

Experiment Number: **924946**

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

G06: Ames Summary Data

Test Compound: **Neohesperidin dihydrochalcone**

CAS Number: **20702-77-6**

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

Time Report Requested: **07:14:22**

NTP Study Number:

924946

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 15.0	139 ± 9.8	82 ± 3.8	100 ± 9.0	71 ± 0.9
100.0	125 ± 4.4	136 ± 10.8	75 ± 1.9	93 ± 3.8	72 ± 3.3
333.0	112 ± 13.5	127 ± 2.5	89 ± 0.7	115 ± 11.9	75 ± 3.5
1000.0	104 ± 10.6	128 ± 5.2	84 ± 4.5	104 ± 6.1	84 ± 4.6
3333.0	115 ± 3.8	119 ± 2.5	76 ± 6.8	99 ± 2.0	74 ± 3.7
10000.0	109 ± 4.5	119 ± 2.8	78 ± 3.5	88 ± 1.2	71 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1232 ± 46.7
Positive Control ³			1077 ± 23.8		
Positive Control ⁴				421 ± 8.0	
Positive Control ⁵	1050 ± 54.9	1238 ± 19.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 6.7
100.0	104 ± 2.3
333.0	95 ± 4.8
1000.0	92 ± 8.1
3333.0	99 ± 1.5
10000.0	106 ± 5.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	460 ± 25.5
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	33 ± 1.2	45 ± 3.9	10 ± 2.3	19 ± 1.0	10 ± 1.5
100.0	35 ± 1.7	48 ± 7.5	8 ± 1.8	13 ± 1.2	10 ± 1.8
333.0	36 ± 1.2	33 ± 4.4	12 ± 1.7	12 ± 1.7	11 ± 1.9
1000.0	40 ± 2.7	40 ± 4.9	8 ± 3.2	15 ± 2.7	11 ± 1.2
3333.0	36 ± 1.2	43 ± 4.8	13 ± 2.2	13 ± 2.1	12 ± 1.0
10000.0	33 ± 3.7	41 ± 5.9	11 ± 1.0	17 ± 4.1	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					149 ± 14.5
Positive Control ³			128 ± 10.5		
Positive Control ⁴				106 ± 0.6	
Positive Control ⁵	703 ± 47.1	884 ± 33.4			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.4
100.0	16 ± 2.5
333.0	11 ± 3.0
1000.0	15 ± 2.2
3333.0	10 ± 0.9
10000.0	9 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	168 ± 8.7
Positive Control ⁵	

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Date Report Requested: 09/17/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 7.0	96 ± 3.7	101 ± 5.8	133 ± 6.1	99 ± 5.9
100.0	86 ± 3.8	85 ± 5.7	116 ± 5.2	152 ± 6.4	89 ± 0.6
333.0	87 ± 7.8	88 ± 7.5	91 ± 8.4	138 ± 11.9	85 ± 4.1
1000.0	90 ± 4.5	91 ± 2.4	102 ± 5.0	134 ± 9.2	94 ± 5.2
3333.0	91 ± 2.3	82 ± 2.0	110 ± 9.4	134 ± 10.3	88 ± 2.7
10000.0	79 ± 3.8	97 ± 4.0	96 ± 4.8	147 ± 9.2	88 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					634 ± 17.4
Positive Control ³			558 ± 18.0		
Positive Control ⁴				290 ± 12.6	
Positive Control ⁶	458 ± 24.2	797 ± 8.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	142 ± 6.7
100.0	124 ± 8.8
333.0	130 ± 4.2
1000.0	125 ± 3.1
3333.0	129 ± 3.7
10000.0	146 ± 9.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	378 ± 13.0
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.5	16 ± 3.0	32 ± 2.8	44 ± 2.7	34 ± 5.8
100.0	16 ± 0.7	18 ± 2.2	32 ± 2.3	39 ± 4.7	31 ± 0.7
333.0	18 ± 1.2	17 ± 2.3	27 ± 1.2	41 ± 0.7	37 ± 2.9
1000.0	15 ± 3.8	20 ± 2.3	26 ± 2.7	37 ± 5.0	27 ± 4.9
3333.0	21 ± 4.5	23 ± 1.7	36 ± 1.9	41 ± 4.1	30 ± 4.1
10000.0	20 ± 3.2	19 ± 0.0	31 ± 0.6	42 ± 2.0	28 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1212 ± 25.4
Positive Control ³			814 ± 37.6		
Positive Control ⁴				366 ± 20.2	
Positive Control ⁷	1471 ± 49.3	1931 ± 52.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 3.0
100.0	35 ± 0.3
333.0	30 ± 0.6
1000.0	33 ± 5.5
3333.0	39 ± 0.9
10000.0	34 ± 3.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	418 ± 16.1
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****