

Experiment Number: 891392

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide diethanolamine**

CAS Number: 5716-15-4

Date Report Requested: **09/16/2018**

Time Report Requested: **22:15:49**

NTP Study Number:

891392

Study Result:

Weakly Positive

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	100 ± 6.7	97 ± 2.5	102 ± 6.3	128 ± 8.5	147 ± 6.4
100.0	103 ± 1.2	106 ± 2.0			132 ± 5.8
333.0	88 ± 2.3	97 ± 3.1			154 ± 3.8
1000.0	89 ± 0.6	104 ± 5.0	101 ± 3.4	123 ± 10.8	149 ± 7.2
1667.0			111 ± 4.2	128 ± 13.9	
3333.0	104 ± 6.7	104 ± 5.7	116 ± 6.6	127 ± 9.0	151 ± 7.1
6667.0			130 ± 4.2	127 ± 20.3	
10000.0	103 ± 4.6	135 ± 5.5	131 ± 2.1	123 ± 16.8	153 ± 7.2
16667.0			Toxic		
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control ²					1534 ± 246.9
Positive Control ³	1011 ± 117.4	1032 ± 87.9	1803 ± 141.5	855 ± 159.9	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	132 ± 2.1	157 ± 12.2	145 ± 13.6
100.0	129 ± 9.1	177 ± 5.6	150 ± 6.7
333.0	131 ± 4.5	162 ± 4.7	152 ± 17.1
1000.0	130 ± 3.2	152 ± 1.2	156 ± 8.7
1667.0			
3333.0	133 ± 6.0	153 ± 9.7	131 ± 4.4
6667.0			
10000.0	129 ± 12.2	142 ± 9.1	144 ± 6.8
16667.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²	2076 ± 186.7	880 ± 68.6	1579 ± 98.1
Positive Control ³			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	21 ± 1.5	19 ± 0.6	11 ± 0.6	15 ± 2.2	17 ± 2.3
100.0	26 ± 1.8	22 ± 1.9			16 ± 1.0
333.0	25 ± 1.7	18 ± 2.5			20 ± 2.2
1000.0	27 ± 2.9	24 ± 0.6		19 ± 1.0	17 ± 1.3
1667.0			17 ± 2.2	22 ± 1.7	
3333.0	27 ± 3.2	25 ± 5.2	20 ± 2.1	24 ± 1.2	23 ± 0.7
6667.0			31 ± 5.1	27 ± 3.8	
10000.0	23 ± 0.3	32 ± 3.1	44 ± 1.5	31 ± 4.3	28 ± 0.3
16667.0			41 ± 1.2	44 ± 5.8	
Trial Summary	Negative	Equivocal	Positive	Positive	Equivocal
Positive Control ⁴					611 ± 65.3
Positive Control ³	1340 ± 152.5	1113 ± 49.6	143 ± 35.8	1405 ± 64.6	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.0	18 ± 0.9	17 ± 2.0	19 ± 2.5	15 ± 2.9
100.0	16 ± 4.8		22 ± 3.0	23 ± 3.0	14 ± 2.3
333.0	17 ± 1.2		17 ± 2.1	23 ± 0.7	16 ± 0.7
1000.0	14 ± 1.5		22 ± 0.9	21 ± 1.7	18 ± 1.2
1667.0		16 ± 2.5			
3333.0	19 ± 3.0	20 ± 3.1	23 ± 1.2	22 ± 0.9	21 ± 1.2
6667.0		23 ± 2.7			
10000.0	25 ± 1.0	30 ± 1.0	32 ± 1.8	25 ± 1.7	25 ± 2.6
16667.0		Toxic			
Trial Summary	Negative	Negative	Weakly Positive	Negative	Equivocal
Positive Control ⁴	293 ± 22.6	266 ± 58.5	502 ± 11.3	350 ± 33.0	421 ± 15.5
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	10 ± 4.1	11 ± 2.8	16 ± 1.5	27 ± 1.8	12 ± 2.0
100.0	11 ± 3.7	11 ± 3.9	14 ± 0.9	23 ± 1.5	13 ± 2.2
333.0	10 ± 1.7	10 ± 1.0	11 ± 1.5	17 ± 2.8	13 ± 2.4
1000.0	9 ± 2.7	6 ± 2.3	13 ± 0.7	20 ± 2.7	15 ± 1.5
3333.0	5 ± 0.6	11 ± 0.0	13 ± 1.5	23 ± 2.9	11 ± 0.3
10000.0	6 ± 0.3	10 ± 3.6	11 ± 3.0	23 ± 1.7	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			521 ± 69.6	158 ± 14.5	431 ± 21.4
Positive Control ⁵	678 ± 121.2	935 ± 55.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 1.3
100.0	23 ± 1.5
333.0	21 ± 1.2
1000.0	21 ± 0.9
3333.0	19 ± 2.0
10000.0	18 ± 0.9
Trial Summary	Negative
Positive Control ⁴	180 ± 6.7
Positive Control ⁵	

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Test Compound: Maleic hydrazide diethanolamine

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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	30 ± 1.7	28 ± 1.5	29 ± 2.3	37 ± 3.2	40 ± 6.0
100.0	25 ± 4.8	27 ± 2.6	42 ± 0.3	32 ± 3.0	33 ± 2.3
333.0	28 ± 6.4	23 ± 3.1	44 ± 4.4	32 ± 2.9	30 ± 1.7
1000.0	31 ± 2.0	29 ± 0.7	21 ± 0.9	35 ± 0.7	29 ± 0.6
3333.0	26 ± 1.2	27 ± 2.3	29 ± 1.2	34 ± 4.3	32 ± 0.6
10000.0	30 ± 2.9	26 ± 5.0	32 ± 3.9	33 ± 3.5	33 ± 2.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			1044 ± 133.0	1463 ± 191.7	516 ± 66.2
Positive Control ⁶	186 ± 25.4	602 ± 13.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	39 ± 2.0
100.0	40 ± 5.0
333.0	39 ± 3.6
1000.0	42 ± 4.0
3333.0	37 ± 4.4
10000.0	40 ± 1.0
Trial Summary	Negative
Positive Control ²	838 ± 114.8
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 ****