

Experiment Number: **G10345**

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

G06: Ames Summary Data

Test Compound: **Valerian (various)**

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

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

Time Report Requested: **23:06:15**

NTP Study Number:

G10345

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 ± 2.2	105 ± 6.1	86 ± 5.6	89 ± 2.6
12.5	88 ± 4.3	105 ± 7.8	75 ± 4.4	108 ± 3.8
50.0	72 ± 6.6	117 ± 11.9	81 ± 6.8	115 ± 8.1
125.0	94 ± 10.3	103 ± 2.3	70 ± 11.1	108 ± 3.8
500.0	76 ± 3.4	104 ± 2.3	72 ± 10.5	102 ± 5.0
1500.0	76 ± 2.5	115 ± 5.4	76 ± 3.3	108 ± 4.3
6000.0	83 ± 3.3	109 ± 7.4	87 ± 4.1	107 ± 6.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	324 ± 13.9	706 ± 20.7		
Positive Control ³			940 ± 22.7	877 ± 32.6

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	9 ± 2.1	18 ± 1.9	24 ± 2.6	29 ± 3.0
12.5	15 ± 0.3	20 ± 5.0	28 ± 1.9	32 ± 6.7
50.0	14 ± 2.6	19 ± 3.0	21 ± 0.9	26 ± 3.6
125.0	15 ± 0.9	18 ± 3.5	28 ± 3.8	26 ± 2.1
500.0	20 ± 4.7	24 ± 3.2	26 ± 3.7	33 ± 0.9
1500.0	20 ± 3.3	27 ± 4.2	24 ± 2.9	29 ± 0.3
6000.0	19 ± 1.5	19 ± 6.4	26 ± 6.5	28 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			2993 ± 102.1	3004 ± 173.5
Positive Control ⁵	270 ± 24.6	353 ± 31.9		

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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	130 ± 5.2	157 ± 10.1	173 ± 2.9	172 ± 2.8
12.5	103 ± 11.2	150 ± 9.7	140 ± 8.0	210 ± 9.5
50.0	118 ± 14.0	149 ± 3.3	150 ± 6.1	183 ± 2.5
125.0	121 ± 8.2	157 ± 17.5	143 ± 3.3	180 ± 5.0
500.0	106 ± 7.5	141 ± 1.3	155 ± 21.4	192 ± 14.2
1500.0	125 ± 1.9	166 ± 4.1	159 ± 2.3	194 ± 8.0
6000.0	139 ± 8.4	182 ± 4.8	149 ± 4.4	215 ± 15.7
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶	1252 ± 70.4	1669 ± 22.6		
Positive Control ⁷			1829 ± 73.5	1660 ± 20.5

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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: 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

**** END OF REPORT ****