

Experiment Number: 421057

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Hamamelis water (witch hazel)

CAS Number: 68916-39-2

Date Report Requested: 09/15/2018

Time Report Requested: 05:17:12

**NTP Study Number:**

421057

**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 <sup>1</sup>	123 ± 1.5	149 ± 6.8	114 ± 6.7	173 ± 10.7	109 ± 6.9
100.0	114 ± 5.9	147 ± 9.7	115 ± 3.8	166 ± 7.1	88 ± 10.8
333.0	118 ± 0.9	152 ± 10.9	100 ± 4.0	150 ± 10.0	90 ± 8.1
1000.0	130 ± 1.7	147 ± 2.1	98 ± 5.0	173 ± 3.3	93 ± 3.8
3333.0	112 ± 7.5	147 ± 6.2	109 ± 5.7	164 ± 7.6	88 ± 2.5
10000.0	129 ± 4.4	144 ± 6.9	104 ± 9.8	152 ± 5.9	93 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1038 ± 3.5
Positive Control <sup>3</sup>			1305 ± 14.2	581 ± 25.5	
Positive Control <sup>4</sup>	1448 ± 30.9	1674 ± 14.8			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	138 ± 4.3
100.0	149 ± 4.3
333.0	146 ± 8.4
1000.0	146 ± 15.4
3333.0	133 ± 12.7
10000.0	131 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	512 ± 9.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 <sup>1</sup>	29 ± 3.1	35 ± 2.0	11 ± 1.2	22 ± 1.2	10 ± 0.3
100.0	27 ± 2.3	35 ± 3.0	13 ± 2.4	19 ± 2.3	12 ± 1.7
333.0	30 ± 2.2	32 ± 1.0	13 ± 3.3	20 ± 3.4	12 ± 0.0
1000.0	28 ± 2.5	41 ± 4.1	10 ± 0.7	16 ± 0.3	8 ± 1.5
3333.0	23 ± 0.7	39 ± 2.7	9 ± 1.9	17 ± 2.0	8 ± 1.3
10000.0	17 ± 0.7	39 ± 3.8	11 ± 3.3	18 ± 4.4	14 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					197 ± 18.2
Positive Control <sup>3</sup>			168 ± 3.5	90 ± 4.9	
Positive Control <sup>4</sup>	925 ± 39.6	1231 ± 53.5			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 4.4
100.0	17 ± 1.2
333.0	21 ± 2.1
1000.0	16 ± 0.6
3333.0	15 ± 1.7
10000.0	17 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	87 ± 6.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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

Test Compound: Hamamelis water (witch hazel)

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 2.0	4 ± 1.5	8 ± 0.3	9 ± 1.0	8 ± 2.2
100.0	4 ± 0.9	7 ± 1.5	8 ± 0.6	8 ± 2.3	8 ± 0.6
333.0	6 ± 3.2	6 ± 2.3	7 ± 1.3	13 ± 1.2	6 ± 0.7
1000.0	4 ± 0.6	5 ± 1.5	8 ± 2.3	13 ± 0.0	7 ± 1.2
3333.0	4 ± 1.2	7 ± 1.3	8 ± 2.4	9 ± 1.2	8 ± 1.8
10000.0	5 ± 0.6	7 ± 0.9	6 ± 0.6	9 ± 0.3	11 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					62 ± 4.5
Positive Control <sup>3</sup>			80 ± 6.4	71 ± 5.4	
Positive Control <sup>5</sup>	1073 ± 32.4	97 ± 10.2			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.7
100.0	7 ± 0.7
333.0	11 ± 2.4
1000.0	11 ± 2.7
3333.0	8 ± 1.2
10000.0	9 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	51 ± 4.3
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Compound: Hamamelis water (witch hazel)

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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 <sup>1</sup>	13 ± 1.2	19 ± 1.9	21 ± 0.9	31 ± 2.7	32 ± 2.9
100.0	15 ± 2.5	18 ± 2.2	24 ± 2.6	33 ± 1.8	26 ± 3.5
333.0	12 ± 2.0	17 ± 0.0	29 ± 5.5	36 ± 1.5	27 ± 1.0
1000.0	13 ± 1.2	15 ± 1.7	24 ± 3.3	31 ± 2.2	23 ± 0.9
3333.0	16 ± 2.8	16 ± 3.3	29 ± 3.2	32 ± 4.9	27 ± 2.8
10000.0	15 ± 2.3	17 ± 0.9	22 ± 1.2	36 ± 3.5	22 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					738 ± 60.8
Positive Control <sup>3</sup>			775 ± 35.0	447 ± 17.3	
Positive Control <sup>6</sup>	1431 ± 59.2	502 ± 11.4			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 3.0
100.0	28 ± 5.0
333.0	26 ± 1.0
1000.0	28 ± 2.4
3333.0	27 ± 3.8
10000.0	33 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	368 ± 4.5
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

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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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***