

Experiment Number: 764327

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

**G06: Ames Summary Data**

Test Compound: **Thiophene**

CAS Number: **110-02-1**

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

Time Report Requested: **19:49:17**

**NTP Study Number:**

764327

**Study Result:**

Negative

Experiment Number: 764327

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Thiophene

CAS Number: 110-02-1

Date Report Requested: 09/17/2018

Time Report Requested: 19:49:17

## 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>	143 ± 4.5	93 ± 6.4	141 ± 6.5	117 ± 9.4	94 ± 4.3
10.0		97 ± 5.2		111 ± 6.9	
33.0	122 ± 1.2	103 ± 13.4	128 ± 2.5	106 ± 9.6	89 ± 4.3
100.0	128 ± 7.2	102 ± 8.3	137 ± 4.9	111 ± 10.7	103 ± 10.8
333.0	103 ± 3.3	103 ± 9.6	129 ± 16.1	92 ± 1.8	105 ± 7.4
1000.0	130 ± 10.1	98 ± 4.8	134 ± 3.8	116 ± 7.0	103 ± 1.5
2000.0	88 ± 6.7 <sup>s</sup>		103 ± 10.3 <sup>s</sup>		85 ± 6.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1189 ± 5.8
Positive Control <sup>3</sup>			1501 ± 31.2		
Positive Control <sup>4</sup>				640 ± 32.9	
Positive Control <sup>5</sup>	1386 ± 57.2	759 ± 17.8			

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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>	112 ± 4.5
10.0	92 ± 4.9
33.0	109 ± 8.7
100.0	102 ± 7.3
333.0	104 ± 2.6
1000.0	110 ± 6.4
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	892 ± 18.6
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Thiophene

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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>	41 ± 2.3	28 ± 3.3	29 ± 5.2	14 ± 1.7	12 ± 1.2
10.0		31 ± 2.8		16 ± 0.3	
33.0	32 ± 1.5	32 ± 2.3	33 ± 3.5	14 ± 0.6	13 ± 1.2
100.0	33 ± 5.2	28 ± 0.3	33 ± 1.8	16 ± 2.2	18 ± 3.2
333.0	32 ± 4.7	30 ± 1.9	34 ± 5.7	12 ± 1.5	13 ± 3.3
1000.0	32 ± 2.7	25 ± 3.8	28 ± 3.2	10 ± 3.8	13 ± 0.0
2000.0	23 ± 3.2 <sup>s</sup>		27 ± 0.7 <sup>s</sup>		9 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					160 ± 7.1
Positive Control <sup>3</sup>			152 ± 3.0		
Positive Control <sup>4</sup>				165 ± 5.2	
Positive Control <sup>5</sup>	1057 ± 34.2	609 ± 32.5			

Experiment Number: 764327

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

**G06: Ames Summary Data**

Test Compound: **Thiophene**

CAS Number: **110-02-1**

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

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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 ± 0.6
10.0	10 ± 2.4
33.0	12 ± 2.2
100.0	13 ± 1.3
333.0	12 ± 1.2
1000.0	12 ± 1.5
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	220 ± 17.9
Positive Control <sup>5</sup>	

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

Test Compound: Thiophene

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Date Report Requested: 09/17/2018

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**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	99 ± 5.3	92 ± 0.6	110 ± 5.9	178 ± 5.2	134 ± 2.7
10.0		104 ± 0.9		186 ± 4.2	
33.0	103 ± 3.8	115 ± 5.2	125 ± 4.9	196 ± 4.5	127 ± 13.1
100.0	103 ± 1.7	98 ± 4.1	119 ± 0.7	204 ± 8.1	140 ± 0.3
333.0	107 ± 7.3	104 ± 6.5	117 ± 7.2	194 ± 6.9	132 ± 4.7
1000.0	86 ± 6.6	98 ± 3.8	120 ± 12.8	176 ± 6.1	113 ± 8.8
2000.0	84 ± 5.5 <sup>s</sup>		100 ± 2.6 <sup>s</sup>		113 ± 12.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					605 ± 11.9
Positive Control <sup>3</sup>			791 ± 23.2		
Positive Control <sup>4</sup>				537 ± 6.9	
Positive Control <sup>6</sup>	698 ± 17.4	600 ± 11.3			

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**G06: Ames Summary Data**

Test Compound: **Thiophene**

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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>	139 ± 9.3
10.0	141 ± 10.4
33.0	147 ± 7.8
100.0	142 ± 4.7
333.0	137 ± 2.9
1000.0	144 ± 6.8
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	540 ± 25.8
Positive Control <sup>6</sup>	

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Test Compound: Thiophene

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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>	17 ± 3.7	13 ± 1.8	32 ± 5.0	26 ± 1.3	29 ± 3.3
10.0		15 ± 1.2		29 ± 5.5	
33.0	18 ± 3.8	18 ± 1.2	32 ± 2.2	24 ± 3.4	29 ± 2.2
100.0	17 ± 0.7	10 ± 2.2	30 ± 0.9	28 ± 1.5	33 ± 3.0
333.0	16 ± 2.3	14 ± 5.0	32 ± 0.6	28 ± 1.9	36 ± 3.5
1000.0	23 ± 3.0	16 ± 1.5	35 ± 2.9	28 ± 2.7	30 ± 4.0
2000.0	16 ± 2.7 <sup>s</sup>		27 ± 1.7 <sup>s</sup>		31 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1309 ± 39.6
Positive Control <sup>3</sup>			1693 ± 45.5		
Positive Control <sup>4</sup>				576 ± 22.1	
Positive Control <sup>7</sup>	1598 ± 10.5	1447 ± 23.5			



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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>	33 ± 6.6
10.0	29 ± 5.2
33.0	24 ± 3.2
100.0	27 ± 6.2
333.0	23 ± 2.7
1000.0	21 ± 2.3
2000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	701 ± 93.6
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 \*\***