

Experiment Number: A93914

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

**G06: Ames Summary Data**

Test Compound: **Usnic acid [(+)-Uanic Acid]**

CAS Number: **125-46-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **12:52:16**

**NTP Study Number:**

A93914

**Study Result:**

Negative

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	65 ± 2.3	79 ± 8.7
5.0	50 ± 1.3	68 ± 1.9
10.0	48 ± 3.6	64 ± 3.0
25.0	37 ± 4.7	64 ± 5.5
50.0	31 ± 5.2 <sup>s</sup>	49 ± 2.5
100.0	22 ± 1.8 <sup>s</sup>	37 ± 1.5 <sup>s</sup>
250.0	18 ± 1.5 <sup>s</sup>	27 ± 0.7 <sup>s</sup>
1000.0		
2500.0		
5000.0		
7500.0		
10000.0		
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	837 ± 17.2	
Positive Control <sup>3</sup>		1094 ± 55.0

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CAS Number: 125-46-2

**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	15 ± 1.8	22 ± 2.3	24 ± 1.2
5.0	14 ± 0.7		22 ± 1.3
10.0	12 ± 1.2		16 ± 3.7
25.0	11 ± 1.2		16 ± 0.9
50.0	10 ± 0.9		16 ± 2.9
100.0	9 ± 0.3		14 ± 0.7
250.0	7 ± 0.6 <sup>s</sup>		12 ± 0.3 <sup>s</sup>
1000.0		13 ± 1.5	
2500.0		17 ± 2.6	
5000.0		18 ± 3.2	
7500.0		16 ± 1.9	
10000.0		19 ± 1.2	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		1048 ± 24.4	1255 ± 24.7
Positive Control <sup>4</sup>	588 ± 18.5		

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## Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	107 ± 5.5	143 ± 5.0	191 ± 4.9	237 ± 1.9
1000.0	112 ± 4.7	153 ± 2.8	144 ± 7.9	236 ± 6.0
2500.0	133 ± 10.6	150 ± 7.2	155 ± 2.3	231 ± 7.5
5000.0	118 ± 5.5	155 ± 6.6	145 ± 5.3	222 ± 3.0
7500.0	115 ± 3.1 <sup>P</sup>	120 ± 4.8 <sup>P</sup>	146 ± 11.1 <sup>P</sup>	230 ± 6.4 <sup>P</sup>
10000.0	128 ± 11.2 <sup>P</sup>	118 ± 3.5 <sup>P</sup>	141 ± 9.0 <sup>P</sup>	236 ± 4.4 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>			1158 ± 29.8	1090 ± 73.0
Positive Control <sup>6</sup>	1897 ± 17.0	1778 ± 20.3		

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

s: Slight Toxicity

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