

Experiment Number: **G07023**

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

G06: Ames Summary Data

Test Compound: **Hesperidin**

CAS Number: **520-26-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **22:02:42**

NTP Study Number:

G07023

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	112 ± 1.2	107 ± 1.7	91 ± 11.6	133 ± 2.0
50.0	121 ± 13.6	109 ± 2.1	115 ± 2.0	117 ± 1.7
100.0	115 ± 5.9	105 ± 8.2	127 ± 7.8	136 ± 7.4
500.0	106 ± 4.7	101 ± 5.5	93 ± 0.3	104 ± 5.2
1000.0	104 ± 5.9	96 ± 4.5 ^p	100 ± 3.9	106 ± 5.8
2000.0	153 ± 9.2 ^p	135 ± 16.3 ^p	166 ± 41.3 ^p	137 ± 24.0 ^p
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	482 ± 28.8	674 ± 28.6		
Positive Control ³			862 ± 32.0	715 ± 139.3

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	42 ± 2.9	23 ± 2.7	41 ± 3.7	37 ± 2.9
50.0	48 ± 3.1	17 ± 3.4	49 ± 2.3	35 ± 3.2
100.0	44 ± 4.7	34 ± 1.7	48 ± 1.8	46 ± 0.9
500.0	42 ± 1.5	34 ± 2.3	48 ± 3.2	60 ± 3.2
1000.0	38 ± 4.2	24 ± 0.7	52 ± 4.5	58 ± 4.8
2000.0	41 ± 2.5 ^p	33 ± 0.9 ^p	26 ± 4.1 ^p	53 ± 5.0 ^p
Trial Summary	Negative	Negative	Negative	Equivocal
Positive Control ³			322 ± 18.5	840 ± 32.2
Positive Control ⁴	346 ± 30.4	574 ± 25.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	203 ± 15.9	225 ± 8.3	253 ± 2.3	245 ± 17.3
50.0	231 ± 12.3	240 ± 10.5	283 ± 3.6	257 ± 13.9
100.0	244 ± 12.8	244 ± 9.7	248 ± 6.3	267 ± 17.6
500.0	247 ± 21.3	234 ± 5.4	284 ± 2.3	275 ± 6.2
1000.0	256 ± 16.5	249 ± 9.8	313 ± 6.9	308 ± 16.1
2000.0	311 ± 38.4 ^P	301 ± 41.2 ^P	386 ± 36.7 ^P	364 ± 39.7 ^P
Trial Summary	Equivocal	Negative	Equivocal	Equivocal
Positive Control ⁵			708 ± 23.6	726 ± 29.4
Positive Control ⁶	784 ± 34.9	733 ± 19.5		

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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 ****