

Experiment Number: A05153

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

G06: Ames Summary Data

Test Compound: **2-Methyl-1,3-benzenediol**

CAS Number: **608-25-3**

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

Time Report Requested: **15:34:59**

NTP Study Number:

A05153

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	138 ± 5.0	98 ± 3.1	120 ± 6.4	161 ± 10.3	109 ± 8.2
100.0	128 ± 11.7	111 ± 9.0	146 ± 8.8	165 ± 9.1	117 ± 8.2
333.0	152 ± 3.5	108 ± 2.0	123 ± 5.8	163 ± 7.6	143 ± 5.9
1000.0	135 ± 2.3	97 ± 9.5	147 ± 5.5	167 ± 6.2	133 ± 21.7
3333.0	127 ± 7.4	121 ± 11.1	141 ± 8.5	141 ± 4.7	119 ± 10.6
10000.0	29 ± 7.0 ^s	79 ± 2.7 ^s	77 ± 4.4 ^s	54 ± 13.7 ^s	48 ± 10.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
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	144 ± 1.9
100.0	164 ± 7.5
333.0	155 ± 4.4
1000.0	178 ± 5.5
3333.0	165 ± 5.2
10000.0	48 ± 15.6 ^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	11 ± 1.5	9 ± 0.3	9 ± 1.7	11 ± 0.9	8 ± 0.6
100.0	10 ± 1.0	10 ± 0.9	10 ± 1.3	13 ± 3.0	11 ± 2.4
333.0	10 ± 0.6	8 ± 0.3	11 ± 1.5	12 ± 1.7	8 ± 0.6
1000.0	9 ± 1.0	8 ± 0.7	9 ± 1.5	8 ± 1.0	10 ± 2.1
3333.0	12 ± 1.7	7 ± 0.3	8 ± 0.6	10 ± 1.5	8 ± 0.6
10000.0	4 ± 0.9 ^s	4 ± 1.2 ^s	3 ± 0.0 ^s	3 ± 1.2 ^s	3 ± 0.9 ^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		
Positive Control ⁶				127 ± 1.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.2
100.0	10 ± 0.3
333.0	9 ± 0.3
1000.0	9 ± 2.4
3333.0	10 ± 0.9
10000.0	3 ± 0.6 ^s
Trial Summary	Negative
Positive Control ³	241 ± 22.6
Positive Control ⁴	
Positive Control ⁵	
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**Test Compound: 2-Methyl-1,3-benzenediol
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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	114 ± 6.7	93 ± 5.0	122 ± 11.3	157 ± 6.4	109 ± 9.2
100.0	120 ± 5.9	98 ± 4.0	93 ± 5.5	145 ± 13.8	108 ± 3.8
333.0	114 ± 5.5	107 ± 11.6	119 ± 10.3	147 ± 11.8	128 ± 5.2
1000.0	114 ± 7.6	100 ± 3.7	123 ± 7.8	150 ± 2.8	140 ± 1.5
3333.0	136 ± 13.0	88 ± 1.7	108 ± 8.7	157 ± 6.2	106 ± 8.7
10000.0	49 ± 18.8 ^s	25 ± 11.8 ^s	41 ± 16.8 ^s	98 ± 10.7 ^s	34 ± 11.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					558 ± 21.6
Positive Control ³			657 ± 18.5	643 ± 22.7	
Positive Control ⁷	465 ± 17.6	473 ± 26.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 5.2
100.0	154 ± 3.1
333.0	152 ± 3.7
1000.0	172 ± 12.9
3333.0	154 ± 6.0
10000.0	72 ± 15.5 ^s
Trial Summary	Negative
Positive Control ²	535 ± 10.0
Positive Control ³	
Positive Control ⁷	

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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	28 ± 0.6	17 ± 1.5	28 ± 1.0	31 ± 1.5	21 ± 2.4
0.0					0 ± 0.0
100.0	29 ± 0.6	16 ± 2.0	29 ± 2.7	36 ± 3.8	24 ± 2.0
333.0	24 ± 2.0	19 ± 0.6	20 ± 3.5	31 ± 5.3	21 ± 2.4
1000.0	20 ± 2.0	14 ± 0.6	21 ± 2.7	36 ± 1.0	17 ± 1.3
3333.0	15 ± 4.7	16 ± 3.7	17 ± 4.0	25 ± 2.7	17 ± 0.9
10000.0	7 ± 0.9 ^s	7 ± 0.6 ^s	7 ± 2.2 ^s	9 ± 1.0 ^s	9 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					515 ± 11.7
Positive Control ³			407 ± 6.5		
Positive Control ⁸	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	28 ± 0.9
0.0	
100.0	30 ± 3.0
333.0	29 ± 2.7
1000.0	31 ± 3.9
3333.0	25 ± 2.6
10000.0	7 ± 2.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	155 ± 2.3
Positive Control ⁸	
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: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****