30 ± 1.2
3.3		32 ± 1.3
10.0	34 ± 2.6	28 ± 4.0
33.0		41 ± 6.8
100.0	44 ± 0.9	40 ± 3.5
333.0		37 ± 5.5
800.0		42 ± 2.9
1000.0	52 ± 4.3	44 ± 5.9
1200.0		41 ± 3.4 ^s
2150.0		
Trial Summary	Positive	Equivocal
Positive Control ²	2041 ± 39.3	2012 ± 136.6
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: Dimethyl Sulfoxide

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 ****