

Experiment Number: 931977

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

**G06: Ames Summary Data**

Test Compound: **p-Tolunitrile**

CAS Number: **104-85-8**

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

Time Report Requested: **11:34:08**

**NTP Study Number:**

931977

**Study Result:**

Negative

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	109 ± 10.5	114 ± 5.7	119 ± 5.8	148 ± 8.4	129 ± 5.5
10.0	121 ± 5.4	108 ± 2.2	137 ± 3.8		129 ± 14.2
33.0	122 ± 11.1	121 ± 9.0	134 ± 7.0	149 ± 5.8	110 ± 14.4
100.0	134 ± 5.7	117 ± 2.6	110 ± 3.3	156 ± 4.1	126 ± 10.7
333.0	123 ± 2.0	109 ± 3.2	116 ± 6.1	154 ± 6.4	106 ± 4.1
666.0	107 ± 2.1				
1000.0		11 ± 5.5 <sup>s</sup>	97 ± 7.5	119 ± 7.9	95 ± 2.8
1666.0				130 ± 20.4	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			486 ± 10.2	303 ± 16.6	1344 ± 103.2
Positive Control <sup>3</sup>	455 ± 47.7	549 ± 26.5			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 4.7
10.0	
33.0	138 ± 6.7
100.0	134 ± 6.6
333.0	145 ± 3.5
666.0	
1000.0	119 ± 10.6
1666.0	112 ± 7.2
Trial Summary	Negative
Positive Control <sup>2</sup>	538 ± 42.5
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 2.2	31 ± 3.1	13 ± 0.7	14 ± 2.1	8 ± 2.0
10.0	36 ± 3.8	33 ± 3.2	13 ± 1.5		8 ± 1.2
33.0	30 ± 4.5	33 ± 2.7	14 ± 2.0	13 ± 0.9	9 ± 1.2
100.0	22 ± 1.3	30 ± 3.2	9 ± 1.7	13 ± 1.2	11 ± 2.0
333.0	26 ± 1.2	34 ± 2.4	10 ± 1.0	15 ± 2.9	10 ± 2.8
666.0	22 ± 2.3				
1000.0		1 ± 1.3 <sup>s</sup>	12 ± 2.9	13 ± 2.0	9 ± 0.3
1666.0				12 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	332 ± 18.8	553 ± 19.8			
Positive Control <sup>4</sup>			158 ± 13.1	239 ± 7.2	448 ± 20.8

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 0.9
10.0	
33.0	10 ± 1.8
100.0	13 ± 2.4
333.0	9 ± 2.1
666.0	
1000.0	12 ± 2.3
1666.0	7 ± 1.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	525 ± 8.8

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Test Compound: p-Tolunitrile

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	142 ± 7.0	169 ± 11.1	163 ± 7.8	186 ± 7.3	146 ± 2.0
10.0	144 ± 5.0	172 ± 7.0	166 ± 17.7		138 ± 5.2
33.0	142 ± 2.6	165 ± 7.5	172 ± 9.4	199 ± 4.3	152 ± 4.7
100.0	141 ± 3.8	158 ± 9.8	175 ± 7.7	206 ± 1.2	136 ± 7.8
333.0	141 ± 8.4	160 ± 6.7	174 ± 12.8	184 ± 7.5	144 ± 1.2
666.0	120 ± 5.7				
1000.0		54 ± 36.2 <sup>s</sup>	140 ± 10.4	172 ± 10.8	118 ± 12.8
1666.0				145 ± 2.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			958 ± 38.2	441 ± 11.1	1519 ± 14.7
Positive Control <sup>5</sup>	1229 ± 27.9	998 ± 57.7			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	192 ± 4.4
10.0	
33.0	186 ± 3.4
100.0	177 ± 15.4
333.0	151 ± 20.8
666.0	
1000.0	139 ± 14.2
1666.0	139 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	1099 ± 12.9
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 3.2	22 ± 2.2	30 ± 2.8	32 ± 4.6	33 ± 2.4
10.0	19 ± 1.0	23 ± 2.5	31 ± 3.4		35 ± 8.4
33.0	22 ± 1.3	21 ± 3.2	25 ± 0.3	27 ± 6.6	32 ± 3.2
100.0	25 ± 2.5	28 ± 3.9	38 ± 2.4	35 ± 2.5	29 ± 0.7
333.0	27 ± 3.6	22 ± 3.0	27 ± 1.5	30 ± 2.4	33 ± 3.2
666.0	23 ± 1.8				
1000.0		0 ± 0.0 <sup>s</sup>	22 ± 0.9	23 ± 5.3	29 ± 2.3
1666.0				23 ± 2.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			297 ± 21.7	184 ± 10.2	1367 ± 25.7
Positive Control <sup>6</sup>	1437 ± 25.8	1372 ± 46.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	32 ± 3.8
10.0	
33.0	27 ± 3.0
100.0	24 ± 4.2
333.0	25 ± 3.2
666.0	
1000.0	29 ± 1.2
1666.0	27 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	358 ± 30.7
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 \*\***