

Experiment Number: **A42499**

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

G06: Ames Summary Data

Test Compound: **Shikimic acid**

CAS Number: **138-59-0**

Date Report Requested: **09/17/2018**

Time Report Requested: **00:17:34**

NTP Study Number:

A42499

Study Result:

Equivocal

Experiment Number: A42499
 Test Type: Genetic Toxicology - Bacterial
 Mutagenicity

G06: Ames Summary Data
 Test Compound: Shikimic acid
 CAS Number: 138-59-0

Date Report Requested: 09/17/2018
 Time Report Requested: 00:17:34

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 9.2	159 ± 12.4	136 ± 4.8	85 ± 5.5	170 ± 11.3
100.0	108 ± 12.2	167 ± 11.6	152 ± 7.9	111 ± 7.4	170 ± 12.9
333.0	100 ± 5.8	177 ± 11.8	148 ± 2.0	81 ± 3.5	189 ± 6.1
1000.0	111 ± 8.4	151 ± 4.8	159 ± 5.2	79 ± 1.2	180 ± 6.9
3333.0	97 ± 4.6	157 ± 8.5	142 ± 4.7	84 ± 7.3	185 ± 7.6
10000.0	112 ± 3.7 ^p	176 ± 8.9	124 ± 8.1	83 ± 5.5 ^p	180 ± 4.1
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					1143 ± 77.4
Positive Control ³	301 ± 1.2	612 ± 47.8			
Positive Control ⁴			938 ± 89.1		
Positive Control ⁵					
Positive Control ⁶				329 ± 13.9	

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	102 ± 2.6
100.0	107 ± 9.0
333.0	108 ± 3.6
1000.0	107 ± 2.9
3333.0	111 ± 5.8
10000.0	108 ± 2.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	726 ± 107.9
Positive Control ⁶	

Experiment Number: A42499

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Shikimic acid

CAS Number: 138-59-0

Date Report Requested: 09/17/2018

Time Report Requested: 00:17:34

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ⁷					12 ± 1.7
Vehicle Control ¹	13 ± 2.0	9 ± 0.6	17 ± 2.0	15 ± 2.1	
100.0	14 ± 3.5	11 ± 1.3	14 ± 0.6	14 ± 0.7	17 ± 4.5
333.0	13 ± 3.6	11 ± 1.5	14 ± 3.3	12 ± 2.0	21 ± 1.2
1000.0	11 ± 1.5	11 ± 2.1	13 ± 2.7	15 ± 0.9	21 ± 1.7
3333.0	8 ± 1.0	10 ± 1.9	10 ± 2.0	12 ± 2.3	11 ± 1.5
10000.0	8 ± 2.1	12 ± 1.2	13 ± 2.5	11 ± 1.5	17 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					243 ± 9.2
Positive Control ³	129 ± 6.6	111 ± 14.7			
Positive Control ⁵					
Positive Control ⁶			268 ± 17.4	104 ± 44.4	

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ⁷	
Vehicle Control ¹	15 ± 0.9
100.0	11 ± 2.3
333.0	6 ± 1.2
1000.0	11 ± 1.2
3333.0	7 ± 0.6
10000.0	12 ± 1.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	135 ± 22.9
Positive Control ⁶	

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

Strain: TA1537

Dose (ug/Plate)	With 30% Rat S9
Vehicle Control ¹	13 ± 1.5
100.0	11 ± 3.6
333.0	11 ± 0.9
1000.0	11 ± 0.9
3333.0	8 ± 1.5
5000.0	10 ± 1.2
Trial Summary	Negative
Positive Control ⁶	69 ± 7.6

Experiment Number: A42499

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Shikimic acid

CAS Number: 138-59-0

Date Report Requested: 09/17/2018

Time Report Requested: 00:17:34

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	108 ± 4.7	111 ± 11.7	120 ± 7.2	103 ± 10.5	157 ± 8.5
100.0	108 ± 8.7	120 ± 14.1	116 ± 7.2	107 ± 16.7	183 ± 17.0
333.0	82 ± 1.2	106 ± 9.1	108 ± 5.9	125 ± 4.7	198 ± 11.0
1000.0	102 ± 10.5	116 ± 3.6	112 ± 6.6	120 ± 15.3	191 ± 9.1
3333.0	104 ± 1.7	137 ± 14.2	92 ± 7.0	154 ± 2.6	179 ± 12.8
5000.0					152 ± 8.7
10000.0	89 ± 3.1	108 ± 1.3	113 ± 21.9	81 ± 2.1	
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ⁴					
Positive Control ⁶			1198 ± 104.1	497 ± 76.1	591 ± 77.1
Positive Control ⁸	367 ± 10.3	601 ± 51.1			

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	146 ± 1.8	145 ± 16.0
100.0	168 ± 3.1	164 ± 5.5
333.0	143 ± 12.1	161 ± 13.4
1000.0	175 ± 8.4	166 ± 13.3
3333.0	140 ± 16.3	141 ± 7.0
5000.0		
10000.0	111 ± 5.7	100 ± 12.6
Trial Summary	Negative	Negative
Positive Control ⁴	1347 ± 161.6	
Positive Control ⁶		906 ± 84.4
Positive Control ⁸		

Experiment Number: A42499

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Shikimic acid

CAS Number: 138-59-0

Date Report Requested: 09/17/2018

Time Report Requested: 00:17:34

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 4.2	11 ± 0.9	18 ± 3.0	16 ± 1.7	22 ± 2.6
100.0	14 ± 1.8	14 ± 1.8	15 ± 2.7	18 ± 0.9	27 ± 4.3
333.0	14 ± 2.6	13 ± 0.7	13 ± 2.2	20 ± 2.6	16 ± 2.0
1000.0	10 ± 0.7	11 ± 1.2	12 ± 0.9	14 ± 2.7	14 ± 1.5
3333.0	11 ± 1.8	9 ± 1.2	14 ± 2.4	18 ± 2.4	22 ± 2.2
10000.0	16 ± 1.9 ^p	13 ± 1.2	10 ± 2.0	17 ± 2.1 ^p	17 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			415 ± 4.8		1064 ± 13.2
Positive Control ⁹	77 ± 9.3	50 ± 1.5			
Positive Control ⁵				184 ± 12.9	

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.2
100.0	19 ± 0.7
333.0	19 ± 1.7
1000.0	15 ± 1.2
3333.0	19 ± 1.5
10000.0	16 ± 1.5 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁹	
Positive Control ⁵	552 ± 22.1

Experiment Number: A42499
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Shikimic acid
CAS Number: 138-59-0

Date Report Requested: 09/17/2018
Time Report Requested: 00:17:34

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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: Vehicle Control: Dimethyl Sulfoxide

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **