

Experiment Number: **228078**

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

G06: Ames Summary Data

Test Compound: **Malonic acid**

CAS Number: **141-82-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **22:25:03**

NTP Study Number:

228078

Study Result:

Negative

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Date Report Requested: 09/14/2018

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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 ± 3.3	129 ± 9.0	164 ± 5.0	183 ± 8.4	142 ± 7.0
33.0	142 ± 2.4	128 ± 8.5	167 ± 3.1	165 ± 19.1	149 ± 7.3
100.0	134 ± 1.7	131 ± 17.1	168 ± 3.5	208 ± 1.3	145 ± 2.7
333.0	125 ± 2.5	138 ± 7.2	170 ± 7.4	165 ± 9.9	138 ± 7.2
1000.0	115 ± 0.3	116 ± 4.6	152 ± 5.0	148 ± 6.9	137 ± 7.2
3333.0	86 ± 3.1	116 ± 6.2	157 ± 11.9 ^p	120 ± 12.8 ^p	126 ± 13.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					826 ± 49.8
Positive Control ³			461 ± 20.2		
Positive Control ⁴				406 ± 10.5	
Positive Control ⁵	764 ± 25.4	1136 ± 15.4			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 4.4
33.0	131 ± 7.7
100.0	146 ± 9.2
333.0	145 ± 21.2
1000.0	146 ± 10.4
3333.0	118 ± 23.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	557 ± 16.2
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	10 ± 2.2	5 ± 0.7	10 ± 0.9	14 ± 0.9	8 ± 2.3
33.0	10 ± 2.1	5 ± 0.9	10 ± 1.0	12 ± 0.9	6 ± 2.0
100.0	8 ± 2.3	7 ± 1.2	5 ± 1.5	11 ± 2.2	10 ± 1.2
333.0	5 ± 1.7	6 ± 0.3	9 ± 1.5	11 ± 0.9	8 ± 0.7
1000.0	6 ± 1.2	7 ± 1.5	6 ± 0.3	11 ± 1.7	9 ± 1.2
3333.0	6 ± 0.7	6 ± 0.9	6 ± 1.2 ^p	11 ± 0.7 ^p	8 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					95 ± 4.3
Positive Control ⁴			75 ± 5.8		
Positive Control ⁶				67 ± 3.2	
Positive Control ⁵	1039 ± 62.5	1198 ± 86.2			

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Date Report Requested: 09/14/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.6
33.0	9 ± 2.1
100.0	11 ± 1.5
333.0	7 ± 1.9
1000.0	8 ± 0.3
3333.0	9 ± 0.3 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	199 ± 20.6
Positive Control ⁶	
Positive Control ⁵	

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Date Report Requested: 09/14/2018

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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	162 ± 7.0	155 ± 8.7	191 ± 3.4	222 ± 2.6	150 ± 6.5
33.0	164 ± 11.9	172 ± 3.2	200 ± 2.4	221 ± 7.2	158 ± 12.8
100.0	167 ± 15.9	173 ± 8.0	175 ± 13.7	204 ± 7.2	156 ± 10.7
333.0	180 ± 8.4	160 ± 17.0	200 ± 6.3	229 ± 10.6	158 ± 16.9
1000.0	154 ± 5.7	127 ± 5.6	181 ± 5.6	225 ± 11.3	151 ± 6.1
3333.0	133 ± 3.8	137 ± 8.8	160 ± 4.0 ^p	148 ± 6.9 ^p	119 ± 7.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					412 ± 18.3
Positive Control ³			325 ± 6.2		
Positive Control ⁴				310 ± 6.0	
Positive Control ⁷	395 ± 7.5	373 ± 35.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	168 ± 4.0
33.0	172 ± 3.2
100.0	180 ± 2.9
333.0	172 ± 9.0
1000.0	167 ± 8.7
3333.0	146 ± 5.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	316 ± 10.3
Positive Control ⁴	
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	20 ± 1.8	15 ± 1.2	34 ± 7.0	15 ± 2.0	24 ± 2.0
33.0	21 ± 2.8	19 ± 4.0	35 ± 1.0	14 ± 1.2	22 ± 4.2
100.0	19 ± 2.3	23 ± 2.2	30 ± 2.8	13 ± 1.5	20 ± 2.7
333.0	19 ± 3.2	16 ± 2.1	18 ± 0.9	13 ± 1.5	21 ± 2.6
1000.0	16 ± 2.3	18 ± 2.1	21 ± 2.0	4 ± 1.2	21 ± 2.0
3333.0	17 ± 1.7	17 ± 2.8	21 ± 1.2 ^p	5 ± 1.2 ^p	18 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					560 ± 34.6
Positive Control ³			241 ± 9.7	114 ± 6.0	
Positive Control ⁸	564 ± 4.9	601 ± 18.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.5
33.0	21 ± 1.7
100.0	20 ± 2.6
333.0	20 ± 3.7
1000.0	13 ± 2.4
3333.0	8 ± 2.6 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	581 ± 33.5
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

x: Slight Toxicity and Precipitate

** END OF REPORT **