

Experiment Number: **G99067FIR**

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

G06: Ames Summary Data

Test Compound: **Echinacea purpurea extract**

CAS Number: **90028-20-9**

Date Report Requested: **09/16/2018**

Time Report Requested: **12:02:57**

NTP Study Number:

G99067FIR

Study Result:

Negative

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CAS Number: 90028-20-9

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	104 ± 3.3	88 ± 5.5	103 ± 8.4	95 ± 5.5
500.0	88 ± 2.9	104 ± 4.6	116 ± 8.5	96 ± 1.5
750.0	96 ± 1.8	100 ± 2.6	108 ± 8.7	104 ± 8.5
1000.0	94 ± 6.1	99 ± 5.3	105 ± 9.2	110 ± 4.6
2000.0	105 ± 3.2	93 ± 1.9	101 ± 5.0	117 ± 9.2
4000.0	106 ± 8.8	88 ± 9.1	105 ± 11.0	116 ± 4.5
6000.0	99 ± 1.8	90 ± 8.0	112 ± 9.5	125 ± 11.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	660 ± 8.9	637 ± 19.0		
Positive Control ³			672 ± 29.5	927 ± 12.2

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	31 ± 2.2	28 ± 1.2	29 ± 1.3	37 ± 2.1
500.0	37 ± 6.9	29 ± 2.6	35 ± 2.3	43 ± 2.2
750.0	28 ± 1.5	24 ± 3.8	31 ± 0.9	37 ± 2.3
1000.0	28 ± 0.7	27 ± 3.9	32 ± 2.4	40 ± 1.2
2000.0	23 ± 4.7	37 ± 2.7	31 ± 3.0	36 ± 2.9
4000.0	34 ± 2.6	30 ± 2.3	29 ± 5.7	41 ± 6.0
6000.0	27 ± 4.0	38 ± 3.5	38 ± 7.5	44 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			1361 ± 88.5	1584 ± 26.4
Positive Control ⁵	760 ± 77.4	763 ± 71.7		

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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	140 ± 13.5	166 ± 13.9	215 ± 15.1	210 ± 25.8
500.0	175 ± 13.9	142 ± 25.8	186 ± 3.5	223 ± 15.2
750.0	167 ± 16.8	198 ± 19.6	197 ± 4.7	194 ± 5.6
1000.0	151 ± 18.7	176 ± 8.3	196 ± 7.8	218 ± 9.7
2000.0	195 ± 5.5	168 ± 11.0	183 ± 5.8	195 ± 2.8
4000.0	160 ± 6.0	178 ± 10.4	163 ± 15.9	197 ± 12.5
6000.0	165 ± 16.2	186 ± 12.7	152 ± 15.8	209 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶	1529 ± 119.8	1434 ± 154.9		
Positive Control ⁷			1192 ± 31.4	1288 ± 32.0

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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: 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 ****