

Experiment Number: 013069

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propylenediamine

CAS Number: 78-90-0

Date Report Requested: 09/14/2018

Time Report Requested: 06:41:07

NTP Study Number:

013069

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	116 ± 4.3	96 ± 2.6	141 ± 7.3	108 ± 2.6	128 ± 6.7
100.0	117 ± 7.7	95 ± 10.5			
333.0	136 ± 5.8	104 ± 10.3	141 ± 13.4	109 ± 8.1	136 ± 4.2
1000.0	137 ± 13.0	101 ± 1.5	150 ± 18.9	133 ± 10.1	143 ± 4.9
1666.0	136 ± 7.2	101 ± 13.7		133 ± 10.1	152 ± 7.8
3333.0	28 ± 1.2	46 ± 32.5 ^s	183 ± 13.6	135 ± 8.7	196 ± 5.5
6666.0			185 ± 14.6	43 ± 43.0 ^s	187 ± 2.0
10000.0			132 ± 10.2 ^s		
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²			500 ± 27.7	215 ± 10.6	572 ± 32.9
Positive Control ³	397 ± 20.2	221 ± 20.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 3.0	96 ± 3.2	128 ± 18.1
100.0			
333.0	139 ± 13.9	106 ± 3.3	129 ± 12.0
1000.0	138 ± 18.0	112 ± 2.3	126 ± 7.9
1666.0		105 ± 7.1	143 ± 7.8
3333.0	177 ± 3.2	113 ± 7.2	127 ± 7.6
6666.0	190 ± 4.3	83 ± 8.1 ^s	137 ± 12.9
10000.0	120 ± 5.8 ^s		
Trial Summary	Equivocal	Negative	Negative
Positive Control ²	1516 ± 77.3	446 ± 28.7	1112 ± 18.2
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	25 ± 1.2	15 ± 1.7	12 ± 1.5	10 ± 1.2	12 ± 1.7
100.0	26 ± 2.3	11 ± 1.5			
333.0	28 ± 5.2	12 ± 2.5	12 ± 2.3	10 ± 1.2	5 ± 0.9
1000.0	24 ± 0.7	10 ± 2.1	13 ± 0.3	10 ± 2.1	6 ± 1.2
1666.0	17 ± 0.6	9 ± 1.8		11 ± 0.6	8 ± 2.1
3333.0	8 ± 2.8 ^s	1 ± 0.9 ^s	31 ± 3.2	11 ± 2.3	9 ± 1.5
6666.0			31 ± 1.2	0 ± 0.0 ^s	10 ± 1.8
10000.0			0 ± 0.0 ^s		
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ³	359 ± 15.0	180 ± 2.1			
Positive Control ⁴			287 ± 35.3	137 ± 0.3	129 ± 17.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9	9 ± 1.3	16 ± 0.9
100.0			
333.0	11 ± 0.7	6 ± 0.9	11 ± 1.2
1000.0	11 ± 2.1	8 ± 2.6	9 ± 1.5
1666.0		7 ± 1.2	10 ± 2.5
3333.0	35 ± 5.1	10 ± 2.3	10 ± 1.5
6666.0	24 ± 3.5	1 ± 0.7 ^s	12 ± 1.9
10000.0	5 ± 5.3 ^s		
Trial Summary	Equivocal	Negative	Negative
Positive Control ³			
Positive Control ⁴	483 ± 4.5	114 ± 7.3	312 ± 11.7

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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	7 ± 0.6	5 ± 0.9	6 ± 1.2	3 ± 0.9	4 ± 0.7
100.0	7 ± 1.7	3 ± 0.3			
333.0	5 ± 0.9	4 ± 0.6	8 ± 2.3	6 ± 1.2	6 ± 0.6
1000.0	4 ± 0.3	4 ± 0.9	8 ± 2.3	4 ± 0.6	9 ± 2.9
1666.0	6 ± 1.5	3 ± 0.3		3 ± 0.6	
3333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	6 ± 1.2	5 ± 1.5	6 ± 0.6
6666.0			7 ± 0.9	0 ± 0.0 ^s	7 ± 1.3
10000.0			3 ± 3.0 ^s		7 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			174 ± 7.8	105 ± 5.0	473 ± 16.9
Positive Control ⁵	78 ± 3.8	86 ± 4.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7
100.0	
333.0	5 ± 1.3
1000.0	5 ± 1.3
1666.0	5 ± 1.3
3333.0	5 ± 1.0
6666.0	2 ± 0.9 ^s
10000.0	
Trial Summary	Negative
Positive Control ⁴	135 ± 17.5
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 ± 2.0	14 ± 1.5	35 ± 3.3	27 ± 0.6	40 ± 2.5
100.0	14 ± 1.5	15 ± 2.5			
333.0	12 ± 0.9	13 ± 2.0	29 ± 1.3	17 ± 1.3	31 ± 0.6
1000.0	12 ± 1.2	11 ± 0.7	37 ± 2.3	16 ± 1.5	37 ± 8.4
1666.0	11 ± 0.9	14 ± 2.0		16 ± 2.1	
3333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	31 ± 6.2	18 ± 1.9	21 ± 3.6
6666.0			23 ± 2.6	0 ± 0.0 ^s	21 ± 6.6
10000.0			15 ± 7.8 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			398 ± 8.4	118 ± 7.0	1033 ± 95.2
Positive Control ⁶	373 ± 15.6	430 ± 4.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.9
100.0	
333.0	22 ± 3.3
1000.0	23 ± 3.1
1666.0	22 ± 2.8
3333.0	11 ± 2.6
6666.0	0 ± 0.0 ^s
10000.0	
Trial Summary	Negative
Positive Control ²	338 ± 5.2
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: 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 ****