

Experiment Number: 287791

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

G06: Ames Summary Data

Test Compound: **Piperonal**

CAS Number: **120-57-0**

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

Time Report Requested: **20:39:19**

NTP Study Number:

287791

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 ¹	77 ± 2.3	104 ± 12.3	119 ± 3.5	144 ± 11.3	107 ± 5.9
10.0	75 ± 4.1	111 ± 5.2	120 ± 9.8	151 ± 3.9	125 ± 5.3
33.0	73 ± 3.3	115 ± 9.0	116 ± 8.0	143 ± 12.7	120 ± 14.7
100.0	64 ± 1.2	126 ± 0.7	91 ± 14.2	157 ± 2.5	115 ± 2.3
333.0	61 ± 1.5	123 ± 1.5	102 ± 7.0	165 ± 21.9	115 ± 9.4
1000.0	59 ± 2.9	119 ± 3.5	110 ± 3.6	165 ± 16.2	124 ± 9.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			425 ± 35.3	467 ± 70.3	960 ± 119.6
Positive Control ³	435 ± 12.2	517 ± 33.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	163 ± 22.2
10.0	181 ± 5.5
33.0	175 ± 9.6
100.0	173 ± 4.4
333.0	178 ± 9.1
1000.0	192 ± 2.5
Trial Summary	Negative
Positive Control ²	845 ± 113.4
Positive Control ³	

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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	4 ± 1.2	14 ± 1.2	4 ± 0.3	16 ± 4.5	9 ± 1.0
10.0	6 ± 1.9	17 ± 1.2	3 ± 1.3	13 ± 2.4	14 ± 1.5
33.0	8 ± 1.8	16 ± 1.9	8 ± 4.5	18 ± 1.5	12 ± 2.2
100.0	11 ± 1.2	16 ± 2.9	9 ± 2.0	12 ± 1.3	14 ± 2.3
333.0	12 ± 3.0	13 ± 0.6	7 ± 0.0	21 ± 2.7	11 ± 1.2
1000.0	8 ± 2.3	18 ± 2.0	8 ± 1.7	15 ± 2.6	15 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			32 ± 1.7	33 ± 6.9	101 ± 19.1
Positive Control ³	171 ± 12.9	505 ± 7.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.2
10.0	24 ± 6.1
33.0	22 ± 1.3
100.0	20 ± 3.2
333.0	24 ± 1.5
1000.0	20 ± 4.2
Trial Summary	Negative
Positive Control ²	76 ± 9.4
Positive Control ³	

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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	3 ± 0.7	4 ± 0.7	4 ± 0.9	8 ± 2.7	8 ± 0.7
10.0	5 ± 1.2	4 ± 0.9	3 ± 1.0	7 ± 1.2	7 ± 1.5
33.0	6 ± 0.9	6 ± 0.6	5 ± 1.8	8 ± 1.9	7 ± 1.5
100.0	6 ± 0.6	7 ± 1.5	4 ± 0.7	12 ± 2.0	9 ± 1.0
333.0	5 ± 2.2	5 ± 1.0	7 ± 0.6	11 ± 1.7	9 ± 1.5
1000.0	5 ± 1.5	7 ± 1.3	6 ± 1.2	12 ± 0.3	9 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			46 ± 15.1	25 ± 1.0	56 ± 13.7
Positive Control ⁴	113 ± 7.8	861 ± 20.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
10.0	12 ± 2.3
33.0	13 ± 5.8
100.0	12 ± 0.3
333.0	10 ± 0.9
1000.0	13 ± 1.5
Trial Summary	Negative
Positive Control ²	40 ± 2.2
Positive Control ⁴	

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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	14 ± 2.4	18 ± 2.6	18 ± 2.8	26 ± 4.0	28 ± 5.2
10.0	13 ± 0.6	21 ± 4.2	24 ± 1.5	33 ± 1.7	29 ± 9.0
33.0	13 ± 1.7	17 ± 1.5	24 ± 5.2	41 ± 5.5	33 ± 1.2
100.0	8 ± 2.4	12 ± 1.9	21 ± 4.5	44 ± 7.0	29 ± 2.6
333.0	11 ± 1.8	21 ± 7.0	19 ± 2.9	46 ± 9.7	27 ± 1.5
1000.0	11 ± 1.3	16 ± 2.0	19 ± 2.6	41 ± 7.0	22 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			394 ± 81.2	669 ± 43.6	629 ± 4.6
Positive Control ⁵	226 ± 7.7	303 ± 23.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 1.7
10.0	24 ± 2.2
33.0	28 ± 1.7
100.0	27 ± 1.7
333.0	28 ± 1.7
1000.0	26 ± 3.2
Trial Summary	Negative
Positive Control ²	668 ± 24.1
Positive Control ⁵	

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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 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 ****