

Experiment Number: A71127

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

**G06: Ames Summary Data**

Test Compound: **Thiosemicarbazide**

CAS Number: **79-19-6**

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

Time Report Requested: **18:22:39**

**NTP Study Number:**

A71127

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Thiosemicarbazide

CAS Number: 79-19-6

Date Report Requested: 09/17/2018

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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>	90 ± 6.2	179 ± 6.4	152 ± 12.4	82 ± 1.9	169 ± 4.0
33.0	97 ± 4.9				
100.0	90 ± 7.5	152 ± 2.3	118 ± 6.4	80 ± 1.2	149 ± 14.0
333.0	76 ± 1.9	142 ± 6.5	132 ± 3.5	70 ± 3.8	143 ± 12.6
1000.0	74 ± 2.4	132 ± 4.4	131 ± 7.8	73 ± 2.4	128 ± 2.9
3333.0	82 ± 1.9	114 ± 10.5	104 ± 9.0	69 ± 5.2	125 ± 8.7
10000.0		86 ± 7.2	51 ± 6.9	68 ± 1.5	77 ± 34.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1554 ± 53.5
Positive Control <sup>3</sup>	217 ± 17.2	590 ± 5.8			
Positive Control <sup>4</sup>			723 ± 27.6		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				483 ± 53.7	

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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>	85 ± 3.5
33.0	
100.0	78 ± 1.2
333.0	77 ± 3.8
1000.0	77 ± 2.4
3333.0	74 ± 4.6
10000.0	53 ± 4.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	472 ± 56.9
Positive Control <sup>6</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>	17 ± 1.5	21 ± 2.6	17 ± 3.0	14 ± 3.5	13 ± 2.4
100.0	16 ± 2.0	16 ± 2.1	12 ± 0.7	13 ± 1.5	8 ± 2.5
333.0	15 ± 1.7	15 ± 1.5	11 ± 2.1	10 ± 2.0	10 ± 2.8
1000.0	15 ± 1.5	15 ± 1.5	11 ± 4.1	8 ± 2.0	11 ± 4.2
3333.0	14 ± 3.5	15 ± 0.7	12 ± 0.9	13 ± 2.0	10 ± 2.2
10000.0	7 ± 0.7 <sup>s</sup>	10 ± 1.3	13 ± 2.4	10 ± 0.3	11 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					210 ± 5.7
Positive Control <sup>3</sup>	184 ± 1.7				
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			274 ± 19.8	76 ± 2.8	
Positive Control <sup>7</sup>		263 ± 5.7			

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**G06: Ames Summary Data**

Test Compound: Thiosemicarbazide

CAS Number: 79-19-6

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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>	9 ± 1.8
100.0	11 ± 0.9
333.0	10 ± 1.5
1000.0	9 ± 1.2
3333.0	12 ± 1.3
10000.0	9 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	203 ± 15.7
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	

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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>	111 ± 1.5	122 ± 8.4	146 ± 10.2	168 ± 19.8	146 ± 5.0
100.0	113 ± 8.4	128 ± 6.4	136 ± 2.7	167 ± 11.3	149 ± 8.6
333.0	89 ± 2.6	127 ± 4.0	112 ± 1.7	122 ± 13.3	134 ± 3.8
1000.0	104 ± 4.4	99 ± 7.6	103 ± 5.8	105 ± 2.5	142 ± 9.5
3333.0	81 ± 0.6	69 ± 7.1	73 ± 6.9	81 ± 6.7	85 ± 3.5
10000.0	63 ± 10.7 <sup>s</sup>	37 ± 1.9 <sup>s</sup>	36 ± 16.5	42 ± 7.3	51 ± 18.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1536 ± 110.8
Positive Control <sup>6</sup>			1299 ± 180.9	491 ± 5.2	
Positive Control <sup>8</sup>	407 ± 1.5	375 ± 2.9			

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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>	137 ± 17.3
100.0	106 ± 8.1
333.0	100 ± 7.9
1000.0	97 ± 4.2
3333.0	77 ± 14.4
10000.0	77 ± 6.7
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1296 ± 75.7
Positive Control <sup>8</sup>	

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## G06: Ames Summary Data

Test Compound: Thiosemicarbazide

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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 ± 0.9	19 ± 2.7	21 ± 1.5	17 ± 1.8	32 ± 3.8
33.0	13 ± 0.3				
100.0	10 ± 0.3	15 ± 1.2	17 ± 0.6	19 ± 1.3	22 ± 3.5
333.0	17 ± 0.9	16 ± 0.6	20 ± 4.7	14 ± 2.2	21 ± 4.1
1000.0	12 ± 0.6	15 ± 2.0	13 ± 1.2	14 ± 1.5	20 ± 3.5
3333.0	14 ± 1.2	13 ± 1.9	14 ± 1.0	13 ± 1.5	17 ± 2.3
10000.0		6 ± 0.7 <sup>s</sup>	11 ± 2.4	11 ± 1.2	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			416 ± 28.5		1584 ± 54.1
Positive Control <sup>5</sup>				136 ± 19.1	
Positive Control <sup>9</sup>	60 ± 3.8	105 ± 5.1			



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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>	18 ± 1.5
33.0	
100.0	18 ± 4.1
333.0	16 ± 3.8
1000.0	15 ± 2.9
3333.0	18 ± 0.6
10000.0	13 ± 1.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>5</sup>	137 ± 14.8
Positive Control <sup>9</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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate Sodium Azide

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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