

Experiment Number: 193955

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

**G06: Ames Summary Data**

Test Compound: **Nitrobenzene**

CAS Number: **98-95-3**

Date Report Requested: **09/14/2018**

Time Report Requested: **02:26:06**

**NTP Study Number:**

193955

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Nitrobenzene

CAS Number: 98-95-3

Date Report Requested: 09/14/2018

Time Report Requested: 02:26:06

## 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>	114 ± 4.7	116 ± 7.5	101 ± 5.7	119 ± 8.3	117 ± 1.5
10.0		126 ± 7.0		128 ± 10.7	
33.0	122 ± 4.7	126 ± 5.7	123 ± 11.7	127 ± 11.3	106 ± 3.8
100.0	126 ± 7.8	114 ± 7.9	105 ± 4.0	123 ± 5.3	107 ± 2.6
333.0	119 ± 2.7	124 ± 4.2	98 ± 6.8	117 ± 1.5	122 ± 5.0
1000.0	81 ± 2.0 <sup>s</sup>	Toxic	117 ± 3.8 <sup>s</sup>	103 ± 0.9 <sup>s</sup>	103 ± 9.8 <sup>s</sup>
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2902 ± 111.3
Positive Control <sup>3</sup>			1429 ± 57.0	1480 ± 11.5	
Positive Control <sup>4</sup>	2221 ± 11.7	1674 ± 41.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	123 ± 5.4
10.0	107 ± 5.7
33.0	118 ± 10.3
100.0	124 ± 3.2
333.0	109 ± 2.4
1000.0	88 ± 3.8 <sup>s</sup>
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1626 ± 80.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 5.2	23 ± 2.9	14 ± 2.1	9 ± 1.0	13 ± 2.3
10.0		18 ± 2.1		12 ± 1.5	
33.0	23 ± 1.5	21 ± 2.6	8 ± 2.4	8 ± 0.6	11 ± 2.1
100.0	24 ± 2.0	20 ± 2.0	14 ± 2.3	12 ± 1.3	9 ± 2.0
333.0	30 ± 2.7	20 ± 4.7	11 ± 1.5	11 ± 1.2	10 ± 1.3
1000.0	13 ± 1.5 <sup>s</sup>	11 ± 1.2 <sup>s</sup>	12 ± 2.0 <sup>s</sup>	9 ± 2.7 <sup>s</sup>	10 ± 2.0 <sup>s</sup>
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					197 ± 3.8
Positive Control <sup>3</sup>			71 ± 3.3	155 ± 6.9	
Positive Control <sup>4</sup>	1399 ± 18.8	1123 ± 20.3			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.2
10.0	10 ± 2.2
33.0	10 ± 0.9
100.0	12 ± 2.1
333.0	8 ± 1.8
1000.0	7 ± 0.9 <sup>s</sup>
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	162 ± 7.9
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Nitrobenzene

CAS Number: 98-95-3

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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>	5 ± 1.0	4 ± 0.6	9 ± 2.6	6 ± 1.7	11 ± 1.8
10.0		3 ± 1.2		8 ± 2.7	
33.0	7 ± 1.2	5 ± 1.7	10 ± 2.1	8 ± 1.3	8 ± 2.3
100.0	8 ± 2.0	3 ± 1.3	7 ± 1.7	6 ± 0.7	9 ± 1.2
333.0	7 ± 0.9	6 ± 0.3	6 ± 1.2	5 ± 1.9	8 ± 1.5
1000.0	5 ± 0.9 <sup>s</sup>	4 ± 0.6 <sup>s</sup>	10 ± 1.5	6 ± 1.5 <sup>s</sup>	6 ± 1.2
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					388 ± 17.0
Positive Control <sup>3</sup>			159 ± 16.1	182 ± 2.2	
Positive Control <sup>5</sup>	905 ± 29.9	314 ± 56.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 2.0
10.0	7 ± 1.3
33.0	6 ± 1.0
100.0	10 ± 2.7
333.0	5 ± 2.6
1000.0	4 ± 1.3 <sup>s</sup>
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	246 ± 12.0
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Nitrobenzene

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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 ± 2.5	16 ± 3.1	23 ± 1.2	28 ± 3.9	27 ± 2.0
10.0		14 ± 3.2		29 ± 2.1	
33.0	15 ± 2.0	15 ± 1.5	30 ± 1.2	25 ± 1.8	28 ± 2.6
100.0	14 ± 4.4	16 ± 2.6	24 ± 3.5	30 ± 3.1	30 ± 1.2
333.0	13 ± 1.2	13 ± 0.7	29 ± 1.0	26 ± 4.3	29 ± 1.8
1000.0	15 ± 1.2 <sup>s</sup>	13 ± 0.3 <sup>s</sup>	23 ± 1.5	19 ± 1.2 <sup>s</sup>	21 ± 1.2
2000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2645 ± 96.8
Positive Control <sup>3</sup>			1308 ± 61.1	1705 ± 37.5	
Positive Control <sup>6</sup>	1472 ± 43.2	1470 ± 16.5			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 0.7
10.0	21 ± 1.7
33.0	29 ± 1.5
100.0	31 ± 4.1
333.0	27 ± 3.5
1000.0	20 ± 3.7 <sup>s</sup>
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1533 ± 92.9
Positive Control <sup>3</sup>	
Positive Control <sup>6</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: 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 \*\***