

Experiment Number: **151212**

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

G06: Ames Summary Data

Test Compound: **Malonaldehyde, sodium salt**

CAS Number: **24382-04-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **14:56:53**

NTP Study Number:

151212

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 10.7	100 ± 2.3	161 ± 7.8	150 ± 3.8	160 ± 3.4
33.0			162 ± 13.6	125 ± 4.0	153 ± 4.3
100.0	117 ± 8.4	99 ± 9.7	164 ± 10.8	142 ± 5.8	155 ± 3.5
333.0	120 ± 6.0	84 ± 3.2	148 ± 11.2	135 ± 9.7	150 ± 5.7
1000.0	113 ± 6.8	98 ± 2.7	157 ± 16.3	158 ± 2.7	150 ± 12.7
3333.0	113 ± 7.1	95 ± 3.2	160 ± 13.7	182 ± 8.5	167 ± 9.1
10000.0	115 ± 0.3	97 ± 2.0			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1114 ± 45.0	1940 ± 283.6	2712 ± 147.0
Positive Control ³	1417 ± 76.4	1034 ± 140.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	151 ± 20.5
33.0	118 ± 13.5
100.0	125 ± 7.2
333.0	138 ± 13.0
1000.0	169 ± 10.7
3333.0	162 ± 3.0
10000.0	
Trial Summary	Negative
Positive Control ²	2550 ± 299.1
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.7	16 ± 1.0	10 ± 1.2	13 ± 2.2	13 ± 3.4
33.0			11 ± 1.5	13 ± 0.9	19 ± 3.0
100.0	14 ± 1.2	14 ± 0.6	15 ± 1.8	13 ± 0.6	12 ± 0.3
333.0	9 ± 2.7	17 ± 2.6	11 ± 0.9	17 ± 0.7	9 ± 2.4
1000.0	12 ± 3.7	12 ± 1.5	12 ± 1.3	16 ± 1.9	12 ± 0.3
3333.0	10 ± 1.5	14 ± 1.3	5 ± 1.0	13 ± 1.5	11 ± 2.5
10000.0	5 ± 0.3	8 ± 1.7			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			193 ± 10.5	220 ± 13.0	312 ± 16.8
Positive Control ³	983 ± 64.1	571 ± 16.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.5
33.0	18 ± 3.5
100.0	18 ± 1.2
333.0	12 ± 1.0
1000.0	15 ± 0.3
3333.0	17 ± 1.5
10000.0	
Trial Summary	Negative
Positive Control ⁴	216 ± 11.6
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 3.0	7 ± 1.7	17 ± 1.7	10 ± 2.9	13 ± 0.3
33.0			21 ± 2.0	8 ± 0.7	19 ± 2.0
100.0	14 ± 1.3	8 ± 0.7	16 ± 3.2	6 ± 2.3	18 ± 3.2
333.0	14 ± 1.5	7 ± 0.0	18 ± 2.1	6 ± 1.0	18 ± 3.2
1000.0	16 ± 0.3	8 ± 1.2	21 ± 2.8	5 ± 1.2	17 ± 2.4
3333.0	14 ± 1.0	6 ± 0.9	14 ± 4.7	6 ± 0.9	18 ± 1.9
10000.0	7 ± 1.2	2 ± 0.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			252 ± 23.2	153 ± 9.8	372 ± 30.3
Positive Control ⁵	758 ± 40.5	154 ± 7.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 4.1
33.0	7 ± 0.3
100.0	6 ± 1.8
333.0	11 ± 1.0
1000.0	11 ± 2.0
3333.0	11 ± 2.5
10000.0	
Trial Summary	Negative
Positive Control ⁴	231 ± 45.4
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 1.8	15 ± 1.7	39 ± 3.1	24 ± 2.9	38 ± 7.2
33.0			29 ± 2.4	25 ± 1.0	32 ± 3.7
100.0	31 ± 4.2	16 ± 1.2	33 ± 3.4	22 ± 2.2	43 ± 3.9
333.0	34 ± 4.2	18 ± 0.6	31 ± 2.4	19 ± 1.8	42 ± 4.9
1000.0	26 ± 3.2	16 ± 0.7	36 ± 1.5	24 ± 3.5	34 ± 3.7
3333.0	26 ± 4.4	16 ± 3.8	36 ± 5.8	18 ± 2.3	44 ± 3.7
10000.0	15 ± 0.3	17 ± 3.8			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			463 ± 15.3	1162 ± 175.6	942 ± 29.6
Positive Control ⁶	162 ± 7.1	292 ± 14.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.5
33.0	23 ± 2.3
100.0	22 ± 1.2
333.0	29 ± 4.7
1000.0	31 ± 3.2
3333.0	27 ± 1.2
10000.0	
Trial Summary	Negative
Positive Control ²	2121 ± 390.8
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****