

Experiment Number: **G10345L**

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: **11:28:35**

NTP Study Number:

G10345L

Study Result:

Negative

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	88 ± 2.9	103 ± 6.4	111 ± 1.7	128 ± 8.7
12.5	103 ± 2.4	115 ± 7.4	119 ± 1.5	119 ± 10.7
50.0	107 ± 5.4	123 ± 3.3	99 ± 0.9	117 ± 6.7
125.0	103 ± 4.3	96 ± 8.0	100 ± 12.3	126 ± 3.9
500.0	99 ± 2.9	93 ± 5.5	103 ± 5.5	128 ± 1.8
1500.0	99 ± 10.2	116 ± 3.6	120 ± 2.0	124 ± 6.1
6000.0	108 ± 8.4	119 ± 14.8	120 ± 5.5	127 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	555 ± 9.8	580 ± 33.3		
Positive Control ³			1091 ± 4.0	980 ± 46.6

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Strain: TA98				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 0.9	22 ± 5.0	25 ± 2.4	24 ± 3.1
12.5	19 ± 3.1	21 ± 1.5	28 ± 0.9	29 ± 3.2
50.0	15 ± 2.7	16 ± 3.5	26 ± 4.5	25 ± 6.7
125.0	19 ± 5.3	13 ± 4.6	28 ± 2.5	26 ± 1.5
500.0	20 ± 2.9	18 ± 1.9	24 ± 0.9	21 ± 2.4
1500.0	21 ± 5.2	16 ± 1.7	22 ± 1.0	24 ± 5.8
6000.0	23 ± 2.0	14 ± 4.4	26 ± 1.2	25 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			2397 ± 192.0	
Positive Control ⁵				2107 ± 59.8
Positive Control ⁶	528 ± 8.2	562 ± 5.9		

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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 ¹	127 ± 15.0	159 ± 3.9	148 ± 10.7	185 ± 7.8
12.5	129 ± 14.8	171 ± 7.5	141 ± 12.2	208 ± 9.3
50.0	156 ± 12.3	160 ± 7.8	142 ± 5.2	197 ± 10.4
125.0	132 ± 5.2	166 ± 4.9	159 ± 7.0	183 ± 8.1
500.0	132 ± 4.1	164 ± 7.9	171 ± 17.0	191 ± 11.8
1500.0	146 ± 12.5	151 ± 5.3	169 ± 16.4	175 ± 9.2
6000.0	151 ± 10.8	168 ± 8.9	156 ± 13.9	190 ± 16.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁷	1556 ± 102.6	1336 ± 90.3		
Positive Control ⁸			1456 ± 40.9	1554 ± 64.6

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LEGEND

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: Distilled Water
- 2: 1.0 ug/Plate Sodium Azide
- 3: 2.0 ug/Plate Other Positive Control
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 2.0 mL/Chamber 2-Aminoanthracene
- 6: 3.0 ug/Plate 2-Nitrofluorene
- 7: 0.25 ug/Plate Other Positive Control
- 8: 20.0 ug/Plate 2-Aminoanthracene

**** END OF REPORT ****