

Experiment Number: A20251

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

G06: Ames Summary Data

Test Compound: **Aloe vera gel**

CAS Number: **8001-97-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **09:40:13**

NTP Study Number:

A20251

Study Result:

Negative

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	197 ± 14.2	119 ± 10.1	199 ± 8.7	175 ± 11.3	109 ± 5.6
100.0	198 ± 5.5	139 ± 21.6	179 ± 20.1	187 ± 4.0	106 ± 9.2
333.0	193 ± 6.5	119 ± 7.0	212 ± 8.9	171 ± 6.5	109 ± 7.4
1000.0	186 ± 13.1	99 ± 8.3	166 ± 19.1	170 ± 10.5	116 ± 1.5
3333.0	192 ± 14.8	120 ± 8.3	171 ± 5.6	211 ± 6.6	114 ± 9.2
10000.0	184 ± 5.6	105 ± 15.1	154 ± 11.0	242 ± 13.5	121 ± 4.8
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³	516 ± 18.8	320 ± 15.6			
Positive Control ⁴			514 ± 27.6		
Positive Control ⁵					
Positive Control ⁶				446 ± 22.7	279 ± 25.4

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	144 ± 9.4	132 ± 8.3
100.0	162 ± 19.9	117 ± 6.8
333.0	145 ± 13.7	119 ± 15.6
1000.0	140 ± 9.3	140 ± 10.3
3333.0	160 ± 2.8	126 ± 12.3
10000.0	149 ± 10.6	182 ± 5.7
Trial Summary	Negative	Negative
Positive Control ²	427 ± 78.8	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		549 ± 28.7
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 ± 3.1	12 ± 1.5	16 ± 2.1	14 ± 0.3	11 ± 1.5
100.0	14 ± 3.0	12 ± 2.1	18 ± 2.1	16 ± 4.1	10 ± 2.8
333.0	20 ± 1.8	11 ± 1.5	18 ± 0.6	14 ± 2.9	10 ± 2.9
1000.0	14 ± 1.9	15 ± 1.9	19 ± 0.9	16 ± 2.7	11 ± 1.3
3333.0	11 ± 0.3	11 ± 3.3	16 ± 2.1	14 ± 1.2	8 ± 2.3
10000.0	20 ± 1.5	13 ± 0.7	15 ± 2.4	15 ± 2.3	12 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					95 ± 8.7
Positive Control ³	255 ± 3.8	137 ± 18.1			
Positive Control ⁵					
Positive Control ⁶			39 ± 3.0	56 ± 1.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.6
100.0	14 ± 1.5
333.0	14 ± 2.9
1000.0	14 ± 0.3
3333.0	11 ± 0.6
10000.0	14 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	133 ± 6.3
Positive Control ⁶	

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Test Compound: Aloe vera gel
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	107 ± 1.2	130 ± 6.6	148 ± 9.0	163 ± 7.0	164 ± 6.0
100.0	94 ± 6.0	137 ± 9.5	150 ± 8.7	176 ± 5.8	126 ± 10.8
333.0	81 ± 2.7	131 ± 4.0	134 ± 16.7	161 ± 7.9	148 ± 5.5
1000.0	109 ± 7.2	130 ± 5.5	114 ± 7.8	209 ± 25.7	159 ± 2.7
3333.0	107 ± 11.2	125 ± 6.2	133 ± 5.5	202 ± 7.8	162 ± 14.9
10000.0	108 ± 4.3	122 ± 2.3	122 ± 4.3	185 ± 3.0	166 ± 6.7
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴					
Positive Control ⁶			401 ± 49.0	396 ± 9.8	344 ± 8.7
Positive Control ⁷	253 ± 8.1	307 ± 14.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	171 ± 18.6	155 ± 6.2
100.0	206 ± 10.3	169 ± 8.7
333.0	161 ± 23.9	142 ± 6.0
1000.0	219 ± 21.2	151 ± 9.6
3333.0	152 ± 13.0	149 ± 17.5
10000.0	152 ± 10.0	170 ± 9.3
Trial Summary	Negative	Negative
Positive Control ⁴	820 ± 51.9	
Positive Control ⁶		584 ± 56.3
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	19 ± 2.3	10 ± 0.9	12 ± 1.2	36 ± 3.9	11 ± 5.8
100.0	24 ± 2.6	14 ± 1.5	13 ± 4.0	40 ± 3.0	12 ± 1.5
333.0	21 ± 4.2	12 ± 2.9	13 ± 2.1	38 ± 2.8	19 ± 4.1
1000.0	18 ± 0.3	12 ± 2.3	12 ± 1.2	37 ± 3.8	15 ± 1.0
3333.0	23 ± 1.8	9 ± 1.0	11 ± 3.2	37 ± 2.6	17 ± 3.1
10000.0	20 ± 1.2	10 ± 1.2	12 ± 1.7	38 ± 4.5	21 ± 3.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			153 ± 15.8		144 ± 25.4
Positive Control ⁸	314 ± 3.7	130 ± 16.3			
Positive Control ⁵				249 ± 10.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 1.8
100.0	38 ± 3.3
333.0	32 ± 0.9
1000.0	34 ± 1.5
3333.0	39 ± 4.1
10000.0	38 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	439 ± 48.4

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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

**** END OF REPORT ****