

Experiment Number: 181962  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**  
Test Compound: 3,4-Xylidine  
CAS Number: 95-64-7

Date Report Requested: 09/13/2018  
Time Report Requested: 18:55:04

**NTP Study Number:** 181962  
**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>	133 ± 14.0	138 ± 16.2	175 ± 0.6	155 ± 3.4	177 ± 2.1
3.0		170 ± 13.5	179 ± 6.0	182 ± 8.0	209 ± 18.0
10.0		198 ± 0.3	205 ± 9.4	190 ± 6.7	216 ± 18.6
33.0	145 ± 5.2	175 ± 15.9	224 ± 3.2	270 ± 16.5	307 ± 18.3
100.0	143 ± 8.3	246 ± 18.2	259 ± 5.5	353 ± 11.5	397 ± 24.0
333.0	138 ± 8.1	224 ± 19.3	284 ± 14.0	405 ± 0.3	427 ± 13.4
1000.0	146 ± 4.7				
1666.0	Toxic				
Trial Summary	Negative	Positive	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>				1353 ± 27.5	1865 ± 39.6
Positive Control <sup>3</sup>		1166 ± 31.3	1258 ± 126.3		
Positive Control <sup>4</sup>	413 ± 7.5				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.2	7 ± 0.6	9 ± 0.7
3.0		10 ± 1.7	11 ± 1.2
10.0		7 ± 2.2	12 ± 2.0
33.0	23 ± 3.1	7 ± 2.2	11 ± 2.5
100.0	23 ± 1.7	11 ± 2.7	14 ± 2.5
333.0	23 ± 1.2	13 ± 1.8	11 ± 1.9
1000.0	23 ± 1.5		
1666.0	1 ± 1.0 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			234 ± 2.6
Positive Control <sup>4</sup>	477 ± 25.0		
Positive Control <sup>5</sup>		308 ± 13.1	

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 2.6
10.0	9 ± 2.1
33.0	8 ± 1.5
100.0	10 ± 0.9
333.0	7 ± 1.3
666.0	9 ± 1.5
Trial Summary	Negative
Positive Control <sup>5</sup>	151 ± 9.2

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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>	175 ± 2.1	176 ± 10.6	173 ± 8.2	193 ± 4.0
3.0		178 ± 9.0	179 ± 10.7	
10.0		170 ± 8.5	197 ± 1.9	196 ± 7.0
33.0	175 ± 6.7	153 ± 23.8	185 ± 9.9	243 ± 7.2
100.0	180 ± 9.1	149 ± 8.2	208 ± 13.3	280 ± 33.8
333.0	171 ± 8.6	179 ± 18.0	265 ± 3.5	337 ± 8.8
666.0				326 ± 9.7
1000.0	168 ± 10.1			
1666.0	Toxic			
Trial Summary	Negative	Negative	Weakly Positive	Positive
Positive Control <sup>2</sup>			672 ± 27.1	1370 ± 27.2
Positive Control <sup>3</sup>		759 ± 52.6		
Positive Control <sup>6</sup>	373 ± 16.0			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 3.5	41 ± 1.5	37 ± 0.7
3.0		34 ± 2.1	46 ± 4.0
10.0		40 ± 2.3	49 ± 4.4
33.0	29 ± 1.7	38 ± 2.1	46 ± 4.9
100.0	29 ± 1.5	44 ± 3.2	46 ± 4.7
333.0	30 ± 4.9	40 ± 5.2	50 ± 0.3
1000.0	21 ± 1.7		
1666.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			956 ± 35.8
Positive Control <sup>3</sup>		757 ± 26.2	
Positive Control <sup>7</sup>	655 ± 9.2		

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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: 25.0 ug/Plate 9-Aminoacridine
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

\*\* END OF REPORT \*\*