

Experiment Number: **A66100**

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

G06: Ames Summary Data

Test Compound: **Valerian (Valeriana officinalis L.) root oil**

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

Date Report Requested: **09/17/2018**

Time Report Requested: **13:30:38**

NTP Study Number:

A66100

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	74 ± 4.1	68 ± 7.9	89 ± 4.0	63 ± 1.2	81 ± 5.5
2.5			79 ± 5.4		
5.0		70 ± 1.5	90 ± 2.0		
10.0		49 ± 3.8	80 ± 7.0		
20.0		48 ± 4.1			
25.0			71 ± 4.6		
50.0	32 ± 1.2	15 ± 2.1	45 ± 7.9		
75.0		5 ± 1.2			
100.0	29 ± 3.5	4 ± 1.0		68 ± 7.9	
200.0					
250.0	22 ± 5.6				65 ± 3.8
400.0					
500.0	0 ± 0.0			45 ± 4.4	58 ± 0.9
600.0					
750.0	0 ± 0.0				32 ± 3.2
1000.0				44 ± 2.9	15 ± 2.3
1500.0					3 ± 0.6
2000.0				0 ± 0.0	
3500.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	696 ± 5.5	557 ± 8.1	659 ± 28.9		
Positive Control ³				662 ± 71.5	1170 ± 34.7

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	76 ± 9.0
2.5	
5.0	
10.0	
20.0	
25.0	
50.0	79 ± 6.3
75.0	
100.0	93 ± 5.0
200.0	80 ± 0.3
250.0	
400.0	72 ± 0.0
500.0	
600.0	36 ± 4.6
750.0	
1000.0	
1500.0	
2000.0	
3500.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1213 ± 40.3

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CAS Number: 8008-88-6

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	33 ± 6.7	20 ± 3.2	31 ± 1.3	27 ± 3.5
2.5		26 ± 2.7		
5.0	25 ± 2.7	22 ± 2.5		
10.0	22 ± 2.0	23 ± 1.3		
20.0	18 ± 1.5			
25.0		21 ± 5.2		
50.0	11 ± 2.6	18 ± 0.3	21 ± 4.1	33 ± 0.9
75.0	2 ± 0.3			
100.0	0 ± 0.0		22 ± 1.3	27 ± 2.3
200.0				28 ± 3.3
250.0			24 ± 3.9	
400.0				24 ± 6.3
500.0			23 ± 0.0	
600.0				17 ± 0.3
750.0			10 ± 3.0	
1000.0				
2000.0				
3000.0				
3500.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			932 ± 80.2	1484 ± 86.2
Positive Control ⁴	514 ± 12.7	804 ± 26.3		

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Strain: *E. coli* WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	149 ± 10.0	155 ± 6.2	143 ± 5.3	176 ± 9.8	193 ± 5.6
500.0			112 ± 3.2		
1000.0	103 ± 3.0	106 ± 0.3		215 ± 6.6	162 ± 4.3
1500.0			93 ± 3.2		
2500.0	91 ± 5.9	94 ± 7.3	85 ± 8.7	131 ± 10.1	117 ± 13.1
3500.0			85 ± 2.4		
5000.0	83 ± 7.6	81 ± 9.0	72 ± 1.0	100 ± 8.1	115 ± 5.7
7500.0	85 ± 7.2	49 ± 7.2		78 ± 6.1	105 ± 8.5
10000.0	74 ± 8.3	26 ± 7.9		49 ± 3.8	105 ± 14.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵				1312 ± 42.4	959 ± 16.7
Positive Control ⁶	2202 ± 40.7	1309 ± 103.1	2071 ± 44.6		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	201 ± 4.5
500.0	174 ± 11.6
1000.0	
1500.0	119 ± 7.3
2500.0	105 ± 2.1
3500.0	95 ± 5.0
5000.0	90 ± 7.1
7500.0	
10000.0	
Trial Summary	Negative
Positive Control ⁵	1262 ± 35.0
Positive Control 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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****