

Experiment Number: 133081

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

**G06: Ames Summary Data**

Test Compound: **Phenylephrine hydrochloride**

CAS Number: 61-76-7

Date Report Requested: **09/12/2018**

Time Report Requested: **08:02:04**

**NTP Study Number:**

133081

**Study Result:**

Negative

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CAS Number: 61-76-7

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	127 ± 6.4	114 ± 1.5	151 ± 14.2	141 ± 3.8	136 ± 15.0
100.0	117 ± 7.2	107 ± 16.8	116 ± 9.7	137 ± 11.5	106 ± 4.0
333.0	120 ± 5.9	129 ± 9.9	105 ± 7.0	142 ± 2.8	96 ± 5.4
1000.0	108 ± 8.5	117 ± 4.3	117 ± 5.2	123 ± 16.1	109 ± 5.6
3333.0	106 ± 4.0	111 ± 10.0	103 ± 13.2	123 ± 14.4	109 ± 6.4
10000.0	102 ± 19.6	108 ± 6.3	121 ± 9.8	144 ± 2.3	98 ± 6.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	353 ± 10.3	301 ± 4.0			
Positive Control <sup>3</sup>			810 ± 26.8	510 ± 10.1	1580 ± 96.6

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	137 ± 3.3
100.0	128 ± 8.7
333.0	129 ± 10.4
1000.0	131 ± 5.7
3333.0	133 ± 3.6
10000.0	120 ± 9.1
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1921 ± 50.9

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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 <sup>1</sup>	20 ± 3.0	19 ± 0.7	7 ± 0.9	5 ± 0.3	10 ± 2.2
100.0	22 ± 2.4	17 ± 1.2	8 ± 2.2	7 ± 0.6	9 ± 1.7
333.0	22 ± 2.3	18 ± 3.5	10 ± 1.0	8 ± 2.0	5 ± 0.3
1000.0	18 ± 2.5	16 ± 4.2	8 ± 0.9	9 ± 1.9	5 ± 0.9
3333.0	20 ± 1.7	14 ± 0.6	6 ± 1.8	8 ± 1.9	6 ± 1.2
10000.0	24 ± 2.7	11 ± 1.2	8 ± 2.3	6 ± 0.9	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	402 ± 14.3	311 ± 14.7			
Positive Control <sup>4</sup>			195 ± 27.7	133 ± 11.7	518 ± 29.9

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 2.0
100.0	6 ± 0.9
333.0	8 ± 2.1
1000.0	6 ± 0.9
3333.0	7 ± 1.2
10000.0	6 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	388 ± 28.7

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Test Compound: Phenylephrine hydrochloride

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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 <sup>1</sup>	5 ± 0.9	4 ± 2.0	4 ± 0.3	4 ± 0.7	6 ± 0.6
100.0	4 ± 0.9	3 ± 1.3	9 ± 1.7	8 ± 2.3	6 ± 0.9
333.0	3 ± 0.3	4 ± 0.9	5 ± 1.5	5 ± 1.3	5 ± 0.9
1000.0	4 ± 1.2	3 ± 1.5	4 ± 1.2	5 ± 1.5	8 ± 0.3
3333.0	5 ± 1.5	3 ± 1.3	7 ± 1.5	7 ± 0.3	7 ± 0.6
10000.0	5 ± 1.2	4 ± 1.5	9 ± 1.3	6 ± 1.0	5 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			171 ± 5.2	119 ± 10.5	435 ± 11.9
Positive Control <sup>5</sup>	145 ± 3.2	201 ± 24.8			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 1.7
100.0	5 ± 1.2
333.0	6 ± 0.7
1000.0	7 ± 1.0
3333.0	5 ± 1.2
10000.0	4 ± 0.7
Trial Summary	Negative
Positive Control <sup>4</sup>	363 ± 4.0
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	16 ± 1.2	16 ± 1.7	21 ± 2.7	25 ± 4.0	30 ± 0.9
100.0	13 ± 3.2	15 ± 6.0	25 ± 3.2	21 ± 3.7	29 ± 2.6
333.0	18 ± 0.7	17 ± 1.5	23 ± 2.9	23 ± 1.8	21 ± 4.4
1000.0	15 ± 0.9	15 ± 1.5	21 ± 2.5	15 ± 0.3	22 ± 1.2
3333.0	18 ± 1.7	15 ± 1.0	18 ± 1.2	24 ± 3.7	26 ± 1.2
10000.0	14 ± 2.8	17 ± 1.2	23 ± 3.0	20 ± 1.2	27 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			488 ± 31.1	365 ± 39.1	1089 ± 27.5
Positive Control <sup>6</sup>	718 ± 16.7	653 ± 29.5			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 2.1
100.0	30 ± 2.8
333.0	35 ± 1.5
1000.0	31 ± 0.9
3333.0	30 ± 3.6
10000.0	27 ± 3.0
Trial Summary	Negative
Positive Control <sup>3</sup>	990 ± 51.5
Positive Control <sup>6</sup>	

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**LEGEND**

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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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***