

Experiment Number: 661373

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: 123-33-1

Date Report Requested: **09/11/2018**

Time Report Requested: **11:38:13**

NTP Study Number:

661373

Study Result:

Negative

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Test Compound: Maleic hydrazide

CAS Number: 123-33-1

Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	81 ± 7.6	99 ± 16.0	82 ± 14.8	118 ± 4.7	145 ± 9.9
3.0		106 ± 16.5			140 ± 10.5
3.3	69 ± 7.5			99 ± 2.6	
10.0	67 ± 6.7	125 ± 16.6		116 ± 4.6	150 ± 7.2
33.0	69 ± 4.9	121 ± 12.4		119 ± 9.2	159 ± 6.8
100.0	71 ± 6.2	117 ± 8.7		103 ± 1.2	156 ± 14.8
333.0	78 ± 5.5	129 ± 15.4		116 ± 7.8	143 ± 0.9
1000.0			67 ± 1.7		
3333.0			86 ± 1.0		
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1567 ± 18.1	1718 ± 37.6
Positive Control ³	471 ± 10.2	505 ± 34.6	473 ± 16.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 4.9	112 ± 7.4	142 ± 12.7	108 ± 12.1
3.0			167 ± 10.0	
3.3		117 ± 6.6		
10.0		98 ± 7.0	146 ± 15.2	
33.0		128 ± 7.5	153 ± 4.6	
100.0		122 ± 6.1	146 ± 4.0	
333.0		104 ± 6.4	136 ± 7.5	
1000.0	78 ± 1.9			53 ± 3.5
3333.0	52 ± 0.9			49 ± 4.7
10000.0	69 ± 19.5			46 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	1295 ± 23.1	2148 ± 23.9	1979 ± 78.2	2100 ± 76.4
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	2 ± 1.2	6 ± 1.2	5 ± 1.2	2 ± 1.2	9 ± 3.2
3.0		7 ± 1.0			11 ± 1.9
3.3	3 ± 1.0			4 ± 1.8	
10.0	3 ± 1.5	9 ± 2.0		2 ± 0.9	7 ± 1.0
33.0	5 ± 0.7	9 ± 1.8		4 ± 1.7	10 ± 1.7
100.0	2 ± 1.2	7 ± 2.6		5 ± 2.3	11 ± 5.0
333.0	4 ± 1.0	10 ± 2.3		8 ± 3.5	9 ± 1.5
1000.0			2 ± 0.3		
3333.0			1 ± 0.6		
10000.0			1 ± 0.3		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				37 ± 7.4	206 ± 5.0
Positive Control ³	105 ± 3.5	511 ± 12.6	56 ± 9.0		

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Test Compound: Maleic hydrazide

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 2.1	6 ± 0.7	5 ± 1.5	3 ± 0.9
3.0			6 ± 2.6	
3.3		1 ± 0.3		
10.0		3 ± 1.2	4 ± 0.9	
33.0		4 ± 0.6	5 ± 1.2	
100.0		2 ± 0.0	10 ± 3.9	
333.0		3 ± 0.3	6 ± 2.2	
1000.0	3 ± 0.6			5 ± 1.2
3333.0	4 ± 0.9			2 ± 0.3
10000.0	1 ± 0.6			Toxic
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	41 ± 5.6	24 ± 8.7	198 ± 8.1	62 ± 6.2
Positive Control ³				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	2 ± 1.0	4 ± 1.0	3 ± 0.9	4 ± 1.8	6 ± 1.2
3.0		6 ± 0.9			7 ± 2.2
3.3	3 ± 0.3			2 ± 0.0	
10.0	2 ± 0.9	5 ± 2.2		5 ± 0.6	5 ± 1.0
33.0	2 ± 0.3	6 ± 1.3		2 ± 0.9	9 ± 3.3
100.0	2 ± 0.3	4 ± 1.0		2 ± 1.2	4 ± 0.7
333.0	4 ± 0.7	5 ± 1.2		3 ± 0.6	6 ± 1.2
1000.0			3 ± 0.9		
3333.0			1 ± 0.6		
10000.0			0 ± 0.3		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				59 ± 3.5	169 ± 4.3
Positive Control ⁴	582 ± 271.5	1857 ± 236.6	46 ± 1.2		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	5 ± 0.9	6 ± 0.7	3 ± 1.0
3.0			6 ± 3.0	
3.3		2 ± 0.0		
10.0		5 ± 0.3	7 ± 1.5	
33.0		3 ± 0.0	8 ± 2.5	
100.0		3 ± 0.6	5 ± 1.2	
333.0		4 ± 0.3	6 ± 0.9	
1000.0	5 ± 0.5			3 ± 0.6
3333.0	4 ± 0.3			2 ± 0.5
10000.0	Toxic			Toxic
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	43 ± 2.0	139 ± 13.9	52 ± 4.3	82 ± 11.7
Positive Control ⁴				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13 ± 2.8	13 ± 1.2	18 ± 2.0	19 ± 0.9	18 ± 0.6
3.0		13 ± 1.5			24 ± 3.2
3.3	13 ± 2.3			19 ± 0.3	
10.0	13 ± 4.1	15 ± 2.0		18 ± 2.6	20 ± 2.0
33.0	13 ± 1.0	13 ± 0.6		17 ± 2.3	19 ± 2.2
100.0	12 ± 0.7	15 ± 4.9		19 ± 3.2	24 ± 3.2
333.0	11 ± 0.6	14 ± 1.7		15 ± 1.7	28 ± 6.0
1000.0			17 ± 0.6		
3333.0			15 ± 0.3		
10000.0			12 ± 0.6		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1410 ± 51.2	1461 ± 68.5
Positive Control ⁵	335 ± 11.3	431 ± 18.4	160 ± 18.0		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.6	21 ± 0.6	17 ± 3.7	19 ± 1.2
3.0			17 ± 2.6	
3.3		16 ± 1.2		
10.0		17 ± 0.3	15 ± 0.5	
33.0		20 ± 3.5	20 ± 2.0	
100.0		21 ± 1.2	26 ± 1.0	
333.0		20 ± 1.5	20 ± 1.8	
1000.0	7 ± 0.3			7 ± 0.3
3333.0	2 ± 0.7			5 ± 0.6
10000.0	6 ± 1.5			Toxic
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	767 ± 44.7	538 ± 14.7	1352 ± 33.7	1177 ± 19.4
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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****