

Experiment Number: 070079

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: L-Ascorbic acid

CAS Number: 50-81-7

Date Report Requested: 09/10/2018

Time Report Requested: 18:54:54

**NTP Study Number:**

070079

**Study Result:**

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	94 ± 9.9	105 ± 12.3	96 ± 9.0	94 ± 1.7
100.0	93 ± 2.0	111 ± 3.0	103 ± 2.9	100 ± 1.7
333.0	103 ± 0.7		86 ± 3.5	104 ± 7.2
1000.0	103 ± 3.5		89 ± 4.9	118 ± 5.0
1666.0		124 ± 3.7		
3333.0	111 ± 3.8	109 ± 9.5	110 ± 15.4	110 ± 20.0
6666.0		142 ± 12.7		
10000.0	140 ± 1.8	164 ± 6.6	105 ± 12.7	107 ± 7.8
Trial Summary	Equivocal	Equivocal	Negative	Negative
Positive Control <sup>2</sup>				767 ± 47.8
Positive Control <sup>3</sup>			523 ± 14.6	
Positive Control <sup>4</sup>	591 ± 13.6	453 ± 25.1		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 1.5	8 ± 0.6	7 ± 0.6
100.0	19 ± 2.6	9 ± 1.5	11 ± 1.9
333.0	20 ± 2.2	9 ± 2.0	10 ± 1.3
1000.0	19 ± 0.9	6 ± 1.3	5 ± 0.6
3333.0	17 ± 2.5	7 ± 1.5	6 ± 0.3
10000.0	15 ± 0.6	7 ± 0.7	8 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			302 ± 7.4
Positive Control <sup>4</sup>	518 ± 21.4		
Positive Control <sup>5</sup>		223 ± 22.3	

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Strain: TA1537

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Dose (ug/Plate)	Without S9
Vehicle Control <sup>1</sup>	8 ± 0.9
100.0	8 ± 1.2
1666.0	9 ± 3.7
3333.0	6 ± 0.3
6666.0	8 ± 1.8
10000.0	8 ± 2.0
Trial Summary	Negative
Positive Control <sup>6</sup>	410 ± 24.6

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	146 ± 0.3	146 ± 6.9	111 ± 5.5	154 ± 4.5	180 ± 2.8
100.0	146 ± 14.4	162 ± 4.7	166 ± 4.5	168 ± 4.2	182 ± 8.9
333.0	160 ± 11.6		181 ± 7.4		179 ± 14.2
1000.0	181 ± 11.2		182 ± 13.7		188 ± 7.7
1666.0		190 ± 5.3		197 ± 13.0	
3333.0	218 ± 8.7	205 ± 7.3	179 ± 8.7	177 ± 1.5	191 ± 9.3
6666.0		211 ± 24.9		161 ± 4.9	
10000.0	243 ± 16.3	216 ± 7.5	185 ± 28.5	138 ± 20.7	186 ± 6.4
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					314 ± 5.8
Positive Control <sup>3</sup>			300 ± 8.8	327 ± 15.9	
Positive Control <sup>6</sup>	956 ± 18.4	738 ± 24.2			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 0.6	31 ± 1.5	33 ± 4.9
100.0	17 ± 2.0	28 ± 2.5	35 ± 2.3
333.0	19 ± 3.2	27 ± 1.5	36 ± 1.7
1000.0	20 ± 3.0	26 ± 2.8	32 ± 2.9
3333.0	22 ± 2.0	30 ± 1.0	30 ± 3.5
10000.0	22 ± 2.1	27 ± 5.4	38 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			725 ± 3.8
Positive Control <sup>3</sup>		419 ± 51.2	
Positive Control <sup>7</sup>	597 ± 18.0		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*