

Experiment Number: 765172

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

**G06: Ames Summary Data**

Test Compound: **1-Nitrohexane**

CAS Number: **646-14-0**

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

Time Report Requested: **20:07:26**

**NTP Study Number:**

765172

**Study Result:**

Negative

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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 <sup>1</sup>	84 ± 8.4	97 ± 7.5	127 ± 5.1	122 ± 15.2	129 ± 8.8
3.3		100 ± 17.9			
10.0		82 ± 7.8			
33.0	107 ± 4.7	102 ± 10.9	153 ± 2.2	136 ± 11.7	159 ± 10.1
100.0	82 ± 3.6	79 ± 7.3	115 ± 4.7	134 ± 12.7	131 ± 0.6
333.0	72 ± 4.7	73 ± 5.2	93 ± 1.7	91 ± 1.5	76 ± 1.2
1000.0	Toxic		81 ± 11.6	80 ± 1.5	87 ± 4.6
3333.0	Toxic		93 ± 0.9	107 ± 18.0	121 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1266 ± 131.0	2043 ± 93.5	1183 ± 6.1
Positive Control <sup>3</sup>	553 ± 22.7	609 ± 33.0			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	119 ± 8.2
3.3	
10.0	
33.0	132 ± 8.4
100.0	120 ± 0.7
333.0	88 ± 9.2
1000.0	79 ± 1.2
3333.0	107 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1789 ± 88.2
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 0.9	5 ± 1.2	4 ± 0.6	5 ± 1.3	7 ± 0.3
10.0		4 ± 0.3			
33.0	4 ± 0.9	5 ± 1.2	5 ± 1.5	6 ± 0.7	7 ± 1.5
100.0	2 ± 0.9	4 ± 1.2	4 ± 1.5	7 ± 0.9	5 ± 0.3
333.0	1 ± 0.6	5 ± 2.2	4 ± 0.7	6 ± 0.6	4 ± 0.3
1000.0	1 ± 0.7	3 ± 1.3	5 ± 0.9	5 ± 1.2	3 ± 0.6
3333.0	Toxic		5 ± 1.2	5 ± 0.9	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			123 ± 6.1	151 ± 17.3	36 ± 0.9
Positive Control <sup>3</sup>	344 ± 25.1	359 ± 65.8			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.9
10.0	
33.0	6 ± 0.9
100.0	6 ± 0.9
333.0	5 ± 0.9
1000.0	5 ± 2.7
3333.0	4 ± 0.6
Trial Summary	Negative
Positive Control <sup>2</sup>	70 ± 6.6
Positive Control <sup>3</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 1-Nitrohexane

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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 <sup>1</sup>	3 ± 0.7	3 ± 0.3	5 ± 0.3	3 ± 1.2	8 ± 1.2
1.0		1 ± 0.3			
3.3		3 ± 0.3			
10.0		2 ± 0.3			
33.0	3 ± 0.9	3 ± 0.9	11 ± 2.0	7 ± 2.0	3 ± 0.0
100.0	3 ± 0.9	5 ± 0.9	6 ± 1.5	3 ± 0.6	5 ± 0.6
333.0	Toxic		5 ± 0.3	4 ± 0.7	3 ± 0.3
1000.0	Toxic		3 ± 0.3	2 ± 0.0	4 ± 0.6
3333.0	Toxic		8 ± 1.2	5 ± 0.6	5 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			154 ± 9.8	131 ± 27.7	121 ± 8.8
Positive Control <sup>4</sup>	856 ± 85.8	451 ± 57.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 2.0
1.0	
3.3	
10.0	
33.0	2 ± 0.9
100.0	6 ± 1.5
333.0	3 ± 1.0
1000.0	3 ± 1.3
3333.0	5 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	67 ± 12.3
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: 1-Nitrohexane

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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 <sup>1</sup>	14 ± 1.5	13 ± 1.0	23 ± 1.5	20 ± 1.8	27 ± 2.3
33.0	17 ± 2.6	12 ± 2.3	23 ± 0.7	21 ± 1.3	27 ± 2.2
100.0	24 ± 2.9	15 ± 3.7	20 ± 3.5	23 ± 2.9	17 ± 0.7
333.0	16 ± 1.2	10 ± 2.6	15 ± 2.0	17 ± 1.9	15 ± 0.7
1000.0	12 ± 3.4	10 ± 0.6	13 ± 1.5	17 ± 2.7	24 ± 2.6
3333.0	24 ± 1.7	15 ± 3.5	18 ± 0.9	19 ± 1.5	28 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1042 ± 114.0	952 ± 83.8	1104 ± 30.3
Positive Control <sup>5</sup>	327 ± 40.4	267 ± 7.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 3.2
33.0	20 ± 1.7
100.0	21 ± 3.4
333.0	15 ± 2.2
1000.0	14 ± 5.2
3333.0	25 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	797 ± 56.3
Positive Control <sup>5</sup>	

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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