

Experiment Number: 310797

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethanolamine

CAS Number: 111-42-2

Date Report Requested: 09/12/2018

Time Report Requested: 03:47:32

NTP Study Number:

310797

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	131 ± 6.7	124 ± 3.8	173 ± 16.0	163 ± 5.0	206 ± 7.2
33.0	143 ± 4.3	127 ± 6.6	203 ± 6.3	172 ± 14.2	211 ± 7.3
100.0	132 ± 5.3	130 ± 3.9	219 ± 11.0	160 ± 4.7	211 ± 12.3
333.0	141 ± 5.9	125 ± 6.1	216 ± 7.1	180 ± 13.0	239 ± 6.1
1000.0	144 ± 3.2	121 ± 7.8	228 ± 15.4	153 ± 6.4	233 ± 1.8
3333.0	122 ± 3.0	119 ± 3.7	203 ± 7.9	167 ± 12.9	208 ± 4.7
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			442 ± 47.1	365 ± 15.9	808 ± 44.8
Positive Control ³	527 ± 16.6	365 ± 3.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	198 ± 4.2
33.0	189 ± 7.5
100.0	194 ± 6.9
333.0	198 ± 15.6
1000.0	178 ± 9.2
3333.0	180 ± 12.9
Trial Summary	Negative
Positive Control ²	651 ± 112.2
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Diethanolamine

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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	8 ± 1.7	8 ± 0.7	12 ± 2.3	12 ± 0.6	10 ± 1.2
33.0	11 ± 2.3	8 ± 1.7	14 ± 2.4	12 ± 1.2	15 ± 0.7
100.0	5 ± 0.7	6 ± 0.7	11 ± 2.1	9 ± 1.5	17 ± 2.2
333.0	9 ± 2.7	9 ± 0.3	19 ± 1.5	11 ± 4.0	14 ± 3.2
1000.0	8 ± 1.9	8 ± 0.9	15 ± 2.1	12 ± 1.7	18 ± 2.7
3333.0	9 ± 1.8	7 ± 0.9	17 ± 4.1	12 ± 2.5	19 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			30 ± 7.0	25 ± 4.4	40 ± 12.1
Positive Control ³	380 ± 30.1	227 ± 11.8			

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Test Compound: Diethanolamine

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Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.7
33.0	11 ± 2.3
100.0	13 ± 2.5
333.0	10 ± 1.9
1000.0	13 ± 3.0
3333.0	11 ± 4.7
Trial Summary	Negative
Positive Control ²	33 ± 7.7
Positive Control ³	

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Test Compound: Diethanolamine

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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	9 ± 1.5	8 ± 2.1	11 ± 1.5	9 ± 1.9	10 ± 2.0
33.0	7 ± 1.2	4 ± 1.2	14 ± 1.5	8 ± 1.5	10 ± 2.3
100.0	6 ± 0.3	5 ± 1.5	12 ± 1.5	8 ± 1.0	8 ± 2.9
333.0	4 ± 0.7	3 ± 0.9	14 ± 1.8	5 ± 3.0	9 ± 1.7
1000.0	8 ± 0.3	5 ± 1.5	10 ± 1.2	7 ± 2.1	12 ± 2.2
3333.0	6 ± 0.3	7 ± 2.5	8 ± 0.6	7 ± 0.7	12 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			33 ± 4.1	25 ± 4.4	59 ± 5.5
Positive Control ⁴	380 ± 78.5	119 ± 20.5			

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Test Compound: Diethanolamine
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Date Report Requested: 09/12/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
33.0	7 ± 0.7
100.0	6 ± 0.9
333.0	7 ± 0.6
1000.0	7 ± 1.2
3333.0	6 ± 1.5
Trial Summary	Negative
Positive Control ²	65 ± 3.2
Positive Control ⁴	

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Test Compound: 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	17 ± 2.5	16 ± 0.7	20 ± 3.8	30 ± 5.2	24 ± 5.0
33.0	14 ± 3.0	14 ± 0.9	27 ± 3.5	41 ± 2.9	21 ± 1.5
100.0	17 ± 1.5	18 ± 0.9	22 ± 3.7	36 ± 1.8	18 ± 2.6
333.0	17 ± 1.5	16 ± 1.7	24 ± 1.7	41 ± 2.6	17 ± 2.5
1000.0	11 ± 2.7	20 ± 4.7	21 ± 2.0	45 ± 6.4	19 ± 0.6
3333.0	15 ± 0.9	18 ± 2.1	20 ± 1.8	31 ± 1.8	20 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			303 ± 10.1	322 ± 54.7	812 ± 54.4
Positive Control ⁵	600 ± 94.4	190 ± 1.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 5.8
33.0	37 ± 3.1
100.0	38 ± 5.8
333.0	25 ± 0.3
1000.0	33 ± 3.5
3333.0	33 ± 3.0
Trial Summary	Negative
Positive Control ²	677 ± 103.6
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: Water

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 ****