

Experiment Number: A73702

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 09/17/2018

Time Report Requested: 19:03:02

**NTP Study Number:**

A73702

**Study Result:**

Negative

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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>	127 ± 6.4	101 ± 9.1	155 ± 8.7	140 ± 18.3	187 ± 15.6
100.0	134 ± 12.0	119 ± 7.9	167 ± 17.1	137 ± 4.8	156 ± 11.1
333.0	131 ± 11.7	91 ± 3.3	159 ± 6.0	132 ± 26.6	149 ± 6.7
1000.0	125 ± 3.7	120 ± 7.2	141 ± 6.0	129 ± 5.8	160 ± 15.0
3333.0	123 ± 4.7	10 ± 4.5 <sup>s</sup>	149 ± 9.3	133 ± 5.2	145 ± 6.2
10000.0	107 ± 11.8	8 ± 4.3 <sup>s</sup>	Toxic	4 ± 4.3 <sup>s</sup>	133 ± 2.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					432 ± 10.9
Positive Control <sup>3</sup>	361 ± 14.3	338 ± 21.2			
Positive Control <sup>4</sup>			532 ± 71.6		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				332 ± 25.4	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 6.0
100.0	128 ± 9.4
333.0	110 ± 15.7
1000.0	115 ± 8.7
3333.0	98 ± 3.9
10000.0	93 ± 4.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	664 ± 117.2
Positive Control <sup>6</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>	14 ± 0.3	18 ± 1.5	10 ± 2.0	12 ± 1.0	13 ± 1.9
100.0	12 ± 2.7	18 ± 0.9	14 ± 1.9	13 ± 2.9	13 ± 2.0
333.0	15 ± 2.6	18 ± 3.8	16 ± 2.9	11 ± 0.9	15 ± 1.5
1000.0	12 ± 1.0	18 ± 1.5	17 ± 3.0	12 ± 4.1	13 ± 3.7
3333.0	11 ± 2.3	14 ± 2.0	12 ± 2.8	14 ± 0.6	11 ± 0.7
10000.0	10 ± 2.0 <sup>s</sup>	17 ± 2.6 <sup>s</sup>	9 ± 2.4 <sup>s</sup>	5 ± 2.6 <sup>s</sup>	11 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					53 ± 4.8
Positive Control <sup>3</sup>	134 ± 29.9	401 ± 54.7			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			125 ± 14.5	34 ± 5.4	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 0.3
100.0	10 ± 0.6
333.0	9 ± 2.4
1000.0	10 ± 1.7
3333.0	10 ± 0.6
10000.0	5 ± 4.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	109 ± 8.4
Positive Control <sup>6</sup>	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	81 ± 0.9	212 ± 4.0	232 ± 6.0	128 ± 13.2	228 ± 5.5
100.0	94 ± 5.9	175 ± 11.0	188 ± 12.4	150 ± 13.8	248 ± 6.7
333.0	92 ± 6.2	224 ± 21.6	216 ± 9.4	133 ± 11.7	206 ± 26.6
1000.0	91 ± 13.7	197 ± 3.7	203 ± 13.7	123 ± 8.4	234 ± 2.1
3333.0	85 ± 13.3	160 ± 4.2	186 ± 18.3	122 ± 6.8	140 ± 10.4
10000.0	25 ± 15.1 <sup>s</sup>	148 ± 5.0 <sup>s</sup>	114 ± 7.3 <sup>s</sup>	79 ± 9.7 <sup>s</sup>	89 ± 43.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1381 ± 74.4
Positive Control <sup>6</sup>			806 ± 88.2	314 ± 5.3	
Positive Control <sup>7</sup>	329 ± 6.5	665 ± 22.8			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	99 ± 9.0
100.0	139 ± 14.2
333.0	112 ± 8.3
1000.0	116 ± 5.6
3333.0	100 ± 9.2
10000.0	74 ± 12.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	415 ± 53.7
Positive Control <sup>7</sup>	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	12 ± 3.5	18 ± 2.0	11 ± 2.3	25 ± 2.8	23 ± 3.5
100.0	11 ± 2.0	23 ± 0.9		21 ± 3.2	24 ± 3.0
333.0	13 ± 1.5	16 ± 1.5	14 ± 3.1	20 ± 2.2	25 ± 5.2
1000.0	10 ± 0.3	19 ± 3.1	11 ± 1.5	17 ± 1.7	20 ± 0.3
3333.0	10 ± 0.9	18 ± 2.0	10 ± 2.5	24 ± 0.3	18 ± 3.2
6667.0			12 ± 0.7		
10000.0	4 ± 4.0 <sup>s</sup>	Toxic	11 ± 2.5	Toxic	0 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				253 ± 70.1	
Positive Control <sup>8</sup>	162 ± 16.3	200 ± 7.1	195 ± 16.4		
Positive Control <sup>5</sup>					243 ± 32.3

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 2.1	26 ± 5.2
100.0	22 ± 2.8	27 ± 4.6
333.0	27 ± 4.4	28 ± 2.0
1000.0	27 ± 1.2	28 ± 4.4
3333.0	27 ± 8.1	33 ± 3.7
6667.0		
10000.0	19 ± 8.0 <sup>s</sup>	19 ± 1.9
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	325 ± 31.5	
Positive Control <sup>8</sup>		
Positive Control <sup>5</sup>		300 ± 71.2

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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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*