

Experiment Number: 539939

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

**G06: Ames Summary Data**

Test Compound: **o-Toluidine hydrochloride**

CAS Number: 636-21-5

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

Time Report Requested: **01:04:12**

**NTP Study Number:**

539939

**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>	105 ± 15.7	114 ± 4.7	158 ± 5.4	152 ± 20.1	144 ± 2.0
33.0		109 ± 4.6		169 ± 6.0	
100.0	99 ± 4.7	100 ± 4.4	151 ± 6.8	169 ± 16.1	140 ± 7.2
333.0	107 ± 0.9	122 ± 3.5	182 ± 3.5	185 ± 12.5	150 ± 12.7
1000.0	106 ± 1.3	118 ± 2.5	170 ± 7.1	168 ± 20.0	172 ± 4.4
3333.0	110 ± 5.5	137 ± 11.4	186 ± 2.1	163 ± 9.0	152 ± 4.9
10000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			567 ± 23.3	1044 ± 14.7	946 ± 147.0
Positive Control <sup>3</sup>	538 ± 8.3	659 ± 23.0			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	143 ± 2.9
33.0	153 ± 4.9
100.0	153 ± 6.4
333.0	161 ± 11.1
1000.0	185 ± 8.5
3333.0	0 ± 0.0
10000.0	
Trial Summary	Equivocal
Positive Control <sup>2</sup>	2281 ± 69.4
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 2.1	7 ± 0.9	8 ± 1.7	7 ± 1.0	9 ± 1.2
33.0		7 ± 1.2		5 ± 1.8	
100.0	5 ± 1.0	7 ± 1.7	6 ± 0.3	5 ± 0.0	9 ± 1.8
333.0	4 ± 0.3	3 ± 1.0	7 ± 0.6	7 ± 0.6	7 ± 0.3
1000.0	6 ± 1.5	5 ± 1.0	6 ± 0.6	7 ± 1.2	6 ± 0.9
3333.0	5 ± 0.6	5 ± 0.0	9 ± 0.6	5 ± 2.0	11 ± 1.0
10000.0	10 ± 0.9		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			71 ± 3.9	28 ± 5.7	137 ± 16.0
Positive Control <sup>3</sup>	1032 ± 84.5	296 ± 6.6			

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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>	5 ± 2.0
33.0	4 ± 1.0
100.0	6 ± 0.7
333.0	6 ± 1.2
1000.0	4 ± 0.6
3333.0	4 ± 1.2
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	79 ± 2.7
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: o-Toluidine hydrochloride

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	3 ± 0.3	8 ± 2.2	11 ± 3.2	12 ± 3.0	5 ± 0.6
33.0		7 ± 2.0		16 ± 3.3	
100.0	5 ± 0.3	9 ± 0.9	9 ± 0.7	14 ± 3.2	
333.0	6 ± 1.5	8 ± 2.7	11 ± 1.5	18 ± 4.3	
667.0					5 ± 0.9
1000.0	6 ± 0.6	9 ± 1.8	11 ± 1.7	22 ± 4.9	6 ± 2.0
1667.0					9 ± 1.9
3333.0	3 ± 0.6	7 ± 1.0	6 ± 1.5	21 ± 7.2	7 ± 2.7
6667.0					Toxic
10000.0	Toxic		Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			74 ± 11.9	121 ± 4.1	50 ± 10.3
Positive Control <sup>4</sup>	975 ± 304.4	788 ± 169.0			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 2.1	10 ± 1.5
33.0		14 ± 2.0
100.0	9 ± 0.3	15 ± 3.2
333.0	11 ± 0.5	11 ± 0.3
667.0		
1000.0	10 ± 2.9	14 ± 2.2
1667.0		
3333.0	10 ± 1.2	13 ± 2.8
6667.0		
10000.0	Toxic	
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	44 ± 2.6	675 ± 15.3
Positive Control <sup>4</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>	21 ± 0.9	20 ± 1.0	30 ± 1.7	22 ± 5.4	33 ± 5.2
33.0		18 ± 6.1		26 ± 2.3	
100.0	22 ± 1.2	21 ± 2.6	36 ± 1.0	33 ± 3.1	34 ± 3.8
333.0	32 ± 1.2	22 ± 4.5	33 ± 1.9	24 ± 1.2	27 ± 1.3
1000.0	28 ± 3.5	25 ± 2.2	33 ± 3.8	25 ± 1.5	40 ± 3.3
3333.0	36 ± 0.3	22 ± 12.0	42 ± 6.4	32 ± 2.4	51 ± 2.9
10000.0	0 ± 0.0		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			499 ± 27.7	848 ± 75.0	2341 ± 115.4
Positive Control <sup>5</sup>	357 ± 25.4	430 ± 13.0			



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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>	30 ± 3.3
33.0	29 ± 2.6
100.0	32 ± 0.7
333.0	39 ± 7.4
1000.0	38 ± 1.0
3333.0	31 ± 7.8
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1725 ± 61.8
Positive Control <sup>5</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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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