

Experiment Number: **320614**

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

G06: Ames Summary Data

Test Compound: **N-Nitrosodimethylamine**

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

Date Report Requested: **09/12/2018**

Time Report Requested: **09:53:43**

NTP Study Number:

320614

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	94 ± 4.2	123 ± 8.5	168 ± 12.8	138 ± 9.5	164 ± 6.8
100.0	109 ± 2.2	181 ± 11.0	165 ± 3.9	341 ± 40.2	356 ± 24.7
333.0	110 ± 11.1	260 ± 15.6	199 ± 9.3	465 ± 31.3	494 ± 25.3
1000.0	113 ± 6.4	341 ± 28.7	287 ± 11.0	531 ± 52.2	703 ± 20.2
3333.0	92 ± 5.2	489 ± 53.8	462 ± 18.0	304 ± 41.4	944 ± 27.9
10000.0	102 ± 6.4	343 ± 0.7	471 ± 41.3	722 ± 49.8	1167 ± 50.4
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		595 ± 35.5	934 ± 21.0	1621 ± 56.3	2026 ± 31.0
Positive Control ³	478 ± 19.0				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.7	10 ± 2.2	10 ± 2.1	10 ± 3.5	8 ± 1.2
100.0	16 ± 1.9	37 ± 13.0	43 ± 11.8	123 ± 33.3	36 ± 12.9
333.0	13 ± 4.1	70 ± 9.9	76 ± 31.8	210 ± 26.7	87 ± 10.7
1000.0	16 ± 1.2	214 ± 32.2	177 ± 59.7	486 ± 88.7	187 ± 30.4
3333.0	21 ± 4.7	438 ± 87.9	250 ± 39.9	108 ± 6.7	376 ± 17.3
10000.0	23 ± 4.3	295 ± 17.9	163 ± 18.2	348 ± 86.7	433 ± 34.3
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³	643 ± 81.2				
Positive Control ⁴		164 ± 7.4	223 ± 13.9	418 ± 0.3	533 ± 17.2

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	111 ± 0.9	136 ± 1.0	172 ± 13.3	181 ± 18.4	186 ± 6.7
100.0	130 ± 19.1	150 ± 13.1	190 ± 5.8	212 ± 16.1	172 ± 7.8
333.0	144 ± 9.3	152 ± 1.5	171 ± 11.9	228 ± 14.5	184 ± 6.5
1000.0	178 ± 3.2	140 ± 10.7	154 ± 8.1	227 ± 24.9	194 ± 28.5
3333.0	135 ± 14.4	144 ± 10.5	164 ± 13.9	238 ± 26.8	214 ± 15.0
10000.0	125 ± 9.3	135 ± 6.1	150 ± 6.1	254 ± 10.0	192 ± 19.6
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control ⁴			1888 ± 29.1	647 ± 20.5	1452 ± 80.7
Positive Control ⁵	1405 ± 65.0	1156 ± 22.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	173 ± 11.1	136 ± 9.1	205 ± 20.3	145 ± 10.4	186 ± 0.3
100.0	195 ± 9.2	148 ± 4.4	188 ± 31.3	149 ± 29.1	402 ± 40.6
333.0	245 ± 19.5	159 ± 16.0	241 ± 3.0	192 ± 6.8	453 ± 42.1
1000.0	294 ± 20.6	154 ± 8.4	292 ± 44.3	184 ± 27.4	517 ± 114.5
3333.0	342 ± 38.6	167 ± 3.2	221 ± 25.2	215 ± 25.7	561 ± 76.1
10000.0	375 ± 40.2	170 ± 4.9	298 ± 26.8	243 ± 24.9	519 ± 14.0
Trial Summary	Positive	Equivocal	Equivocal	Weakly Positive	Positive
Positive Control ⁴	680 ± 21.3	2073 ± 46.3	965 ± 38.5	1885 ± 76.9	1534 ± 28.8
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.6	20 ± 2.0	31 ± 1.5
100.0	12 ± 1.8	21 ± 4.4	28 ± 2.6
333.0	18 ± 4.2	26 ± 0.9	37 ± 1.5
1000.0	11 ± 3.2	23 ± 0.0	31 ± 1.9
3333.0	12 ± 2.9	21 ± 1.7	26 ± 2.0
10000.0	12 ± 2.1	30 ± 3.2	30 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control ²		433 ± 63.0	1098 ± 58.9
Positive Control ⁶	513 ± 11.4		

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****