

Experiment Number: A59699

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Xylenol blue

CAS Number: 125-31-5

Date Report Requested: 09/17/2018

Time Report Requested: 08:48:24

**NTP Study Number:**

A59699

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: p-Xylenol blue

CAS Number: 125-31-5

Date Report Requested: 09/17/2018

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## 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>	113 ± 1.3	101 ± 8.1	121 ± 7.9	151 ± 5.2	111 ± 4.1
33.0	128 ± 1.8	102 ± 4.7	113 ± 5.5	165 ± 9.5	
100.0	140 ± 11.3	107 ± 1.5	111 ± 5.4	156 ± 7.0	124 ± 10.9
333.0	152 ± 5.8	82 ± 4.5	129 ± 3.1	168 ± 1.0	136 ± 5.8
1000.0	143 ± 4.9	84 ± 4.3	126 ± 3.2	161 ± 3.3	110 ± 9.6
3333.0	98 ± 2.0	68 ± 8.1 <sup>P</sup>	123 ± 6.0 <sup>P</sup>	144 ± 10.7	120 ± 4.0
10000.0					92 ± 7.7 <sup>P</sup>
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			531 ± 33.0		1824 ± 97.3
Positive Control <sup>3</sup>	533 ± 15.6	397 ± 23.0			
Positive Control <sup>4</sup>				553 ± 38.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 8.1
33.0	
100.0	157 ± 2.7
333.0	162 ± 4.3
1000.0	148 ± 6.1
3333.0	144 ± 9.5
10000.0	131 ± 10.0
Trial Summary	Negative
Positive Control <sup>2</sup>	797 ± 8.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 ± 2.6	7 ± 0.6	8 ± 0.6	10 ± 2.4	10 ± 2.7
33.0	11 ± 1.0	7 ± 2.5	9 ± 3.8	14 ± 1.0	
100.0	10 ± 2.0	8 ± 0.9	9 ± 2.4	12 ± 2.3	13 ± 3.0
333.0	14 ± 2.4	7 ± 1.3	11 ± 2.4	10 ± 1.5	11 ± 1.0
1000.0	14 ± 3.2	11 ± 2.2	8 ± 2.0	17 ± 0.9	6 ± 1.5
3333.0	9 ± 0.7	9 ± 1.0	8 ± 0.9	10 ± 1.2	6 ± 3.1
10000.0					6 ± 0.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			74 ± 6.4	57 ± 2.3	182 ± 3.2
Positive Control <sup>3</sup>	464 ± 7.1	379 ± 23.9			

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 3.0
33.0	
100.0	12 ± 0.9
333.0	7 ± 0.3
1000.0	13 ± 1.3
3333.0	8 ± 2.5
10000.0	11 ± 1.0
Trial Summary	Negative
Positive Control <sup>2</sup>	139 ± 5.3
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: p-Xylenol blue

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	86 ± 3.5	89 ± 4.7	134 ± 1.0	188 ± 7.5	240 ± 9.1
3.0		94 ± 10.4			
10.0		101 ± 7.4			
33.0	105 ± 15.0	69 ± 2.4	158 ± 1.2	156 ± 5.9	225 ± 26.0
100.0	120 ± 6.3	66 ± 5.8	168 ± 7.9	158 ± 12.2	276 ± 26.9
333.0	110 ± 18.0	Toxic	155 ± 7.8	169 ± 4.7	294 ± 15.6
1000.0	124 ± 13.2		148 ± 6.4	124 ± 19.4	328 ± 44.9
3333.0	Toxic		147 ± 4.7 <sup>p</sup>	127 ± 4.7	365 ± 34.6
10000.0					
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			547 ± 11.9	528 ± 31.7	374 ± 17.6
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	358 ± 20.6	253 ± 11.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	223 ± 2.4	126 ± 6.6	171 ± 10.9	209 ± 12.6	222 ± 6.8
3.0					
10.0					
33.0	203 ± 3.2				
100.0	221 ± 5.8	144 ± 3.5	152 ± 10.1	347 ± 48.5	166 ± 7.8
333.0	217 ± 2.9	116 ± 8.3	163 ± 8.1	454 ± 26.4	171 ± 3.6
1000.0	149 ± 5.4	137 ± 2.1	158 ± 13.0	276 ± 42.9	157 ± 2.3
3333.0	130 ± 3.8 <sup>s</sup>	130 ± 8.4	146 ± 8.4	305 ± 7.3	155 ± 7.9
10000.0		90 ± 3.3 <sup>p</sup>	109 ± 9.2	191 ± 16.7	163 ± 24.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>		1413 ± 70.2	1371 ± 27.1	941 ± 15.0	596 ± 27.8
Positive Control <sup>4</sup>	485 ± 12.1				
Positive Control <sup>5</sup>					

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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>	20 ± 1.0	19 ± 4.2	24 ± 3.2	37 ± 3.8	26 ± 3.8
33.0	23 ± 2.0	17 ± 2.0	24 ± 2.7	31 ± 7.3	
100.0	23 ± 2.3	21 ± 3.9	31 ± 3.7	31 ± 5.0	23 ± 2.5
333.0	23 ± 1.5	17 ± 0.3	26 ± 3.2	27 ± 0.6	24 ± 2.4
1000.0	16 ± 0.9	20 ± 3.3	31 ± 4.6	31 ± 3.8	29 ± 0.6
3333.0	14 ± 3.2	21 ± 1.2	29 ± 5.8 <sup>p</sup>	Toxic	33 ± 4.1
10000.0					16 ± 0.3 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			905 ± 25.2	216 ± 17.4	2535 ± 42.8
Positive Control <sup>6</sup>	101 ± 8.4	236 ± 8.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 3.5
33.0	
100.0	33 ± 4.2
333.0	29 ± 2.0
1000.0	28 ± 0.7
3333.0	34 ± 1.2 <sup>P</sup>
10000.0	20 ± 3.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	995 ± 22.8
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: 2.0 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

\*\* END OF REPORT \*\*