

Experiment Number: **286753**

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

G06: Ames Summary Data

Test Compound: **Orphenadrine hydrochloride**

CAS Number: **341-69-5**

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

Time Report Requested: **15:40:25**

NTP Study Number:

286753

Study Result:

Negative

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Test Compound: Orphenadrine hydrochloride

CAS Number: 341-69-5

Date Report Requested: 09/11/2018

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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	108 ± 4.5	136 ± 11.0	157 ± 0.3	118 ± 3.5	159 ± 2.9
3.0	110 ± 4.9	158 ± 6.7			
10.0	106 ± 5.5	148 ± 7.0	162 ± 8.4	117 ± 10.1	169 ± 3.8
33.0	108 ± 7.8	143 ± 8.8	160 ± 0.6	100 ± 2.6	153 ± 5.0
100.0	113 ± 2.4	152 ± 2.9	152 ± 2.6	124 ± 12.1	158 ± 3.2
333.0	58 ± 14.8	136 ± 5.8	127 ± 12.6	116 ± 5.4	148 ± 3.5
1000.0			138 ± 11.8	106 ± 11.5	105 ± 10.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					474 ± 19.9
Positive Control ³			339 ± 8.7		
Positive Control ⁴				311 ± 18.0	
Positive Control ⁵	646 ± 12.6	906 ± 20.2			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 4.2
3.0	
10.0	107 ± 3.0
33.0	108 ± 4.0
100.0	103 ± 7.1
333.0	125 ± 5.8
1000.0	83 ± 16.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	431 ± 5.8
Positive Control ⁴	
Positive Control ⁵	

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Test Compound: Orphenadrine hydrochloride

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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	14 ± 2.0	17 ± 3.3	12 ± 0.5	15 ± 2.5	14 ± 0.9
3.0	19 ± 0.6	15 ± 2.0			
10.0	11 ± 5.8	15 ± 2.6	13 ± 2.9	15 ± 1.9	8 ± 0.7
33.0	14 ± 0.7	14 ± 3.2	20 ± 0.6	13 ± 0.6	13 ± 2.8
100.0	12 ± 2.0	18 ± 1.2	16 ± 2.6	13 ± 0.7	10 ± 1.7
333.0	14 ± 1.0	19 ± 1.2	18 ± 1.2	11 ± 0.9	9 ± 2.5
1000.0			13 ± 2.0	11 ± 1.0	10 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					124 ± 10.5
Positive Control ⁴			112 ± 6.6		
Positive Control ⁵	948 ± 25.6	808 ± 9.8			
Positive Control ⁶				117 ± 6.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 0.7
3.0	
10.0	15 ± 1.0
33.0	14 ± 1.0
100.0	10 ± 1.5
333.0	9 ± 1.5
1000.0	9 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	504 ± 51.7
Positive Control ⁵	
Positive Control ⁶	

Strain: TA1537		
Dose (ug/Plate)		Without S9
Vehicle Control ¹		7 ± 0.9
3.0		7 ± 1.8
6.0		7 ± 1.2
10.0		6 ± 1.2
16.0		6 ± 0.0
33.0		5 ± 0.6
100.0		8 ± 0.3
333.0		5 ± 0.9
Trial Summary		Negative
Positive Control ⁷		227 ± 20.1

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 15.5	147 ± 7.9	163 ± 2.6	152 ± 2.7	143 ± 5.5
3.0	136 ± 9.5	122 ± 8.3			
6.0		155 ± 7.4			
10.0	184 ± 11.4	174 ± 10.1	153 ± 4.9	150 ± 7.3	131 ± 3.5
16.0		143 ± 4.1			
33.0	205 ± 7.9	128 ± 7.4	160 ± 7.4	164 ± 8.2	133 ± 2.8
100.0	189 ± 5.9	147 ± 11.0	170 ± 4.0	141 ± 3.2	138 ± 9.3
333.0	116 ± 18.0	143 ± 2.3	158 ± 5.4	121 ± 8.9	132 ± 5.8
1000.0			135 ± 10.1	141 ± 17.0	104 ± 4.7
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					475 ± 15.5
Positive Control ³			369 ± 10.4		
Positive Control ⁴				311 ± 17.3	
Positive Control ⁷	393 ± 7.2	456 ± 12.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	161 ± 3.0
3.0	
6.0	
10.0	111 ± 3.7
16.0	
33.0	154 ± 2.0
100.0	132 ± 1.2
333.0	145 ± 17.1
1000.0	153 ± 15.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	393 ± 17.5
Positive Control ⁴	
Positive Control ⁷	

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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	12 ± 2.3	22 ± 1.5	29 ± 2.5	15 ± 1.8	26 ± 2.3
3.0	11 ± 0.9	22 ± 2.4			
10.0	16 ± 1.3	20 ± 0.6	24 ± 2.5	18 ± 0.7	27 ± 2.8
33.0	16 ± 2.3	21 ± 1.7	27 ± 1.7	14 ± 2.5	28 ± 3.8
100.0	12 ± 0.9	22 ± 1.0	19 ± 1.2	20 ± 1.7	24 ± 2.9
333.0	12 ± 0.9	27 ± 1.7	23 ± 1.8	17 ± 3.0	19 ± 1.2
1000.0			22 ± 2.7	19 ± 2.0	28 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					465 ± 24.2
Positive Control ³			258 ± 19.5		
Positive Control ⁸	346 ± 17.6	415 ± 13.9			
Positive Control ⁴				188 ± 12.7	

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Test Compound: Orphenadrine hydrochloride
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.5
3.0	
10.0	14 ± 0.3
33.0	17 ± 1.7
100.0	20 ± 2.1
333.0	21 ± 2.2
1000.0	20 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	289 ± 19.1
Positive Control ⁸	
Positive Control ⁴	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****