

Experiment Number: A03106

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

G06: Ames Summary Data

Test Compound: **Grape seed extract**

CAS Number: **GRAPSEEDEXT**

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

Time Report Requested: **11:34:09**

NTP Study Number:

A03106

Study Result:

Negative

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Date Report Requested: 09/15/2018

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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	189 ± 5.2	132 ± 6.1	126 ± 6.7	161 ± 17.6	144 ± 5.4
100.0	190 ± 10.2	123 ± 9.4	109 ± 9.6	175 ± 7.4	144 ± 3.2
333.0	180 ± 1.8	136 ± 10.5	126 ± 7.0	194 ± 12.8	159 ± 2.4
1000.0	190 ± 6.6 ^P	142 ± 6.4	125 ± 3.8	188 ± 9.7 ^P	129 ± 10.0
3333.0	145 ± 5.3 ^P	131 ± 14.4 ^X	123 ± 3.1 ^X	202 ± 6.0 ^P	161 ± 12.4 ^X
10000.0	135 ± 15.2 ^X	81 ± 3.5 ^X	63 ± 2.2 ^X	171 ± 11.1 ^X	86 ± 8.1 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1167 ± 31.9
Positive Control ³	382 ± 16.2	509 ± 46.8			
Positive Control ⁴			632 ± 57.3		
Positive Control ⁵					
Positive Control ⁶				628 ± 41.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 2.2
100.0	176 ± 12.2
333.0	192 ± 15.2
1000.0	204 ± 10.9 ^P
3333.0	198 ± 0.6 ^P
10000.0	153 ± 2.6 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	960 ± 57.5
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 ± 2.3	12 ± 0.3	14 ± 1.8	17 ± 1.5	15 ± 0.3
100.0	14 ± 1.5	18 ± 0.7	14 ± 3.3	16 ± 0.6	14 ± 2.2
333.0	17 ± 3.2	20 ± 1.2	17 ± 1.5	10 ± 0.9	18 ± 1.7
1000.0	12 ± 1.3 ^P	16 ± 3.3	17 ± 0.7	15 ± 2.0 ^P	20 ± 2.7
3333.0	13 ± 1.8 ^P	16 ± 1.2 ^X	16 ± 0.9 ^X	14 ± 1.5 ^P	17 ± 1.2
10000.0	11 ± 0.6 ^X	13 ± 1.0 ^X	12 ± 2.6 ^X	12 ± 2.2 ^X	15 ± 1.7 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					172 ± 11.1
Positive Control ³	226 ± 16.7	292 ± 7.8			
Positive Control ⁵					
Positive Control ⁶			147 ± 11.6	147 ± 22.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
100.0	14 ± 0.7
333.0	12 ± 1.5
1000.0	12 ± 2.0 ^P
3333.0	12 ± 1.5 ^P
10000.0	10 ± 0.9 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	193 ± 8.5
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	97 ± 3.0	84 ± 7.2	116 ± 2.1	164 ± 1.7	135 ± 2.4
33.0		116 ± 19.6			
100.0	113 ± 3.6	94 ± 2.1	140 ± 2.3	103 ± 4.4	114 ± 4.2
333.0	112 ± 4.3	113 ± 1.8	130 ± 14.4	130 ± 8.1	103 ± 4.1
500.0		97 ± 2.7			
1000.0	88 ± 8.4 ^p	102 ± 4.6 ^p	119 ± 5.8	135 ± 3.5	106 ± 14.5 ^p
3333.0	81 ± 0.6 ^p		77 ± 3.2 ^x	101 ± 7.2 ^x	93 ± 14.4 ^p
10000.0	83 ± 1.9 ^x		87 ± 1.9 ^x	79 ± 5.0 ^x	69 ± 4.0 ^x
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ⁴					
Positive Control ⁶				602 ± 27.3	723 ± 109.8
Positive Control ⁷	368 ± 32.9	370 ± 8.0	558 ± 18.8		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	134 ± 5.8	133 ± 8.7
33.0		
100.0	135 ± 7.7	133 ± 10.2
333.0	124 ± 4.5	100 ± 3.5
500.0		
1000.0	144 ± 5.5	112 ± 4.3 ^P
3333.0	147 ± 6.0	91 ± 7.9 ^P
10000.0	73 ± 2.4 ^X	75 ± 9.0 ^X
Trial Summary	Negative	Negative
Positive Control ⁴	1150 ± 125.6	
Positive Control ⁶		1105 ± 73.9
Positive Control ⁷		

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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	23 ± 1.2	18 ± 2.3	25 ± 4.0	22 ± 2.1	20 ± 3.5
100.0	21 ± 0.9	19 ± 1.2	23 ± 1.5	28 ± 1.9	21 ± 1.8
333.0	13 ± 0.7	13 ± 0.6	19 ± 2.8	23 ± 0.9	14 ± 1.2
1000.0	13 ± 2.9 ^P	12 ± 1.5	15 ± 0.6	19 ± 3.5 ^P	13 ± 1.7
3333.0	11 ± 1.0 ^P	12 ± 2.4 ^X	15 ± 1.5 ^X	17 ± 2.7 ^P	11 ± 1.8 ^X
10000.0	10 ± 1.0 ^X	7 ± 0.6 ^X	7 ± 0.9 ^X	12 ± 1.5 ^X	8 ± 1.2 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			404 ± 14.0		2030 ± 83.3
Positive Control ⁸	92 ± 7.8	80 ± 1.9			
Positive Control ⁵				183 ± 23.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.4
100.0	20 ± 2.6
333.0	19 ± 3.2
1000.0	18 ± 2.4 ^P
3333.0	14 ± 2.3 ^P
10000.0	13 ± 1.3 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	927 ± 75.3

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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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****