

Experiment Number: **G10345C**

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: **23:13:54**

NTP Study Number:

G10345C

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	79 ± 5.8	120 ± 4.8	99 ± 4.6	89 ± 4.8
25.0	89 ± 6.9	83 ± 1.9	96 ± 8.5	143 ± 7.3
80.0	83 ± 9.3	77 ± 7.0	102 ± 1.7	139 ± 4.2
250.0	79 ± 6.1	69 ± 7.1	108 ± 12.4	123 ± 4.2
625.0	110 ± 3.5	82 ± 6.8	110 ± 9.0	120 ± 14.0
2000.0	83 ± 6.3 ^p	104 ± 1.7 ^p	101 ± 4.4 ^p	128 ± 3.1 ^p
6000.0	86 ± 5.9 ^p	102 ± 7.4 ^p	113 ± 8.0 ^p	111 ± 16.8 ^p
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	650 ± 9.8	659 ± 75.2		
Positive Control ³			715 ± 39.7	406 ± 12.7

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Strain: TA98				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	14 ± 3.5	30 ± 5.0	26 ± 3.8	43 ± 2.1
25.0	18 ± 4.8	32 ± 4.8	23 ± 3.6	40 ± 3.0
80.0	16 ± 2.4	24 ± 3.8	27 ± 5.9	40 ± 8.5
250.0	17 ± 1.2 ^p	24 ± 3.8 ^p	18 ± 2.3 ^p	41 ± 4.9
625.0	18 ± 1.3 ^p	26 ± 5.0 ^p	18 ± 1.2 ^p	39 ± 2.1
2000.0	13 ± 1.8 ^p	33 ± 5.5 ^p	14 ± 2.3 ^p	51 ± 0.6 ^p
6000.0	13 ± 1.5 ^p	21 ± 2.9 ^p	20 ± 3.3 ^p	34 ± 2.2 ^p
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			1470 ± 62.4	1646 ± 8.7
Positive Control ⁵	887 ± 25.7	846 ± 9.5		

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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 ¹	187 ± 8.8	227 ± 13.2	264 ± 3.0	296 ± 8.2
25.0	163 ± 11.9	248 ± 7.5	208 ± 1.5	301 ± 11.3
80.0	170 ± 10.6	240 ± 5.8	214 ± 6.1	321 ± 12.3
250.0	173 ± 7.2	237 ± 4.0	205 ± 8.4	314 ± 21.2
625.0	171 ± 7.4	272 ± 11.3	230 ± 27.9	300 ± 0.7
2000.0	159 ± 2.9 ^p	209 ± 3.2 ^p	155 ± 13.3 ^p	183 ± 15.8 ^p
6000.0	182 ± 6.6 ^p	182 ± 9.7 ^p	168 ± 13.3 ^p	246 ± 3.5 ^p
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶	1408 ± 44.9	1368 ± 90.0		
Positive Control ⁷			1393 ± 37.4	1568 ± 44.5

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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: 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 ****