

Experiment Number: 301651

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

**G06: Ames Summary Data**

Test Compound: **Guar gum**

CAS Number: **9000-30-0**

Date Report Requested: **09/12/2018**

Time Report Requested: **02:53:52**

**NTP Study Number:**

301651

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Guar gum

CAS Number: 9000-30-0

Date Report Requested: 09/12/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	113 ± 7.8	128 ± 14.7	140 ± 22.5	135 ± 4.0	129 ± 0.9
100.0	121 ± 9.9	132 ± 5.0	129 ± 2.9	140 ± 6.4	119 ± 4.5
333.0	129 ± 12.3	134 ± 4.6	127 ± 5.7	129 ± 9.5	121 ± 5.5
1000.0	132 ± 5.5	125 ± 9.6	137 ± 11.7	120 ± 7.4	117 ± 10.4
3333.0	135 ± 4.4	119 ± 5.0	157 ± 11.0	134 ± 15.7	117 ± 6.7
10000.0	121 ± 9.3	119 ± 11.1	141 ± 25.3	129 ± 9.8	120 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				927 ± 6.7	
Positive Control <sup>3</sup>	376 ± 15.1	305 ± 11.2			
Positive Control <sup>4</sup>			481 ± 11.9		590 ± 14.0

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## G06: Ames Summary Data

Test Compound: Guar gum

CAS Number: 9000-30-0

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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>	24 ± 2.1	20 ± 1.7	15 ± 2.7	19 ± 1.5	11 ± 0.9
100.0	28 ± 3.2	22 ± 3.7	13 ± 0.9	16 ± 1.5	8 ± 0.3
333.0	28 ± 1.5	20 ± 4.0	15 ± 1.7	16 ± 0.3	7 ± 1.3
1000.0	22 ± 2.8	21 ± 3.8	10 ± 0.9	14 ± 0.3	12 ± 1.5
3333.0	29 ± 5.8	17 ± 2.0	6 ± 0.9	18 ± 1.2	10 ± 0.7
10000.0	29 ± 5.2	21 ± 3.3	11 ± 0.6	15 ± 0.9	5 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					196 ± 16.9
Positive Control <sup>3</sup>	479 ± 14.5	214 ± 6.4			
Positive Control <sup>5</sup>			70 ± 2.5		
Positive Control <sup>6</sup>				159 ± 7.4	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.5
100.0	13 ± 1.5
333.0	6 ± 1.2
1000.0	13 ± 2.6
3333.0	15 ± 2.3
10000.0	11 ± 1.8
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	577 ± 12.6
Positive Control <sup>6</sup>	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.1	16 ± 1.9	11 ± 0.7
100.0	15 ± 2.8	15 ± 0.3	15 ± 0.9
333.0	12 ± 3.2	13 ± 1.8	13 ± 0.7
1000.0	14 ± 2.0	12 ± 1.0	12 ± 3.8
3333.0	11 ± 1.8	9 ± 1.0	13 ± 0.6
10000.0	13 ± 2.3	11 ± 3.0	13 ± 1.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>			43 ± 8.9
Positive Control <sup>5</sup>		46 ± 1.2	
Positive Control <sup>7</sup>	788 ± 77.2		

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Test Compound: Guar gum

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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>	161 ± 4.1	147 ± 13.7	196 ± 6.7	188 ± 18.9	174 ± 14.3
100.0	163 ± 7.1	144 ± 11.6	172 ± 8.7	192 ± 5.8	169 ± 6.1
333.0	164 ± 3.0	154 ± 8.7	197 ± 9.6	182 ± 10.7	160 ± 12.6
1000.0	173 ± 4.0	154 ± 3.0	203 ± 14.4	180 ± 5.0	157 ± 3.8
3333.0	162 ± 7.0	148 ± 13.6	182 ± 9.7	189 ± 6.7	153 ± 1.2
10000.0	166 ± 8.6	154 ± 21.5	172 ± 15.2	186 ± 8.7	142 ± 14.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					542 ± 14.6
Positive Control <sup>4</sup>			393 ± 11.4		
Positive Control <sup>5</sup>				350 ± 11.5	
Positive Control <sup>7</sup>	842 ± 67.6	552 ± 57.8			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	197 ± 4.0
100.0	192 ± 9.4
333.0	185 ± 14.1
1000.0	187 ± 5.5
3333.0	188 ± 11.9
10000.0	181 ± 15.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	392 ± 6.4
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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## G06: Ames Summary Data

Test Compound: Guar gum

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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>	24 ± 4.8	18 ± 2.6	36 ± 1.8	46 ± 1.7	25 ± 1.2
100.0	20 ± 2.7	17 ± 1.9	30 ± 4.1	48 ± 0.3	29 ± 3.3
333.0	23 ± 4.6	18 ± 0.7	26 ± 2.0	40 ± 0.6	28 ± 1.2
1000.0	17 ± 1.2	13 ± 0.3	28 ± 0.7	38 ± 4.0	26 ± 2.5
3333.0	17 ± 1.5	11 ± 0.7	36 ± 4.4	36 ± 5.0	24 ± 2.8
10000.0	17 ± 0.9	18 ± 2.7	32 ± 1.8	48 ± 1.5	18 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					652 ± 38.2
Positive Control <sup>4</sup>			330 ± 20.4	107 ± 12.5	
Positive Control <sup>8</sup>	581 ± 34.0	521 ± 23.2			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 4.3
100.0	29 ± 4.4
333.0	34 ± 2.7
1000.0	31 ± 2.6
3333.0	28 ± 2.3
10000.0	28 ± 1.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	465 ± 6.1
Positive Control <sup>8</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: Dimethyl Sulfoxide
- 2: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*