

Experiment Number: 655295

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

**G06: Ames Summary Data**

Test Compound: **Sodium arsenilate**

CAS Number: 127-85-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:11:13

**NTP Study Number:**

655295

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Sodium arsenilate

CAS Number: 127-85-5

Date Report Requested: 09/11/2018

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## 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>	75 ± 4.6	112 ± 5.2	78 ± 2.3	120 ± 1.8	70 ± 1.2
1.0	86 ± 4.9	85 ± 5.0			
3.3	91 ± 3.8	102 ± 3.0			
10.0	74 ± 2.6	102 ± 0.7	86 ± 4.0	110 ± 1.7	76 ± 2.9
33.0	61 ± 4.1 <sup>s</sup>	Toxic	68 ± 4.3	114 ± 1.9	69 ± 4.1
67.0	33 ± 1.9 <sup>s</sup>	Toxic			
100.0			74 ± 2.7	107 ± 8.1	75 ± 1.5
333.0			59 ± 1.7	108 ± 6.4	65 ± 2.4
666.0			4 ± 0.9 <sup>s</sup>	99 ± 11.8 <sup>s</sup>	47 ± 4.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					680 ± 17.3
Positive Control <sup>3</sup>			1228 ± 17.5		
Positive Control <sup>4</sup>				622 ± 22.5	
Positive Control <sup>5</sup>	993 ± 17.9	767 ± 115.1			

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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>	101 ± 4.6
1.0	
3.3	
10.0	99 ± 10.7
33.0	101 ± 5.5
67.0	
100.0	106 ± 4.4
333.0	97 ± 3.2
666.0	77 ± 3.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1073 ± 26.4
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>	23 ± 3.7	28 ± 5.0	7 ± 3.7	12 ± 1.2	8 ± 0.9
1.0	22 ± 2.4	22 ± 2.6			
3.3	21 ± 2.8	22 ± 2.8			
10.0	20 ± 2.3	18 ± 4.1	9 ± 4.2	14 ± 2.3	9 ± 2.3
33.0	5 ± 0.9 <sup>s</sup>	Toxic	9 ± 1.8	11 ± 1.7	11 ± 1.5
67.0	Toxic	Toxic			
100.0			9 ± 1.7	12 ± 2.0	9 ± 1.5
333.0			4 ± 0.9	12 ± 1.8	8 ± 0.7
666.0			4 ± 1.5 <sup>s</sup>	12 ± 3.2 <sup>s</sup>	8 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					72 ± 3.2
Positive Control <sup>3</sup>			85 ± 4.3		
Positive Control <sup>4</sup>				160 ± 10.7	
Positive Control <sup>5</sup>	806 ± 35.4	740 ± 17.6			

Experiment Number: 655295

Test Type: Genetic Toxicology - Bacterial  
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**G06: Ames Summary Data**

Test Compound: Sodium arsenilate

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 0.7
1.0	
3.3	
10.0	8 ± 0.3
33.0	10 ± 0.7
67.0	
100.0	9 ± 0.9
333.0	10 ± 1.8
666.0	10 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	243 ± 6.6
Positive Control <sup>5</sup>	

Experiment Number: 655295

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## G06: Ames Summary Data

Test Compound: Sodium arsenilate

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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>	76 ± 2.5	83 ± 5.2	76 ± 5.6	135 ± 2.6	71 ± 2.0
1.0	80 ± 3.9	78 ± 1.7			
3.3	74 ± 2.1	75 ± 2.6			
10.0	73 ± 3.8	65 ± 7.9 <sup>s</sup>	90 ± 4.5	132 ± 0.9	75 ± 1.9
33.0	13 ± 2.2 <sup>s</sup>	Toxic	88 ± 0.9	128 ± 6.7	76 ± 1.2
67.0	Toxic	Toxic			
100.0			83 ± 5.6	138 ± 2.9	67 ± 2.6
333.0			86 ± 4.8 <sup>s</sup>	150 ± 5.9	84 ± 4.7 <sup>s</sup>
666.0			67 ± 5.2 <sup>s</sup>	148 ± 4.5	72 ± 4.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					558 ± 8.7
Positive Control <sup>3</sup>			849 ± 3.5		
Positive Control <sup>4</sup>				843 ± 6.7	
Positive Control <sup>6</sup>	844 ± 39.8	929 ± 8.8			

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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>	152 ± 5.0
1.0	
3.3	
10.0	134 ± 6.2
33.0	139 ± 14.6
67.0	
100.0	136 ± 8.3
333.0	141 ± 2.6 <sup>s</sup>
666.0	159 ± 4.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	904 ± 11.0
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Sodium arsenilate

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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>	15 ± 2.1	15 ± 2.5	19 ± 4.4	25 ± 1.5	24 ± 3.3
1.0	15 ± 1.5	17 ± 1.8			
3.3	9 ± 2.0	16 ± 2.5			
10.0	10 ± 0.7	18 ± 2.6	21 ± 1.2	27 ± 5.4	20 ± 3.4
33.0	7 ± 1.0 <sup>s</sup>	Toxic	26 ± 4.4	24 ± 4.3	18 ± 2.3
67.0	7 ± 2.4 <sup>s</sup>	Toxic			
100.0			22 ± 0.9	30 ± 2.4	18 ± 1.2
333.0			27 ± 7.3	31 ± 3.8	22 ± 3.3
666.0			19 ± 4.0 <sup>s</sup>	31 ± 5.6 <sup>s</sup>	29 ± 2.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					675 ± 23.8
Positive Control <sup>3</sup>			1173 ± 26.3		
Positive Control <sup>4</sup>				483 ± 5.5	
Positive Control <sup>7</sup>	1574 ± 15.1	1471 ± 25.1			



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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>	31 ± 0.6
1.0	
3.3	
10.0	21 ± 2.0
33.0	25 ± 1.8
67.0	
100.0	28 ± 2.5
333.0	24 ± 1.5
666.0	19 ± 4.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	812 ± 28.0
Positive Control <sup>7</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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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