

Experiment Number: **G10345J**

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: **02:55:03**

NTP Study Number:

G10345J

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	76 ± 6.1	118 ± 6.1	108 ± 13.0	89 ± 7.8
12.5	91 ± 4.3	105 ± 2.4	84 ± 4.3	126 ± 8.5
50.0	92 ± 6.9	101 ± 8.5	89 ± 8.1	107 ± 5.4
125.0	96 ± 4.2	98 ± 4.9	95 ± 7.1	132 ± 12.7
500.0	106 ± 3.7	109 ± 11.0	85 ± 6.4	125 ± 2.1
1500.0	95 ± 2.6	103 ± 7.6	94 ± 1.0	125 ± 6.0
6000.0	108 ± 9.9	121 ± 3.8	94 ± 7.3	134 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	529 ± 27.8	661 ± 22.1		
Positive Control ³			935 ± 16.4	905 ± 7.2

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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 ± 1.5	18 ± 3.8	20 ± 2.3	23 ± 3.7
12.5	16 ± 1.8	18 ± 1.8	31 ± 1.2	29 ± 3.5
50.0	19 ± 1.9	15 ± 1.5	24 ± 3.0	28 ± 2.0
125.0	14 ± 2.6	17 ± 1.8	30 ± 4.4	24 ± 4.7
500.0	16 ± 2.4	18 ± 2.4	25 ± 3.9	35 ± 0.9
1500.0	18 ± 3.0	21 ± 2.5	28 ± 4.1	29 ± 3.2
6000.0	18 ± 1.8	18 ± 4.1	30 ± 0.6	27 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴				2252 ± 214.7
Positive Control ⁵			2620 ± 36.6	
Positive Control ⁶	360 ± 10.0	620 ± 9.6		

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Mutagenicity****G06: Ames Summary Data**Test Compound: **Valerian (various)**CAS Number: **8008-88-6**Date Report Requested: **09/16/2018**Time Report Requested: **02:55:03****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 ± 17.1	155 ± 1.5	137 ± 9.0	158 ± 4.9
12.5	82 ± 15.6	132 ± 12.3	151 ± 7.9	177 ± 10.5
50.0	124 ± 12.7	133 ± 7.5	148 ± 3.9	178 ± 10.1
125.0	144 ± 2.9	127 ± 3.0	139 ± 13.6	169 ± 8.7
500.0	133 ± 5.0	138 ± 3.7	179 ± 7.3	173 ± 14.1
1500.0	130 ± 2.1	159 ± 13.5	152 ± 4.7	181 ± 9.2
6000.0	160 ± 1.0	152 ± 4.8	154 ± 1.5	197 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁷	1682 ± 38.8	1320 ± 79.7		
Positive Control ⁸			1488 ± 24.9	1523 ± 28.0

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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 ug/Plate 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 ****