

Experiment Number: **G10345E**

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

**G06: Ames Summary Data**

Test Compound: **Valerian (various)**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **02:43:38**

**NTP Study Number:**

G10345E

**Study Result:**

Negative

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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>	135 ± 9.9	91 ± 6.3	78 ± 6.1	96 ± 5.8
100.0	82 ± 5.9	74 ± 7.8	135 ± 6.2	105 ± 4.7
250.0	79 ± 3.9	67 ± 4.6	105 ± 19.9	101 ± 4.3
500.0	80 ± 6.9 <sup>P</sup>	73 ± 3.8 <sup>P</sup>	79 ± 9.4 <sup>P</sup>	112 ± 5.9 <sup>P</sup>
1500.0	95 ± 10.3 <sup>P</sup>	71 ± 9.5 <sup>P</sup>	96 ± 2.5 <sup>P</sup>	108 ± 7.5 <sup>P</sup>
3000.0	94 ± 5.4 <sup>P</sup>	86 ± 2.6 <sup>P</sup>	89 ± 9.2 <sup>P</sup>	104 ± 9.7 <sup>P</sup>
6000.0	95 ± 3.2 <sup>P</sup>	97 ± 0.9 <sup>P</sup>	87 ± 8.8 <sup>P</sup>	102 ± 2.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	522 ± 32.6	613 ± 13.0		
Positive Control <sup>3</sup>			437 ± 33.2	523 ± 36.5

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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>	16 ± 3.3	21 ± 4.7	22 ± 1.9	27 ± 2.3
100.0	18 ± 2.3	21 ± 1.2	29 ± 3.3	32 ± 3.0
250.0	23 ± 0.9	26 ± 1.5	20 ± 3.7	31 ± 2.0
500.0	17 ± 1.9 <sup>P</sup>	28 ± 3.2 <sup>P</sup>	20 ± 4.4 <sup>P</sup>	29 ± 3.1 <sup>P</sup>
1500.0	15 ± 1.9 <sup>P</sup>	34 ± 1.8 <sup>P</sup>	13 ± 2.9 <sup>P</sup>	28 ± 2.9 <sup>P</sup>
3000.0	14 ± 0.7 <sup>P</sup>	29 ± 2.1 <sup>P</sup>	16 ± 3.2 <sup>P</sup>	26 ± 0.9 <sup>P</sup>
6000.0	17 ± 2.1 <sup>P</sup>	24 ± 2.3 <sup>P</sup>	16 ± 2.2 <sup>P</sup>	52 ± 20.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1862 ± 149.6	1252 ± 51.1
Positive Control <sup>5</sup>	541 ± 33.8	685 ± 54.0		

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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>	130 ± 7.2	149 ± 5.8	147 ± 8.2	227 ± 4.1
100.0	134 ± 8.1	182 ± 2.8	144 ± 13.1	159 ± 11.5
250.0	145 ± 12.1	180 ± 12.6	151 ± 0.9	177 ± 6.0
500.0	139 ± 4.9 <sup>P</sup>	179 ± 28.3 <sup>P</sup>	162 ± 8.8 <sup>P</sup>	156 ± 6.6 <sup>P</sup>
1500.0	147 ± 18.0 <sup>P</sup>	190 ± 3.0 <sup>P</sup>	160 ± 0.9 <sup>P</sup>	139 ± 5.7 <sup>P</sup>
3000.0	157 ± 3.2 <sup>P</sup>	176 ± 4.9 <sup>P</sup>	167 ± 5.9 <sup>P</sup>	174 ± 18.2 <sup>P</sup>
6000.0	121 ± 15.4 <sup>P</sup>	209 ± 10.0 <sup>P</sup>	169 ± 3.5 <sup>P</sup>	209 ± 3.5 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>	1251 ± 94.5	1613 ± 73.1		
Positive Control <sup>7</sup>			1070 ± 29.2	1127 ± 30.3

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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: 2.0 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

p: Precipitate

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