

Experiment Number: 898261

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

**G06: Ames Summary Data**

Test Compound: **Epinephrine**

CAS Number: 51-43-4

Date Report Requested: **09/16/2018**

Time Report Requested: **22:42:52**

**NTP Study Number:**

898261

**Study Result:**

Equivocal

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	113 ± 6.1	156 ± 9.9	83 ± 5.2	134 ± 2.8	150 ± 6.9
100.0	125 ± 9.6			132 ± 12.5	
333.0	123 ± 13.2	136 ± 22.4	116 ± 8.8	139 ± 7.1	156 ± 24.8
1000.0	128 ± 9.3	133 ± 27.4	116 ± 9.2	155 ± 3.5	168 ± 4.0
3333.0	156 ± 14.0	162 ± 8.4	138 ± 4.8	165 ± 1.7	133 ± 8.8
6666.0		108 ± 13.4	124 ± 4.7		164 ± 15.9
10000.0	181 ± 11.2	85 ± 5.2	135 ± 3.2	188 ± 12.3	92 ± 6.0
Trial Summary	Weakly Positive	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>				650 ± 30.6	972 ± 38.6
Positive Control <sup>3</sup>	338 ± 1.2	451 ± 15.6	192 ± 9.0		

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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 <sup>1</sup>	108 ± 3.2	124 ± 1.9	152 ± 7.4	95 ± 5.1
100.0		137 ± 0.6		
333.0	114 ± 13.1	144 ± 4.4	159 ± 7.7	119 ± 7.7
1000.0	127 ± 9.5	154 ± 4.6	182 ± 3.5	115 ± 10.8
3333.0	120 ± 5.4	177 ± 2.3	141 ± 4.5	124 ± 4.1
6666.0	112 ± 8.2		168 ± 4.7	123 ± 6.3
10000.0	123 ± 5.2	205 ± 15.1	93 ± 2.0	120 ± 2.0
Trial Summary	Negative	Weakly Positive	Negative	Negative
Positive Control <sup>2</sup>	350 ± 4.8	1737 ± 87.4	2020 ± 24.6	584 ± 16.5
Positive Control <sup>3</sup>				

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**Strain: TA1535**

<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>	15 ± 1.5	10 ± 2.4	6 ± 0.9	8 ± 0.6	11 ± 2.6
100.0	16 ± 5.5		7 ± 0.6		9 ± 1.5
333.0	10 ± 1.9	11 ± 1.2	7 ± 0.7	5 ± 1.5	13 ± 1.0
1000.0	9 ± 2.6	6 ± 1.2	5 ± 0.6	8 ± 2.3	7 ± 1.0
3333.0	12 ± 1.9	9 ± 2.6	3 ± 0.7	7 ± 1.0	8 ± 2.7
6666.0		13 ± 0.9		3 ± 1.0	
10000.0	2 ± 0.0	6 ± 1.2	6 ± 0.9	6 ± 0.7	6 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	265 ± 21.7	218 ± 4.6			
Positive Control <sup>4</sup>			117 ± 22.4	91 ± 14.1	244 ± 5.9

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G06: Ames Summary Data  
Test Compound: Epinephrine  
CAS Number: 51-43-4

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.6
100.0	
333.0	10 ± 1.8
1000.0	8 ± 2.8
3333.0	7 ± 2.7
6666.0	3 ± 1.2
10000.0	7 ± 0.9
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	196 ± 4.0

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**Strain: TA1537**

<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>	4 ± 0.3	2 ± 1.0	5 ± 1.2	4 ± 0.0	10 ± 2.8
100.0	5 ± 1.7		6 ± 1.8		7 ± 0.3
333.0	8 ± 2.7	8 ± 2.7	9 ± 2.3	5 ± 1.3	7 ± 2.7
1000.0	8 ± 2.7	6 ± 0.9	8 ± 1.2	8 ± 2.5	10 ± 1.7
3333.0	5 ± 0.0	7 ± 0.7	7 ± 0.6	6 ± 1.2	10 ± 0.9
6666.0		6 ± 2.0		6 ± 0.7	
10000.0	2 ± 0.7	4 ± 0.7	10 ± 0.3	8 ± 2.0	4 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			132 ± 10.6	129 ± 8.4	408 ± 25.3
Positive Control <sup>5</sup>	136 ± 6.2	56 ± 9.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 3.7
100.0	
333.0	5 ± 0.9
1000.0	7 ± 0.9
3333.0	6 ± 0.9
6666.0	6 ± 1.7
10000.0	5 ± 1.7
Trial Summary	Negative
Positive Control <sup>4</sup>	258 ± 3.7
Positive Control <sup>5</sup>	

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Test Compound: Epinephrine

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**Strain: TA98**

<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>	20 ± 2.9	14 ± 1.2	23 ± 2.7	15 ± 1.2	24 ± 3.0
100.0	19 ± 1.2		31 ± 2.3		31 ± 1.5
333.0	17 ± 2.0	18 ± 3.3	25 ± 2.7	26 ± 0.9	39 ± 3.2
1000.0	17 ± 4.0	17 ± 2.2	35 ± 3.7	23 ± 2.5	32 ± 4.3
3333.0	21 ± 3.0	22 ± 2.3	27 ± 3.5	20 ± 2.6	30 ± 1.2
6666.0		17 ± 3.6		28 ± 3.0	
10000.0	21 ± 2.5	17 ± 1.2	21 ± 0.6	21 ± 1.5	23 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			451 ± 21.7	160 ± 7.3	1242 ± 32.7
Positive Control <sup>6</sup>	723 ± 41.2	527 ± 51.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 2.0
100.0	
333.0	20 ± 2.0
1000.0	19 ± 3.3
3333.0	22 ± 3.7
6666.0	21 ± 3.5
10000.0	20 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	271 ± 20.5
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 \*\***