

Experiment Number: 528968

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diaminomaleonitrile

CAS Number: 1187-42-4

Date Report Requested: 09/12/2018

Time Report Requested: 18:40:44

NTP Study Number:

528968

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	167 ± 6.9	109 ± 19.9	133 ± 11.6	109 ± 2.6	156 ± 5.9
1.0	149 ± 17.3				
3.0	133 ± 16.2	104 ± 4.1			
10.0	146 ± 10.0	103 ± 11.2	136 ± 7.5		142 ± 17.2
33.0	80 ± 39.8	89 ± 7.8	139 ± 12.7		140 ± 9.3
100.0	95 ± 15.7	83 ± 3.7	147 ± 3.5	116 ± 9.1	149 ± 3.7
333.0		11 ± 5.5 ^s	150 ± 4.7	127 ± 5.8	119 ± 3.4
1000.0			129 ± 1.5	130 ± 4.3	147 ± 11.9
3333.0				109 ± 5.6	
10000.0				89 ± 5.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1139 ± 37.1	433 ± 30.0	2021 ± 62.1
Positive Control ³	494 ± 5.0	481 ± 5.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	124 ± 9.2
1.0	
3.0	
10.0	
33.0	
100.0	127 ± 9.8
333.0	121 ± 3.2
1000.0	124 ± 11.8
3333.0	112 ± 5.3
10000.0	116 ± 13.4
Trial Summary	Negative
Positive Control ²	927 ± 16.3
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 4.5	32 ± 1.3	12 ± 2.7	13 ± 2.1	11 ± 0.3
1.0	32 ± 8.1				
3.0	35 ± 5.1	27 ± 2.7			
10.0	32 ± 2.7	24 ± 1.0	8 ± 1.9		15 ± 1.2
33.0	35 ± 4.6	31 ± 5.5	12 ± 1.2		15 ± 2.6
100.0	20 ± 6.1	30 ± 1.5	10 ± 2.6	11 ± 1.0	8 ± 2.1
333.0		11 ± 1.5	11 ± 1.0	12 ± 1.0	7 ± 3.6
1000.0			11 ± 1.5	10 ± 0.3	7 ± 4.1
3333.0				11 ± 2.0	
10000.0				7 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	448 ± 224.2	509 ± 24.1			
Positive Control ⁴			779 ± 60.4	167 ± 10.1	1002 ± 33.5

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.0
1.0	
3.0	
10.0	
33.0	
100.0	10 ± 1.5
333.0	8 ± 1.5
1000.0	8 ± 0.7
3333.0	12 ± 3.1
10000.0	11 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	538 ± 21.8

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	147 ± 10.2	142 ± 6.8	197 ± 2.7	220 ± 4.6	180 ± 12.3
1.0	150 ± 25.0				
3.0	142 ± 6.8	150 ± 11.2			
10.0	137 ± 4.1	150 ± 5.5	192 ± 3.0		176 ± 8.3
33.0	143 ± 8.6	147 ± 6.9	212 ± 9.5		174 ± 10.7
100.0	0 ± 0.0 ^s	133 ± 10.1	214 ± 8.2	204 ± 10.7	162 ± 1.2
333.0		74 ± 10.5	208 ± 5.0	209 ± 1.5	173 ± 11.5
1000.0			191 ± 10.3	196 ± 13.3	180 ± 4.9
3333.0				181 ± 5.5	
10000.0				137 ± 15.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1220 ± 25.3	687 ± 3.7	1533 ± 49.5
Positive Control ⁵	1368 ± 88.0	1135 ± 91.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	179 ± 7.2
1.0	
3.0	
10.0	
33.0	
100.0	172 ± 4.8
333.0	179 ± 8.8
1000.0	178 ± 2.5
3333.0	183 ± 10.2
10000.0	166 ± 9.4
Trial Summary	Negative
Positive Control ⁴	1311 ± 28.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.2	18 ± 1.2	38 ± 6.7	29 ± 1.9	32 ± 0.9
1.0	23 ± 1.5				
3.0	17 ± 1.5	15 ± 0.9			
10.0	22 ± 2.0	13 ± 2.0	40 ± 3.5		40 ± 4.6
33.0	22 ± 2.1	17 ± 1.7	41 ± 5.0		35 ± 5.0
100.0	19 ± 1.5	10 ± 1.5	36 ± 3.8	25 ± 2.3	31 ± 1.5
333.0		0 ± 0.0 ^s	24 ± 12.0	29 ± 5.2	32 ± 5.6
1000.0			33 ± 6.2	25 ± 0.6	32 ± 2.7
3333.0				27 ± 2.6	
10000.0				25 ± 4.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			403 ± 17.7	179 ± 14.2	868 ± 15.6
Positive Control ⁶	954 ± 34.3	801 ± 26.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.6
1.0	
3.0	
10.0	
33.0	
100.0	28 ± 3.9
333.0	26 ± 2.5
1000.0	25 ± 1.5
3333.0	24 ± 1.0
10000.0	22 ± 1.7
Trial Summary	Negative
Positive Control ²	331 ± 24.3
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: 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 ****