

Experiment Number: 278013

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Nitrosodiethanolamine

CAS Number: 1116-54-7

Date Report Requested: 09/11/2018

Time Report Requested: 14:31:44

NTP Study Number:

278013

Study Result:

Positive

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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	135 ± 4.9	95 ± 8.8	99 ± 6.1	102 ± 1.0	87 ± 3.5
100.0	140 ± 8.7		101 ± 2.4		87 ± 4.0
333.0	134 ± 5.0 ^s	110 ± 1.3 ^s	98 ± 3.4	96 ± 2.7	83 ± 3.7
1000.0	161 ± 8.4 ^s	141 ± 2.5 ^s	108 ± 3.2	109 ± 2.2	96 ± 1.7
3333.0	236 ± 7.3 ^s	204 ± 14.4 ^s	151 ± 7.9	109 ± 4.9	120 ± 0.3
6667.0		343 ± 32.3 ^s		188 ± 4.1	
10000.0	372 ± 32.4 ^s	449 ± 17.1 ^s	231 ± 5.7	261 ± 25.7	220 ± 17.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1151 ± 23.5
Positive Control ³			1589 ± 19.4	1215 ± 39.0	
Positive Control ⁴	1399 ± 31.5	859 ± 17.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	88 ± 10.1
100.0	
333.0	87 ± 2.5
1000.0	89 ± 1.7
3333.0	104 ± 9.4
6667.0	149 ± 6.2
10000.0	197 ± 12.7
Trial Summary	Positive
Positive Control ²	742 ± 24.0
Positive Control ³	
Positive Control 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	34 ± 2.2	31 ± 6.2	13 ± 1.2	12 ± 1.5	14 ± 1.0
100.0	26 ± 1.7		16 ± 0.9		11 ± 2.2
333.0	37 ± 7.3	23 ± 3.3	15 ± 1.5	13 ± 2.8	22 ± 3.4
1000.0	38 ± 4.9 ^s	33 ± 2.6 ^s	16 ± 0.7	14 ± 1.7	21 ± 1.2
3333.0	47 ± 7.0 ^s	36 ± 0.6 ^s	17 ± 0.3	15 ± 1.3	27 ± 4.2
6667.0		39 ± 0.6 ^s		22 ± 5.5	
10000.0	25 ± 0.6 ^s	22 ± 7.0 ^s	28 ± 2.7	25 ± 3.2	42 ± 1.5
Trial Summary	Negative	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control ²					68 ± 3.9
Positive Control ³			100 ± 4.3	82 ± 2.7	
Positive Control ⁴	1097 ± 3.2	933 ± 26.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.2
100.0	
333.0	10 ± 1.2
1000.0	16 ± 1.2
3333.0	18 ± 1.8
6667.0	23 ± 3.6
10000.0	37 ± 2.4 ^s
Trial Summary	Positive
Positive Control ²	76 ± 9.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	79 ± 0.9	86 ± 4.2	144 ± 3.5	156 ± 5.4	106 ± 4.7
100.0	93 ± 1.5		143 ± 9.5		110 ± 8.2
333.0	106 ± 8.1	100 ± 12.6	147 ± 2.6	153 ± 10.8	100 ± 3.5
1000.0	179 ± 13.4 ^s	178 ± 11.1	152 ± 7.5	170 ± 0.7	147 ± 9.5
3333.0	292 ± 4.6 ^s	303 ± 8.2 ^s	185 ± 7.7	201 ± 3.8	175 ± 4.3
6667.0		383 ± 14.6 ^s		299 ± 4.0	
10000.0	204 ± 8.7 ^s	234 ± 15.6 ^s	354 ± 10.8	466 ± 13.6	342 ± 6.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					710 ± 33.8
Positive Control ³			1018 ± 36.2	719 ± 33.9	
Positive Control ⁵	659 ± 39.3	352 ± 21.9			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	107 ± 6.3
100.0	
333.0	119 ± 0.7
1000.0	145 ± 9.6
3333.0	185 ± 7.0
6667.0	264 ± 21.6
10000.0	342 ± 44.8 ^s
Trial Summary	Positive
Positive Control ²	439 ± 15.2
Positive Control ³	
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	13 ± 0.8	17 ± 0.9	35 ± 1.9	23 ± 0.6	31 ± 1.8
100.0	18 ± 2.1		29 ± 3.8		31 ± 2.3
333.0	30 ± 2.1	23 ± 2.1	36 ± 3.5	31 ± 2.4	31 ± 3.2
1000.0	47 ± 4.5 ^s	58 ± 8.2 ^s	38 ± 3.4	41 ± 2.6	38 ± 3.5
3333.0	129 ± 3.8 ^s	130 ± 5.2 ^s	52 ± 3.1	69 ± 6.4	61 ± 2.0
6667.0		225 ± 10.9 ^s		130 ± 4.4	
10000.0	203 ± 4.0 ^s	231 ± 4.9 ^s	154 ± 20.7	227 ± 22.8	140 ± 7.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1055 ± 22.1
Positive Control ³			1355 ± 38.2	1194 ± 14.0	
Positive Control ⁶	1799 ± 38.4	904 ± 33.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.5
100.0	
333.0	33 ± 2.7
1000.0	34 ± 1.8
3333.0	60 ± 6.7
6667.0	132 ± 3.9
10000.0	189 ± 9.1 ^s
Trial Summary	Positive
Positive Control ²	1570 ± 41.4
Positive Control ³	
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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****