

Experiment Number: 901869

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Papaverine hydrochloride

CAS Number: 61-25-6

Date Report Requested: 09/16/2018

Time Report Requested: 23:13:29

NTP Study Number:

901869

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	110 ± 2.0	208 ± 6.5	90 ± 5.0	155 ± 5.5	234 ± 4.5
33.0		210 ± 37.4	73 ± 2.5		227 ± 8.4
100.0	97 ± 12.0	164 ± 6.0	91 ± 4.1	167 ± 3.5	202 ± 14.7
333.0	97 ± 2.7	100 ± 11.5	96 ± 10.6	149 ± 3.2	201 ± 8.2
1000.0	112 ± 5.9	106 ± 17.1	84 ± 5.9 ^P	138 ± 5.2	192 ± 6.0
3333.0	Toxic	93 ± 18.7 ^P	90 ± 3.4 ^P	Toxic	101 ± 8.1 ^P
10000.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				942 ± 39.4	2340 ± 130.5
Positive Control ³	1379 ± 75.2	641 ± 64.7	1474 ± 52.6		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	124 ± 5.5	169 ± 13.7	264 ± 19.1	125 ± 2.9
33.0	132 ± 9.4		280 ± 8.1	95 ± 10.3
100.0	130 ± 6.2	156 ± 7.2	281 ± 13.8	100 ± 6.5
333.0	124 ± 8.8	140 ± 5.7	236 ± 9.5	114 ± 14.2
1000.0	141 ± 2.0 ^P	136 ± 5.5	203 ± 9.0	142 ± 2.6 ^P
3333.0	137 ± 9.5 ^P	Toxic	124 ± 12.7 ^P	132 ± 6.7 ^P
10000.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	2460 ± 86.0	1039 ± 38.2	1090 ± 173.6	1626 ± 36.5
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 2.0	10 ± 0.9	17 ± 2.3	15 ± 0.7	8 ± 1.7
33.0		7 ± 2.6	17 ± 3.2		12 ± 1.2
100.0	13 ± 1.9	12 ± 2.5	17 ± 2.3	15 ± 4.4	8 ± 2.0
333.0	13 ± 2.2	8 ± 1.8	13 ± 2.8	13 ± 0.9	9 ± 2.7
1000.0	3 ± 0.9	4 ± 1.5 ^P	14 ± 4.7 ^P	11 ± 4.1	5 ± 2.1 ^P
3333.0	Toxic	3 ± 0.7 ^P	9 ± 2.3 ^P	Toxic	5 ± 0.6 ^P
10000.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				132 ± 2.5	89 ± 5.0
Positive Control ³	1123 ± 26.3	224 ± 17.8	1215 ± 91.4		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.9	17 ± 2.0	11 ± 2.7	14 ± 1.0
33.0	13 ± 0.6		11 ± 2.7	18 ± 1.2
100.0	13 ± 1.8	13 ± 1.0	9 ± 1.2	13 ± 1.9
333.0	14 ± 0.9	13 ± 1.2	8 ± 0.6	11 ± 1.9
1000.0	13 ± 1.2 ^p	10 ± 3.5	3 ± 0.6 ^p	18 ± 2.9 ^p
3333.0	10 ± 0.9 ^p	Toxic	5 ± 0.9 ^p	6 ± 1.8 ^p
10000.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	357 ± 16.5	151 ± 6.5	97 ± 10.8	569 ± 5.2
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% Rat S9
Vehicle Control ¹	7 ± 1.5	8 ± 1.5	14 ± 1.7	9 ± 2.1	16 ± 1.5
10.0	7 ± 1.2	9 ± 1.2			
33.0	6 ± 0.9	6 ± 1.5		8 ± 1.7	12 ± 0.9
100.0	4 ± 0.7	8 ± 0.3	12 ± 0.9	7 ± 0.6	17 ± 1.7
333.0	2 ± 0.9 ^P	10 ± 0.3	12 ± 1.2	8 ± 0.7	12 ± 4.0
1000.0	1 ± 0.6 ^P	4 ± 1.5 ^P	15 ± 1.2	2 ± 0.3 ^P	12 ± 1.5 ^P
3333.0			Toxic	2 ± 0.3 ^P	6 ± 1.5 ^P
10000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			242 ± 14.1	81 ± 8.4	365 ± 11.9
Positive Control ⁵	1024 ± 464.3	347 ± 92.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2	9 ± 1.7	16 ± 0.3
10.0			
33.0		5 ± 0.3	13 ± 3.7
100.0	15 ± 0.9	5 ± 1.5	14 ± 2.6
333.0	16 ± 2.2	7 ± 1.9	13 ± 2.9
1000.0	12 ± 0.9	1 ± 0.3 ^p	12 ± 1.5 ^p
3333.0	Toxic	0 ± 0.3 ^p	8 ± 1.2 ^p
10000.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	270 ± 31.9	110 ± 19.6	406 ± 16.2
Positive Control ⁵			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 2.4	12 ± 1.5	24 ± 3.4	33 ± 1.5	23 ± 2.0
33.0		12 ± 0.9	16 ± 3.7		22 ± 3.8
100.0	25 ± 1.8	12 ± 0.6	24 ± 1.5	27 ± 3.5	19 ± 1.7
333.0	24 ± 2.1	10 ± 0.7	27 ± 5.7	24 ± 2.2	13 ± 1.5
1000.0	29 ± 3.2	10 ± 1.2	24 ± 4.3 ^p	29 ± 2.7	20 ± 0.9
3333.0	Toxic	7 ± 1.2 ^p	21 ± 1.2 ^p	Toxic	11 ± 2.1 ^p
10000.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				351 ± 22.4	1658 ± 58.0
Positive Control ⁶	196 ± 9.6	420 ± 48.4	426 ± 3.8		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.6	35 ± 2.0	22 ± 3.0	23 ± 2.1
33.0	23 ± 1.9		28 ± 1.2	31 ± 2.6
100.0	24 ± 2.6	30 ± 2.4	23 ± 2.0	39 ± 5.1
333.0	25 ± 1.7	25 ± 5.6	14 ± 4.4	25 ± 5.5
1000.0	28 ± 4.9 ^P	29 ± 1.2	13 ± 1.2	24 ± 0.3 ^P
3333.0	21 ± 1.9 ^P	Toxic	8 ± 0.9 ^P	19 ± 5.0 ^P
10000.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	1900 ± 131.4	755 ± 153.6	635 ± 36.0	1516 ± 57.5
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****