

Experiment Number: 195854

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Nitrosopiperidine

CAS Number: 100-75-4

Date Report Requested: 09/14/2018

Time Report Requested: 07:42:30

NTP Study Number: 195854

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	130 ± 1.0	132 ± 7.8	111 ± 12.0	125 ± 4.6	108 ± 10.2
100.0	125 ± 1.5	136 ± 1.2	171 ± 2.9	133 ± 13.9	811 ± 61.0
333.0	142 ± 12.6	132 ± 2.4	230 ± 3.7	132 ± 4.3	1518 ± 45.6
1000.0	128 ± 4.5	135 ± 4.3	392 ± 29.9	236 ± 19.1	3101 ± 24.1
3333.0	137 ± 6.5	135 ± 8.7	806 ± 43.6	376 ± 10.7	3411 ± 145.9
10000.0	143 ± 5.6	158 ± 10.1	1398 ± 79.5	740 ± 27.9	3716 ± 30.3
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					2150 ± 99.3
Positive Control ³			1077 ± 33.3	842 ± 39.6	
Positive Control ⁴	2058 ± 62.6	1152 ± 70.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	135 ± 7.0
100.0	328 ± 14.2
333.0	799 ± 19.7
1000.0	1298 ± 18.5
3333.0	1623 ± 82.7
10000.0	2391 ± 8.7
Trial Summary	Positive
Positive Control ²	849 ± 48.8
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	31 ± 1.2	32 ± 2.8	15 ± 3.0	11 ± 1.5	12 ± 2.2
100.0	36 ± 6.9	41 ± 5.3	53 ± 4.9	23 ± 2.9	683 ± 81.6
333.0	39 ± 3.7	35 ± 3.2	140 ± 5.7	38 ± 2.0	1371 ± 56.2
1000.0	30 ± 5.5	43 ± 4.0	321 ± 13.0	94 ± 5.6	2420 ± 248.6
3333.0	38 ± 4.3	36 ± 2.9	813 ± 32.8	223 ± 1.2	3178 ± 33.6
10000.0	29 ± 4.5	40 ± 4.6	1135 ± 46.2	447 ± 8.3	3256 ± 63.4
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					189 ± 18.7
Positive Control ³			129 ± 2.0	60 ± 2.5	
Positive Control ⁴	1312 ± 24.2	905 ± 35.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.5
100.0	278 ± 14.5
333.0	732 ± 32.5
1000.0	1199 ± 16.3
3333.0	1575 ± 113.3
10000.0	2372 ± 28.3
Trial Summary	Positive
Positive Control ²	79 ± 3.3
Positive Control ³	
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

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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	7 ± 2.6	12 ± 0.7	9 ± 1.3	12 ± 2.3	5 ± 0.3
100.0	6 ± 0.6	10 ± 2.1	9 ± 1.2	12 ± 0.7	8 ± 0.3
333.0	9 ± 1.8	6 ± 1.7	9 ± 2.1	10 ± 0.3	13 ± 1.2
1000.0	5 ± 2.4	10 ± 1.0	8 ± 0.9	12 ± 3.2	20 ± 1.2
3333.0	6 ± 1.2	9 ± 1.7	12 ± 1.0	10 ± 1.8	21 ± 3.5
10000.0	8 ± 1.0	12 ± 2.1	11 ± 3.4	16 ± 1.3	23 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²					233 ± 11.8
Positive Control ³			72 ± 6.7	52 ± 5.0	
Positive Control ⁵	1127 ± 109.0	339 ± 51.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.0
100.0	17 ± 2.0
333.0	19 ± 5.1
1000.0	23 ± 1.0
3333.0	22 ± 3.5
10000.0	22 ± 3.3
Trial Summary	Negative
Positive Control ²	78 ± 10.9
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	21 ± 6.1	23 ± 3.5	25 ± 6.1	36 ± 1.5	35 ± 2.3
100.0	22 ± 2.0	20 ± 1.9	27 ± 4.0	26 ± 2.3	33 ± 2.2
333.0	19 ± 1.2	26 ± 4.5	23 ± 4.2	29 ± 3.8	63 ± 7.3
1000.0	19 ± 1.8	25 ± 1.9	31 ± 2.9	33 ± 3.2	104 ± 15.1
3333.0	22 ± 1.5	28 ± 4.3	32 ± 2.0	38 ± 3.8	130 ± 4.2
10000.0	31 ± 3.3	29 ± 2.6	43 ± 0.7	40 ± 5.3	178 ± 13.9
Trial Summary	Negative	Negative	Equivocal	Negative	Positive
Positive Control ²					1930 ± 38.6
Positive Control ³			965 ± 10.7	370 ± 58.7	
Positive Control ⁶	1819 ± 13.7	1441 ± 117.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 1.9
100.0	36 ± 2.8
333.0	50 ± 6.7
1000.0	52 ± 5.7
3333.0	69 ± 5.8
10000.0	116 ± 6.7
Trial Summary	Positive
Positive Control ²	440 ± 59.8
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: 80.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****