

Experiment Number: 251316

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

**G06: Ames Summary Data**

Test Compound: **m-Toluidine hydrochloride**

CAS Number: **638-03-9**

Date Report Requested: **09/11/2018**

Time Report Requested: **01:53:56**

**NTP Study Number:**

251316

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: m-Toluidine hydrochloride

CAS Number: 638-03-9

Date Report Requested: 09/11/2018

Time Report Requested: 01:53:56

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 2.7	95 ± 5.9	103 ± 6.3	99 ± 3.0	103 ± 4.1
33.0	87 ± 1.7	94 ± 6.3	110 ± 4.1	98 ± 5.9	118 ± 0.9
100.0	87 ± 2.3	96 ± 7.9	97 ± 7.9	92 ± 7.1	99 ± 0.3
333.0	89 ± 2.2	91 ± 4.9	103 ± 3.0	99 ± 6.4	106 ± 10.9
1000.0	87 ± 5.3	80 ± 3.4	116 ± 10.7	101 ± 8.0	111 ± 2.8
3333.0	65 ± 2.6 <sup>s</sup>	57 ± 7.6 <sup>s</sup>	87 ± 4.7 <sup>s</sup>	78 ± 6.4 <sup>s</sup>	87 ± 4.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					215 ± 13.3
Positive Control <sup>3</sup>	412 ± 14.4	309 ± 10.3			
Positive Control <sup>4</sup>			326 ± 1.7		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				306 ± 10.5	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	92 ± 5.2
33.0	110 ± 9.0
100.0	106 ± 1.7
333.0	113 ± 5.7
1000.0	114 ± 1.5
3333.0	110 ± 10.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	344 ± 16.3
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: m-Toluidine hydrochloride

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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>	12 ± 0.3	20 ± 3.8	10 ± 1.8	7 ± 3.5	10 ± 1.2
33.0	16 ± 0.3	23 ± 4.5	11 ± 1.8	9 ± 0.3	10 ± 1.5
100.0	15 ± 1.0	23 ± 2.3	7 ± 1.5	8 ± 0.9	5 ± 0.0
333.0	18 ± 2.4	18 ± 0.9	7 ± 0.9	11 ± 1.2	9 ± 1.2
1000.0	23 ± 1.2	23 ± 3.5	7 ± 1.3	8 ± 1.0	5 ± 1.2
3333.0	5 ± 0.9 <sup>s</sup>	7 ± 1.2 <sup>s</sup>	6 ± 0.7 <sup>s</sup>	7 ± 0.6 <sup>s</sup>	4 ± 1.2 <sup>s</sup>
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					31 ± 4.0
Positive Control <sup>3</sup>	148 ± 3.0	171 ± 6.6			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			159 ± 0.9	32 ± 3.9	

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**G06: Ames Summary Data**

Test Compound: **m-Toluidine hydrochloride**

CAS Number: **638-03-9**

Date Report Requested: **09/11/2018**

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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>	10 ± 1.7
33.0	8 ± 1.8
100.0	6 ± 1.5
333.0	7 ± 2.4
1000.0	6 ± 2.0
3333.0	1 ± 1.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	47 ± 5.5
Positive Control <sup>6</sup>	

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Test Compound: m-Toluidine hydrochloride

CAS Number: 638-03-9

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 0.6	6 ± 1.3	6 ± 0.3	9 ± 1.5	7 ± 2.4
33.0	4 ± 0.9	4 ± 0.6	3 ± 0.6	11 ± 0.6	11 ± 3.0
100.0	5 ± 1.3	7 ± 1.9	9 ± 1.5	10 ± 1.5	9 ± 1.5
333.0	6 ± 1.5	4 ± 0.6	7 ± 1.2	7 ± 2.4	8 ± 1.2
1000.0	4 ± 0.9	5 ± 1.2	7 ± 0.0	10 ± 1.9	8 ± 1.5
3333.0	3 ± 0.7 <sup>s</sup>	5 ± 0.9 <sup>s</sup>	6 ± 0.0 <sup>s</sup>	6 ± 1.9 <sup>s</sup>	8 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					160 ± 7.4
Positive Control <sup>6</sup>			137 ± 7.0		
Positive Control <sup>7</sup>				39 ± 4.4	
Positive Control <sup>8</sup>	152 ± 11.0	50 ± 2.5			

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**G06: Ames Summary Data**

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Date Report Requested: **09/11/2018**

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 0.6
33.0	9 ± 1.5
100.0	10 ± 1.5
333.0	9 ± 2.0
1000.0	12 ± 2.5
3333.0	5 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	276 ± 10.1
Positive Control <sup>8</sup>	

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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>	78 ± 2.9	90 ± 9.9	168 ± 4.0	145 ± 7.8	162 ± 3.2
33.0	75 ± 3.5	109 ± 5.5	135 ± 8.4	120 ± 15.9	166 ± 14.2
100.0	85 ± 4.7	101 ± 4.0	131 ± 6.5	99 ± 6.4	154 ± 0.0
333.0	79 ± 0.9	95 ± 7.5	117 ± 6.2	101 ± 2.3	152 ± 17.9
1000.0	75 ± 4.1	110 ± 9.5	159 ± 8.6	115 ± 3.8	143 ± 4.2
3333.0	22 ± 7.1 <sup>s</sup>	80 ± 3.3 <sup>s</sup>	95 ± 1.2 <sup>s</sup>	87 ± 3.9 <sup>s</sup>	112 ± 8.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					713 ± 42.0
Positive Control <sup>6</sup>			770 ± 53.0		
Positive Control <sup>7</sup>				288 ± 20.3	
Positive Control <sup>9</sup>	1330 ± 64.0	393 ± 2.0			



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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	116 ± 9.8
33.0	106 ± 8.7
100.0	99 ± 5.9
333.0	94 ± 2.3
1000.0	110 ± 7.8
3333.0	78 ± 5.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	890 ± 47.6
Positive Control <sup>9</sup>	

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Test Compound: m-Toluidine hydrochloride

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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>	18 ± 0.3	15 ± 0.3	25 ± 2.1	25 ± 1.2	28 ± 2.3
33.0	21 ± 3.5	14 ± 0.9	23 ± 1.5	33 ± 4.5	25 ± 1.2
100.0	16 ± 0.7	16 ± 1.3	31 ± 2.2	35 ± 3.0	32 ± 1.3
333.0	15 ± 1.2	13 ± 1.3	28 ± 2.0	34 ± 3.2	29 ± 3.0
1000.0	15 ± 2.0	12 ± 1.0	34 ± 5.7	34 ± 5.0	28 ± 1.5
3333.0	15 ± 2.0 <sup>s</sup>	10 ± 0.7 <sup>s</sup>	20 ± 2.3 <sup>s</sup>	28 ± 1.0 <sup>s</sup>	25 ± 4.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					226 ± 10.2
Positive Control <sup>2</sup>			73 ± 4.8		
Positive Control <sup>5</sup>				118 ± 6.2	
Positive Control <sup>11</sup>	164 ± 8.5	176 ± 10.0			

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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>	33 ± 1.5
33.0	27 ± 3.2
100.0	35 ± 1.5
333.0	33 ± 2.6
1000.0	44 ± 6.4
3333.0	30 ± 5.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	84 ± 5.8
Positive Control <sup>5</sup>	
Positive Control <sup>11</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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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