NTP Study Number: G99067EIR

Study Result: Equivocal

Experiment Number: **G99067EIR**

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: **11:59:16**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	72 ± 7.8	78 ± 5.3	89 ± 6.8	72 ± 4.2	78 ± 11.2
250.0	76 ± 7.8	68 ± 3.6	76 ± 6.4	89 ± 8.3	94 ± 4.7
500.0	76 ± 9.9	74 ± 7.3	83 ± 3.0	79 ± 6.2	98 ± 4.0
750.0	91 ± 4.2	81 ± 8.7	92 ± 3.3	91 ± 5.8	91 ± 6.2
1500.0	94 ± 9.4	78 ± 4.4	93 ± 7.1	88 ± 4.8	100 ± 8.1
3000.0	100 ± 5.3	87 ± 4.4	102 ± 2.4	81 ± 2.0	82 ± 9.9
6000.0	115 ± 5.8	97 ± 5.6	117 ± 12.5	111 ± 4.5	91 ± 3.1
Trial Summary	Weakly Positive	Negative	Equivocal	Negative	Negative
Positive Control[2]	488 ± 14.5	611 ± 18.0	672 ± 41.2		
Positive Control[3]				704 ± 37.9	586 ± 30.1

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Test Compound: **Echinacea purpurea extract**

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

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control[1]	110 ± 0.9
250.0	90 ± 2.3
500.0	104 ± 2.5
750.0	97 ± 5.5
1500.0	98 ± 0.7
3000.0	107 ± 2.9
6000.0	107 ± 9.1
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	768 ± 20.6

Experiment Number: **G99067EIR**

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: **11:59:16**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	12 ± 2.2	14 ± 0.3	16 ± 1.7	15 ± 0.3	16 ± 3.5
250.0	14 ± 2.4	13 ± 2.0	10 ± 1.3	23 ± 4.7	16 ± 0.9
500.0	16 ± 4.9	13 ± 1.5	21 ± 2.0	22 ± 1.9	18 ± 3.0
750.0	14 ± 0.6	11 ± 3.5	16 ± 1.8	21 ± 4.8	23 ± 3.5
1500.0	16 ± 1.5	12 ± 2.9	15 ± 1.2	30 ± 4.7	14 ± 3.3
3000.0	19 ± 2.6	15 ± 4.0	22 ± 0.6	25 ± 4.2	24 ± 7.0
6000.0	22 ± 3.2	10 ± 2.9	21 ± 2.4	20 ± 2.5	26 ± 2.4
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[4]				1241 ± 134.8	1410 ± 84.7
Positive Control[5]	584 ± 32.3	351 ± 35.8	553 ± 37.3		

Experiment Number: **G99067EIR**

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: **11:59:16**

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control[1]	28 ± 3.8
250.0	22 ± 2.3
500.0	25 ± 3.5
750.0	25 ± 3.1
1500.0	21 ± 1.8
3000.0	24 ± 5.5
6000.0	28 ± 2.1
Trial Summary	Negative
Positive Control[4]	1458 ± 84.4
Positive Control[5]	

Experiment Number: **G99067EIR**

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: **11:59:16**

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	With 10% Rat S9
Vehicle Control[1]	114 ± 10.4	144 ± 4.1
250.0	111 ± 6.2	132 ± 6.3
500.0	114 ± 5.6	137 ± 7.7
750.0	115 ± 1.7	140 ± 3.5
1500.0	129 ± 1.9	142 ± 4.1
3000.0	131 ± 3.8	138 ± 5.9
6000.0	137 ± 8.5	152 ± 5.8
Trial Summary	Negative	Negative
Positive Control[6]	1566 ± 165.8	
Positive Control[7]		1113 ± 62.2

LEGEND

Values given as Mean or Mean ± 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 **