

Experiment Number: 914423

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

**G06: Ames Summary Data**

Test Compound: **Piperonyl sulfoxide**

CAS Number: **120-62-7**

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

Time Report Requested: **02:24:20**

**NTP Study Number:**

914423

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Piperonyl sulfoxide

CAS Number: 120-62-7

Date Report Requested: 09/17/2018

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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>	167 ± 11.6	124 ± 11.2	235 ± 11.0	178 ± 27.9	227 ± 14.3
100.0	134 ± 5.8	89 ± 6.1	271 ± 4.3	195 ± 5.2	215 ± 4.5
333.0	Toxic	79 ± 2.5	248 ± 3.5	168 ± 16.5	157 ± 3.0
1000.0	Toxic	75 ± 2.3	234 ± 7.7	176 ± 3.0	193 ± 0.9
3333.0	Toxic	80 ± 7.7	232 ± 5.6	168 ± 3.8	225 ± 4.7
10000.0	Toxic	Toxic	206 ± 5.5	140 ± 7.8	201 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1322 ± 58.6	760 ± 85.5	3105 ± 20.3
Positive Control <sup>3</sup>	634 ± 40.5	498 ± 47.9			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	168 ± 17.1
100.0	161 ± 2.0
333.0	132 ± 11.3
1000.0	162 ± 10.7
3333.0	140 ± 16.3
10000.0	134 ± 7.0
Trial Summary	Negative
Positive Control <sup>2</sup>	1431 ± 214.3
Positive Control <sup>3</sup>	

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Test Compound: Piperonyl sulfoxide

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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>	6 ± 1.8	5 ± 0.6	7 ± 0.7	5 ± 1.2	8 ± 0.9
3.3		2 ± 0.3			
10.0		3 ± 0.3			
33.0		2 ± 0.6			
100.0	3 ± 0.3	2 ± 1.0	9 ± 0.3	3 ± 2.1	6 ± 0.9
333.0	Toxic	Toxic	2 ± 0.3	6 ± 4.0	3 ± 1.2
1000.0	5 ± 1.2		10 ± 2.3	6 ± 1.2	8 ± 0.9
3333.0	6 ± 0.6		7 ± 2.6	3 ± 0.9	9 ± 0.9
10000.0	5 ± 0.9		8 ± 0.9	2 ± 0.9	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			41 ± 1.9	53 ± 4.8	105 ± 5.8
Positive Control <sup>3</sup>	176 ± 13.9	367 ± 14.3			

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Test Compound: Piperonyl sulfoxide

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 0.7
3.3	
10.0	
33.0	
100.0	7 ± 0.7
333.0	3 ± 0.9
1000.0	4 ± 1.7
3333.0	6 ± 1.2
10000.0	3 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	121 ± 9.8
Positive Control <sup>3</sup>	

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

Test Compound: Piperonyl sulfoxide

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.9	5 ± 0.7	8 ± 1.2	9 ± 0.3	5 ± 1.3
3.3		7 ± 0.7		9 ± 0.6	
10.0		7 ± 0.3		10 ± 0.0	
33.0		8 ± 0.7		9 ± 0.3	
100.0	Toxic	6 ± 1.9	8 ± 0.6	10 ± 0.3	5 ± 0.6
333.0	Toxic	5 ± 2.3	Toxic	11 ± 1.8	Toxic
1000.0	Toxic		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
10000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			83 ± 5.3	195 ± 20.6	492 ± 51.6
Positive Control <sup>4</sup>	299 ± 16.0	878 ± 34.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.8
3.3	11 ± 0.6
10.0	9 ± 0.6
33.0	10 ± 0.6
100.0	10 ± 1.9
333.0	12 ± 3.8
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	869 ± 158.5
Positive Control <sup>4</sup>	

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Test Compound: Piperonyl sulfoxide

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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>	17 ± 3.3	19 ± 1.9	25 ± 1.5	23 ± 0.9	24 ± 2.4
100.0	13 ± 0.9	12 ± 1.7	33 ± 0.9	27 ± 2.0	18 ± 0.7
333.0	14 ± 2.0	17 ± 1.3	31 ± 0.7	26 ± 1.8	19 ± 1.0
1000.0	8 ± 0.3	10 ± 1.2	24 ± 2.6	20 ± 1.2	20 ± 3.0
3333.0	9 ± 1.5	10 ± 0.6	17 ± 1.5	20 ± 2.3	16 ± 1.0
10000.0	10 ± 2.0	7 ± 2.3	16 ± 3.2	19 ± 2.1	19 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			536 ± 77.7	466 ± 45.2	2249 ± 112.8
Positive Control <sup>5</sup>	339 ± 14.6	350 ± 26.0			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	24 ± 2.6
100.0	23 ± 2.5
333.0	21 ± 1.2
1000.0	21 ± 3.1
3333.0	19 ± 1.8
10000.0	19 ± 1.3
Trial Summary	Negative
Positive Control <sup>2</sup>	1712 ± 122.1
Positive Control <sup>5</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: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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