

Experiment Number: 498216

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 3,5-Xylidine

CAS Number: 108-69-0

Date Report Requested: 09/12/2018

Time Report Requested: 04:47:35

**NTP Study Number:**

498216

**Study Result:**

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	115 ± 12.3	119 ± 11.0	107 ± 7.5	157 ± 12.5
33.0	137 ± 8.4	133 ± 10.6	151 ± 2.3	191 ± 20.5
100.0	126 ± 1.0	134 ± 4.7	178 ± 5.2	184 ± 6.4
333.0	136 ± 8.1	139 ± 10.0	200 ± 7.0	224 ± 8.1
1000.0	100 ± 2.3	145 ± 4.4	232 ± 11.0	260 ± 6.4
1666.0	Toxic	86 ± 43.8	240 ± 19.9	142 ± 21.4 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Weakly Positive
Positive Control <sup>2</sup>				1849 ± 56.1
Positive Control <sup>3</sup>		594 ± 23.8	2085 ± 107.9	
Positive Control <sup>4</sup>	410 ± 12.2			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 2.7	7 ± 0.9	6 ± 0.7
33.0	29 ± 3.7	8 ± 2.2	10 ± 0.0
100.0	19 ± 1.2	7 ± 1.2	9 ± 1.0
333.0	26 ± 4.3	7 ± 0.9	7 ± 1.5
1000.0	29 ± 3.8	9 ± 1.5	7 ± 2.3
1666.0	Toxic	4 ± 1.5	7 ± 2.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>	386 ± 12.9		
Positive Control <sup>5</sup>		136 ± 9.9	434 ± 34.9

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.0
33.0	7 ± 0.9
100.0	8 ± 1.2
333.0	5 ± 2.1
1000.0	5 ± 1.0
1666.0	5 ± 1.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>5</sup>	209 ± 13.8

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	125 ± 8.0	120 ± 4.8	128 ± 3.5	174 ± 3.6
33.0	137 ± 18.3	128 ± 6.7	155 ± 10.7	152 ± 12.4
100.0	127 ± 9.3	138 ± 2.0	162 ± 1.0	163 ± 12.5
333.0	123 ± 6.0	132 ± 10.1	172 ± 15.6	191 ± 10.4
1000.0	114 ± 11.2	125 ± 6.2	182 ± 3.2	212 ± 4.4
1666.0	Toxic	122 ± 9.6	182 ± 9.2	94 ± 9.1 <sup>s</sup>
Trial Summary	Negative	Negative	Weakly Positive	Equivocal
Positive Control <sup>2</sup>				1188 ± 41.5
Positive Control <sup>5</sup>		859 ± 42.5	1787 ± 78.0	
Positive Control <sup>6</sup>	882 ± 101.7			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 2.3	29 ± 0.3	37 ± 1.5	35 ± 2.2
33.0	21 ± 1.8	36 ± 2.3	33 ± 5.4	37 ± 4.9
100.0	16 ± 2.0	36 ± 4.1	34 ± 3.2	38 ± 2.0
333.0	27 ± 7.4	31 ± 3.8	49 ± 3.5	49 ± 4.0
1000.0	14 ± 3.3	33 ± 4.0	54 ± 6.3	54 ± 4.5
1666.0	Toxic	31 ± 2.6	62 ± 6.9	15 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>				1189 ± 92.2
Positive Control <sup>3</sup>		317 ± 9.8	1520 ± 30.2	
Positive Control <sup>7</sup>	1449 ± 18.8			

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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