

Experiment Number: 923352

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

**G06: Ames Summary Data**

Test Compound: **N-Nitrosodiethylamine**

CAS Number: 55-18-5

Date Report Requested: **09/17/2018**

Time Report Requested: **06:51:15**

**NTP Study Number:**

923352

**Study Result:**

Positive

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Mutagenicity**G06: Ames Summary Data**Test Compound: N-Nitrosodiethylamine  
CAS Number: 55-18-5

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**Strain: TA100**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 5.2	84 ± 8.2	113 ± 6.1	98 ± 4.8	139 ± 7.6
100.0	102 ± 3.8	77 ± 2.4	125 ± 15.4	87 ± 3.8	183 ± 3.6
333.0	108 ± 3.2	87 ± 7.6	113 ± 6.2	94 ± 5.5	215 ± 8.3
1000.0	101 ± 5.0	80 ± 6.1	132 ± 4.7	111 ± 7.2	441 ± 33.4
3333.0	137 ± 2.9	104 ± 1.5	154 ± 4.1	116 ± 9.5	675 ± 89.9
10000.0	178 ± 17.7	169 ± 8.7	199 ± 7.1	159 ± 12.9	1098 ± 30.6
Trial Summary	Equivocal	Equivocal	Weakly Positive	Equivocal	Positive
Positive Control <sup>2</sup>	298 ± 10.5	278 ± 8.6			
Positive Control <sup>3</sup>					475 ± 30.5
Positive Control <sup>4</sup>			305 ± 26.4	267 ± 9.0	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	111 ± 8.7
100.0	121 ± 0.0
333.0	188 ± 4.3
1000.0	415 ± 18.6
3333.0	927 ± 70.1
10000.0	1002 ± 62.9
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	324 ± 20.9
Positive Control <sup>4</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: N-Nitrosodiethylamine

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**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 3.2	15 ± 4.8	29 ± 1.9	26 ± 0.7	31 ± 2.0
100.0	12 ± 5.5	12 ± 3.0	17 ± 5.5	19 ± 2.1	33 ± 1.5
333.0	17 ± 1.7	12 ± 0.6	22 ± 4.7	22 ± 1.0	30 ± 5.9
1000.0	18 ± 0.9	10 ± 0.9	29 ± 5.2	20 ± 1.7	71 ± 3.8
3333.0	33 ± 3.0	15 ± 1.5	45 ± 0.5	29 ± 5.3	141 ± 11.3
10000.0	57 ± 1.5	40 ± 0.9	54 ± 2.1	39 ± 3.8	224 ± 17.6
Trial Summary	Positive	Equivocal	Equivocal	Negative	Positive
Positive Control <sup>5</sup>					137 ± 11.3
Positive Control <sup>6</sup>	205 ± 14.6	159 ± 8.7			
Positive Control <sup>3</sup>			97 ± 6.4	73 ± 3.2	

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**G06: Ames Summary Data**  
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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	20 ± 3.3
100.0	25 ± 2.9
333.0	24 ± 2.0
1000.0	68 ± 7.0
3333.0	148 ± 5.5
10000.0	169 ± 8.7
Trial Summary	Positive
Positive Control <sup>5</sup>	66 ± 1.2
Positive Control <sup>6</sup>	
Positive Control <sup>3</sup>	

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**G06: Ames Summary Data**

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**LEGEND**

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***