

Experiment Number: 112391

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

**G06: Ames Summary Data**

Test Compound: **2,6-Xylidine**

CAS Number: **87-62-7**

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

Time Report Requested: **19:55:53**

**NTP Study Number:**

112391

**Study Result:**

Weakly Positive

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**Strain: TA100**

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	146 ± 8.8	112 ± 0.9	89 ± 2.1	163 ± 7.1	92 ± 6.4
33.0	149 ± 5.5	122 ± 14.9	101 ± 8.6	169 ± 10.7	94 ± 8.7
100.0	149 ± 7.3	121 ± 13.0	95 ± 8.8	161 ± 13.6	123 ± 8.7
333.0	141 ± 1.5	128 ± 6.8	124 ± 4.1	179 ± 4.0	144 ± 9.0
666.0	164 ± 0.7				
1000.0	150 ± 2.0	123 ± 6.4	116 ± 11.3	236 ± 1.2	130 ± 5.4
3333.0		112 ± 4.2	122 ± 6.5	213 ± 13.3	65 ± 32.7
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		882 ± 57.4	633 ± 18.7		
Positive Control <sup>4</sup>	382 ± 13.3				
Positive Control <sup>5</sup>				619 ± 18.7	527 ± 34.3

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Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 5.2	111 ± 0.9	177 ± 11.0	99 ± 6.2	149 ± 2.2
33.0	126 ± 9.6	121 ± 6.9	175 ± 6.6	135 ± 9.5	179 ± 10.6
100.0	126 ± 6.9	144 ± 14.8	183 ± 4.9	152 ± 3.2	190 ± 7.8
333.0	127 ± 11.7	148 ± 9.3	237 ± 13.6	175 ± 4.4	214 ± 15.4
666.0					
1000.0	133 ± 9.0	161 ± 1.5	267 ± 15.5	201 ± 17.3	223 ± 6.6
3333.0	131 ± 1.8	124 ± 12.5	253 ± 14.8	186 ± 5.6	238 ± 11.4
Trial Summary	Equivocal	Equivocal	Weakly Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>	1094 ± 38.2	856 ± 29.2			
Positive Control <sup>3</sup>			545 ± 37.9	672 ± 24.7	682 ± 22.2
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					

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## G06: Ames Summary Data

Test Compound: 2,6-Xylidine

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## Strain: TA1535

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 1.8	16 ± 1.7	25 ± 3.2	12 ± 3.3	11 ± 2.4
33.0	14 ± 3.4	14 ± 0.9	17 ± 3.0	14 ± 4.4	19 ± 1.7
100.0	16 ± 2.3	17 ± 1.2	18 ± 2.2	13 ± 1.9	16 ± 3.2
333.0	13 ± 2.8	14 ± 3.3	19 ± 0.9	17 ± 1.9	19 ± 1.8
1000.0	17 ± 1.2	17 ± 4.0	17 ± 0.7	21 ± 2.6	21 ± 1.8
3333.0	18 ± 0.6	22 ± 1.9	19 ± 2.6	21 ± 4.4	20 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				245 ± 9.4	270 ± 12.3
Positive Control <sup>6</sup>	206 ± 31.8	157 ± 3.8			
Positive Control <sup>7</sup>			134 ± 10.5		

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.7
33.0	14 ± 1.3
100.0	18 ± 1.0
333.0	16 ± 3.5
1000.0	23 ± 1.5
3333.0	26 ± 3.5
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	569 ± 18.9
Positive Control <sup>7</sup>	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.5	18 ± 1.0	18 ± 1.5
33.0	11 ± 0.9	21 ± 2.7	21 ± 3.1
100.0	15 ± 3.8	21 ± 2.1	25 ± 1.7
333.0	16 ± 1.2	19 ± 3.0	22 ± 1.5
666.0	13 ± 3.9		
1000.0	13 ± 3.2	21 ± 2.3	26 ± 1.2
3333.0		21 ± 1.8	22 ± 2.4
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		107 ± 8.5	201 ± 18.9
Positive Control <sup>8</sup>	490 ± 22.0		

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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: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

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