

Experiment Number: **810034**

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

G06: Ames Summary Data

Test Compound: **N-Nitrosodimethylamine**

CAS Number: **62-75-9**

Date Report Requested: **09/15/2018**

Time Report Requested: **09:56:58**

NTP Study Number:

810034

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	113 ± 4.5	67 ± 2.6	155 ± 3.0	136 ± 2.8	143 ± 3.1
100.0	112 ± 5.8	79 ± 4.7	136 ± 5.5	119 ± 6.5	136 ± 2.1
333.0	104 ± 6.6	75 ± 0.3	139 ± 9.1	121 ± 3.3	137 ± 6.3
1000.0	101 ± 1.5	75 ± 1.2	147 ± 7.6	133 ± 1.2	145 ± 4.8
3333.0	119 ± 11.5	74 ± 9.7	144 ± 2.4	120 ± 9.5	132 ± 2.3
10000.0	118 ± 9.6	69 ± 1.6	143 ± 7.3	141 ± 7.2	134 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴	2563 ± 67.2	1422 ± 56.6	1930 ± 83.4	1928 ± 53.3	2025 ± 65.9

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	140 ± 3.5	96 ± 2.4	70 ± 12.2	124 ± 3.2	120 ± 2.7
100.0	127 ± 4.3	106 ± 6.6	73 ± 4.7	140 ± 4.5	124 ± 2.6
333.0	122 ± 0.9	120 ± 5.4	82 ± 1.2	135 ± 6.1	116 ± 11.1
1000.0	133 ± 3.2	131 ± 6.1	82 ± 3.9	163 ± 19.9	128 ± 5.9
3333.0	126 ± 3.5	181 ± 12.5	160 ± 13.1	178 ± 4.4	180 ± 10.8
10000.0	134 ± 1.0	425 ± 2.4	634 ± 47.7	230 ± 15.4	228 ± 14.9
Trial Summary	Negative	Positive	Positive	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³		2199 ± 81.1	1095 ± 52.3	788 ± 28.2	2320 ± 54.6
Positive Control ⁴	2812 ± 76.5				

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Strain: TA100

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	124 ± 3.2	128 ± 10.7	92 ± 3.8	69 ± 6.9	142 ± 5.2
100.0	120 ± 7.8	118 ± 10.9	127 ± 4.7	146 ± 7.1	194 ± 9.4
333.0	138 ± 6.3	135 ± 8.7	164 ± 9.7	177 ± 11.9	239 ± 9.0
1000.0	149 ± 2.7	136 ± 3.1	186 ± 2.1	192 ± 9.0	284 ± 22.4
3333.0	189 ± 16.5	185 ± 2.3	213 ± 4.2	608 ± 186.0	387 ± 30.1
10000.0	445 ± 24.3	435 ± 6.4	272 ± 9.0	951 ± 19.8	487 ± 62.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			2865 ± 83.0	2208 ± 85.8	730 ± 48.9
Positive Control ³	1955 ± 59.5	1325 ± 26.4			
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	122 ± 5.5	126 ± 2.1	130 ± 8.2
100.0	172 ± 5.5	255 ± 4.7	185 ± 1.2
333.0	202 ± 17.1	432 ± 65.7	261 ± 11.3
1000.0	274 ± 6.6	808 ± 7.5	329 ± 10.7
3333.0	403 ± 26.7	1598 ± 325.4	454 ± 56.7
10000.0	540 ± 65.0	2093 ± 250.3	514 ± 120.9
Trial Summary	Positive	Positive	Positive
Positive Control ²	2705 ± 134.0	2339 ± 104.0	878 ± 9.0
Positive Control ³			
Positive Control ⁴			

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Test Compound: N-Nitrosodimethylamine

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	12 ± 2.2	15 ± 1.2	32 ± 3.4	10 ± 0.7	22 ± 3.1
100.0	10 ± 2.5	13 ± 0.7	30 ± 1.7	16 ± 3.5	19 ± 1.0
333.0	14 ± 1.3	17 ± 2.6	29 ± 6.4	12 ± 1.3	22 ± 1.3
1000.0	14 ± 1.7	13 ± 1.5	28 ± 3.4	14 ± 2.3	25 ± 0.7
3333.0	18 ± 3.0	12 ± 1.8	33 ± 3.8	12 ± 0.3	25 ± 3.1
10000.0	13 ± 4.7	13 ± 2.6	31 ± 3.0	14 ± 1.5	21 ± 3.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴	1440 ± 34.9	979 ± 36.1	1390 ± 9.8	1247 ± 34.6	2178 ± 83.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 0.3	7 ± 0.7	11 ± 1.8	8 ± 1.2	9 ± 2.1
100.0	9 ± 2.3	9 ± 1.0	10 ± 2.3	11 ± 1.0	10 ± 1.0
333.0	13 ± 1.8	8 ± 2.2	10 ± 0.9	10 ± 0.9	12 ± 3.7
1000.0	14 ± 3.7	15 ± 3.0	11 ± 4.4	10 ± 2.0	10 ± 1.5
3333.0	31 ± 4.1	43 ± 4.2	18 ± 3.2	31 ± 6.7	36 ± 2.0
10000.0	32 ± 7.9	199 ± 8.2	30 ± 2.9	383 ± 16.6	91 ± 7.9
Trial Summary	Weakly Positive	Positive	Equivocal	Positive	Positive
Positive Control ²					
Positive Control ³	159 ± 10.1	74 ± 7.9	51 ± 6.4	112 ± 11.0	63 ± 2.6
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	5 ± 1.5	14 ± 1.7	9 ± 0.9	11 ± 3.0
100.0	6 ± 1.2	7 ± 0.6	15 ± 1.2	24 ± 8.4	25 ± 1.3
333.0	14 ± 4.0	13 ± 1.2	36 ± 5.4	94 ± 17.3	49 ± 4.8
1000.0	11 ± 3.2	22 ± 5.1	121 ± 18.7	496 ± 32.8	151 ± 18.4
3333.0	15 ± 2.7	78 ± 4.3	163 ± 49.4	961 ± 167.6	185 ± 10.0
10000.0	44 ± 11.2	111 ± 10.7	90 ± 16.0	2235 ± 35.0	61 ± 5.2
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control ²	248 ± 14.7	137 ± 7.8	68 ± 8.7	160 ± 4.0	80 ± 7.9
Positive Control ³					
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	3 ± 0.7	5 ± 1.2	8 ± 2.3
100.0	3 ± 1.5	4 ± 1.2	6 ± 1.7
333.0	5 ± 1.9	5 ± 2.0	8 ± 0.6
1000.0	7 ± 1.2	7 ± 2.3	6 ± 1.2
3333.0	7 ± 2.3	5 ± 0.9	6 ± 1.3
10000.0	5 ± 0.3	2 ± 1.2	7 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ²			109 ± 3.7
Positive Control ³		79 ± 7.1	
Positive Control ⁵	441 ± 72.6		

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Strain: TA98			
Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.7	20 ± 2.9	17 ± 3.2
100.0	14 ± 0.9	23 ± 1.5	18 ± 1.0
333.0	17 ± 2.0	22 ± 2.3	22 ± 3.8
1000.0	15 ± 1.2	17 ± 2.5	24 ± 1.2
3333.0	13 ± 1.5	26 ± 6.3	20 ± 1.8
10000.0	16 ± 1.5	20 ± 3.6	23 ± 2.3
Trial Summary	Negative	Negative	Negative
Positive Control ²			2812 ± 48.5
Positive Control ³		2820 ± 37.1	
Positive Control ⁶	1497 ± 26.4		

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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: 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

s: Slight Toxicity

** END OF REPORT **