

Experiment Number: A83314

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

G06: Ames Summary Data

Test Compound: **Goldenseal root powder**

CAS Number: **GOLDENSEALRT**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:24:39**

NTP Study Number:

A83314

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	86 ± 3.1	64 ± 5.5	75 ± 4.6	77 ± 5.2
1000.0	114 ± 1.5	83 ± 3.8	87 ± 1.9	87 ± 10.6
1500.0				81 ± 2.6
2500.0	116 ± 6.4	86 ± 5.5	93 ± 3.2	
5000.0	116 ± 10.1	61 ± 2.3	99 ± 3.5	78 ± 1.5
7500.0	120 ± 1.5	67 ± 1.5	117 ± 5.8	77 ± 2.3
10000.0	128 ± 9.6	59 ± 4.8	128 ± 10.7	69 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	525 ± 19.7	650 ± 9.3		
Positive Control ³			635 ± 39.8	731 ± 10.8

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	29 ± 1.2	26 ± 4.4	31 ± 2.1	29 ± 4.6
1000.0	48 ± 3.3	30 ± 2.2	47 ± 2.0	36 ± 2.9
2500.0	37 ± 3.8	24 ± 0.9	51 ± 5.5	45 ± 2.0
5000.0	23 ± 1.2	21 ± 4.1	52 ± 1.9	37 ± 3.9
7500.0	17 ± 1.5	19 ± 3.9	48 ± 3.2	36 ± 5.5
10000.0	11 ± 1.7	19 ± 3.8	36 ± 3.9	29 ± 5.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			896 ± 33.8	1188 ± 76.8
Positive Control ⁴	446 ± 54.8	594 ± 28.7		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	174 ± 3.7	194 ± 8.7	235 ± 6.6
1000.0	236 ± 8.3	167 ± 8.0	202 ± 19.0
2500.0	244 ± 12.9	191 ± 10.7	199 ± 3.7
5000.0	279 ± 9.9	199 ± 7.5	218 ± 2.4
7500.0	258 ± 19.9	227 ± 12.5	235 ± 3.2
10000.0	262 ± 8.6	239 ± 9.8	229 ± 10.8
Trial Summary	Negative	Negative	Negative
Positive Control ⁵			1248 ± 22.9
Positive Control ⁶	1128 ± 60.8	2158 ± 15.7	

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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 ****