

Experiment Number: A95552

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

**G06: Ames Summary Data**

Test Compound: **Chlorogenic acid**

CAS Number: **327-97-9**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:43:43**

**NTP Study Number:**

A95552

**Study Result:**

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Chlorogenic acid

CAS Number: 327-97-9

Date Report Requested: 09/15/2018

Time Report Requested: 16:43:43

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	115 ± 5.9	118 ± 4.7	121 ± 8.0	124 ± 4.3	131 ± 6.6
100.0	121 ± 1.7	126 ± 2.0	122 ± 7.0	123 ± 4.9	136 ± 6.2
333.0	118 ± 2.6	129 ± 4.4	134 ± 4.6	130 ± 2.3	134 ± 8.4
1000.0	116 ± 4.6	119 ± 5.5	126 ± 0.6	121 ± 6.7	134 ± 5.8
3333.0	110 ± 4.2	118 ± 6.4	129 ± 4.2	119 ± 6.6	125 ± 3.5
10000.0	111 ± 1.2	124 ± 3.8	127 ± 7.7	118 ± 2.8	127 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					727 ± 19.1
Positive Control <sup>3</sup>			635 ± 15.9		
Positive Control <sup>4</sup>	911 ± 7.2	855 ± 24.8			
Positive Control <sup>5</sup>				668 ± 15.9	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	115 ± 6.7
100.0	111 ± 3.7
333.0	124 ± 13.4
1000.0	110 ± 2.7
3333.0	125 ± 8.1
10000.0	118 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	745 ± 26.8
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>	11 ± 2.0	13 ± 0.9	11 ± 2.0	10 ± 2.3	12 ± 3.2
100.0	9 ± 0.3	9 ± 1.0	11 ± 1.5	10 ± 1.9	17 ± 3.0
333.0	9 ± 1.2	11 ± 0.7	10 ± 1.7	11 ± 2.0	15 ± 2.2
1000.0	9 ± 2.1	11 ± 0.7	11 ± 2.2	13 ± 0.7	15 ± 0.3
3333.0	12 ± 1.2	8 ± 1.3	12 ± 1.5	10 ± 1.2	13 ± 2.8
10000.0	10 ± 2.5	12 ± 3.2	10 ± 1.2	10 ± 1.3	13 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					123 ± 3.5
Positive Control <sup>4</sup>	851 ± 24.8	939 ± 17.8			
Positive Control <sup>5</sup>			105 ± 4.7		
Positive Control <sup>6</sup>				110 ± 6.7	

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G06: Ames Summary Data  
Test Compound: Chlorogenic acid  
CAS Number: 327-97-9

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.7
100.0	10 ± 0.7
333.0	6 ± 0.3
1000.0	10 ± 1.2
3333.0	13 ± 1.8
10000.0	11 ± 1.3
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	115 ± 7.0
Positive Control <sup>6</sup>	

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**G06: Ames Summary Data**  
 Test Compound: Chlorogenic acid  
 CAS Number: 327-97-9

Date Report Requested: 09/15/2018  
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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>	114 ± 5.8	143 ± 2.9	151 ± 15.7	149 ± 13.9	169 ± 5.8
100.0	113 ± 1.9	146 ± 9.3	159 ± 13.8	138 ± 15.2	159 ± 11.5
333.0	126 ± 5.5	132 ± 2.6	145 ± 10.1	143 ± 10.4	146 ± 5.0
1000.0	116 ± 4.4	123 ± 4.0	162 ± 11.1	166 ± 10.0	140 ± 6.4
3333.0	119 ± 6.4	124 ± 7.3	144 ± 14.4	157 ± 9.3	156 ± 10.4
10000.0	119 ± 0.9	159 ± 2.1	125 ± 4.6	146 ± 6.4	161 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					542 ± 15.3
Positive Control <sup>3</sup>			491 ± 37.9		
Positive Control <sup>5</sup>				647 ± 24.0	
Positive Control <sup>7</sup>	611 ± 25.1	448 ± 29.6			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	162 ± 3.4
100.0	172 ± 3.5
333.0	172 ± 8.4
1000.0	168 ± 15.0
3333.0	144 ± 9.3
10000.0	166 ± 10.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	708 ± 9.1
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

Experiment Number: A95552

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Chlorogenic acid

CAS Number: 327-97-9

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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 ± 1.2	27 ± 4.1	26 ± 4.3	21 ± 2.6	22 ± 2.3
100.0	15 ± 2.8	21 ± 2.7	17 ± 0.7	25 ± 3.5	28 ± 0.7
333.0	16 ± 2.5	25 ± 2.0	26 ± 0.3	24 ± 1.7	23 ± 0.7
1000.0	20 ± 2.1	17 ± 2.1	25 ± 1.0	15 ± 2.1	23 ± 3.9
3333.0	21 ± 1.5	26 ± 3.2	26 ± 5.3	21 ± 5.4	27 ± 5.9
10000.0	16 ± 2.3	18 ± 2.3	27 ± 2.2	19 ± 0.9	29 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					519 ± 13.4
Positive Control <sup>3</sup>			338 ± 19.2		
Positive Control <sup>8</sup>	596 ± 25.9	420 ± 18.1			
Positive Control <sup>5</sup>				555 ± 16.7	



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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Chlorogenic acid  
CAS Number: 327-97-9

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 4.2
100.0	19 ± 0.0
333.0	17 ± 2.0
1000.0	19 ± 2.9
3333.0	25 ± 2.3
10000.0	25 ± 3.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	635 ± 11.4
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Chlorogenic acid

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**Strain: TA102**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	220 ± 13.6	234 ± 21.3	305 ± 9.3	291 ± 21.8	296 ± 9.7
100.0	239 ± 12.3	240 ± 11.3	317 ± 25.0	293 ± 11.6	305 ± 4.0
333.0	237 ± 4.3	239 ± 6.8	305 ± 9.8	274 ± 11.8	319 ± 7.4
1000.0	242 ± 29.2	245 ± 17.1	347 ± 18.6	223 ± 4.2	316 ± 1.2
3333.0	231 ± 12.7	247 ± 12.2	312 ± 6.7	255 ± 25.4	338 ± 24.1
10000.0	229 ± 14.3	259 ± 24.4	314 ± 16.3	275 ± 19.8	295 ± 18.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>	755 ± 57.2				
Positive Control <sup>6</sup>		814 ± 13.4	746 ± 22.4	866 ± 18.8	844 ± 17.0

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CAS Number: 327-97-9

**Strain: TA104**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	288 ± 12.1	364 ± 18.8	412 ± 7.4	389 ± 24.0	423 ± 12.4
100.0	306 ± 15.2	366 ± 23.4	405 ± 11.9	379 ± 27.3	438 ± 24.4
333.0	307 ± 16.0	377 ± 16.1	436 ± 15.8	347 ± 25.8	449 ± 12.0
1000.0	277 ± 24.9	337 ± 19.9	411 ± 16.7	389 ± 22.3	408 ± 11.6
3333.0	275 ± 27.2	362 ± 21.4	391 ± 26.2	368 ± 32.7	455 ± 10.3
10000.0	332 ± 21.8	345 ± 28.3	409 ± 4.4	388 ± 5.0	423 ± 5.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>		752 ± 24.1	792 ± 37.9	862 ± 24.3	869 ± 19.8
Positive Control <sup>10</sup>	696 ± 22.2				

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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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 0.5 ug/Plate Mitomycin-C
- 10: 250.0 ug/Plate Methyl Methane Sulfonate

\*\* END OF REPORT \*\*