

Experiment Number: **G99067GIR**

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: **12:06:37**

**NTP Study Number:**

G99067GIR

**Study Result:**

Negative

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**Strain: TA100**

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	68 ± 1.5	83 ± 1.5	92 ± 2.5	80 ± 4.1
500.0	77 ± 10.7	113 ± 6.2	87 ± 6.5	113 ± 2.6
750.0	80 ± 4.0 <sup>P</sup>	102 ± 4.9	101 ± 6.7	96 ± 7.8
1000.0	99 ± 4.1 <sup>P</sup>	84 ± 2.5	93 ± 7.4	123 ± 1.3
2000.0	82 ± 1.9 <sup>P</sup>	83 ± 1.2 <sup>P</sup>	98 ± 7.1	99 ± 3.2 <sup>P</sup>
4000.0	82 ± 3.9	83 ± 7.2 <sup>P</sup>	100 ± 4.6 <sup>P</sup>	74 ± 11.8 <sup>P</sup>
6000.0	87 ± 5.5	80 ± 3.3 <sup>P</sup>	99 ± 9.4	95 ± 5.5 <sup>P</sup>
Trial Summary	Equivocal	Negative	Negative	Equivocal
Positive Control <sup>2</sup>	632 ± 40.3	663 ± 10.4		
Positive Control <sup>3</sup>			677 ± 15.5	815 ± 17.1

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	19 ± 2.7	23 ± 0.9	26 ± 2.4	37 ± 3.5
500.0	24 ± 3.5	25 ± 2.2 <sup>P</sup>	23 ± 3.3	29 ± 6.5 <sup>P</sup>
750.0	20 ± 2.3	24 ± 2.2 <sup>P</sup>	23 ± 0.7	26 ± 0.0 <sup>P</sup>
1000.0	19 ± 3.8 <sup>P</sup>	22 ± 1.7 <sup>P</sup>	24 ± 1.7	30 ± 3.0 <sup>P</sup>
2000.0	21 ± 2.6 <sup>P</sup>	23 ± 1.2 <sup>P</sup>	25 ± 2.8	34 ± 3.4 <sup>P</sup>
4000.0	17 ± 1.5 <sup>P</sup>	20 ± 1.5 <sup>P</sup>	28 ± 2.1 <sup>P</sup>	35 ± 1.2 <sup>P</sup>
6000.0	18 ± 1.2 <sup>P</sup>	27 ± 5.2 <sup>P</sup>	26 ± 2.0 <sup>P</sup>	30 ± 3.2 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1482 ± 30.9	1590 ± 40.2
Positive Control <sup>5</sup>	854 ± 19.2	729 ± 33.0		

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## G06: Ames Summary Data

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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	With 10% Rat S9
Vehicle Control <sup>1</sup>	155 ± 1.5	105 ± 3.8	195 ± 8.0	180 ± 3.1	180 ± 3.1
500.0	154 ± 9.0	146 ± 9.7	214 ± 4.4	169 ± 13.6	169 ± 13.6
750.0	176 ± 5.8	143 ± 8.7	230 ± 13.7	176 ± 3.8	176 ± 3.8
1000.0	172 ± 10.4	157 ± 7.6	216 ± 14.2	165 ± 3.2	165 ± 3.2
2000.0	152 ± 4.0	124 ± 16.8 <sup>P</sup>	194 ± 4.2	143 ± 2.7 <sup>P</sup>	143 ± 2.7 <sup>P</sup>
4000.0	158 ± 8.3	142 ± 1.8 <sup>P</sup>	192 ± 12.7	159 ± 7.4 <sup>P</sup>	159 ± 7.4 <sup>P</sup>
6000.0	167 ± 9.2 <sup>P</sup>	123 ± 4.9 <sup>P</sup>	208 ± 7.0 <sup>P</sup>	159 ± 6.8 <sup>P</sup>	159 ± 6.8 <sup>P</sup>
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>6</sup>	1178 ± 103.6	1268 ± 110.9			
Positive Control <sup>7</sup>			1414 ± 49.2	1185 ± 22.5	1185 ± 22.5

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### **LEGEND**

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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 \*\***