

Experiment Number: **A42709**

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

**G06: Ames Summary Data**

Test Compound: **Bixin**

CAS Number: **6983-79-5**

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

Time Report Requested: **00:24:51**

**NTP Study Number:**

A42709

**Study Result:**

Positive

Experiment Number: A42709

## G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Bixin

Time Report Requested: 00:24:51

CAS Number: 6983-79-5

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 2.4	138 ± 5.2	122 ± 7.7	142 ± 7.0	117 ± 8.2
10.0	105 ± 7.6				
33.0	115 ± 1.5	108 ± 1.8			
66.0		137 ± 4.9			
100.0	125 ± 2.6	131 ± 2.8	130 ± 5.0		102 ± 10.6
166.0		167 ± 4.0			
333.0	155 ± 5.0	179 ± 2.0	123 ± 3.9	167 ± 12.4	162 ± 8.8
666.0		199 ± 3.0			
1000.0	204 ± 24.6 <sup>P</sup>	206 ± 0.9 <sup>P</sup>	152 ± 7.5 <sup>P</sup>	222 ± 3.2 <sup>P</sup>	191 ± 1.9 <sup>P</sup>
1666.0		208 ± 3.3 <sup>P</sup>		245 ± 7.4 <sup>P</sup>	
3333.0			253 ± 10.0 <sup>P</sup>	290 ± 3.5 <sup>P</sup>	204 ± 9.1 <sup>P</sup>
6666.0				365 ± 6.4 <sup>P</sup>	
10000.0			315 ± 8.8 <sup>P</sup>	382 ± 6.5 <sup>P</sup>	250 ± 3.7 <sup>P</sup>
Trial Summary	Weakly Positive	Weakly Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					677 ± 27.5
Positive Control <sup>3</sup>	846 ± 94.5	850 ± 20.5			
Positive Control <sup>4</sup>			621 ± 18.7	541 ± 18.8	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	145 ± 9.3
10.0	
33.0	
66.0	
100.0	
166.0	
333.0	176 ± 4.9
666.0	
1000.0	246 ± 5.3 <sup>P</sup>
1666.0	252 ± 4.7 <sup>P</sup>
3333.0	274 ± 5.5 <sup>P</sup>
6666.0	281 ± 7.0 <sup>P</sup>
10000.0	290 ± 2.7 <sup>P</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	645 ± 18.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 1.5	16 ± 1.0	22 ± 2.9
10.0	19 ± 0.3		
33.0	14 ± 1.7		
100.0	17 ± 2.0	16 ± 2.1	16 ± 2.6
333.0	15 ± 0.9	17 ± 5.8	19 ± 3.2
1000.0	14 ± 2.1 <sup>P</sup>	19 ± 1.2 <sup>P</sup>	15 ± 1.5 <sup>P</sup>
3333.0		15 ± 1.7 <sup>P</sup>	17 ± 3.8 <sup>P</sup>
10000.0		14 ± 2.5 <sup>P</sup>	14 ± 2.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			615 ± 10.0
Positive Control <sup>5</sup>	434 ± 18.8		
Positive Control <sup>4</sup>		533 ± 17.4	

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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: Dimethyl Sulfoxide
- 2: 2.0 ug/Plate 2-Aminoanthracene
- 3: 5.0 ug/Plate Sodium Azide
- 4: 5.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

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