

Experiment Number: 781343

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Nitrosopiperidine

CAS Number: 100-75-4

Date Report Requested: 09/18/2018

Time Report Requested: 01:31:55

NTP Study Number:

781343

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% Rat S9
Vehicle Control ¹	105 ± 8.1	149 ± 7.0	124 ± 4.0	147 ± 6.7	121 ± 2.2
10.0					
100.0	132 ± 12.7	148 ± 8.6	135 ± 7.4	165 ± 1.5	124 ± 11.3
333.0	119 ± 6.5	137 ± 10.2	175 ± 3.4	200 ± 3.8	144 ± 7.0
1000.0	108 ± 5.2	147 ± 10.3	262 ± 10.7	315 ± 18.4	208 ± 4.6
3333.0	121 ± 6.8	148 ± 0.7	404 ± 3.2	523 ± 15.2	333 ± 11.2
10000.0	138 ± 3.9	163 ± 6.1	496 ± 39.3	643 ± 69.3	454 ± 15.4
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					
Positive Control ³			1237 ± 26.6	154 ± 5.7	116 ± 10.3
Positive Control ⁴	1260 ± 55.1	2354 ± 30.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	117 ± 6.9	122 ± 4.5	132 ± 7.4
10.0			150 ± 6.8
100.0	142 ± 1.5	270 ± 28.0	
333.0	157 ± 4.9	493 ± 19.4	616 ± 30.7
1000.0	249 ± 16.9	975 ± 31.9	1193 ± 159.4
3333.0	391 ± 8.7	1378 ± 54.4	2012 ± 76.0
10000.0	417 ± 17.7	1483 ± 35.0	2175 ± 59.8
Trial Summary	Positive	Positive	Positive
Positive Control ²		2428 ± 97.9	3003 ± 105.1
Positive Control ³	1445 ± 166.4		
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% Rat S9
Vehicle Control ¹	19 ± 2.6	30 ± 2.3	11 ± 0.7	18 ± 3.0	7 ± 1.5
10.0					
100.0	26 ± 5.2	31 ± 1.7	23 ± 3.0	30 ± 0.7	21 ± 1.5
333.0	24 ± 2.9	25 ± 2.2	44 ± 4.3	54 ± 3.2	45 ± 2.2
1000.0	20 ± 2.7	29 ± 2.6	155 ± 9.8	210 ± 23.1	86 ± 10.3
3333.0	19 ± 3.8	29 ± 1.2	287 ± 29.2	397 ± 11.3	296 ± 34.3
10000.0	24 ± 2.2	25 ± 3.7	420 ± 37.3	559 ± 59.3	506 ± 40.9
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					
Positive Control ³			71 ± 6.9	13 ± 1.2	6 ± 2.0
Positive Control ⁴	977 ± 9.2	1590 ± 16.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.6	12 ± 2.2	10 ± 2.2
10.0			38 ± 5.5
100.0	23 ± 1.7	166 ± 15.7	
333.0	47 ± 0.6	371 ± 27.0	460 ± 18.2
1000.0	147 ± 13.2	854 ± 121.9	1078 ± 170.1
3333.0	347 ± 8.4	1217 ± 80.6	1477 ± 42.2
10000.0	306 ± 23.2	1430 ± 58.0	2657 ± 279.9
Trial Summary	Positive	Positive	Positive
Positive Control ²		152 ± 2.6	171 ± 3.3
Positive Control ³	141 ± 7.9		
Positive Control ⁴			

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.2	14 ± 1.3	10 ± 2.7
100.0	9 ± 0.6	12 ± 3.0	17 ± 0.9
333.0	5 ± 0.3	12 ± 1.2	12 ± 2.3
1000.0	10 ± 0.3	11 ± 1.5	13 ± 2.7
3333.0	7 ± 2.0	13 ± 1.2	17 ± 2.8
10000.0	9 ± 0.7	12 ± 2.3	16 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			291 ± 8.2
Positive Control ³		133 ± 3.5	
Positive Control ⁵	431 ± 57.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	23 ± 2.9	20 ± 3.8	30 ± 1.5	33 ± 5.2	37 ± 2.5
10.0					
100.0	23 ± 2.5	19 ± 2.3	34 ± 1.8	28 ± 0.6	32 ± 2.6
333.0	23 ± 0.9	22 ± 2.0	38 ± 4.4	30 ± 3.0	32 ± 2.6
1000.0	19 ± 2.0	20 ± 2.0	37 ± 1.9	34 ± 3.6	24 ± 1.8
3333.0	28 ± 2.5	24 ± 4.1	37 ± 4.7	28 ± 2.7	30 ± 5.8
10000.0	28 ± 4.4	30 ± 4.5	35 ± 4.6	38 ± 2.0	36 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			872 ± 54.3	31 ± 2.6	909 ± 43.2
Positive Control ⁶	1378 ± 18.4	1610 ± 8.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	30 ± 3.0
10.0		36 ± 0.9
100.0	25 ± 6.7	
333.0	26 ± 5.0	30 ± 5.1
1000.0	34 ± 1.5	36 ± 0.6
3333.0	36 ± 3.4	60 ± 7.2
10000.0	46 ± 1.0	68 ± 10.7
Trial Summary	Positive	Positive
Positive Control ²	2200 ± 98.3	1837 ± 130.0
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 ****