

Experiment Number: 171219

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

G06: Ames Summary Data

Test Compound: **Hamamelis water (witch hazel)**

CAS Number: **68916-39-2**

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

Time Report Requested: **03:20:06**

NTP Study Number:

171219

Study Result:

Negative

Experiment Number: 171219

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Hamamelis water (witch hazel)

CAS Number: 68916-39-2

Date Report Requested: 09/13/2018

Time Report Requested: 03:20:06

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 7.2	99 ± 3.5	155 ± 5.2	99 ± 3.5	161 ± 17.3
100.0	167 ± 12.7	115 ± 11.9	158 ± 5.5	148 ± 7.0	143 ± 11.4
333.0	161 ± 1.2	110 ± 10.6	155 ± 8.8	151 ± 1.5	139 ± 16.3
1000.0	150 ± 12.7	127 ± 4.0	154 ± 3.5	140 ± 11.1	133 ± 5.8
3333.0	154 ± 6.7	103 ± 6.1	150 ± 5.5	130 ± 3.5	130 ± 10.1
10000.0	158 ± 7.8	122 ± 7.3	141 ± 13.0	145 ± 14.7	132 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	518 ± 8.7	239 ± 4.3			
Positive Control ³			551 ± 15.1	239 ± 4.3	1211 ± 19.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	123 ± 10.6
100.0	122 ± 7.2
333.0	122 ± 2.6
1000.0	131 ± 4.3
3333.0	119 ± 11.0
10000.0	129 ± 6.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	655 ± 67.7

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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	30 ± 2.1	22 ± 3.1	15 ± 1.9	6 ± 1.0	10 ± 3.1
100.0	40 ± 1.5	40 ± 5.6	17 ± 6.6	18 ± 2.3	13 ± 3.5
333.0	28 ± 2.2	50 ± 0.6	14 ± 0.9	14 ± 0.6	8 ± 0.9
1000.0	31 ± 3.0	42 ± 5.5	9 ± 1.5	16 ± 0.6	9 ± 3.0
3333.0	30 ± 0.0	47 ± 6.8	14 ± 1.5	13 ± 1.9	12 ± 2.7
10000.0	40 ± 4.6	55 ± 6.1	10 ± 3.2	11 ± 1.0	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	526 ± 11.3	245 ± 8.6			
Positive Control ⁴			408 ± 6.8	235 ± 16.5	376 ± 13.2

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Date Report Requested: 09/13/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.3
100.0	11 ± 1.2
333.0	11 ± 1.7
1000.0	16 ± 2.7
3333.0	13 ± 0.7
10000.0	12 ± 2.7
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	414 ± 22.7

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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	6 ± 1.2	7 ± 1.2	10 ± 1.2	5 ± 0.9	9 ± 1.5
100.0	13 ± 3.6	8 ± 2.3	15 ± 2.4	17 ± 1.8	14 ± 1.9
333.0	7 ± 1.7	10 ± 3.7	10 ± 1.5	17 ± 1.5	6 ± 0.9
1000.0	11 ± 2.6	11 ± 0.7	8 ± 2.8	12 ± 3.6	8 ± 0.3
3333.0	5 ± 1.5	8 ± 1.3	9 ± 2.6	13 ± 2.6	9 ± 2.0
10000.0	10 ± 2.0	10 ± 2.0	9 ± 1.3	16 ± 1.5	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 25.0	342 ± 11.6	477 ± 28.6
Positive Control ⁵	211 ± 34.4	487 ± 13.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2
100.0	15 ± 2.0
333.0	11 ± 1.8
1000.0	18 ± 0.6
3333.0	16 ± 1.5
10000.0	14 ± 2.5
Trial Summary	Negative
Positive Control ⁴	487 ± 13.7
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	20 ± 1.3	19 ± 3.1	34 ± 2.5	21 ± 2.3	30 ± 6.7
100.0	39 ± 5.0	12 ± 2.3	44 ± 17.0	24 ± 2.2	29 ± 4.5
333.0	31 ± 2.9	21 ± 2.3	40 ± 9.0	31 ± 1.0	21 ± 5.5
1000.0	26 ± 3.5	17 ± 1.2	32 ± 4.5	26 ± 5.2	25 ± 2.7
3333.0	25 ± 3.0	24 ± 4.5	34 ± 2.5	17 ± 1.2	21 ± 4.9
10000.0	32 ± 5.3	30 ± 4.7	35 ± 4.0	25 ± 1.9	21 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			393 ± 19.4	567 ± 23.3	1144 ± 19.8
Positive Control ⁶	810 ± 47.1	595 ± 22.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 5.8
100.0	40 ± 3.8
333.0	37 ± 2.7
1000.0	40 ± 4.9
3333.0	37 ± 2.3
10000.0	31 ± 1.2
Trial Summary	Negative
Positive Control ³	1325 ± 36.0
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: Water

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 ****