

Experiment Number: **A00186**

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

G06: Ames Summary Data

Test Compound: **Kava kava extract**

CAS Number: **9000-38-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:42:06**

NTP Study Number:

A00186

Study Result:

Negative

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	84 ± 9.8	96 ± 4.3	124 ± 10.8	81 ± 15.1	108 ± 4.5
33.0	108 ± 1.5	85 ± 3.4			
100.0	110 ± 13.3	92 ± 6.2	125 ± 12.4	64 ± 6.1	109 ± 11.3
333.0	105 ± 11.6	95 ± 3.3	124 ± 10.7	69 ± 4.1	112 ± 3.5
1000.0	75 ± 7.5	73 ± 2.8 ^s	121 ± 21.5	73 ± 7.7	107 ± 10.1
3333.0	10 ± 8.2 ^x	7 ± 2.2 ^x	116 ± 14.8 ^p	22 ± 7.5 ^p	96 ± 2.3 ^p
10000.0			8 ± 1.8 ^x	5 ± 4.7 ^x	6 ± 3.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					371 ± 29.8
Positive Control ³	353 ± 11.9	270 ± 10.4			
Positive Control ⁴			449 ± 8.1		
Positive Control ⁵					
Positive Control ⁶				462 ± 29.0	

Experiment Number: A00186
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Kava kava extract
CAS Number: 9000-38-8

Date Report Requested: 09/15/2018
Time Report Requested: 10:42:06

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	97 ± 3.6
33.0	
100.0	85 ± 14.8
333.0	100 ± 10.2
1000.0	85 ± 3.2
3333.0	13 ± 10.5 ^p
10000.0	0 ± 0.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1007 ± 73.9
Positive Control ⁶	

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.4	15 ± 1.7	13 ± 2.0	16 ± 2.0	14 ± 1.0
33.0	16 ± 1.5	14 ± 2.0	11 ± 1.2		
100.0	10 ± 2.8	14 ± 1.5	12 ± 1.2	18 ± 1.7	10 ± 2.0
333.0	18 ± 3.6	14 ± 1.2	12 ± 1.0	17 ± 0.9	12 ± 1.7
1000.0	16 ± 0.3 ^p	12 ± 2.0	11 ± 0.7 ^p	12 ± 0.6	14 ± 1.5
3333.0	1 ± 0.6 ^x	3 ± 0.9 ^x	2 ± 0.7 ^x	15 ± 3.4 ^p	10 ± 3.5 ^p
10000.0				7 ± 0.6 ^x	3 ± 1.5 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					53 ± 1.9
Positive Control ³	274 ± 20.9	236 ± 6.9			
Positive Control ⁵					
Positive Control ⁶			253 ± 21.5	127 ± 17.4	

Experiment Number: A00186
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Kava kava extract
CAS Number: 9000-38-8

Date Report Requested: 09/15/2018
Time Report Requested: 10:42:06

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.0
33.0	
100.0	13 ± 1.7
333.0	13 ± 2.0
1000.0	11 ± 1.2
3333.0	10 ± 0.9 ^p
10000.0	1 ± 1.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	162 ± 2.4
Positive Control ⁶	

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	122 ± 8.0	100 ± 3.5	125 ± 3.3	101 ± 17.5	180 ± 12.7
33.0	139 ± 13.3	95 ± 4.9			
100.0	138 ± 11.5	102 ± 6.4	144 ± 1.2	80 ± 7.5	173 ± 8.3
333.0	128 ± 10.1	76 ± 8.5	133 ± 2.5	90 ± 1.5	211 ± 9.3
1000.0	110 ± 17.9 ^p	79 ± 1.7	163 ± 9.0	87 ± 4.9	199 ± 9.0
2000.0				84 ± 16.7	
3333.0	5 ± 2.2 ^x	29 ± 7.4 ^x	128 ± 12.6 ^p	75 ± 14.8 ^p	222 ± 17.2 ^p
10000.0			15 ± 1.8 ^x		88 ± 7.7 ^x
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			1272 ± 25.9	661 ± 37.8	411 ± 6.4
Positive Control ⁷	443 ± 88.5	397 ± 39.2			

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 2.9	164 ± 8.8
33.0		
100.0	125 ± 5.0	182 ± 19.8
333.0	115 ± 0.7	151 ± 11.0
1000.0	123 ± 2.5	168 ± 18.8
2000.0		
3333.0	103 ± 9.1 ^p	153 ± 11.9 ^p
10000.0	31 ± 7.5 ^x	94 ± 13.7 ^x
Trial Summary	Negative	Negative
Positive Control ⁴	538 ± 9.6	
Positive Control ⁶		986 ± 222.3
Positive Control ⁷		

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.2	21 ± 1.2	17 ± 1.2	13 ± 2.8	19 ± 0.3
33.0	12 ± 1.3	17 ± 1.5			
100.0	10 ± 0.9	17 ± 2.0	24 ± 3.5	12 ± 1.2	21 ± 3.5
333.0	8 ± 3.0	13 ± 1.5	21 ± 1.9	11 ± 1.8	19 ± 5.0
1000.0	8 ± 2.8	16 ± 2.3	20 ± 2.2	8 ± 1.7	17 ± 4.3
3333.0	3 ± 1.5 ^x	1 ± 1.0 ^x	15 ± 1.5 ^p	7 ± 4.1 ^p	15 ± 1.5 ^p
10000.0			4 ± 1.2 ^x	3 ± 1.5 ^x	1 ± 0.6 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			301 ± 17.5		330 ± 17.6
Positive Control ⁵				347 ± 26.3	
Positive Control ⁸	321 ± 13.3	342 ± 14.4			

Experiment Number: A00186

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Kava kava extract

CAS Number: 9000-38-8

Date Report Requested: 09/15/2018

Time Report Requested: 10:42:06

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
33.0	
100.0	10 ± 2.1
333.0	8 ± 1.8
1000.0	9 ± 1.5
3333.0	3 ± 1.5 ^p
10000.0	1 ± 0.6 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	832 ± 98.9
Positive Control ⁸	

Experiment Number: A00186
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Kava kava extract
CAS Number: 9000-38-8

Date Report Requested: 09/15/2018
Time Report Requested: 10:42:06

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: 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: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- s: Slight Toxicity
- x: Slight Toxicity and Precipitate

**** END OF REPORT ****