

Experiment Number: **A42260**

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

**G06: Ames Summary Data**

Test Compound: **Milk thistle extract**

CAS Number: **84604-20-6**

Date Report Requested: **09/17/2018**

Time Report Requested: **00:10:02**

**NTP Study Number:**

A42260

**Study Result:**

Negative

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**Strain: TA100**

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Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	158 ± 6.5	184 ± 21.1	199 ± 2.3	200 ± 12.5
10.0	145 ± 8.7		196 ± 8.1	
33.0	135 ± 5.8		215 ± 8.2	217 ± 9.8
100.0	152 ± 1.7	170 ± 6.4	199 ± 7.0	195 ± 12.0
333.0	144 ± 8.1	140 ± 18.4	229 ± 8.1	205 ± 3.1
1000.0	166 ± 16.6 <sup>s</sup>	164 ± 13.5 <sup>s</sup>	249 ± 4.7	221 ± 9.6
2000.0				279 ± 32.9
3333.0		133 ± 1.2 <sup>x</sup>		
10000.0		171 ± 7.5 <sup>x</sup>		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	682 ± 6.9			
Positive Control <sup>3</sup>		669 ± 8.4	1921 ± 75.8	578 ± 44.3

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**Strain: TA98**

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Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	13 ± 0.3	12 ± 0.6	23 ± 2.5	15 ± 1.0
10.0	11 ± 0.9		24 ± 3.2	
33.0	12 ± 0.7		29 ± 1.0	11 ± 1.3
100.0	12 ± 0.6	13 ± 0.7	42 ± 1.5	13 ± 1.9
333.0	11 ± 0.3	13 ± 0.3	46 ± 4.7	16 ± 2.4
1000.0	11 ± 0.0 <sup>s</sup>	10 ± 0.3 <sup>s</sup>	53 ± 13.7	17 ± 1.5
2000.0				21 ± 3.2 <sup>s</sup>
3333.0		13 ± 0.9 <sup>x</sup>		
10000.0		14 ± 0.3 <sup>x</sup>		
Trial Summary	Negative	Negative	Positive	Negative
Positive Control <sup>4</sup>		612 ± 1.2	1004 ± 34.5	108 ± 9.2
Positive Control <sup>5</sup>	107 ± 6.5			

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**Strain: TA102**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	283 ± 5.5	346 ± 22.7
33.0	258 ± 16.1	297 ± 2.7
100.0	273 ± 5.5	312 ± 15.1
333.0	289 ± 12.9	341 ± 27.8
1000.0	364 ± 44.7 <sup>s</sup>	398 ± 23.9
3333.0	348 ± 37.0 <sup>s</sup>	349 ± 28.1 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>6</sup>		1247 ± 104.9
Positive Control <sup>7</sup>	1109 ± 40.1	

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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: Dimethyl Sulfoxide

2: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 0.4 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

6: 10.0 ug/Plate Sterigmatocystin

7: 75.0 ug/Plate Other Positive Control

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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