

Experiment Number: 561534

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

**G06: Ames Summary Data**

Test Compound: **Sorbic acid**

CAS Number: **110-44-1**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:41:12**

**NTP Study Number:**

561534

**Study Result:**

Negative

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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 <sup>1</sup>	126 ± 6.1	145 ± 8.0	153 ± 4.0	173 ± 6.8	164 ± 7.6
33.0			142 ± 10.4	155 ± 7.7	154 ± 9.8
100.0	121 ± 2.6	128 ± 1.2	138 ± 8.1	136 ± 5.2	149 ± 4.3
333.0	139 ± 4.8	130 ± 3.0	140 ± 5.2	151 ± 7.8	143 ± 3.5
1000.0	127 ± 14.0	130 ± 10.0	111 ± 9.7	145 ± 7.8	150 ± 4.7
3333.0	116 ± 4.9	106 ± 15.9	111 ± 5.8	127 ± 8.9 <sup>p</sup>	128 ± 10.0
6666.0	106 ± 3.0	71 ± 7.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					494 ± 32.0
Positive Control <sup>3</sup>			333 ± 19.4		
Positive Control <sup>4</sup>				423 ± 13.6	
Positive Control <sup>5</sup>	1193 ± 37.5	763 ± 7.3			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	162 ± 5.6
33.0	146 ± 16.0
100.0	135 ± 13.1
333.0	156 ± 3.6
1000.0	149 ± 5.0
3333.0	129 ± 8.9 <sup>p</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	605 ± 16.8
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	27 ± 1.2	10 ± 2.3	10 ± 2.9	18 ± 1.9	13 ± 1.9
33.0		13 ± 2.3	9 ± 1.5	14 ± 3.0	7 ± 0.7
100.0	18 ± 1.5	11 ± 0.3	10 ± 1.8	16 ± 2.7	11 ± 2.6
333.0	17 ± 1.3	11 ± 1.2	8 ± 1.5	12 ± 3.5	9 ± 1.2
1000.0	16 ± 2.1	10 ± 2.2	10 ± 1.8	15 ± 0.3	11 ± 0.6
3333.0	12 ± 2.1	9 ± 2.6	11 ± 2.6	9 ± 0.9 <sup>p</sup>	5 ± 0.9
6666.0	6 ± 0.9				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					97 ± 6.2
Positive Control <sup>4</sup>			152 ± 6.1		
Positive Control <sup>5</sup>	1089 ± 36.0	1244 ± 32.6			
Positive Control <sup>6</sup>				112 ± 7.8	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 0.6
33.0	8 ± 2.1
100.0	7 ± 1.7
333.0	11 ± 1.0
1000.0	11 ± 1.9
3333.0	15 ± 0.6 <sup>p</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	481 ± 5.8
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Sorbic acid

CAS Number: 110-44-1

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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 <sup>1</sup>	157 ± 10.9	179 ± 8.4	159 ± 13.6	222 ± 6.9	184 ± 13.5
33.0		187 ± 12.2	170 ± 7.5	224 ± 5.3	196 ± 4.0
100.0	188 ± 6.2	189 ± 3.5	153 ± 17.8	225 ± 11.7	181 ± 7.4
333.0	172 ± 2.3	186 ± 12.1	169 ± 11.4	242 ± 7.2	187 ± 2.0
1000.0	169 ± 14.7	151 ± 12.7	152 ± 10.2	233 ± 2.1	194 ± 10.4
1666.0			148 ± 5.2		
3333.0	144 ± 18.4	11 ± 4.7		115 ± 4.3 <sup>p</sup>	28 ± 13.3
6666.0	3 ± 1.8				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					329 ± 8.7
Positive Control <sup>3</sup>			333 ± 6.5		
Positive Control <sup>4</sup>				411 ± 8.0	
Positive Control <sup>7</sup>	588 ± 42.4	392 ± 21.5			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	210 ± 5.9
33.0	203 ± 1.3
100.0	211 ± 5.8
333.0	199 ± 14.5
1000.0	207 ± 9.6
1666.0	
3333.0	88 ± 0.9 <sup>p</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	598 ± 61.6
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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Test Compound: Sorbic acid

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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 <sup>1</sup>	16 ± 4.0	34 ± 3.8	40 ± 6.0	44 ± 5.4	45 ± 3.9
33.0			43 ± 3.8	37 ± 4.5	41 ± 1.8
100.0	15 ± 0.0	38 ± 2.6	45 ± 2.7	34 ± 3.9	38 ± 1.2
333.0	15 ± 0.3	28 ± 0.9	37 ± 5.1	32 ± 2.9	38 ± 3.9
1000.0	16 ± 1.7	36 ± 1.5	31 ± 1.2	26 ± 2.9	40 ± 3.9
3333.0	9 ± 1.8	20 ± 2.3	22 ± 3.3	24 ± 2.3 <sup>p</sup>	31 ± 3.8
6666.0	12 ± 2.7	11 ± 2.9			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					318 ± 28.2
Positive Control <sup>3</sup>			170 ± 12.7	130 ± 10.4	
Positive Control <sup>8</sup>	706 ± 67.6	603 ± 8.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.5
33.0	29 ± 1.2
100.0	27 ± 1.2
333.0	18 ± 2.2
1000.0	22 ± 1.8
3333.0	9 ± 1.7 <sup>P</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	260 ± 27.6
Positive Control <sup>8</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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*