

Experiment Number: **G10345G**

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

**G06: Ames Summary Data**

Test Compound: **Valerian (various)**

CAS Number: **8008-88-6**

Date Report Requested: **09/18/2018**

Time Report Requested: **11:21:18**

**NTP Study Number:**

G10345G

**Study Result:**

Negative

Experiment Number: G10345G

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Valerian (various)

CAS Number: 8008-88-6

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	96 ± 6.2	113 ± 2.1	98 ± 1.2	118 ± 8.7
12.5	98 ± 7.5	115 ± 8.4		
25.0	97 ± 3.3	89 ± 4.9	89 ± 10.1	123 ± 9.1
50.0	95 ± 3.8	94 ± 9.2	90 ± 3.7	123 ± 8.7
100.0	74 ± 9.4	71 ± 2.6	99 ± 7.3	122 ± 10.5
300.0	13 ± 10.4 <sup>s</sup>	64 ± 31.6 <sup>s</sup>	71 ± 2.9	107 ± 3.5
1000.0	Toxic	21 ± 14.7 <sup>s</sup>	37 ± 4.9 <sup>s</sup>	43 ± 11.2 <sup>s</sup>
3000.0			19 ± 4.7 <sup>s</sup>	55 ± 9.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	660 ± 19.1	672 ± 11.8		
Positive Control <sup>3</sup>			730 ± 14.4	1025 ± 11.4

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## G06: Ames Summary Data

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	25 ± 3.2	17 ± 3.7	42 ± 3.2	30 ± 4.5
25.0	25 ± 1.0	17 ± 1.2	37 ± 3.2	29 ± 1.0
50.0	19 ± 1.5	14 ± 3.2	32 ± 3.5	28 ± 1.9
100.0	22 ± 4.7	9 ± 0.9	38 ± 3.9	26 ± 2.4
300.0	17 ± 1.2	12 ± 3.1	33 ± 4.0	26 ± 0.3
1000.0	13 ± 2.7	5 ± 1.0 <sup>s</sup>	19 ± 2.2	8 ± 2.9 <sup>s</sup>
3000.0	24 ± 3.3	Toxic	2 ± 0.5 <sup>s</sup>	2 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			2575 ± 73.3	2252 ± 197.8
Positive Control <sup>5</sup>	660 ± 6.1	893 ± 6.2		

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**Strain: E. coli WP2 uvrA pKM101**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	221 ± 3.9	170 ± 5.5	287 ± 9.4	236 ± 2.5
50.0	183 ± 7.5	162 ± 8.3	304 ± 27.8	190 ± 5.5
100.0	168 ± 5.4	135 ± 17.3	285 ± 9.2	211 ± 9.7
300.0	167 ± 2.0	158 ± 14.2	290 ± 7.2	197 ± 9.7
1000.0	201 ± 22.2	149 ± 9.7	254 ± 19.1	179 ± 3.1
3000.0	202 ± 13.8	146 ± 6.2	250 ± 12.8	157 ± 7.6
6000.0	216 ± 5.2	126 ± 9.0	253 ± 10.9	143 ± 17.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>	2093 ± 6.5	1556 ± 168.8		
Positive Control <sup>7</sup>			2255 ± 185.1	
Positive Control <sup>8</sup>				2209 ± 10.0

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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: 1.0 ug/Plate Sodium Azide

3: 2.0 ug/Plate Other Positive Control

4: 2.0 ug/Plate 2-Aminoanthracene

5: 3.0 ug/Plate 2-Nitrofluorene

6: 0.25 ug/Plate Other Positive Control

7: 20.0 ug/Plate 2-Aminoanthracene

8: 20.0 mL/Chamber 2-Aminoanthracene

s: Slight Toxicity

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