

Experiment Number: **110970**

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

**G06: Ames Summary Data**

Test Compound: **Zineb**

CAS Number: **12122-67-7**

Date Report Requested: **09/11/2018**

Time Report Requested: **19:37:54**

**NTP Study Number:**

110970

**Study Result:**

Negative

Experiment Number: 110970

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Zineb  
CAS Number: 12122-67-7

Date Report Requested: 09/11/2018

Time Report Requested: 19:37:54

## 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>	92 ± 7.8	123 ± 10.2	110 ± 3.0	118 ± 6.7	112 ± 6.7
1.0		124 ± 2.0			
3.3		123 ± 11.6			
10.0	99 ± 13.8	112 ± 9.3			
33.0	95 ± 5.8	96 ± 3.5		117 ± 8.0	
100.0	82 ± 5.6 <sup>s</sup>	87 ± 9.2	102 ± 9.0	102 ± 8.3	101 ± 4.6
333.0	Toxic		84 ± 3.0	103 ± 12.6	81 ± 2.2
667.0	Toxic				
1000.0			77 ± 5.5	95 ± 6.2	69 ± 4.6
3333.0			46 ± 8.0	90 ± 4.3	28 ± 12.0
6666.0			27 ± 15.9 <sup>p</sup>		17 ± 10.1 <sup>x</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1052 ± 1.9
Positive Control <sup>3</sup>			1013 ± 15.1		
Positive Control <sup>4</sup>				702 ± 12.2	
Positive Control <sup>5</sup>	703 ± 47.6	1644 ± 21.7			

Experiment Number: 110970  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
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Date Report Requested: 09/11/2018  
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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	106 ± 13.5
1.0	
3.3	
10.0	
33.0	110 ± 7.5
100.0	92 ± 5.8
333.0	79 ± 3.1
667.0	
1000.0	81 ± 5.7
3333.0	83 ± 4.6
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1631 ± 60.2
Positive Control <sup>5</sup>	

Experiment Number: 110970

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

Test Compound: Zineb  
CAS Number: 12122-67-7

Date Report Requested: 09/11/2018

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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 ± 1.0	44 ± 1.8	10 ± 1.7	15 ± 0.9	12 ± 0.3
1.0		35 ± 4.8			
3.3		35 ± 2.8			
10.0	15 ± 3.9	35 ± 3.8			
33.0	13 ± 1.9	33 ± 0.9		14 ± 1.9	
100.0	11 ± 1.7	23 ± 2.0	9 ± 1.5	12 ± 0.9	9 ± 1.9
333.0	3 ± 1.2 <sup>s</sup>		9 ± 2.8	11 ± 2.9	10 ± 1.3
667.0	Toxic				
1000.0			8 ± 1.5	9 ± 1.2	8 ± 2.6
3333.0			2 ± 0.6	8 ± 2.3	3 ± 1.2
6666.0			4 ± 0.9 <sup>p</sup>		3 ± 0.6 <sup>x</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					94 ± 3.8
Positive Control <sup>3</sup>			106 ± 11.1		
Positive Control <sup>4</sup>				158 ± 12.1	
Positive Control <sup>5</sup>	595 ± 24.2	1302 ± 34.8			

Experiment Number: 110970  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Zineb  
CAS Number: 12122-67-7

Date Report Requested: 09/11/2018  
Time Report Requested: 19:37:54

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 1.5
1.0	
3.3	
10.0	
33.0	7 ± 0.3
100.0	8 ± 1.2
333.0	8 ± 1.7
667.0	
1000.0	12 ± 1.5
3333.0	9 ± 1.9
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	701 ± 22.1
Positive Control <sup>5</sup>	

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G06: Ames Summary Data  
 Test Compound: Zineb  
 CAS Number: 12122-67-7

Date Report Requested: 09/11/2018  
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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>	112 ± 11.5	115 ± 13.1	155 ± 3.5	134 ± 9.4	150 ± 2.3
1.0		103 ± 1.5			
3.3		94 ± 6.1			
10.0	90 ± 4.4	90 ± 2.8			
33.0	86 ± 5.8	87 ± 3.3		153 ± 2.0	
100.0	66 ± 1.0	74 ± 3.7	144 ± 11.0	114 ± 3.0	130 ± 5.8
333.0	Toxic		110 ± 11.1	122 ± 9.2	102 ± 13.2
667.0	Toxic				
1000.0			84 ± 7.5	103 ± 2.2	79 ± 6.7
3333.0			22 ± 11.3 <sup>x</sup>	77 ± 7.6	18 ± 5.4 <sup>x</sup>
6666.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					733 ± 3.7
Positive Control <sup>3</sup>			1026 ± 32.0		
Positive Control <sup>4</sup>				504 ± 41.6	
Positive Control <sup>6</sup>	450 ± 27.7	752 ± 35.3			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	142 ± 5.4
1.0	
3.3	
10.0	
33.0	141 ± 7.0
100.0	132 ± 3.2
333.0	88 ± 2.6
667.0	
1000.0	103 ± 9.9
3333.0	102 ± 8.5
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1124 ± 26.9
Positive Control <sup>6</sup>	

Experiment Number: 110970

## G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Zineb

Time Report Requested: 19:37:54

CAS Number: 12122-67-7

## 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>	10 ± 1.2	16 ± 2.3	30 ± 2.0	30 ± 2.5	33 ± 4.5
1.0		16 ± 4.6			
3.3		14 ± 3.0			
10.0	17 ± 0.7	16 ± 2.4			
33.0	11 ± 1.5	12 ± 2.0		34 ± 3.9	
100.0	13 ± 2.7	9 ± 2.1	28 ± 1.2	30 ± 1.8	29 ± 5.4
333.0	5 ± 1.2		28 ± 5.6	24 ± 0.7	26 ± 1.2
667.0	Toxic				
1000.0			12 ± 0.6	23 ± 2.4	15 ± 2.9
3333.0			4 ± 1.2	12 ± 2.1	3 ± 0.6
6666.0			1 ± 0.6 <sup>P</sup>		0 ± 0.3 <sup>X</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1031 ± 25.7
Positive Control <sup>3</sup>			1082 ± 34.2		
Positive Control <sup>4</sup>				738 ± 30.3	
Positive Control <sup>7</sup>	1267 ± 24.3	1797 ± 29.8			



Experiment Number: 110970  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Zineb  
CAS Number: 12122-67-7

Date Report Requested: 09/11/2018  
Time Report Requested: 19:37:54

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 0.6
1.0	
3.3	
10.0	
33.0	30 ± 6.4
100.0	21 ± 1.9
333.0	24 ± 4.8
667.0	
1000.0	12 ± 1.2
3333.0	10 ± 1.5
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1779 ± 33.7
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

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

\*\* END OF REPORT \*\*