

Experiment Number: 053040

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Zinc pyrithione

CAS Number: 13463-41-7

Date Report Requested: 09/15/2018

Time Report Requested: 02:43:29

**NTP Study Number:**

053040

**Study Result:**

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	134 ± 7.3	122 ± 7.4	176 ± 4.3	161 ± 4.7	178 ± 9.0
0.3	109 ± 8.1	100 ± 0.6	159 ± 5.8	155 ± 4.3	179 ± 2.1
1.0	112 ± 5.5	116 ± 4.7	148 ± 15.4	133 ± 5.8	162 ± 8.8
3.0	101 ± 3.5	128 ± 9.6	162 ± 6.4	155 ± 7.0	145 ± 7.0
10.0	99 ± 6.9	102 ± 6.3	143 ± 8.1	137 ± 3.0	148 ± 11.6
33.0	68 ± 10.7	139 ± 12.3	100 ± 5.4	139 ± 9.6	87 ± 24.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1468 ± 152.6	1799 ± 65.3	1740 ± 159.2
Positive Control <sup>3</sup>	1058 ± 172.1	355 ± 40.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	188 ± 3.2
0.3	160 ± 12.0
1.0	161 ± 10.8
3.0	164 ± 4.5
10.0	163 ± 12.3
33.0	178 ± 6.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1002 ± 57.7
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Zinc pyrithione

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 0.9	8 ± 1.8	21 ± 0.9	16 ± 0.3	19 ± 2.0
0.1				15 ± 1.7	
0.3	28 ± 0.3	6 ± 1.7	17 ± 1.5	12 ± 1.9	18 ± 1.3
1.0	29 ± 2.3	11 ± 0.7	23 ± 2.7	13 ± 1.5	20 ± 1.9
3.0	18 ± 3.8	6 ± 1.0	21 ± 0.3	12 ± 0.9	18 ± 1.2
10.0	14 ± 3.3	11 ± 2.3	17 ± 1.7	13 ± 1.2	16 ± 1.8
33.0	Toxic	0 ± 0.0	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			222 ± 15.7	98 ± 0.7	418 ± 24.6
Positive Control <sup>3</sup>	1264 ± 245.1	379 ± 18.7			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.1
0.1	13 ± 1.5
0.3	13 ± 1.5
1.0	13 ± 2.0
3.0	11 ± 2.0
10.0	8 ± 0.9
33.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	113 ± 3.7
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Zinc pyriothione

CAS Number: 13463-41-7

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	15 ± 3.1	5 ± 0.3	16 ± 3.7	22 ± 1.9	12 ± 2.0
0.03			16 ± 0.9		
0.1		7 ± 1.5	16 ± 1.8		
0.3	16 ± 0.9	9 ± 0.6	11 ± 1.2	27 ± 0.9	11 ± 2.2
1.0	14 ± 1.9	6 ± 1.0	6 ± 0.9	27 ± 1.2	12 ± 0.9
3.0	8 ± 0.9	Toxic	Toxic	29 ± 2.8	9 ± 1.0
10.0	Toxic	Toxic	Toxic	22 ± 1.2	13 ± 1.2
33.0	Toxic			2 ± 1.0	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				393 ± 45.5	271 ± 6.4
Positive Control <sup>5</sup>	984 ± 55.2				
Positive Control <sup>6</sup>		146 ± 25.9	935 ± 55.3		

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Test Compound: Zinc pyrithione

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 1.2	8 ± 1.5
0.03		
0.1		
0.3	19 ± 3.0	11 ± 0.6
1.0	19 ± 4.6	10 ± 1.2
3.0	15 ± 3.2	8 ± 2.0
10.0	12 ± 1.5	11 ± 1.5
33.0	0 ± 0.3	9 ± 2.3
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	209 ± 28.6	206 ± 12.3
Positive Control <sup>5</sup>		
Positive Control <sup>6</sup>		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	37 ± 3.4	26 ± 2.8	37 ± 2.7	22 ± 4.6	47 ± 2.3
0.3	38 ± 5.2	20 ± 3.0	41 ± 2.6	22 ± 2.4	40 ± 7.4
1.0	23 ± 2.9	26 ± 1.7	29 ± 2.2	16 ± 1.8	35 ± 3.2
3.0	26 ± 2.1	16 ± 3.5	34 ± 2.8	14 ± 1.2	35 ± 6.3
10.0	20 ± 2.6	22 ± 1.8	38 ± 1.2	20 ± 1.3	32 ± 2.0
33.0	17 ± 1.5	13 ± 2.7	23 ± 2.9	16 ± 4.5	18 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			636 ± 59.0	1368 ± 123.5	692 ± 85.2
Positive Control <sup>7</sup>	171 ± 11.0	228 ± 11.2			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 4.7
0.3	32 ± 4.8
1.0	24 ± 2.7
3.0	25 ± 2.8
10.0	28 ± 2.2
33.0	29 ± 3.7
Trial Summary	Negative
Positive Control <sup>2</sup>	622 ± 68.5
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 3.3 ug/Plate 9-Aminoacridine

6: 33.0 ug/Plate 9-Aminoacridine

7: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*