

Experiment Number: 051477

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

G06: Ames Summary Data

Test Compound: **Maleic anhydride**

CAS Number: **108-31-6**

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

Time Report Requested: **02:20:45**

NTP Study Number:

051477

Study Result:

Negative

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Test Compound: Maleic anhydride

CAS Number: 108-31-6

Date Report Requested: 09/15/2018

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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	75 ± 11.4	96 ± 7.0	79 ± 5.5	108 ± 1.8	68 ± 1.0
1.0		102 ± 2.5			
3.3		106 ± 2.1		118 ± 13.2	
10.0	69 ± 5.5	101 ± 2.1	84 ± 3.6	126 ± 18.1	76 ± 4.9
33.3	58 ± 3.3	92 ± 6.7	86 ± 7.3	120 ± 9.5	81 ± 5.0
100.0	43 ± 1.0	63 ± 10.5 ^s	74 ± 7.0	108 ± 8.7	79 ± 3.6
333.3	7 ± 7.0 ^s		49 ± 4.1 ^s	65 ± 10.2 ^s	69 ± 3.0
1000.0	Toxic		18 ± 18.0 ^s		80 ± 6.9
3333.3					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	500 ± 10.9	535 ± 9.8			
Positive Control ³			820 ± 22.7	563 ± 92.3	2001 ± 26.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	106 ± 4.6
1.0	
3.3	
10.0	
33.3	85 ± 6.0
100.0	86 ± 6.4
333.3	80 ± 12.5
1000.0	81 ± 11.0
3333.3	93 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1282 ± 16.4

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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	10 ± 2.2	15 ± 1.2	6 ± 0.7	14 ± 1.2	7 ± 2.5
1.0		7 ± 1.3			
3.3		15 ± 1.3		6 ± 0.7	
10.0	6 ± 0.3	10 ± 2.1	8 ± 3.0	8 ± 1.2	6 ± 1.5
33.3	4 ± 0.6	5 ± 1.5	5 ± 0.7	5 ± 0.7	6 ± 1.5
100.0	0 ± 0.0 ^s	2 ± 1.7 ^s	3 ± 0.6	7 ± 0.9	7 ± 1.0
333.3	Toxic		2 ± 0.9 ^s	3 ± 1.5 ^s	3 ± 1.0
1000.0	Toxic		4 ± 0.7 ^s		5 ± 1.7
3333.3					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	354 ± 8.9	400 ± 33.0			
Positive Control ⁴			313 ± 36.4	262 ± 23.4	294 ± 11.8

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Test Compound: Maleic anhydride
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Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
1.0	
3.3	
10.0	
33.3	6 ± 1.5
100.0	8 ± 2.0
333.3	6 ± 0.6
1000.0	5 ± 0.6
3333.3	4 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	336 ± 12.4

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Test Compound: Maleic anhydride

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Date Report Requested: 09/15/2018

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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	5 ± 0.9	12 ± 2.0	5 ± 0.7	9 ± 2.3	7 ± 1.7
1.0		4 ± 0.3			
3.3		5 ± 0.7		7 ± 0.9	
10.0	7 ± 1.2	5 ± 1.2	6 ± 0.7	11 ± 1.7	5 ± 0.9
33.3	2 ± 0.0	4 ± 1.3	5 ± 0.9	4 ± 0.0	4 ± 1.0
100.0	1 ± 0.6 ^s	3 ± 0.6 ^s	5 ± 1.5	6 ± 1.2	4 ± 0.9
333.3	Toxic		2 ± 1.2 ^s	2 ± 0.7 ^s	3 ± 0.9
1000.0	Toxic		0 ± 0.0 ^s		4 ± 0.6
3333.3					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			228 ± 26.0	433 ± 66.5	357 ± 19.4
Positive Control ⁵	87 ± 29.8	156 ± 47.2			

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Test Compound: Maleic anhydride

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Date Report Requested: 09/15/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.2
1.0	
3.3	
10.0	
33.3	9 ± 3.5
100.0	7 ± 0.7
333.3	7 ± 0.9
1000.0	7 ± 0.9
3333.3	6 ± 1.7
Trial Summary	Negative
Positive Control ⁴	604 ± 25.4
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	27 ± 0.3	15 ± 1.8	29 ± 2.4	27 ± 4.1	25 ± 7.6
1.0		14 ± 1.0			
3.3		17 ± 2.0		26 ± 5.5	
10.0	9 ± 1.5	15 ± 5.3	24 ± 2.9	32 ± 3.3	31 ± 1.5
33.3	9 ± 1.3	11 ± 3.3	21 ± 4.3	23 ± 3.9	23 ± 3.2
100.0	3 ± 1.5 ^s	11 ± 3.1 ^s	22 ± 2.9	19 ± 4.4	24 ± 1.9
333.3	1 ± 1.0 ^s		10 ± 1.7 ^s	7 ± 3.8 ^s	19 ± 5.5
1000.0	Toxic		7 ± 1.2 ^s		21 ± 4.4
3333.3					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			369 ± 25.2	309 ± 49.9	1567 ± 157.2
Positive Control ⁶	729 ± 11.0	651 ± 23.9			

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G06: Ames Summary Data

Test Compound: Maleic anhydride

CAS Number: 108-31-6

Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.1
1.0	
3.3	
10.0	
33.3	23 ± 2.2
100.0	18 ± 4.9
333.3	17 ± 0.9
1000.0	20 ± 0.3
3333.3	21 ± 3.3
Trial Summary	Negative
Positive Control ³	924 ± 31.4
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: Acetone

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****