

Experiment Number: A21904

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: **10:09:31**

NTP Study Number:

A21904

Study Result:

Positive

Experiment Number: A21904

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: 10:09:31

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	57 ± 3.5	54 ± 7.2	55 ± 3.6	57 ± 6.7
100.0	51 ± 3.2	37 ± 1.7	65 ± 3.4	53 ± 6.0
500.0	58 ± 4.6	41 ± 1.5	86 ± 2.1	63 ± 1.5
1000.0	58 ± 4.0	25 ± 1.5	68 ± 6.2	60 ± 6.4
5000.0	40 ± 7.2	26 ± 4.6	81 ± 4.2	25 ± 1.2
10000.0	11 ± 8.5 ^p	19 ± 3.0	45 ± 7.9 ^p	81 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	410 ± 42.3	617 ± 26.5		
Positive Control ³			908 ± 28.2	740 ± 77.6

Experiment Number: A21904
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: 10:09:31

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	30 ± 2.7	16 ± 3.0	31 ± 2.3	30 ± 3.7
100.0	45 ± 1.7	18 ± 3.2	30 ± 1.5	23 ± 1.8
500.0	38 ± 5.2	24 ± 3.5	51 ± 3.2	43 ± 3.8
1000.0	29 ± 6.2	28 ± 2.6	88 ± 7.3	76 ± 7.1
5000.0	18 ± 6.8	34 ± 3.7	222 ± 7.6	197 ± 1.8
10000.0	7 ± 4.1 ^P	14 ± 3.5	394 ± 10.8 ^P	285 ± 8.0
Trial Summary	Negative	Positive	Positive	Positive
Positive Control ³			916 ± 46.6	649 ± 49.0
Positive Control ⁴	531 ± 21.7	429 ± 11.0		

Experiment Number: A21904

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: 10:09:31

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	141 ± 13.0	105 ± 0.9	149 ± 6.1	159 ± 2.5
100.0	157 ± 13.4	143 ± 6.4	185 ± 2.6	163 ± 7.5
500.0	173 ± 9.9	165 ± 9.1	196 ± 22.3	152 ± 2.1
1000.0	143 ± 6.6	128 ± 6.6	171 ± 7.0	170 ± 5.5
5000.0	181 ± 6.9	147 ± 3.5	201 ± 6.2	178 ± 4.4
10000.0	157 ± 20.9 ^p	95 ± 11.3	189 ± 27.2 ^p	202 ± 33.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵			737 ± 40.2	821 ± 28.0
Positive Control ⁶	683 ± 7.5	804 ± 31.0		

Experiment Number: A21904

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: **10:09:31**

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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

**** END OF REPORT ****