

Experiment Number: A80485

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4',7-Dihydroxyisoflavone

CAS Number: 486-66-8

Date Report Requested: 09/17/2018

Time Report Requested: 23:46:38

NTP Study Number:

A80485

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	84 ± 1.8	121 ± 7.5	117 ± 4.4	105 ± 6.1	109 ± 4.9
100.0	100 ± 7.5	119 ± 4.2	115 ± 2.7	122 ± 4.7	458 ± 346.2
333.0	99 ± 9.7	126 ± 0.9	129 ± 1.7	97 ± 0.7	136 ± 13.1
1000.0	106 ± 6.1	131 ± 0.3	132 ± 2.6	128 ± 7.5	121 ± 6.7
3333.0	98 ± 4.9	123 ± 5.5	128 ± 7.1	101 ± 4.8	125 ± 5.2
10000.0	102 ± 5.2 ^p	124 ± 2.7 ^p	113 ± 4.2 ^p	126 ± 5.2 ^p	115 ± 5.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1026 ± 48.1
Positive Control ³			845 ± 17.9		
Positive Control ⁴	943 ± 19.4	808 ± 19.2			
Positive Control ⁵				569 ± 29.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 9.9
100.0	102 ± 5.9
333.0	110 ± 3.5
1000.0	113 ± 3.8
3333.0	102 ± 9.5
10000.0	120 ± 7.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	675 ± 43.2
Positive Control ⁴	
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	9 ± 1.8	10 ± 1.8	8 ± 0.9	11 ± 2.6	12 ± 0.7
100.0	9 ± 0.3	4 ± 1.3	8 ± 0.6	11 ± 0.9	9 ± 2.1
333.0	10 ± 1.2	7 ± 1.5	7 ± 1.0	9 ± 0.3	8 ± 1.5
1000.0	8 ± 2.0	7 ± 1.2	9 ± 2.7	9 ± 1.0	12 ± 2.0
3333.0	8 ± 0.7	10 ± 2.7	8 ± 2.1	10 ± 0.9	9 ± 3.2
10000.0	8 ± 1.8 ^p	9 ± 1.2 ^p	8 ± 1.9 ^p	9 ± 1.5 ^p	8 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					143 ± 6.9
Positive Control ⁴	831 ± 18.3	1005 ± 12.0			
Positive Control ⁵			173 ± 4.6		
Positive Control ⁶				90 ± 11.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7
100.0	9 ± 0.3
333.0	11 ± 1.3
1000.0	9 ± 0.3
3333.0	7 ± 0.3
10000.0	11 ± 2.1 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	98 ± 12.9
Positive Control ⁶	

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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	108 ± 4.7	153 ± 11.5	157 ± 5.5	192 ± 2.5	169 ± 9.8
100.0	118 ± 8.4	163 ± 8.1	175 ± 4.1	182 ± 7.3	174 ± 3.4
333.0	114 ± 0.9	138 ± 0.3	134 ± 13.1	173 ± 13.3	155 ± 3.3
1000.0	117 ± 2.6	143 ± 12.0	158 ± 1.5	180 ± 1.9	149 ± 16.3
3333.0	109 ± 5.5	153 ± 8.8	145 ± 18.4	166 ± 8.2	141 ± 14.5
10000.0	79 ± 2.0 ^p	150 ± 10.4 ^p	167 ± 5.6 ^p	154 ± 11.6 ^p	145 ± 14.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					625 ± 25.5
Positive Control ³			500 ± 27.1	586 ± 11.8	
Positive Control ⁷	535 ± 16.5	504 ± 53.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	169 ± 8.0
100.0	164 ± 3.1
333.0	179 ± 6.2
1000.0	151 ± 3.5
3333.0	162 ± 7.2
10000.0	176 ± 26.1 ^P
Trial Summary	Negative
Positive Control ²	617 ± 12.2
Positive Control ³	
Positive Control ⁷	

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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	16 ± 1.9	30 ± 4.4	19 ± 3.9	17 ± 1.2	16 ± 3.4
100.0	12 ± 1.5	16 ± 2.1	20 ± 0.0	17 ± 1.3	15 ± 1.3
333.0	20 ± 5.0	25 ± 3.8	18 ± 3.2	13 ± 1.5	15 ± 1.5
1000.0	12 ± 3.8	23 ± 0.9	21 ± 3.2	15 ± 1.9	23 ± 2.1
3333.0	13 ± 2.7	23 ± 2.8	18 ± 4.3	23 ± 2.5	13 ± 1.9
10000.0	16 ± 2.0 ^p	17 ± 0.9 ^p	20 ± 2.5 ^p	24 ± 1.5 ^p	12 ± 2.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1106 ± 20.8
Positive Control ³			672 ± 27.8		
Positive Control ⁸	371 ± 27.8	636 ± 15.7			
Positive Control ⁵				457 ± 21.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.5
100.0	18 ± 2.3
333.0	19 ± 3.2
1000.0	15 ± 1.2
3333.0	18 ± 2.8
10000.0	26 ± 2.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	499 ± 12.2
Positive Control ⁸	
Positive Control ⁵	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	245 ± 20.5	250 ± 11.7	335 ± 19.5	283 ± 22.6	313 ± 4.7
100.0	281 ± 14.8	250 ± 7.5	331 ± 1.7	275 ± 17.6	298 ± 22.9
333.0	263 ± 11.6	243 ± 13.6	336 ± 23.9	298 ± 17.2	310 ± 22.7
1000.0	169 ± 3.9	285 ± 21.5	355 ± 10.7	262 ± 4.4	308 ± 11.9
3333.0	228 ± 13.7	303 ± 8.1	361 ± 18.7	257 ± 27.6	390 ± 18.6
10000.0	174 ± 14.3 ^p	260 ± 4.0 ^p	289 ± 46.3 ^p	246 ± 10.0 ^p	268 ± 7.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	723 ± 11.9	1130 ± 54.7			
Positive Control ⁶			1149 ± 46.8	852 ± 16.7	1613 ± 73.1

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	331 ± 32.7
100.0	282 ± 28.0
333.0	346 ± 35.2
1000.0	295 ± 25.0
3333.0	269 ± 3.8
10000.0	272 ± 40.7 ^P
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	850 ± 23.1

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	329 ± 16.5	201 ± 6.7	324 ± 13.7	291 ± 20.1	318 ± 14.8
100.0	257 ± 10.5	195 ± 6.4	299 ± 8.7	310 ± 9.0	262 ± 18.2
333.0	295 ± 26.0	162 ± 2.3	266 ± 7.9	311 ± 12.2	219 ± 30.3
1000.0	300 ± 7.2	144 ± 3.9	244 ± 2.6	287 ± 5.2	243 ± 15.2
3333.0	274 ± 10.8	172 ± 32.1	222 ± 14.0	287 ± 33.9	235 ± 9.8
10000.0	171 ± 37.0 ^p	201 ± 41.2 ^p	190 ± 7.9 ^p	306 ± 14.7 ^p	209 ± 10.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			1429 ± 9.4	935 ± 17.3	1709 ± 16.8
Positive Control ¹⁰	800 ± 49.4	1424 ± 32.4			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	318 ± 2.5
100.0	302 ± 4.0
333.0	291 ± 12.1
1000.0	274 ± 22.1
3333.0	347 ± 26.6
10000.0	327 ± 15.8 ^p
Trial Summary	Negative
Positive Control ⁶	940 ± 19.0
Positive Control ¹⁰	

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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 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 250.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

**** END OF REPORT ****