

Experiment Number: A20348

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

G06: Ames Summary Data

Test Compound: **Dimethyl glutarate**

CAS Number: **1119-40-0**

Date Report Requested: **09/16/2018**

Time Report Requested: **09:43:55**

NTP Study Number:

A20348

Study Result:

Negative

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Test Compound: Dimethyl glutarate

CAS Number: 1119-40-0

Date Report Requested: 09/16/2018

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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	141 ± 28.3	137 ± 4.6	153 ± 5.0	112 ± 6.4	158 ± 5.8
100.0	105 ± 3.9	141 ± 3.0	151 ± 21.3	92 ± 5.0	165 ± 14.9
333.0	110 ± 3.8	141 ± 7.9	162 ± 7.5	116 ± 1.5	144 ± 4.5
1000.0	109 ± 3.6	147 ± 9.2	161 ± 17.6	109 ± 5.7	167 ± 10.5
3333.0	107 ± 3.8	137 ± 10.7	149 ± 19.2	108 ± 5.8	137 ± 9.2
10000.0	91 ± 6.3	141 ± 8.2	179 ± 11.4	52 ± 4.8	151 ± 22.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					906 ± 48.2
Positive Control ³			986 ± 5.1		
Positive Control ⁴	882 ± 20.3	761 ± 39.6			
Positive Control ⁵				425 ± 32.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 2.6
100.0	113 ± 3.5
333.0	98 ± 13.2
1000.0	111 ± 3.5
3333.0	105 ± 3.0
10000.0	64 ± 5.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	495 ± 20.3
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	12 ± 0.3	14 ± 1.5	8 ± 2.3	12 ± 1.5	7 ± 1.0
100.0	9 ± 0.3	14 ± 0.7	10 ± 3.8	13 ± 1.9	10 ± 2.2
333.0	9 ± 0.3	9 ± 0.3	10 ± 1.3	10 ± 0.0	12 ± 1.7
1000.0	12 ± 1.5	15 ± 2.2	8 ± 1.5	11 ± 1.0	11 ± 1.9
3333.0	12 ± 1.8	10 ± 1.9	8 ± 1.9	12 ± 1.2	10 ± 1.0
10000.0	9 ± 0.6	17 ± 3.5	8 ± 0.9	10 ± 0.7	14 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					202 ± 6.4
Positive Control ⁴	830 ± 11.6	926 ± 16.2			
Positive Control ⁵			223 ± 7.0		
Positive Control ⁶				165 ± 9.0	

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Test Compound: Dimethyl glutarate

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.9
100.0	9 ± 0.3
333.0	12 ± 2.3
1000.0	13 ± 1.9
3333.0	16 ± 1.5
10000.0	11 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	190 ± 6.6
Positive Control ⁶	

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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	141 ± 7.9	131 ± 18.9	163 ± 4.0	166 ± 6.1	188 ± 7.6
100.0	141 ± 3.7	152 ± 18.2	162 ± 10.7	164 ± 8.3	187 ± 1.0
333.0	147 ± 10.3	141 ± 7.5	193 ± 3.1	173 ± 9.3	186 ± 6.1
1000.0	144 ± 1.0	122 ± 2.1	180 ± 5.5	154 ± 8.6	186 ± 6.9
3333.0	116 ± 4.8	136 ± 5.5	159 ± 0.3	178 ± 12.4	172 ± 6.5
10000.0	123 ± 11.1	141 ± 10.0	157 ± 20.0	186 ± 3.8	179 ± 6.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					740 ± 20.6
Positive Control ³			859 ± 25.5		
Positive Control ⁵				867 ± 76.9	
Positive Control ⁷	532 ± 14.1	622 ± 15.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	189 ± 6.4
100.0	181 ± 6.8
333.0	176 ± 11.7
1000.0	148 ± 15.9
3333.0	189 ± 5.5
10000.0	133 ± 31.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	987 ± 43.3
Positive Control ⁵	
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	14 ± 2.9	20 ± 3.3	23 ± 4.0	22 ± 2.8	27 ± 3.0
100.0	18 ± 3.6	18 ± 3.8	25 ± 6.7	25 ± 1.9	24 ± 0.6
333.0	18 ± 3.0	23 ± 1.9	27 ± 2.0	16 ± 2.2	24 ± 3.3
1000.0	18 ± 3.7	18 ± 2.0	24 ± 3.6	21 ± 2.6	27 ± 0.9
3333.0	14 ± 1.2	16 ± 1.5	23 ± 4.3	27 ± 0.3	22 ± 2.4
10000.0	14 ± 2.5	17 ± 4.0	19 ± 2.6	16 ± 1.5	21 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					692 ± 23.2
Positive Control ³			505 ± 14.7		
Positive Control ⁸	311 ± 3.8	513 ± 17.7			
Positive Control ⁵				471 ± 26.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 2.6
100.0	31 ± 3.2
333.0	25 ± 3.5
1000.0	24 ± 4.7
3333.0	25 ± 2.3
10000.0	23 ± 2.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	481 ± 14.9
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: Dimethyl Sulfoxide

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

**** END OF REPORT ****