

Experiment Number: 139901

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

**G06: Ames Summary Data**

Test Compound: **Gilsonite**

CAS Number: **12002-43-6**

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

Time Report Requested: **08:55:56**

**NTP Study Number:**

139901

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Gilsonite

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Date Report Requested: 09/12/2018

Time Report Requested: 08:55:56

## 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>	118 ± 14.4	160 ± 4.8	156 ± 4.8	140 ± 8.2	126 ± 6.6
100.0	112 ± 9.8	167 ± 3.7	174 ± 12.6	134 ± 7.4	141 ± 1.3
333.0	134 ± 2.7	157 ± 2.6	166 ± 7.2	132 ± 7.2	119 ± 12.7
1000.0	118 ± 7.0 <sup>p</sup>	166 ± 8.3 <sup>p</sup>	174 ± 7.0 <sup>p</sup>	141 ± 5.0 <sup>p</sup>	120 ± 11.1 <sup>p</sup>
3333.0	121 ± 4.4 <sup>p</sup>	143 ± 9.8 <sup>p</sup>	137 ± 9.8 <sup>p</sup>	113 ± 7.0 <sup>p</sup>	150 ± 27.0 <sup>p</sup>
10000.0	99 ± 5.5 <sup>p</sup>	153 ± 0.6 <sup>p</sup>	163 ± 13.9 <sup>p</sup>	127 ± 6.4 <sup>p</sup>	151 ± 2.1 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1197 ± 48.6
Positive Control <sup>3</sup>			400 ± 15.6		
Positive Control <sup>4</sup>	360 ± 14.7	387 ± 17.4			
Positive Control <sup>5</sup>				404 ± 32.9	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 11.5
100.0	135 ± 6.5
333.0	129 ± 7.2
1000.0	116 ± 4.8 <sup>p</sup>
3333.0	117 ± 4.6 <sup>p</sup>
10000.0	117 ± 8.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	579 ± 21.7
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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>	31 ± 3.1	24 ± 1.8	10 ± 0.6	11 ± 0.6	11 ± 0.3
100.0	35 ± 2.4	28 ± 0.6	8 ± 1.3	14 ± 0.7	9 ± 0.6
333.0	37 ± 5.2	23 ± 1.3	14 ± 1.2	10 ± 2.3	13 ± 2.6
1000.0	32 ± 0.9 <sup>p</sup>	23 ± 6.0 <sup>p</sup>	11 ± 1.2 <sup>p</sup>	14 ± 0.7 <sup>p</sup>	13 ± 0.9 <sup>p</sup>
3333.0	29 ± 3.2 <sup>p</sup>	17 ± 2.3 <sup>p</sup>	10 ± 0.9 <sup>p</sup>	14 ± 1.9 <sup>p</sup>	10 ± 1.0 <sup>p</sup>
10000.0	32 ± 0.9 <sup>p</sup>	19 ± 2.8 <sup>p</sup>	12 ± 1.9 <sup>p</sup>	12 ± 0.9 <sup>p</sup>	11 ± 1.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					210 ± 10.2
Positive Control <sup>4</sup>	521 ± 4.0	374 ± 16.0			
Positive Control <sup>5</sup>			138 ± 14.7		
Positive Control <sup>6</sup>				116 ± 1.3	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.5
100.0	12 ± 0.9
333.0	12 ± 3.2
1000.0	8 ± 1.2 <sup>P</sup>
3333.0	11 ± 1.9 <sup>P</sup>
10000.0	14 ± 3.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	435 ± 22.5
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>	6 ± 1.3	11 ± 0.6	16 ± 1.2
100.0	14 ± 2.8	14 ± 0.6	16 ± 0.9
333.0	9 ± 2.1	13 ± 1.2	14 ± 2.1
1000.0	11 ± 2.1 <sup>P</sup>	11 ± 1.5 <sup>P</sup>	15 ± 2.6 <sup>P</sup>
3333.0	11 ± 0.9 <sup>P</sup>	9 ± 0.6 <sup>P</sup>	15 ± 3.5 <sup>P</sup>
10000.0	7 ± 2.0 <sup>P</sup>	11 ± 1.2 <sup>P</sup>	14 ± 4.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			68 ± 6.0
Positive Control <sup>5</sup>		37 ± 2.3	
Positive Control <sup>7</sup>	877 ± 46.3		

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## G06: Ames Summary Data

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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>	139 ± 5.0	172 ± 2.9	185 ± 7.5	207 ± 11.9	155 ± 13.2
100.0	149 ± 3.4	183 ± 5.3	174 ± 5.0	217 ± 15.5	170 ± 4.6
333.0	144 ± 9.4	174 ± 5.3	210 ± 5.0	226 ± 8.0	169 ± 10.8
1000.0	160 ± 8.0 <sup>P</sup>	177 ± 5.4 <sup>P</sup>	221 ± 7.0 <sup>P</sup>	219 ± 15.2 <sup>P</sup>	157 ± 9.6 <sup>P</sup>
3333.0	153 ± 5.5 <sup>P</sup>	159 ± 4.9 <sup>P</sup>	221 ± 6.9 <sup>P</sup>	214 ± 6.0 <sup>P</sup>	172 ± 5.8 <sup>P</sup>
10000.0	162 ± 6.9 <sup>P</sup>	174 ± 13.0 <sup>P</sup>	180 ± 10.5 <sup>P</sup>	226 ± 4.5 <sup>P</sup>	173 ± 13.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					967 ± 27.8
Positive Control <sup>3</sup>			519 ± 25.6		
Positive Control <sup>5</sup>				361 ± 27.5	
Positive Control <sup>7</sup>	640 ± 10.9	765 ± 16.6			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	130 ± 11.3
100.0	137 ± 5.0
333.0	146 ± 3.2
1000.0	127 ± 5.9 <sup>P</sup>
3333.0	139 ± 0.6 <sup>P</sup>
10000.0	131 ± 12.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	395 ± 4.2
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	



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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	20 ± 1.5	21 ± 3.0	28 ± 3.9	22 ± 1.2	30 ± 1.8
100.0	24 ± 2.5	19 ± 2.2		27 ± 1.8	
333.0	19 ± 2.7	17 ± 3.4	23 ± 3.8	24 ± 2.5	26 ± 3.2
1000.0	15 ± 2.6 <sup>P</sup>	16 ± 3.2 <sup>P</sup>	32 ± 1.3 <sup>P</sup>	22 ± 2.0 <sup>P</sup>	33 ± 1.7 <sup>P</sup>
3333.0	19 ± 0.9 <sup>P</sup>	18 ± 2.7 <sup>P</sup>	28 ± 4.3 <sup>P</sup>	22 ± 4.8 <sup>P</sup>	23 ± 2.5 <sup>P</sup>
6666.0			27 ± 3.7 <sup>P</sup>		28 ± 4.5 <sup>P</sup>
10000.0	17 ± 0.9 <sup>P</sup>	18 ± 2.6 <sup>P</sup>	34 ± 6.4 <sup>P</sup>	39 ± 4.6 <sup>P</sup>	32 ± 1.5 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			550 ± 53.6	279 ± 5.2	308 ± 13.4
Positive Control <sup>8</sup>	558 ± 20.6	534 ± 23.0			

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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	37 ± 2.0	26 ± 3.0	29 ± 0.9	32 ± 2.6
100.0	42 ± 3.7		30 ± 1.9	28 ± 3.2
333.0	40 ± 1.5	31 ± 0.9	34 ± 1.0	28 ± 2.6
1000.0	30 ± 3.5 <sup>P</sup>	28 ± 1.2 <sup>P</sup>	30 ± 3.5 <sup>P</sup>	31 ± 2.3 <sup>P</sup>
3333.0	43 ± 2.0 <sup>P</sup>	22 ± 2.2 <sup>P</sup>	31 ± 1.5 <sup>P</sup>	28 ± 5.2 <sup>P</sup>
6666.0		26 ± 2.3 <sup>P</sup>		
10000.0	47 ± 4.6 <sup>P</sup>	32 ± 1.9 <sup>P</sup>	28 ± 1.7 <sup>P</sup>	33 ± 2.5 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			649 ± 134.4	
Positive Control <sup>3</sup>	170 ± 11.3	167 ± 6.3		454 ± 62.7
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 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

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

p: Precipitate

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