

Experiment Number: 003753

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,3-Diaminopropane

CAS Number: 109-76-2

Date Report Requested: 09/14/2018

Time Report Requested: 00:03:52

NTP Study Number:

003753

Study Result:

Negative

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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	118 ± 10.3	121 ± 4.8	143 ± 4.7	128 ± 6.0	131 ± 10.1
10.0	134 ± 15.2	132 ± 9.6			
33.0	122 ± 12.6	114 ± 6.2		125 ± 13.9	137 ± 8.0
100.0	105 ± 6.6	109 ± 4.1	109 ± 9.6	134 ± 11.1	148 ± 12.7
333.0	120 ± 8.7	110 ± 10.0	118 ± 11.2	131 ± 8.7	128 ± 17.0
1000.0	115 ± 13.6	91 ± 11.7	120 ± 12.5	125 ± 8.0	120 ± 8.0
1666.0					126 ± 6.2
3333.0			0 ± 0.0 ^s	94 ± 6.7 ^s	
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			412 ± 17.6	484 ± 15.3	552 ± 14.0
Positive Control ³	369 ± 11.7	319 ± 18.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	138 ± 5.7	121 ± 6.0	139 ± 8.6
10.0			
33.0		142 ± 4.7	144 ± 5.3
100.0	144 ± 3.4	146 ± 4.8	132 ± 10.8
333.0	136 ± 3.2	130 ± 9.8	145 ± 3.9
1000.0	143 ± 3.8	129 ± 7.7	130 ± 3.5
1666.0			124 ± 6.8
3333.0	22 ± 21.7 ^s	0 ± 0.0 ^s	
10000.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control ²	1373 ± 44.0	1322 ± 122.9	1705 ± 35.5
Positive Control ³			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	31 ± 3.7	18 ± 1.0	29 ± 2.0	19 ± 3.0	25 ± 2.7
10.0	40 ± 7.0	18 ± 0.9			
33.0	27 ± 2.0	24 ± 5.2		27 ± 4.9	36 ± 5.2
100.0	33 ± 4.3	21 ± 2.7	28 ± 5.8	34 ± 8.7	38 ± 5.9
333.0	39 ± 7.2	19 ± 0.9	26 ± 2.6	34 ± 4.7	38 ± 6.1
1000.0	32 ± 5.3	15 ± 3.2	26 ± 5.8	36 ± 2.1	40 ± 5.9
1666.0					18 ± 6.9 ^s
3333.0			0 ± 0.0 ^s	0 ± 0.0 ^s	
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	340 ± 15.0	313 ± 9.0			
Positive Control ⁴			130 ± 3.8	198 ± 7.5	228 ± 5.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.3	16 ± 5.0	32 ± 3.8
10.0			
33.0		17 ± 1.2	35 ± 4.0
100.0	37 ± 2.7	20 ± 3.8	33 ± 7.4
333.0	40 ± 7.0	21 ± 2.3	25 ± 4.9
1000.0	46 ± 4.4	29 ± 0.9	31 ± 4.1
1666.0			16 ± 9.5 ^s
3333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	
10000.0	Toxic		
Trial Summary	Equivocal	Negative	Negative
Positive Control ³			
Positive Control ⁴	338 ± 22.7	340 ± 5.5	518 ± 37.7

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 0.6	6 ± 1.5	8 ± 2.6	13 ± 0.7	4 ± 0.6
10.0	6 ± 1.0	7 ± 2.9			
33.0	6 ± 0.3	4 ± 1.2		6 ± 1.7	7 ± 1.5
100.0	5 ± 0.9	6 ± 2.8	6 ± 1.5	5 ± 1.5	8 ± 0.3
333.0	6 ± 0.9	4 ± 0.3	9 ± 2.5	7 ± 0.6	11 ± 1.7
1000.0	6 ± 1.2	4 ± 0.6	8 ± 0.7	10 ± 1.7	10 ± 2.7
1666.0					6 ± 1.8 ^s
3333.0			0 ± 0.0 ^s	6 ± 3.5 ^s	
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			191 ± 11.6	138 ± 8.4	158 ± 3.8
Positive Control ⁵	920 ± 177.3	375 ± 36.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.0	6 ± 2.0	4 ± 0.6
10.0			
33.0		8 ± 1.5	7 ± 0.9
100.0	7 ± 1.9	6 ± 1.5	10 ± 2.4
333.0	8 ± 0.6	6 ± 0.0	5 ± 0.6
1000.0	7 ± 0.3	5 ± 0.9	3 ± 0.9
1666.0			0 ± 0.0 ^s
3333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	
10000.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	534 ± 5.4	511 ± 10.7	346 ± 18.3
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% Rat S9
Vehicle Control ¹	17 ± 1.9	16 ± 0.7	35 ± 4.4	20 ± 2.3	35 ± 0.7
10.0	22 ± 1.2	18 ± 0.0			
33.0	17 ± 0.9	14 ± 1.2		37 ± 4.0	31 ± 3.0
100.0	24 ± 2.4	21 ± 2.3	30 ± 3.2	34 ± 6.5	36 ± 2.0
333.0	16 ± 1.5	19 ± 1.7	29 ± 1.5	33 ± 5.5	33 ± 2.3
1000.0	15 ± 3.2	18 ± 3.2	33 ± 4.8	31 ± 0.7	31 ± 5.4
1666.0					6 ± 5.7 ^s
3333.0			0 ± 0.0 ^s	0 ± 0.0 ^s	
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			254 ± 18.8	330 ± 20.7	394 ± 30.8
Positive Control ⁶	600 ± 12.2	520 ± 46.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 1.9	19 ± 1.2	29 ± 4.5
10.0			
33.0		33 ± 6.6	38 ± 0.9
100.0	36 ± 6.0	31 ± 3.5	32 ± 1.7
333.0	32 ± 0.6	28 ± 5.1	38 ± 5.3
1000.0	31 ± 4.0	30 ± 0.9	31 ± 5.8
1666.0			0 ± 0.0 ^s
3333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	
10000.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control ²	830 ± 61.5	1276 ± 31.8	1517 ± 21.9
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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****