

Experiment Number: **G99067CIR**

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: **11:51:59**

**NTP Study Number:**

G99067CIR

**Study Result:**

Equivocal

Experiment Number: G99067CIR  
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: 11:51:59

---

Strain: TA100			
Dose (ug/Plate)	Without S9	With 10% Rat S9	
Vehicle Control <sup>1</sup>	90 ± 3.6	95 ± 3.5	
250.0	81 ± 6.0	94 ± 5.9	
500.0	87 ± 5.5	75 ± 2.8	
750.0	82 ± 3.2	70 ± 2.0	
1500.0	79 ± 4.5	80 ± 5.0	
3000.0	90 ± 4.4	Toxic	
6000.0	85 ± 5.1	99 ± 6.5	
Trial Summary	Negative	Negative	
Positive Control <sup>2</sup>	570 ± 61.4		
Positive Control <sup>3</sup>		661 ± 19.6	

Experiment Number: G99067CIR  
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: 11:51:59

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	19 ± 6.4	23 ± 2.3	16 ± 3.5	28 ± 3.8
250.0	15 ± 2.1	27 ± 4.2	17 ± 4.9	25 ± 7.4
500.0	19 ± 3.0	21 ± 4.6	16 ± 0.9	24 ± 1.5
750.0	16 ± 3.5	19 ± 2.6	21 ± 3.2	26 ± 2.7
1500.0	23 ± 1.0	31 ± 3.0	21 ± 3.0	27 ± 6.2
3000.0	23 ± 4.3	26 ± 2.0	30 ± 6.4	32 ± 5.3
6000.0	28 ± 4.7	42 ± 1.3	35 ± 1.5	52 ± 7.0
Trial Summary	Negative	Negative	Weakly Positive	Equivocal
Positive Control <sup>4</sup>		1603 ± 145.2	1410 ± 84.7	1458 ± 84.4
Positive Control <sup>5</sup>	496 ± 58.9			

Experiment Number: G99067CIR  
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: 11:51:59

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	104 ± 4.4	175 ± 1.8
250.0	123 ± 4.0	161 ± 8.4
500.0	138 ± 11.8	153 ± 12.9
750.0	136 ± 6.5	149 ± 15.9
1500.0	123 ± 6.0	177 ± 24.3
3000.0	114 ± 10.1	145 ± 3.2
6000.0	110 ± 4.0	149 ± 16.0
Trial Summary	Negative	Negative
Positive Control <sup>6</sup>	1616 ± 106.5	
Positive Control <sup>7</sup>		1164 ± 47.4

Experiment Number: **G99067CIR**  
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: **11:51:59**

### **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: 2.0 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 \*\***