

Experiment Number: A08437

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **1,4-Benzenedimethanamine (9CI)**

CAS Number: **539-48-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:35:58**

NTP Study Number:

A08437

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	118 ± 5.0	110 ± 6.4	140 ± 5.3	147 ± 2.8	129 ± 11.1
100.0	122 ± 0.3	115 ± 1.7	127 ± 6.7	167 ± 6.6	139 ± 7.3
333.0	121 ± 6.2	129 ± 6.6	144 ± 5.2	135 ± 4.0	127 ± 5.5
1000.0	106 ± 10.1	123 ± 10.2	139 ± 7.4	142 ± 6.9	141 ± 5.8
3333.0	109 ± 0.3	111 ± 6.7	136 ± 7.8	121 ± 3.0	143 ± 6.2
10000.0	61 ± 26.5 ^s	66 ± 30.3 ^s	107 ± 3.4	62 ± 34.4 ^s	108 ± 11.3
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					722 ± 53.9
Positive Control ³			632 ± 5.1		
Positive Control ⁴	962 ± 52.6	892 ± 23.2			
Positive Control ⁵				354 ± 4.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 6.5
100.0	149 ± 9.5
333.0	162 ± 26.5
1000.0	153 ± 3.0
3333.0	155 ± 5.3
10000.0	75 ± 33.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	441 ± 20.0
Positive Control ⁴	
Positive Control ⁵	

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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	13 ± 3.2	11 ± 1.2	12 ± 3.7	13 ± 0.6	12 ± 2.0
100.0	13 ± 1.3	9 ± 0.0	11 ± 1.3	12 ± 1.7	8 ± 0.3
333.0	9 ± 0.0	11 ± 2.3	13 ± 3.2	9 ± 0.0	11 ± 1.9
1000.0	9 ± 0.7	13 ± 2.3	8 ± 0.6	12 ± 2.7	13 ± 0.9
3333.0	8 ± 1.7	9 ± 0.0	10 ± 1.8	11 ± 1.5	12 ± 0.0
10000.0	3 ± 1.5 ^s	2 ± 0.9 ^s	7 ± 1.5	3 ± 0.6 ^s	5 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					179 ± 2.7
Positive Control ⁴	832 ± 11.4	924 ± 16.6			
Positive Control ⁵			174 ± 4.3	127 ± 1.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	10 ± 0.3
333.0	11 ± 1.2
1000.0	9 ± 0.6
3333.0	10 ± 0.3
10000.0	8 ± 0.9
Trial Summary	Negative
Positive Control ³	241 ± 22.6
Positive Control ⁴	
Positive Control ⁵	

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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	132 ± 3.2	122 ± 9.6	153 ± 6.6	147 ± 6.5	113 ± 16.2
100.0	142 ± 2.3	119 ± 12.4	146 ± 3.0	141 ± 2.3	119 ± 4.5
333.0	129 ± 11.0	134 ± 4.5	124 ± 9.8	138 ± 15.9	135 ± 9.4
1000.0	153 ± 2.7	106 ± 5.0	160 ± 4.4	151 ± 4.2	146 ± 8.4
3333.0	129 ± 10.0	100 ± 8.1	141 ± 13.1	147 ± 0.9	128 ± 4.5
10000.0	70 ± 3.4 ^s	83 ± 7.9	125 ± 6.4	54 ± 5.9 ^s	105 ± 11.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					558 ± 21.6
Positive Control ³			657 ± 18.5	643 ± 22.7	
Positive Control ⁶	465 ± 17.6	473 ± 26.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 5.7
100.0	137 ± 16.0
333.0	153 ± 6.4
1000.0	114 ± 7.0
3333.0	150 ± 3.6
10000.0	76 ± 2.3 ^s
Trial Summary	Negative
Positive Control ²	535 ± 10.0
Positive Control ³	
Positive Control ⁶	

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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	32 ± 6.0	14 ± 1.7	28 ± 1.2	37 ± 1.5	21 ± 2.7
100.0	23 ± 5.1	22 ± 3.1	29 ± 4.7	29 ± 2.6	20 ± 6.7
333.0	27 ± 2.5	23 ± 1.7	28 ± 0.3	28 ± 2.3	28 ± 0.9
1000.0	25 ± 1.0	24 ± 3.2	27 ± 2.4	31 ± 3.8	18 ± 0.9
3333.0	26 ± 2.6	17 ± 4.6	27 ± 3.5	27 ± 1.9	12 ± 1.0
10000.0	15 ± 3.8 ^s	7 ± 1.7 ^s	12 ± 4.2 ^s	13 ± 5.6 ^s	8 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					515 ± 11.7
Positive Control ³			407 ± 6.5		
Positive Control ⁷	397 ± 3.2	371 ± 29.3			
Positive Control ⁵				179 ± 6.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 2.6
100.0	29 ± 1.0
333.0	38 ± 1.2
1000.0	35 ± 2.4
3333.0	38 ± 2.0
10000.0	16 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	155 ± 2.3
Positive Control ⁷	
Positive Control ⁵	

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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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****