

Experiment Number: 065391

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: 18:18:28

NTP Study Number:

065391

Study Result:

Negative

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Test Compound: L-Ascorbic acid

CAS Number: 50-81-7

Date Report Requested: 09/10/2018

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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	83 ± 7.0	114 ± 13.1	104 ± 0.7	106 ± 15.8	118 ± 5.5
100.0	81 ± 6.9	120 ± 9.2	118 ± 5.4	107 ± 5.9	109 ± 1.2
333.0	74 ± 3.2	120 ± 1.0	102 ± 2.6	100 ± 3.6	129 ± 14.9
1000.0	86 ± 5.7	120 ± 4.2	104 ± 3.8	107 ± 5.2	121 ± 2.6
3333.0	96 ± 2.3	129 ± 10.5	136 ± 3.1	104 ± 9.7	117 ± 2.4
10000.0	101 ± 6.1 ^s	122 ± 7.2	130 ± 4.0	106 ± 2.5 ^s	138 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					291 ± 12.9
Positive Control ³	358 ± 17.4	422 ± 19.5			
Positive Control ⁴			292 ± 6.7		
Positive Control ⁵					
Positive Control ⁶				324 ± 7.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 5.9
100.0	103 ± 1.2
333.0	100 ± 8.3
1000.0	115 ± 10.7
3333.0	115 ± 7.5
10000.0	122 ± 1.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	397 ± 9.3
Positive Control ⁶	

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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	15 ± 0.3	40 ± 4.7	35 ± 3.7	11 ± 1.2	43 ± 3.8
100.0	17 ± 4.9	32 ± 1.0	40 ± 2.3	9 ± 0.7	39 ± 2.5
333.0	14 ± 1.5	38 ± 1.5	40 ± 3.8	14 ± 1.5	41 ± 2.0
1000.0	17 ± 1.2	46 ± 2.6	37 ± 2.6	9 ± 1.9	42 ± 4.0
3333.0	18 ± 1.7	42 ± 2.9	37 ± 3.8	9 ± 2.6	44 ± 3.0
10000.0	14 ± 1.2 ^s	40 ± 4.4	37 ± 3.5	7 ± 1.5 ^s	44 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	188 ± 12.2				
Positive Control ²					102 ± 5.4
Positive Control ³		333 ± 21.3			
Positive Control ⁵					
Positive Control ⁶			96 ± 4.1	97 ± 5.0	

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Test Compound: L-Ascorbic acid

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.2
100.0	7 ± 2.3
333.0	9 ± 2.5
1000.0	7 ± 1.2
3333.0	13 ± 2.0
10000.0	10 ± 2.9 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ²	
Positive Control ³	
Positive Control ⁵	110 ± 5.4
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.3	4 ± 0.7	10 ± 1.8	11 ± 0.9	5 ± 1.0
100.0	24 ± 3.3	5 ± 1.9	7 ± 0.9	10 ± 2.8	5 ± 2.3
333.0	25 ± 1.0	5 ± 0.9	6 ± 1.9	6 ± 1.5	6 ± 1.7
1000.0	18 ± 3.2	9 ± 0.9	9 ± 0.7	10 ± 1.5	7 ± 0.3
3333.0	15 ± 3.0	5 ± 2.2	5 ± 1.5	9 ± 0.9	10 ± 2.7
10000.0	21 ± 0.6 ^s	8 ± 1.8	6 ± 2.1	11 ± 3.5	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					110 ± 3.8
Positive Control ⁶			151 ± 3.5		
Positive Control ⁸				36 ± 3.5	
Positive Control ⁹	1124 ± 18.2	1022 ± 132.8			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.5
100.0	24 ± 2.1
333.0	26 ± 2.2
1000.0	21 ± 3.2
3333.0	27 ± 2.1
10000.0	22 ± 5.2 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	126 ± 11.0
Positive Control ⁹	

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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	98 ± 1.5	87 ± 7.0	133 ± 3.5	166 ± 8.9	292 ± 191.9
100.0	86 ± 9.5	77 ± 2.0	116 ± 5.6	181 ± 10.8	101 ± 9.7
333.0	97 ± 4.6	93 ± 6.1	113 ± 5.0	166 ± 3.0	103 ± 5.8
1000.0	94 ± 4.9	79 ± 6.8	122 ± 3.9	148 ± 1.9	118 ± 11.3
3333.0	107 ± 2.9	102 ± 13.9	111 ± 0.9	166 ± 8.1	128 ± 3.5
10000.0	137 ± 3.3 ^s	113 ± 10.4	117 ± 2.9	162 ± 9.6 ^s	117 ± 6.2
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴					676 ± 12.8
Positive Control ⁶			555 ± 20.6		
Positive Control ⁸				376 ± 5.5	
Positive Control ¹⁰	205 ± 18.5	1110 ± 29.0			

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Test Compound: L-Ascorbic acid

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Date Report Requested: 09/10/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	158 ± 2.6
100.0	187 ± 1.7
333.0	180 ± 6.1
1000.0	165 ± 9.7
3333.0	162 ± 15.0
10000.0	167 ± 8.7 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	998 ± 6.5
Positive Control ¹⁰	

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Test Compound: L-Ascorbic acid

CAS Number: 50-81-7

Date Report Requested: 09/10/2018

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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	14 ± 3.5	19 ± 3.2	27 ± 3.2	16 ± 1.7	32 ± 3.8
100.0	11 ± 3.2	17 ± 2.1	24 ± 1.9	22 ± 1.2	26 ± 2.4
333.0	11 ± 1.5	21 ± 3.1	23 ± 1.8	23 ± 3.0	27 ± 1.5
1000.0	17 ± 1.5	23 ± 1.7	31 ± 4.1	21 ± 0.7	29 ± 1.7
3333.0	19 ± 3.3	21 ± 2.7	29 ± 0.9	24 ± 2.3	28 ± 3.8
10000.0	17 ± 2.5 ^s	23 ± 4.0	16 ± 2.8	18 ± 2.4 ^s	25 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					177 ± 6.7
Positive Control ²			63 ± 1.5		
Positive Control ¹²	165 ± 11.1	188 ± 12.1			
Positive Control ⁵				107 ± 9.1	

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CAS Number: 50-81-7

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.3
100.0	22 ± 2.1
333.0	22 ± 4.0
1000.0	21 ± 2.6
3333.0	23 ± 1.5
10000.0	19 ± 0.9 ^s
Trial Summary	Negative
Positive Control ¹¹	
Positive Control ²	62 ± 2.9
Positive Control ¹²	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Sodium Azide

8: 2.5 ug/Plate 2-Aminoanthracene

9: 4.0 ug/Plate 9-Aminoacridine

10: 8.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****