

Experiment Number: 121903

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: o-Nitroacetophenone

CAS Number: 577-59-3

Date Report Requested: 09/12/2018

Time Report Requested: 02:02:00

**NTP Study Number:**

121903

**Study Result:**

Negative

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Test Compound: o-Nitroacetophenone

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Date Report Requested: 09/12/2018

Time Report Requested: 02:02:00

## 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>	140 ± 8.8	118 ± 0.7	140 ± 8.0	113 ± 4.3	162 ± 6.2
10.0	164 ± 17.2	126 ± 3.6			
33.0	169 ± 6.2	127 ± 4.8	172 ± 12.6	109 ± 6.3	141 ± 4.7
100.0	166 ± 0.0	130 ± 4.6	178 ± 6.9	142 ± 7.6	153 ± 9.3
333.0	180 ± 11.3	129 ± 5.2	157 ± 9.1	129 ± 6.2	122 ± 6.9
1000.0	149 ± 11.6 <sup>s</sup>	128 ± 5.4 <sup>s</sup>	150 ± 4.6	110 ± 9.5	144 ± 1.8
3000.0				17 ± 3.8 <sup>s</sup>	
3333.0			20 ± 3.9 <sup>s</sup>		38 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1284 ± 39.0
Positive Control <sup>3</sup>			1322 ± 40.2	739 ± 52.6	
Positive Control <sup>4</sup>	1052 ± 44.3	1122 ± 28.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 7.4
10.0	
33.0	123 ± 7.9
100.0	124 ± 3.2
333.0	116 ± 11.6
1000.0	124 ± 8.4
3000.0	27 ± 2.2 <sup>s</sup>
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1164 ± 56.0
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>	22 ± 2.7	26 ± 1.0	21 ± 1.7	10 ± 1.2	20 ± 4.6
10.0	23 ± 2.1	22 ± 2.9			
33.0	28 ± 4.1	19 ± 3.8	15 ± 1.9	11 ± 1.0	20 ± 2.5
100.0	25 ± 2.3	25 ± 3.2	17 ± 1.7	10 ± 1.5	22 ± 1.2
333.0	27 ± 1.2	25 ± 3.5	19 ± 2.3	12 ± 1.5	17 ± 1.7
1000.0	25 ± 2.4 <sup>s</sup>	17 ± 1.7 <sup>s</sup>	19 ± 4.1	11 ± 0.7	21 ± 0.3
3000.0				2 ± 0.9 <sup>s</sup>	
3333.0			9 ± 3.0 <sup>s</sup>		2 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					107 ± 7.2
Positive Control <sup>3</sup>			104 ± 2.7	59 ± 1.9	
Positive Control <sup>4</sup>	858 ± 28.3	814 ± 29.0			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 2.7
10.0	
33.0	11 ± 3.3
100.0	9 ± 1.2
333.0	8 ± 0.3
1000.0	7 ± 2.0
3000.0	2 ± 0.7 <sup>s</sup>
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	117 ± 4.9
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: o-Nitroacetophenone  
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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>	9 ± 3.5	8 ± 0.9	8 ± 0.7	9 ± 1.2	8 ± 1.0
10.0	7 ± 0.9	10 ± 1.3			
33.0	10 ± 1.3	5 ± 1.0	12 ± 2.3	4 ± 0.9	5 ± 1.5
100.0	6 ± 0.9	6 ± 2.0	8 ± 2.7	6 ± 0.9	8 ± 0.9
333.0	7 ± 2.2	6 ± 2.3	7 ± 0.3	7 ± 0.9	7 ± 2.3
1000.0	6 ± 0.9 <sup>s</sup>	4 ± 0.3 <sup>s</sup>	7 ± 0.6	6 ± 1.3	6 ± 1.2
3000.0				5 ± 1.9 <sup>s</sup>	
3333.0			6 ± 0.6 <sup>s</sup>		2 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					126 ± 5.9
Positive Control <sup>3</sup>			139 ± 8.6	71 ± 0.6	
Positive Control <sup>5</sup>	303 ± 35.2	486 ± 32.2			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 3.5
10.0	
33.0	7 ± 1.2
100.0	6 ± 2.1
333.0	5 ± 1.7
1000.0	5 ± 2.3
3000.0	1 ± 0.3 <sup>s</sup>
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	36 ± 7.9
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>	16 ± 2.7	18 ± 4.2	32 ± 0.9	29 ± 2.0	22 ± 2.9
10.0	19 ± 2.0	21 ± 1.5			
33.0	19 ± 3.2	18 ± 2.3	30 ± 2.0	23 ± 3.6	31 ± 2.2
100.0	23 ± 1.0	18 ± 3.8	29 ± 0.9	27 ± 5.0	31 ± 2.6
333.0	20 ± 3.8	18 ± 2.9	30 ± 2.1	30 ± 0.0	21 ± 2.3
1000.0	25 ± 1.5	22 ± 3.7 <sup>s</sup>	26 ± 1.7	22 ± 2.0	19 ± 1.9
3000.0				9 ± 2.0 <sup>s</sup>	
3333.0			15 ± 0.6 <sup>s</sup>		6 ± 2.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1217 ± 49.9
Positive Control <sup>3</sup>			1096 ± 31.1	791 ± 32.7	
Positive Control <sup>6</sup>	1523 ± 26.1	1475 ± 40.8			



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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>	28 ± 2.2
10.0	
33.0	28 ± 2.6
100.0	27 ± 0.9
333.0	21 ± 1.5
1000.0	18 ± 1.5
3000.0	6 ± 1.8 <sup>s</sup>
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1159 ± 66.2
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 \*\***