

Experiment Number: 175438

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

**G06: Ames Summary Data**

Test Compound: **2,4,5-Trimethylaniline**

CAS Number: 137-17-7

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

Time Report Requested: **14:19:39**

**NTP Study Number:** 175438

**Study Result:** Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	138 ± 11.8	158 ± 6.2	133 ± 4.3	179 ± 9.9	144 ± 4.7
1.0			133 ± 6.4		156 ± 16.3
3.0			148 ± 8.4		238 ± 18.5
10.0	154 ± 8.4	325 ± 9.2	180 ± 8.5	471 ± 45.9	500 ± 38.8
33.0	143 ± 7.7	557 ± 19.7	267 ± 5.3	741 ± 5.0	820 ± 12.9
100.0	163 ± 11.0	678 ± 51.4	347 ± 6.3	906 ± 59.8	1279 ± 29.4
333.0	167 ± 10.0	906 ± 70.0		1245 ± 39.2	
1000.0	39 ± 18.6 <sup>s</sup>	890 ± 101.3		178 ± 63.5 <sup>s</sup>	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1079 ± 36.4	688 ± 12.7	2409 ± 23.4	1121 ± 67.6
Positive Control <sup>3</sup>	352 ± 12.7				

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 4.1	9 ± 2.7	13 ± 0.0
10.0	5 ± 0.9	6 ± 1.5	10 ± 1.2
33.0	7 ± 2.6	8 ± 2.4	11 ± 3.2
100.0	9 ± 2.0	10 ± 2.4	9 ± 1.3
333.0	8 ± 2.0	12 ± 1.5	18 ± 1.2
1000.0	4 ± 1.3	8 ± 2.4	5 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	294 ± 30.5		
Positive Control <sup>4</sup>		225 ± 18.5	514 ± 7.3

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 2.2	6 ± 2.1	6 ± 0.6
10.0	5 ± 0.6	6 ± 1.2	6 ± 0.3
33.0	6 ± 0.9	6 ± 0.6	6 ± 0.9
100.0	5 ± 2.0	8 ± 0.3	8 ± 1.3
333.0	8 ± 2.1	9 ± 1.5	8 ± 0.9
1000.0	1 ± 1.0 <sup>s</sup>	8 ± 1.9	5 ± 2.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		269 ± 5.2	657 ± 18.8
Positive Control <sup>5</sup>	330 ± 31.5		

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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>	19 ± 1.5	46 ± 3.5	26 ± 6.1	43 ± 1.3	26 ± 5.3
10.0	10 ± 0.9	41 ± 0.9	35 ± 7.3	66 ± 7.5	44 ± 1.9
33.0	11 ± 2.4	43 ± 2.0	42 ± 7.1	63 ± 13.6	60 ± 6.8
100.0	11 ± 0.6	44 ± 4.0	55 ± 3.5	80 ± 4.0	89 ± 11.9
333.0	0 ± 0.0 <sup>s</sup>	50 ± 7.9	79 ± 7.6	70 ± 3.1	116 ± 9.9
1000.0	Toxic	5 ± 5.3 <sup>s</sup>	61 ± 9.7 <sup>s</sup>	42 ± 2.7 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Equivocal	Positive
Positive Control <sup>2</sup>			697 ± 40.5	155 ± 9.2	1884 ± 71.5
Positive Control <sup>6</sup>	793 ± 43.1	725 ± 17.4			

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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>	54 ± 2.2
10.0	77 ± 7.9
33.0	88 ± 9.0
100.0	106 ± 7.4
333.0	161 ± 13.0
1000.0	122 ± 9.4 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	395 ± 3.6
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 \*\***