

Experiment Number: **A96358**

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

**G06: Ames Summary Data**

Test Compound: **Yohimbe bark extract**

CAS Number: **85117-22-2**

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

Time Report Requested: **17:06:54**

**NTP Study Number:**

A96358

**Study Result:**

Negative

Experiment Number: A96358

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## G06: Ames Summary Data

Test Compound: Yohimbe bark extract

CAS Number: 85117-22-2

Date Report Requested: 09/15/2018

Time Report Requested: 17:06:54

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	99 ± 8.8	107 ± 3.0	112 ± 0.3	111 ± 6.5	100 ± 5.0
100.0	104 ± 7.8	111 ± 7.9	114 ± 3.2	117 ± 0.3	111 ± 4.6
333.0	99 ± 9.7	108 ± 2.0	113 ± 5.9	109 ± 3.3	104 ± 3.8
1000.0	103 ± 2.7	109 ± 6.6	104 ± 4.4	85 ± 12.4	102 ± 3.0
3333.0	112 ± 4.4 <sup>P</sup>	100 ± 8.5 <sup>P</sup>	88 ± 1.2 <sup>P</sup>	115 ± 3.2 <sup>P</sup>	99 ± 4.4 <sup>P</sup>
10000.0	109 ± 5.0 <sup>P</sup>	108 ± 3.9 <sup>P</sup>	112 ± 8.0 <sup>P</sup>	109 ± 0.3 <sup>P</sup>	106 ± 2.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1314 ± 91.0
Positive Control <sup>3</sup>			1027 ± 55.5		
Positive Control <sup>4</sup>	1036 ± 28.0	1554 ± 277.2			
Positive Control <sup>5</sup>				536 ± 236.0	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	104 ± 8.1
100.0	114 ± 2.3
333.0	115 ± 3.2
1000.0	108 ± 3.7
3333.0	116 ± 6.7 <sup>P</sup>
10000.0	110 ± 5.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1465 ± 88.9
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

Experiment Number: A96358

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Yohimbe bark extract

CAS Number: 85117-22-2

Date Report Requested: 09/15/2018

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.2	14 ± 1.5	15 ± 2.6	13 ± 1.5	12 ± 2.3
100.0	24 ± 2.4	18 ± 2.7	9 ± 3.8	15 ± 1.0	13 ± 1.7
333.0	16 ± 2.5	16 ± 3.3	10 ± 1.2	13 ± 1.5	10 ± 1.2
1000.0	24 ± 1.5	19 ± 2.6	10 ± 0.9	11 ± 1.3	9 ± 1.5
3333.0	23 ± 3.0 <sup>P</sup>	18 ± 0.7 <sup>P</sup>	10 ± 2.3 <sup>P</sup>	13 ± 2.0 <sup>P</sup>	12 ± 0.9 <sup>P</sup>
10000.0	26 ± 2.2 <sup>P</sup>	15 ± 1.3 <sup>P</sup>	11 ± 3.4 <sup>P</sup>	12 ± 0.6 <sup>P</sup>	9 ± 2.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					265 ± 8.6
Positive Control <sup>4</sup>	1234 ± 21.1	1029 ± 34.9			
Positive Control <sup>5</sup>			315 ± 19.4		
Positive Control <sup>6</sup>				400 ± 14.2	

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G06: Ames Summary Data  
Test Compound: Yohimbe bark extract  
CAS Number: 85117-22-2

Date Report Requested: 09/15/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 0.3
100.0	15 ± 1.5
333.0	14 ± 2.6
1000.0	11 ± 1.5
3333.0	13 ± 0.9 <sup>P</sup>
10000.0	15 ± 4.6 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	475 ± 36.1
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Yohimbe bark extract

CAS Number: 85117-22-2

Date Report Requested: 09/15/2018

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 11.4	107 ± 4.2	101 ± 4.7	107 ± 4.6	109 ± 4.6
100.0	135 ± 13.0	100 ± 4.2	106 ± 11.7	84 ± 5.7	108 ± 5.8
333.0	110 ± 7.0	105 ± 3.1	96 ± 3.5	95 ± 6.7	97 ± 5.9
1000.0	112 ± 10.8	90 ± 5.5	95 ± 8.2	98 ± 9.5	114 ± 3.2
3333.0	116 ± 5.5 <sup>p</sup>	100 ± 1.2 <sup>p</sup>	106 ± 6.7 <sup>p</sup>	98 ± 9.8 <sup>p</sup>	114 ± 2.5 <sup>p</sup>
10000.0	99 ± 8.8 <sup>p</sup>	103 ± 2.9 <sup>p</sup>	101 ± 6.2 <sup>p</sup>	98 ± 9.5 <sup>p</sup>	109 ± 0.3 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					687 ± 32.5
Positive Control <sup>3</sup>			553 ± 54.9		
Positive Control <sup>5</sup>				755 ± 30.9	
Positive Control <sup>7</sup>	541 ± 9.5	666 ± 29.7			

Experiment Number: A96358

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**G06: Ames Summary Data**

Test Compound: Yohimbe bark extract

CAS Number: 85117-22-2

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	103 ± 12.5
100.0	100 ± 5.7
333.0	101 ± 3.7
1000.0	103 ± 3.0
3333.0	116 ± 4.4 <sup>P</sup>
10000.0	105 ± 6.4 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	751 ± 20.3
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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**G06: Ames Summary Data**  
 Test Compound: Yohimbe bark extract  
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**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.2	29 ± 2.7	37 ± 1.2	25 ± 1.5	39 ± 5.0
100.0	17 ± 2.7	32 ± 1.7	36 ± 4.0	22 ± 2.1	40 ± 1.0
333.0	17 ± 2.3	26 ± 4.7	37 ± 1.9	23 ± 3.8	41 ± 3.2
1000.0	17 ± 2.6	26 ± 1.9	38 ± 1.0	21 ± 3.5	38 ± 1.7
3333.0	17 ± 3.2 <sup>P</sup>	31 ± 1.7 <sup>P</sup>	31 ± 1.0 <sup>P</sup>	23 ± 3.5 <sup>P</sup>	36 ± 3.5 <sup>P</sup>
10000.0	15 ± 1.0 <sup>P</sup>	28 ± 2.0 <sup>P</sup>	31 ± 2.5 <sup>P</sup>	19 ± 0.6 <sup>P</sup>	31 ± 1.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1060 ± 1.7
Positive Control <sup>3</sup>			823 ± 27.2		
Positive Control <sup>8</sup>	775 ± 21.0	672 ± 39.1			
Positive Control <sup>5</sup>				1166 ± 63.2	



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 1.7
100.0	20 ± 2.3
333.0	23 ± 1.5
1000.0	19 ± 4.0
3333.0	27 ± 1.0 <sup>P</sup>
10000.0	25 ± 2.3 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1529 ± 31.3
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**\*\* END OF REPORT \*\***