

Experiment Number: 828809

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Nitrotoluene

CAS Number: 99-99-0

Date Report Requested: 09/15/2018

Time Report Requested: 19:00:53

**NTP Study Number:**

828809

**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>	154 ± 10.8	127 ± 13.3	134 ± 6.3	128 ± 15.3	125 ± 4.4
3.3		125 ± 10.5			
10.0	164 ± 8.7	141 ± 5.3		118 ± 9.5	
33.0	155 ± 9.6	109 ± 6.5	145 ± 10.8	131 ± 3.9	131 ± 7.8
100.0	169 ± 0.9	124 ± 9.8	134 ± 10.1	137 ± 6.2	129 ± 4.5
333.0	177 ± 7.1 <sup>s</sup>	147 ± 3.8 <sup>s</sup>	156 ± 9.4	137 ± 4.5	141 ± 12.5
500.0				136 ± 5.0 <sup>s</sup>	
667.0	Toxic		Toxic		155 ± 3.5 <sup>s</sup>
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1391 ± 136.2
Positive Control <sup>3</sup>			813 ± 60.8	1061 ± 52.5	
Positive Control <sup>4</sup>	2263 ± 120.4	1343 ± 30.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	145 ± 8.7
3.3	
10.0	131 ± 3.8
33.0	134 ± 6.9
100.0	136 ± 5.7
333.0	164 ± 5.5
500.0	143 ± 11.9 <sup>s</sup>
667.0	
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1191 ± 27.7
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>	30 ± 2.1	22 ± 2.0	14 ± 0.6	9 ± 0.3	12 ± 2.0
3.3		24 ± 0.9			
10.0	39 ± 3.3	20 ± 1.3		9 ± 1.9	
33.0	30 ± 1.9	19 ± 1.2	12 ± 0.3	14 ± 2.5	9 ± 0.9
100.0	35 ± 2.3	19 ± 3.0	13 ± 0.9	11 ± 1.7	19 ± 2.2
333.0	24 ± 0.9 <sup>s</sup>	21 ± 2.7 <sup>s</sup>	18 ± 3.5	16 ± 1.5	14 ± 2.9
500.0				10 ± 1.5 <sup>s</sup>	
667.0	Toxic		Toxic		Toxic
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					121 ± 14.2
Positive Control <sup>3</sup>			56 ± 2.7	42 ± 3.5	
Positive Control <sup>4</sup>	1469 ± 33.8	980 ± 33.6			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.1
3.3	
10.0	15 ± 0.7
33.0	10 ± 1.0
100.0	12 ± 2.2
333.0	17 ± 1.9
500.0	11 ± 2.6 <sup>s</sup>
667.0	
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	49 ± 2.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: p-Nitrotoluene

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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>	6 ± 1.5	5 ± 1.9	11 ± 1.5	7 ± 1.7	6 ± 0.3
3.3		4 ± 2.6			
10.0	7 ± 0.3	5 ± 0.9		7 ± 1.9	
33.0	5 ± 0.9	4 ± 1.5	13 ± 2.5	5 ± 2.0	6 ± 1.0
100.0	8 ± 1.5	3 ± 1.2	10 ± 2.4	6 ± 1.0	10 ± 2.2
333.0	7 ± 2.7 <sup>s</sup>	4 ± 0.7	12 ± 3.5	6 ± 2.7	7 ± 0.9
500.0				6 ± 1.0 <sup>s</sup>	
667.0	Toxic		Toxic		Toxic
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					130 ± 11.5
Positive Control <sup>3</sup>			46 ± 7.1	77 ± 6.1	
Positive Control <sup>5</sup>	557 ± 68.4	379 ± 61.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 1.5
3.3	
10.0	7 ± 0.7
33.0	6 ± 0.3
100.0	7 ± 0.0
333.0	5 ± 2.5
500.0	6 ± 1.0 <sup>s</sup>
667.0	
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	133 ± 3.8
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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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>	25 ± 2.7	13 ± 1.7	31 ± 2.3	23 ± 5.6	30 ± 3.6
3.3		11 ± 0.6			
10.0	16 ± 2.4	15 ± 1.7		23 ± 2.3	
33.0	19 ± 4.0	15 ± 1.2	35 ± 3.4	20 ± 1.2	36 ± 3.3
100.0	18 ± 1.9	14 ± 1.3	31 ± 2.0	24 ± 4.1	31 ± 2.3
333.0	20 ± 1.9 <sup>s</sup>	11 ± 2.0	27 ± 2.8	22 ± 0.9	36 ± 4.2
500.0				16 ± 2.0 <sup>s</sup>	
667.0	Toxic		17 ± 0.6 <sup>s</sup>		Toxic
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1468 ± 63.0
Positive Control <sup>3</sup>			515 ± 10.9	752 ± 10.7	
Positive Control <sup>6</sup>	1904 ± 87.8	1347 ± 43.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 2.1
3.3	
10.0	23 ± 2.5
33.0	22 ± 0.3
100.0	27 ± 4.5
333.0	27 ± 1.2
500.0	21 ± 5.0 <sup>s</sup>
667.0	
1000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1045 ± 12.6
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 \*\*