

Experiment Number: **G99059**

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

**G06: Ames Summary Data**

Test Compound: **Milk thistle extract**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **11:37:32**

**NTP Study Number:**

G99059

**Study Result:**

Positive

Experiment Number: G99059

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Milk thistle extract  
CAS Number: 84604-20-6

Date Report Requested: 09/16/2018

Time Report Requested: 11:37:32

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	67 ± 6.7	76 ± 5.4	106 ± 4.6	106 ± 2.2	84 ± 7.0
125.0	92 ± 10.4	78 ± 5.9			
250.0	86 ± 6.1			52 ± 2.1	96 ± 6.9
375.0		84 ± 7.3	65 ± 11.0		
500.0	86 ± 4.7			57 ± 4.9	81 ± 4.0
750.0		92 ± 4.7	68 ± 3.8		
1500.0	80 ± 3.5	81 ± 9.8	70 ± 4.2	32 ± 4.2	78 ± 3.7
3000.0	92 ± 15.2	60 ± 5.2	73 ± 4.2	44 ± 2.5	77 ± 6.4
6000.0	Toxic	Toxic	107 ± 4.6	92 ± 9.6	101 ± 12.5
10000.0			74 ± 7.0	48 ± 6.7 <sup>P</sup>	77 ± 7.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	680 ± 20.7	590 ± 12.3			
Positive Control <sup>3</sup>			267 ± 14.2		
Positive Control <sup>4</sup>				339 ± 72.3	
Positive Control <sup>5</sup>					687 ± 51.7

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	83 ± 1.3
125.0	
250.0	91 ± 2.2
375.0	
500.0	106 ± 1.7
750.0	
1500.0	94 ± 3.8
3000.0	119 ± 11.1
6000.0	141 ± 10.2
10000.0	82 ± 6.7
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	611 ± 37.2

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## G06: Ames Summary Data

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 09/16/2018

Time Report Requested: 11:37:32

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 3.5	22 ± 0.7	26 ± 3.8	34 ± 2.6	33 ± 5.0
125.0	38 ± 0.9	23 ± 1.0			
250.0	35 ± 1.7			40 ± 4.7	53 ± 1.7
375.0		25 ± 6.8	60 ± 6.6		
500.0	30 ± 3.8			57 ± 5.4	54 ± 5.9
750.0		23 ± 3.6	71 ± 8.1		
1500.0	42 ± 2.2	26 ± 2.5	110 ± 2.6	137 ± 1.9	97 ± 3.6
3000.0	46 ± 4.0	38 ± 4.8	177 ± 8.2	157 ± 3.7	160 ± 4.6
6000.0	30 ± 3.0	Toxic	210 ± 8.4	235 ± 9.2	164 ± 6.9
10000.0			232 ± 4.3	152 ± 22.1	204 ± 36.1 <sup>P</sup>
Trial Summary	Equivocal	Negative	Positive	Positive	Positive
Positive Control <sup>6</sup>			482 ± 22.6	470 ± 16.0	3560 ± 87.6
Positive Control <sup>7</sup>	729 ± 34.7	692 ± 24.7			

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

Date Report Requested: **09/16/2018**  
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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	38 ± 3.5
125.0	
250.0	49 ± 7.0
375.0	
500.0	49 ± 3.0
750.0	
1500.0	100 ± 19.7
3000.0	151 ± 8.5
6000.0	198 ± 3.5
10000.0	212 ± 5.9 <sup>P</sup>
Trial Summary	Positive
Positive Control <sup>6</sup>	4052 ± 39.5
Positive Control <sup>7</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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 3.0 ug/Plate 2-Nitrofluorene

p: Precipitate

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