

Experiment Number: 223710

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Epinephrine

CAS Number: 51-43-4

Date Report Requested: 09/14/2018

Time Report Requested: 21:42:51

**NTP Study Number:**

223710

**Study Result:**

Weakly Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	117 ± 3.5	86 ± 4.7	204 ± 13.5	114 ± 2.1	104 ± 2.4
100.0	106 ± 0.3		234 ± 11.6		
333.0	108 ± 5.0		240 ± 11.1		
1000.0	114 ± 5.5	89 ± 2.6	254 ± 6.4	125 ± 2.4	107 ± 2.7
3333.0	130 ± 1.7	132 ± 6.1	275 ± 16.6	109 ± 4.2	127 ± 7.0
5000.0		132 ± 5.5		111 ± 7.7	127 ± 5.2
6667.0		125 ± 9.3		118 ± 5.1	128 ± 4.4
10000.0	173 ± 6.2	140 ± 9.4	268 ± 5.0	189 ± 5.0	151 ± 7.3
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>	620 ± 17.0				
Positive Control <sup>3</sup>		837 ± 40.7			
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>			1431 ± 98.8	900 ± 44.1	1187 ± 33.7

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 12.7
100.0	156 ± 4.5
333.0	142 ± 9.2
1000.0	138 ± 8.4
3333.0	149 ± 6.2
5000.0	
6667.0	
10000.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1056 ± 55.5
Positive Control <sup>5</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.5	18 ± 3.5	15 ± 1.8
100.0	12 ± 2.3	18 ± 1.7	11 ± 1.0
333.0	15 ± 1.2	16 ± 1.0	12 ± 0.9
1000.0	12 ± 0.9	21 ± 2.0	16 ± 3.4
3333.0	12 ± 2.6	13 ± 3.8	14 ± 1.7
10000.0	15 ± 0.6	23 ± 1.8	13 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	330 ± 25.5		
Positive Control <sup>5</sup>		165 ± 11.1	175 ± 17.7

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Test Compound: Epinephrine

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.7	5 ± 0.3	3 ± 2.0	7 ± 1.0	5 ± 1.5
100.0	5 ± 1.7	5 ± 0.3		7 ± 2.2	6 ± 1.5
333.0	9 ± 2.0	6 ± 3.0		6 ± 0.0	7 ± 0.9
1000.0	8 ± 2.3	5 ± 1.2	4 ± 0.9	6 ± 1.8	8 ± 2.2
3333.0	11 ± 1.2	11 ± 1.3	11 ± 1.5	7 ± 1.5	8 ± 0.3
5000.0			11 ± 0.3		
6667.0			10 ± 0.9		
10000.0	20 ± 0.9	12 ± 2.1	16 ± 1.8	9 ± 0.3	16 ± 1.7
Trial Summary	Positive	Weakly Positive	Weakly Positive	Negative	Equivocal
Positive Control <sup>5</sup>				438 ± 25.9	235 ± 13.2
Positive Control <sup>6</sup>		25 ± 1.3			
Positive Control <sup>7</sup>	44 ± 1.2		15 ± 4.1		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 1.0	120 ± 4.6	217 ± 4.4	136 ± 2.6	138 ± 5.6
100.0	140 ± 4.7	131 ± 3.4	213 ± 2.3	131 ± 1.5	144 ± 3.9
333.0	135 ± 5.5	123 ± 4.7	212 ± 12.1	143 ± 1.9	149 ± 4.4
1000.0	159 ± 4.7	135 ± 6.4	200 ± 13.0	138 ± 4.9	129 ± 4.1
3333.0	186 ± 12.1	175 ± 5.5	196 ± 7.8	175 ± 7.5	155 ± 1.2
10000.0	213 ± 11.3	198 ± 4.9	233 ± 6.4	211 ± 5.8	147 ± 10.5
Trial Summary	Weakly Positive	Weakly Positive	Negative	Weakly Positive	Negative
Positive Control <sup>3</sup>				717 ± 9.5	1176 ± 40.4
Positive Control <sup>8</sup>					
Positive Control <sup>5</sup>			611 ± 24.4		
Positive Control <sup>9</sup>	438 ± 30.5	553 ± 24.1			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	158 ± 5.8	144 ± 7.5
100.0	170 ± 5.5	155 ± 2.7
333.0	179 ± 3.2	145 ± 5.9
1000.0	177 ± 2.1	205 ± 3.5
3333.0	204 ± 2.3	205 ± 9.3
10000.0	230 ± 4.0	240 ± 12.8
Trial Summary	Weakly Positive	Weakly Positive
Positive Control <sup>3</sup>		
Positive Control <sup>8</sup>	1464 ± 83.6	
Positive Control <sup>5</sup>		1441 ± 12.2
Positive Control <sup>9</sup>		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 2.1	23 ± 1.3	28 ± 5.9
100.0	16 ± 2.2	27 ± 2.0	30 ± 2.7
333.0	22 ± 2.3	21 ± 1.3	26 ± 1.0
1000.0	19 ± 3.8	23 ± 3.0	27 ± 1.5
3333.0	20 ± 3.2	18 ± 1.8	25 ± 3.7
10000.0	26 ± 3.4	21 ± 1.2	29 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		552 ± 24.2	1022 ± 13.7
Positive Control <sup>10</sup>	479 ± 13.6		



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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: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 2-Aminoanthracene

7: 4.0 ug/Plate 9-Aminoacridine

8: 2.0 ug/Plate 9-Aminoacridine

9: 24.0 ug/Plate 9-Aminoacridine

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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