

Experiment Number: 697666

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hamamelis water (witch hazel)

CAS Number: 68916-39-2

Date Report Requested: 09/11/2018

Time Report Requested: 18:25:54

NTP Study Number:

697666

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 3.2	105 ± 4.7	111 ± 7.8	112 ± 2.0	106 ± 4.4
100.0	122 ± 8.7	119 ± 10.2	117 ± 3.2	112 ± 5.3	130 ± 6.3
333.0	132 ± 12.1	94 ± 5.0	109 ± 2.2	118 ± 5.2	117 ± 5.6
1000.0	101 ± 6.6	104 ± 3.8	108 ± 7.7	121 ± 6.9	115 ± 5.2
3333.0	120 ± 4.3	106 ± 5.1	119 ± 5.9	110 ± 13.9	118 ± 10.3
10000.0	120 ± 5.3	91 ± 9.6	108 ± 4.3	93 ± 2.9	111 ± 9.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	358 ± 7.0	372 ± 9.7			
Positive Control ³			534 ± 46.0	645 ± 9.0	1469 ± 61.2

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	104 ± 2.9
100.0	109 ± 3.8
333.0	119 ± 3.8
1000.0	121 ± 6.4
3333.0	124 ± 7.6
10000.0	114 ± 5.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1521 ± 82.5

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.6	27 ± 3.2	10 ± 2.2	10 ± 1.2	10 ± 2.4
100.0	25 ± 5.9	17 ± 1.8	8 ± 0.6	9 ± 1.5	9 ± 2.0
333.0	33 ± 4.0	17 ± 1.5	7 ± 0.6	13 ± 0.7	13 ± 2.0
1000.0	31 ± 3.8	28 ± 2.1	9 ± 2.6	9 ± 1.5	10 ± 2.5
3333.0	24 ± 4.6	21 ± 3.0	11 ± 1.9	7 ± 0.9	7 ± 0.9
10000.0	33 ± 3.2	22 ± 3.8	13 ± 0.9	9 ± 2.3	11 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	375 ± 15.5	274 ± 13.1			
Positive Control ⁴			146 ± 2.8	159 ± 20.4	381 ± 7.9

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7
100.0	10 ± 1.9
333.0	9 ± 1.5
1000.0	7 ± 0.6
3333.0	6 ± 0.7
10000.0	9 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	344 ± 8.6

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.6	4 ± 1.2	7 ± 0.7	6 ± 0.6	6 ± 1.0
100.0	5 ± 0.6	7 ± 0.3	7 ± 1.5	7 ± 1.5	7 ± 1.7
333.0	5 ± 0.6	5 ± 1.2	5 ± 0.9	6 ± 1.5	7 ± 0.6
1000.0	4 ± 1.0	4 ± 0.3	6 ± 2.2	6 ± 1.7	7 ± 1.0
3333.0	6 ± 1.5	4 ± 0.3	7 ± 1.2	9 ± 0.6	8 ± 0.6
10000.0	7 ± 2.0	6 ± 0.3	7 ± 0.6	5 ± 1.3	6 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			157 ± 8.7	108 ± 3.5	424 ± 75.9
Positive Control ⁵	184 ± 4.7	192 ± 6.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3
100.0	7 ± 2.1
333.0	5 ± 1.5
1000.0	9 ± 1.3
3333.0	6 ± 0.6
10000.0	5 ± 0.7
Trial Summary	Negative
Positive Control ⁴	342 ± 12.0
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.6	19 ± 1.0	17 ± 3.6	25 ± 2.3	25 ± 2.2
100.0	14 ± 0.7	19 ± 5.2	24 ± 4.4	23 ± 3.3	23 ± 3.3
333.0	12 ± 3.2	17 ± 2.1	24 ± 3.1	24 ± 2.7	24 ± 6.7
1000.0	13 ± 2.4	15 ± 1.7	25 ± 5.7	24 ± 2.9	29 ± 2.2
3333.0	11 ± 2.8	17 ± 1.5	22 ± 2.2	25 ± 0.6	28 ± 1.9
10000.0	14 ± 0.9	17 ± 3.8	27 ± 3.2	31 ± 0.9	26 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			473 ± 34.3	541 ± 10.7	1274 ± 85.7
Positive Control ⁶	626 ± 20.6	844 ± 36.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.9
100.0	27 ± 3.5
333.0	29 ± 1.3
1000.0	28 ± 2.2
3333.0	30 ± 2.0
10000.0	28 ± 0.9
Trial Summary	Negative
Positive Control ³	1665 ± 37.1
Positive Control ⁶	

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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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****