

Experiment Number: 314373

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

G06: Ames Summary Data

Test Compound: **Maleic acid**

CAS Number: **110-16-7**

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

Time Report Requested: **04:19:14**

NTP Study Number:

314373

Study Result:

Negative

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Test Compound: Maleic acid

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Date Report Requested: 09/12/2018

Time Report Requested: 04:19:14

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	149 ± 2.2	147 ± 2.7	145 ± 5.5	154 ± 16.9	145 ± 10.9
33.0	147 ± 11.0	155 ± 4.5	156 ± 4.3	141 ± 11.3	143 ± 11.1
100.0	131 ± 11.1	157 ± 2.7	161 ± 3.2	162 ± 2.0	151 ± 13.7
333.0	144 ± 2.8	158 ± 6.7	162 ± 3.5	142 ± 9.0	145 ± 6.2
1000.0	136 ± 6.4	140 ± 15.8	163 ± 4.5	146 ± 13.6	150 ± 3.8
3333.0	134 ± 5.3	134 ± 9.4	145 ± 4.4	147 ± 7.7	159 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					466 ± 28.3
Positive Control ³			360 ± 18.6		
Positive Control ⁴				501 ± 36.2	
Positive Control ⁵	876 ± 24.0	845 ± 9.3			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	152 ± 5.8
33.0	147 ± 14.6
100.0	151 ± 5.0
333.0	127 ± 6.2
1000.0	118 ± 2.8
3333.0	130 ± 4.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	723 ± 5.8
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	14 ± 1.2	14 ± 0.3	15 ± 1.2	16 ± 1.5	14 ± 0.9
33.0	18 ± 1.2	11 ± 2.0	15 ± 2.4	14 ± 2.6	17 ± 1.3
100.0	9 ± 1.5	15 ± 0.9	10 ± 1.2	16 ± 0.0	17 ± 0.6
333.0	13 ± 0.9	17 ± 1.0	9 ± 0.0	17 ± 2.1	13 ± 1.9
1000.0	12 ± 1.7	15 ± 0.7	16 ± 0.5	13 ± 2.0	13 ± 2.6
3333.0	20 ± 2.2	15 ± 0.7	10 ± 4.3	12 ± 2.0	14 ± 4.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					125 ± 9.6
Positive Control ⁴			108 ± 4.4		
Positive Control ⁶				112 ± 16.9	
Positive Control ⁵	949 ± 5.6	906 ± 19.1			

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Test Compound: **Maleic acid**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.6
33.0	15 ± 0.3
100.0	14 ± 0.9
333.0	11 ± 2.7
1000.0	12 ± 2.2
3333.0	12 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	333 ± 10.4
Positive Control ⁶	
Positive Control ⁵	

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Test Compound: Maleic acid

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Date Report Requested: 09/12/2018

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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	122 ± 6.0	133 ± 2.2	168 ± 4.7	173 ± 2.0	152 ± 2.9
33.0	118 ± 5.1	118 ± 6.3	158 ± 1.5	167 ± 6.4	142 ± 9.0
100.0	152 ± 3.0	109 ± 9.7	167 ± 7.0	149 ± 5.7	160 ± 6.2
333.0	144 ± 2.7	136 ± 10.7	181 ± 5.8	162 ± 17.2	153 ± 8.3
1000.0	125 ± 10.5	134 ± 10.7	156 ± 3.5	160 ± 11.9	163 ± 4.1
3333.0	126 ± 8.2	87 ± 1.2	165 ± 8.6	120 ± 18.1	99 ± 33.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					486 ± 12.3
Positive Control ³			460 ± 5.0		
Positive Control ⁴				401 ± 36.4	
Positive Control ⁷	328 ± 11.9	370 ± 23.8			

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Date Report Requested: 09/12/2018
Time Report Requested: 04:19:14

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 5.5
33.0	154 ± 7.3
100.0	136 ± 7.6
333.0	132 ± 8.8
1000.0	136 ± 7.5
3333.0	134 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	523 ± 51.7
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	22 ± 2.3	20 ± 3.2	18 ± 4.5	21 ± 1.5	24 ± 1.5
33.0	22 ± 2.6	14 ± 1.2	21 ± 2.5	19 ± 1.0	19 ± 2.0
100.0	21 ± 2.1	14 ± 1.9	16 ± 1.0	18 ± 4.8	21 ± 3.5
333.0	18 ± 1.0	14 ± 3.5	16 ± 1.5	24 ± 2.0	15 ± 1.7
1000.0	18 ± 0.7	11 ± 2.7	14 ± 1.2	19 ± 1.2	16 ± 1.2
3333.0	13 ± 1.3	13 ± 2.5	19 ± 3.2	16 ± 1.2	19 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					86 ± 4.3
Positive Control ³			85 ± 8.3		
Positive Control ⁸	349 ± 5.1	369 ± 8.5			
Positive Control ⁴				163 ± 4.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 1.3
33.0	21 ± 3.8
100.0	17 ± 2.3
333.0	17 ± 3.4
1000.0	23 ± 5.5
3333.0	18 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	232 ± 27.8
Positive Control ⁸	
Positive Control ⁴	

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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

**** END OF REPORT ****