

Experiment Number: 907250

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Scopolamine hydrobromide trihydrate

CAS Number: 6533-68-2

Date Report Requested: 09/17/2018

Time Report Requested: 01:28:17

NTP Study Number:

907250

Study Result:

Negative

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Test Compound: Scopolamine hydrobromide trihydrate
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Date Report Requested: 09/17/2018
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 6.4	102 ± 7.8	101 ± 9.0	108 ± 8.4	87 ± 8.1
100.0	117 ± 17.5	95 ± 8.8	90 ± 3.2	106 ± 4.7	90 ± 2.6
333.0	100 ± 4.6	94 ± 2.3	91 ± 3.6	105 ± 3.3	101 ± 7.5
1000.0	87 ± 6.1	108 ± 2.4	Toxic	86 ± 2.7	90 ± 7.4
3333.0	90 ± 10.0	96 ± 4.3	94 ± 8.5	113 ± 4.4	98 ± 7.3
10000.0	98 ± 34.0	94 ± 8.0	83 ± 2.6	107 ± 4.7	85 ± 5.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					283 ± 11.6
Positive Control ³	281 ± 11.8	569 ± 21.2			
Positive Control ⁴			309 ± 1.5		
Positive Control ⁵					
Positive Control ⁶				294 ± 9.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	101 ± 4.8
100.0	106 ± 5.8
333.0	105 ± 4.6
1000.0	107 ± 7.2
3333.0	122 ± 6.7
10000.0	97 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	426 ± 4.7
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.3	27 ± 0.3	9 ± 3.5	15 ± 2.3	11 ± 0.7
100.0	19 ± 2.6	35 ± 4.2	9 ± 1.2	13 ± 1.5	13 ± 3.5
333.0	21 ± 4.8	33 ± 2.3	11 ± 0.9	12 ± 1.9	12 ± 2.3
1000.0	21 ± 5.2	30 ± 1.5	10 ± 0.9	12 ± 1.5	10 ± 1.7
3333.0	28 ± 1.5	29 ± 6.0	14 ± 2.2	12 ± 1.9	13 ± 1.3
10000.0	23 ± 1.9	36 ± 6.0	12 ± 1.3	12 ± 0.3	9 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷		369 ± 6.7			
Positive Control ²					68 ± 4.5
Positive Control ³	307 ± 8.2				
Positive Control ⁵					
Positive Control ⁶			202 ± 9.5	69 ± 0.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.1
100.0	12 ± 2.0
333.0	11 ± 0.9
1000.0	8 ± 0.7
3333.0	13 ± 0.7
10000.0	9 ± 1.5
Trial Summary	Negative
Positive Control ⁷	
Positive Control ²	
Positive Control ³	
Positive Control ⁵	96 ± 12.4
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	19 ± 2.7	21 ± 2.8	8 ± 1.0	21 ± 2.3
100.0	8 ± 2.0	20 ± 4.2	19 ± 1.3	5 ± 2.2	18 ± 1.7
333.0	5 ± 0.3	18 ± 0.9	25 ± 0.7	6 ± 1.5	23 ± 2.0
1000.0	4 ± 1.8	21 ± 2.7	20 ± 2.0	8 ± 1.5	20 ± 1.9
3333.0	7 ± 1.0	20 ± 2.9	21 ± 1.2	7 ± 1.7	20 ± 2.4
10000.0	6 ± 2.7	12 ± 1.5	25 ± 2.2	5 ± 1.5	21 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					465 ± 15.7
Positive Control ⁶			60 ± 11.1		
Positive Control ⁸				28 ± 1.5	
Positive Control ⁹	825 ± 65.6	38 ± 5.2			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5
100.0	9 ± 1.7
333.0	11 ± 2.1
1000.0	10 ± 0.7
3333.0	10 ± 1.2
10000.0	8 ± 2.2 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	72 ± 2.9
Positive Control ⁹	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	79 ± 2.6	72 ± 5.8	122 ± 11.7	182 ± 7.7	133 ± 13.0
100.0	79 ± 3.0	74 ± 7.1	120 ± 7.4	197 ± 20.1	168 ± 7.6
333.0	74 ± 3.4	70 ± 8.1	123 ± 5.2	201 ± 6.0	178 ± 6.1
1000.0	79 ± 5.9	71 ± 1.5	114 ± 7.8	185 ± 8.0	164 ± 11.3
3333.0	83 ± 3.3	59 ± 1.2	118 ± 2.5	186 ± 5.8	133 ± 15.0
10000.0	84 ± 7.8	55 ± 2.7	101 ± 2.0	184 ± 5.3	117 ± 11.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			761 ± 42.0		
Positive Control ⁸				317 ± 19.4	309 ± 9.9
Positive Control ¹⁰	1302 ± 75.0	198 ± 16.3			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	106 ± 5.6	200 ± 16.6
100.0	118 ± 8.3	211 ± 22.3
333.0	117 ± 8.1	172 ± 10.7
1000.0	115 ± 6.6	186 ± 12.0
3333.0	106 ± 4.0	286 ± 21.1
10000.0	106 ± 4.2	266 ± 11.3
Trial Summary	Negative	Equivocal
Positive Control ⁴	600 ± 43.4	
Positive Control ⁶		
Positive Control ⁸		952 ± 93.1
Positive Control ¹⁰		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.0	21 ± 2.8	29 ± 3.8	23 ± 1.7	37 ± 1.5
100.0	11 ± 1.0	17 ± 3.7	33 ± 1.3	23 ± 2.4	33 ± 1.2
333.0	18 ± 1.7	14 ± 0.9	31 ± 4.4	29 ± 4.5	32 ± 3.1
1000.0	16 ± 6.0	12 ± 1.5	30 ± 3.8	26 ± 3.5	27 ± 0.9
3333.0	15 ± 10.0	18 ± 1.9	33 ± 2.5	29 ± 1.7	30 ± 2.5
10000.0	14 ± 3.5	20 ± 3.6	25 ± 5.2	25 ± 2.6	27 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					85 ± 3.2
Positive Control ²			70 ± 4.7		
Positive Control ¹²	114 ± 5.2	224 ± 13.6			
Positive Control ⁵				109 ± 9.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 2.2
100.0	33 ± 3.5
333.0	28 ± 5.2
1000.0	30 ± 5.6
3333.0	30 ± 2.3
10000.0	28 ± 3.6
Trial Summary	Negative
Positive Control ¹¹	
Positive Control ²	74 ± 9.7
Positive Control ¹²	
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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Sodium Azide

8: 2.5 ug/Plate 2-Aminoanthracene

9: 4.0 ug/Plate 9-Aminoacridine

10: 8.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****