

Experiment Number: A78884

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: **23:35:22**

**NTP Study Number:**

A78884

**Study Result:**

Positive

Experiment Number: A78884  
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G06: Ames Summary Data  
Test Compound: Milk thistle extract  
CAS Number: 84604-20-6

Date Report Requested: 09/17/2018  
Time Report Requested: 23:35:22

Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	124 ± 9.9	125 ± 9.2	116 ± 1.5
100.0	109 ± 7.6	114 ± 3.3	93 ± 4.6
333.0	119 ± 10.7	98 ± 3.8	113 ± 11.7
1000.0	111 ± 8.1 <sup>s</sup>	113 ± 3.8	121 ± 0.6
3333.0	75 ± 8.0 <sup>x</sup>	149 ± 4.0 <sup>x</sup>	159 ± 4.7 <sup>x</sup>
10000.0	20 ± 2.0 <sup>x</sup>	61 ± 6.0 <sup>x</sup>	81 ± 13.4 <sup>x</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	294 ± 18.8		
Positive Control <sup>3</sup>			629 ± 42.2
Positive Control <sup>4</sup>		270 ± 15.6	

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## G06: Ames Summary Data

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	13 ± 1.5	15 ± 1.2	15 ± 2.3	17 ± 3.4	17 ± 2.5
100.0	12 ± 0.9	16 ± 2.1	11 ± 0.9	18 ± 0.7	13 ± 2.2
333.0	13 ± 2.1	23 ± 1.5	17 ± 1.8	22 ± 2.2	29 ± 7.2
1000.0	22 ± 3.5	29 ± 1.2	22 ± 1.5	30 ± 2.5	38 ± 1.5
2000.0		31 ± 3.8	14 ± 0.6	26 ± 4.7 <sup>P</sup>	
3333.0	18 ± 2.1 <sup>x</sup>	76 ± 26.4 <sup>x</sup>	10 ± 0.3 <sup>x</sup>	17 ± 4.5 <sup>x</sup>	90 ± 10.2 <sup>x</sup>
10000.0	6 ± 0.9 <sup>x</sup>				38 ± 1.7 <sup>x</sup>
Trial Summary	Negative	Positive	Negative	Negative	Positive
Positive Control <sup>5</sup>	244 ± 11.3	233 ± 9.4	315 ± 6.4	232 ± 7.7	
Positive Control <sup>3</sup>					230 ± 2.0

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**G06: Ames Summary Data**

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 3.1	14 ± 1.7	15 ± 0.7
100.0	30 ± 4.7	13 ± 1.2	14 ± 3.0
333.0	42 ± 4.7	18 ± 2.7	17 ± 0.9
1000.0	68 ± 2.4	30 ± 1.2	33 ± 4.0
2000.0	95 ± 15.2		88 ± 7.9
3333.0	123 ± 10.2 <sup>x</sup>	71 ± 11.2 <sup>x</sup>	148 ± 24.3 <sup>x</sup>
10000.0		44 ± 2.6 <sup>x</sup>	
Trial Summary	Positive	Positive	Positive
Positive Control <sup>5</sup>			
Positive Control <sup>3</sup>	214 ± 9.0	581 ± 25.7	237 ± 4.8

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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: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

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

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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