

Experiment Number: 408225

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

G06: Ames Summary Data

Test Compound: **Piperonyl butoxide**

CAS Number: 51-03-6

Date Report Requested: **09/14/2018**

Time Report Requested: **22:51:34**

NTP Study Number:

408225

Study Result:

Negative

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Test Compound: Piperonyl butoxide

CAS Number: 51-03-6

Date Report Requested: 09/14/2018

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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 ¹	137 ± 5.9	107 ± 3.6	122 ± 5.8	115 ± 4.8	127 ± 6.6
100.0	147 ± 9.0	103 ± 8.1	140 ± 16.8	132 ± 8.5	149 ± 12.4
333.0	123 ± 5.2	115 ± 8.1	130 ± 11.0	140 ± 2.0	130 ± 11.0
1000.0	130 ± 7.4	104 ± 1.9	139 ± 4.2	137 ± 13.4	114 ± 5.1
3333.0	134 ± 10.3	110 ± 3.1	165 ± 4.7	128 ± 11.6	123 ± 7.3
10000.0	122 ± 10.3 ^p	136 ± 4.1 ^p	162 ± 5.7 ^p	134 ± 8.9 ^p	124 ± 10.8 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	540 ± 17.5	505 ± 4.7			
Positive Control ³			1565 ± 145.8	1059 ± 48.3	2374 ± 52.6

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	82 ± 4.2
100.0	91 ± 8.5
333.0	106 ± 7.4
1000.0	99 ± 3.0
3333.0	97 ± 7.4
10000.0	109 ± 10.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	495 ± 16.8

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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 ¹	23 ± 3.5	16 ± 1.9	12 ± 2.0	5 ± 1.5	9 ± 1.7
100.0	21 ± 2.3	13 ± 2.7	12 ± 2.0	10 ± 3.5	13 ± 2.6
333.0	16 ± 0.9	20 ± 4.9	7 ± 0.9	8 ± 1.9	8 ± 3.5
1000.0	17 ± 1.2	14 ± 2.7	9 ± 2.5	8 ± 0.3	10 ± 2.2
3333.0	21 ± 3.2	15 ± 1.2	6 ± 0.7	10 ± 1.5	9 ± 1.9
10000.0	20 ± 4.5 ^p	18 ± 0.3 ^p	7 ± 0.9 ^p	9 ± 0.9 ^p	9 ± 2.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	550 ± 11.3	460 ± 15.8			
Positive Control ⁴			104 ± 9.2	338 ± 29.0	574 ± 24.2

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Test Compound: Piperonyl butoxide

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Date Report Requested: 09/14/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.8
100.0	10 ± 2.2
333.0	6 ± 0.3
1000.0	10 ± 1.2
3333.0	6 ± 1.3
10000.0	10 ± 0.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	566 ± 13.8

Experiment Number: 408225

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Test Compound: Piperonyl butoxide

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Date Report Requested: 09/14/2018

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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 ¹	6 ± 0.3	5 ± 1.0	7 ± 0.3	7 ± 0.3	10 ± 2.7
100.0	9 ± 0.3	6 ± 0.0	9 ± 2.3	8 ± 0.6	8 ± 0.6
333.0	5 ± 1.5	5 ± 1.2	6 ± 1.7	8 ± 0.7	9 ± 2.3
1000.0	5 ± 1.7	6 ± 0.9	8 ± 0.7	9 ± 2.0	6 ± 0.7
3333.0	6 ± 0.9	5 ± 1.0	13 ± 1.0	10 ± 1.7	10 ± 1.5
10000.0	7 ± 0.6 ^p	7 ± 0.7 ^p	9 ± 1.2 ^p	10 ± 3.8 ^p	6 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			40 ± 0.3	218 ± 9.0	435 ± 24.6
Positive Control ⁵	373 ± 48.8	139 ± 17.9			

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Test Compound: Piperonyl butoxide

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Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9
100.0	6 ± 0.6
333.0	7 ± 1.5
1000.0	5 ± 0.9
3333.0	6 ± 0.9
10000.0	8 ± 0.3 ^p
Trial Summary	Negative
Positive Control ⁴	379 ± 29.3
Positive Control ⁵	

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Test Compound: Piperonyl butoxide

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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 ¹	35 ± 2.8	29 ± 4.6	40 ± 1.3	34 ± 4.3	55 ± 6.4
100.0	26 ± 4.4	30 ± 5.7	56 ± 3.3	46 ± 3.3	52 ± 3.4
333.0	24 ± 2.6	30 ± 1.2	47 ± 3.7	42 ± 0.9	45 ± 4.4
1000.0	25 ± 5.0	27 ± 1.2	48 ± 6.0	31 ± 6.7	50 ± 1.5
3333.0	24 ± 4.7	25 ± 2.0	42 ± 5.5	31 ± 3.8	37 ± 3.2
10000.0	29 ± 5.6 ^p	28 ± 1.9 ^p	45 ± 3.1 ^p	38 ± 0.6 ^p	36 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			1192 ± 104.2	927 ± 43.5	2082 ± 34.3
Positive Control ⁶	945 ± 30.9	900 ± 17.3			

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Test Compound: Piperonyl butoxide

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.9
100.0	36 ± 5.8
333.0	36 ± 2.6
1000.0	28 ± 1.2
3333.0	25 ± 4.8
10000.0	33 ± 3.2 ^P
Trial Summary	Negative
Positive Control ³	1972 ± 56.5
Positive Control ⁶	

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LEGEND

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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****