

Experiment Number: 542172

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

**G06: Ames Summary Data**

Test Compound: **Nitrobenzene**

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

Date Report Requested: **09/13/2018**

Time Report Requested: **16:41:41**

**NTP Study Number:**

542172

**Study Result:**

Negative

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Test Compound: Nitrobenzene

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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>	106 ± 1.8	92 ± 9.8	107 ± 9.1	95 ± 7.4	98 ± 6.9
10.0	105 ± 11.0	86 ± 12.3	129 ± 5.0	106 ± 8.9	128 ± 9.6
33.3	102 ± 3.8	98 ± 6.4	122 ± 9.3	116 ± 12.0	112 ± 7.5
100.0	103 ± 3.5	81 ± 12.0	117 ± 4.6	98 ± 10.2	101 ± 3.3
333.3	104 ± 5.1	59 ± 8.4	112 ± 14.1	93 ± 11.3	90 ± 8.4
1000.0	28 ± 9.1 <sup>s</sup>	6 ± 6.0 <sup>s</sup>	31 ± 15.5 <sup>s</sup>	61 ± 4.7	102 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	329 ± 10.2	268 ± 16.6			
Positive Control <sup>3</sup>			1188 ± 28.8	1492 ± 61.4	2003 ± 54.1

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 7.4
10.0	107 ± 3.0
33.3	94 ± 12.4
100.0	108 ± 6.0
333.3	69 ± 7.9
1000.0	52 ± 10.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	2368 ± 57.7

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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>	17 ± 0.9	13 ± 0.9	11 ± 1.3	7 ± 1.5	8 ± 3.3
10.0	11 ± 3.5	16 ± 1.5	6 ± 0.9	6 ± 1.5	7 ± 1.2
33.3	9 ± 0.6	13 ± 0.6	9 ± 0.9	7 ± 1.5	9 ± 0.9
100.0	15 ± 2.9	15 ± 2.2	8 ± 1.3	7 ± 1.9	7 ± 1.2
333.3	14 ± 1.8	9 ± 0.6	8 ± 1.2	6 ± 0.7	6 ± 2.0
1000.0	0 ± 0.0 <sup>s</sup>	1 ± 0.6 <sup>s</sup>	6 ± 0.7 <sup>s</sup>	2 ± 2.0 <sup>s</sup>	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	356 ± 7.6	300 ± 12.9			
Positive Control <sup>4</sup>			416 ± 22.6	325 ± 27.3	452 ± 23.0

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.8
10.0	6 ± 2.6
33.3	7 ± 0.7
100.0	4 ± 1.0
333.3	5 ± 1.0
1000.0	1 ± 1.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	501 ± 23.6

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Nitrobenzene

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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>	7 ± 1.2	5 ± 0.9	6 ± 0.9	8 ± 1.2	6 ± 1.2
10.0	3 ± 1.5	4 ± 0.3	7 ± 2.0	5 ± 1.7	7 ± 2.3
33.3	5 ± 1.2	5 ± 0.6	6 ± 1.5	6 ± 1.5	8 ± 0.3
100.0	5 ± 0.3	5 ± 0.0	7 ± 0.9	5 ± 1.2	8 ± 0.9
333.3	5 ± 1.7	6 ± 1.2	6 ± 1.8	7 ± 2.7	7 ± 1.2
1000.0	0 ± 0.3 <sup>s</sup>	Toxic	3 ± 1.3 <sup>s</sup>	3 ± 1.8 <sup>s</sup>	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			328 ± 27.8	494 ± 38.2	286 ± 58.0
Positive Control <sup>5</sup>	125 ± 35.9	274 ± 85.5			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.6
10.0	5 ± 0.7
33.3	4 ± 1.0
100.0	4 ± 0.6
333.3	4 ± 0.6
1000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	522 ± 52.2
Positive Control <sup>5</sup>	

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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>	33 ± 2.6	25 ± 3.4	37 ± 5.8	33 ± 2.7	28 ± 1.8
10.0	37 ± 0.6	36 ± 4.2	39 ± 5.1	35 ± 4.8	40 ± 3.7
33.3	36 ± 3.8	21 ± 1.9	39 ± 2.8	42 ± 5.3	28 ± 1.8
100.0	25 ± 2.9	27 ± 7.1	33 ± 4.3	34 ± 2.7	35 ± 3.4
333.3	24 ± 2.0	19 ± 2.7	29 ± 2.1	20 ± 2.5	31 ± 2.4
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	14 ± 2.5 <sup>s</sup>	15 ± 4.5	19 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			824 ± 46.2	1033 ± 57.8	1859 ± 77.8
Positive Control <sup>6</sup>	437 ± 14.2	550 ± 97.1			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 1.5
10.0	45 ± 3.2
33.3	36 ± 6.3
100.0	36 ± 2.7
333.3	30 ± 6.2
1000.0	7 ± 6.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	1889 ± 123.0
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: 1.0 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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