

Experiment Number: A18234

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Piperonal

CAS Number: 120-57-0

Date Report Requested: 09/16/2018

Time Report Requested: 02:32:13

NTP Study Number:

A18234

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	135 ± 2.2	137 ± 7.0	120 ± 60.5
33.0	116 ± 3.2	147 ± 9.8	170 ± 13.6
100.0	123 ± 22.5	156 ± 6.4	173 ± 13.3
333.0	133 ± 1.5	155 ± 3.7	177 ± 3.0
1000.0	140 ± 6.6	159 ± 1.0	191 ± 12.9
3333.0	50 ± 25.7 ^s	61 ± 31.2 ^s	159 ± 14.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	365 ± 12.5		
Positive Control ³			386 ± 9.0
Positive Control ⁴		952 ± 96.1	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 4.2	9 ± 1.2	7 ± 1.5
33.0	14 ± 1.8	9 ± 2.2	11 ± 1.0
100.0	14 ± 0.0	9 ± 0.7	10 ± 0.3
333.0	12 ± 3.8	9 ± 1.3	16 ± 1.9
1000.0	10 ± 1.2	10 ± 2.9	14 ± 0.0
3333.0	6 ± 2.9 ^s	19 ± 4.8	14 ± 1.8
Trial Summary	Negative	Negative	Negative
Positive Control ²	330 ± 21.9		
Positive Control ³			116 ± 6.7
Positive Control ⁴		217 ± 8.1	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	162 ± 11.8	111 ± 3.0	205 ± 8.0	140 ± 16.7	172 ± 8.6
33.0	161 ± 8.4	120 ± 7.4	209 ± 16.3	147 ± 8.2	183 ± 3.9
100.0	166 ± 7.3	142 ± 10.4	199 ± 5.7	223 ± 7.2	167 ± 1.9
333.0	220 ± 0.3	155 ± 9.2	208 ± 15.4	189 ± 20.8	163 ± 2.4
1000.0	322 ± 1.9	290 ± 8.2	251 ± 6.8	207 ± 0.9	178 ± 9.9
2000.0		261 ± 26.6			
3333.0	Toxic		228 ± 76.9	253 ± 7.7	248 ± 19.8
10000.0					
Trial Summary	Positive	Positive	Negative	Weakly Positive	Equivocal
Positive Control ⁴			528 ± 36.0	543 ± 3.8	662 ± 126.5
Positive Control ⁵	421 ± 15.3	323 ± 23.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	134 ± 12.2
33.0	
100.0	130 ± 6.2
333.0	136 ± 11.4
1000.0	141 ± 7.6
2000.0	
3333.0	228 ± 25.9
10000.0	160 ± 24.0 ^s
Trial Summary	Equivocal
Positive Control ⁴	1079 ± 37.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5	21 ± 2.9	21 ± 2.6
33.0	10 ± 1.2	22 ± 3.3	14 ± 3.2
100.0	14 ± 1.2	17 ± 1.5	17 ± 1.9
333.0	15 ± 1.3	15 ± 0.7	18 ± 3.3
1000.0	19 ± 2.0	21 ± 5.5	20 ± 3.5
3333.0	6 ± 5.5 ^s	11 ± 2.3 ^s	8 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³		151 ± 28.6	152 ± 15.3
Positive Control ⁶	91 ± 6.0		

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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: 0.5 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 24.0 ug/Plate 9-Aminoacridine
- 6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **