

Experiment Number: A13289

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

**G06: Ames Summary Data**

Test Compound: **3-(Methylthio)propanal**

CAS Number: **3268-49-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **21:21:07**

**NTP Study Number:**

A13289

**Study Result:**

Negative

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Test Compound: 3-(Methylthio)propanal

CAS Number: 3268-49-3

Date Report Requested: 09/15/2018

Time Report Requested: 21:21:07

## 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>	107 ± 6.2	159 ± 5.2	165 ± 15.2	113 ± 5.0	214 ± 3.7
33.0		162 ± 17.3			
100.0	94 ± 9.6	143 ± 5.5	143 ± 11.1	96 ± 6.5	174 ± 13.4
333.0	98 ± 8.4	132 ± 5.5	148 ± 11.7	83 ± 1.7	179 ± 5.3
1000.0	97 ± 5.2	97 ± 5.9 <sup>s</sup>	138 ± 10.1	67 ± 4.7	174 ± 4.1
3333.0	69 ± 10.2	Toxic	165 ± 7.8	62 ± 8.1	135 ± 10.7
10000.0	0 ± 0.0 <sup>x</sup>		156 ± 12.0 <sup>p</sup>	61 ± 7.7 <sup>p</sup>	0 ± 0.0 <sup>x</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					2058 ± 30.8
Positive Control <sup>3</sup>	262 ± 5.9	377 ± 4.5			
Positive Control <sup>4</sup>			984 ± 65.7		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				376 ± 32.9	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	109 ± 4.3
33.0	
100.0	96 ± 1.2
333.0	102 ± 6.4
1000.0	91 ± 1.5
3333.0	88 ± 7.9
10000.0	78 ± 5.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	688 ± 87.1
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>	20 ± 3.9	12 ± 2.3	11 ± 2.9	13 ± 2.1	11 ± 2.6
33.0		15 ± 1.5			
100.0	21 ± 2.2	13 ± 1.2	14 ± 1.2	12 ± 2.3	9 ± 0.9
333.0	13 ± 1.3	15 ± 0.6	13 ± 2.0	13 ± 3.2	12 ± 0.6
1000.0	15 ± 2.6	12 ± 1.9	9 ± 1.5	14 ± 0.3	15 ± 3.5
3333.0	14 ± 1.0	Toxic	8 ± 1.2	9 ± 0.9	14 ± 0.6
10000.0	0 ± 0.0 <sup>x</sup>		6 ± 1.9 <sup>p</sup>	9 ± 0.9 <sup>p</sup>	11 ± 3.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					193 ± 20.7
Positive Control <sup>3</sup>	213 ± 17.1	77 ± 4.9			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			177 ± 23.5	107 ± 15.1	

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G06: Ames Summary Data  
Test Compound: 3-(Methylthio)propanal  
CAS Number: 3268-49-3

Date Report Requested: 09/15/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.8
33.0	
100.0	10 ± 0.7
333.0	10 ± 1.9
1000.0	8 ± 1.5
3333.0	10 ± 2.0
10000.0	11 ± 3.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	226 ± 4.2
Positive Control <sup>6</sup>	

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Test Compound: 3-(Methylthio)propanal

CAS Number: 3268-49-3

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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>	130 ± 11.8	113 ± 9.2	147 ± 9.4	173 ± 35.6	168 ± 18.6
33.0		125 ± 8.2			
100.0	103 ± 6.1	115 ± 13.4	142 ± 8.5	145 ± 9.2	155 ± 23.9
333.0	109 ± 3.0	133 ± 10.7	127 ± 13.7	141 ± 11.9	135 ± 6.5
1000.0	122 ± 6.4	124 ± 8.3	129 ± 0.9	128 ± 5.0	138 ± 11.5
3333.0	120 ± 2.5	127 ± 7.1	155 ± 4.8	123 ± 4.7	116 ± 8.9
10000.0	0 ± 0.0 <sup>x</sup>		129 ± 8.7 <sup>p</sup>	105 ± 22.3 <sup>p</sup>	141 ± 3.6 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					1804 ± 109.9
Positive Control <sup>6</sup>			1647 ± 149.4	551 ± 12.3	
Positive Control <sup>7</sup>	443 ± 24.0	351 ± 20.3			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	161 ± 20.5
33.0	
100.0	152 ± 3.4
333.0	149 ± 5.2
1000.0	128 ± 9.5
3333.0	116 ± 7.2
10000.0	121 ± 6.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1435 ± 118.4
Positive Control <sup>7</sup>	

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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 ± 2.0	14 ± 0.7	15 ± 1.2	17 ± 0.6	24 ± 4.0
33.0		15 ± 3.0			
100.0	14 ± 1.7	13 ± 1.0	12 ± 1.3	18 ± 2.9	19 ± 2.2
333.0	14 ± 0.9	10 ± 1.5	23 ± 2.3	15 ± 0.6	19 ± 2.4
1000.0	13 ± 1.2	12 ± 0.9	15 ± 1.5	13 ± 1.8	23 ± 2.7
3333.0	12 ± 0.3	10 ± 2.5 <sup>s</sup>	14 ± 3.2	14 ± 1.3	13 ± 0.9
10000.0	0 ± 0.0 <sup>x</sup>		9 ± 1.5 <sup>p</sup>	12 ± 0.6 <sup>p</sup>	2 ± 2.0 <sup>x</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			529 ± 38.2		2131 ± 60.2
Positive Control <sup>5</sup>				213 ± 10.8	
Positive Control <sup>8</sup>	77 ± 4.4	73 ± 6.0			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 0.7
33.0	
100.0	16 ± 1.7
333.0	14 ± 0.6
1000.0	14 ± 0.9
3333.0	13 ± 1.5
10000.0	15 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>5</sup>	573 ± 40.4
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: 0.4 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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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