

Experiment Number: A61385

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5,6-Benzoflavone

CAS Number: 6051-87-2

Date Report Requested: 09/17/2018

Time Report Requested: 09:11:20

NTP Study Number:

A61385

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	109 ± 9.1	85 ± 1.0	86 ± 3.1	113 ± 4.0	97 ± 7.3
33.0	103 ± 7.9	74 ± 4.0	80 ± 1.3	132 ± 12.9	83 ± 4.0
100.0	120 ± 5.1	74 ± 4.8 ^p	86 ± 3.0 ^p	126 ± 6.2	82 ± 12.7 ^p
333.0	122 ± 5.8 ^p	76 ± 1.2 ^p	80 ± 6.7 ^p	125 ± 3.5 ^p	63 ± 5.4 ^p
1000.0	122 ± 13.0 ^p	70 ± 5.5 ^p	69 ± 6.1 ^p	137 ± 3.0 ^p	84 ± 7.2 ^p
3000.0	106 ± 2.6 ^p	70 ± 8.0 ^p	86 ± 3.8 ^p	125 ± 2.0 ^p	77 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					521 ± 56.2
Positive Control ³	276 ± 2.4	186 ± 2.7			
Positive Control ⁴			252 ± 13.1		
Positive Control ⁵					
Positive Control ⁶				722 ± 41.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	100 ± 4.2	94 ± 3.3
33.0	94 ± 2.4	110 ± 7.4
100.0	101 ± 3.8	104 ± 6.0
333.0	108 ± 5.0 ^P	123 ± 6.5 ^P
1000.0	110 ± 13.7 ^P	98 ± 4.6 ^P
3000.0	96 ± 6.2 ^P	112 ± 6.9 ^P
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵	758 ± 287.0	1046 ± 39.4
Positive Control ⁶		

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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	20 ± 1.5	8 ± 0.7	13 ± 2.3	11 ± 0.9	12 ± 0.3
33.0	16 ± 2.7	8 ± 2.1 ^P	14 ± 0.9	15 ± 2.0	6 ± 0.9
100.0	17 ± 1.2	8 ± 1.2 ^P	12 ± 2.3 ^P	12 ± 1.5	10 ± 3.5
333.0	17 ± 0.7 ^P	6 ± 1.7 ^P	13 ± 1.5 ^P	14 ± 0.3 ^P	8 ± 0.7 ^P
1000.0	17 ± 2.6 ^P	11 ± 2.3 ^P	14 ± 0.6 ^P	15 ± 1.5 ^P	10 ± 1.9 ^P
3000.0	11 ± 1.5 ^P	9 ± 1.3 ^P	14 ± 1.2 ^P	17 ± 3.5 ^P	14 ± 1.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					253 ± 30.6
Positive Control ³	405 ± 30.7	117 ± 13.0			
Positive Control ⁵					
Positive Control ⁶			82 ± 4.4	290 ± 15.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.2
33.0	18 ± 2.5
100.0	15 ± 0.9
333.0	10 ± 3.4 ^p
1000.0	13 ± 3.2 ^p
3000.0	8 ± 1.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	542 ± 16.2
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	With 30% Rat S9
Vehicle Control ¹	7 ± 1.5
100.0	7 ± 2.6
333.0	6 ± 0.9
1000.0	5 ± 0.6 ^p
2000.0	6 ± 1.5 ^p
3000.0	8 ± 0.3 ^p
Trial Summary	Negative
Positive Control ⁶	35 ± 1.5

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	117 ± 4.9	90 ± 6.0	112 ± 9.9	170 ± 4.2	175 ± 7.6
33.0	133 ± 12.5	89 ± 1.5	133 ± 8.3	140 ± 18.9	
100.0	90 ± 5.8	65 ± 3.5 ^P	96 ± 10.1	176 ± 7.5	214 ± 12.7
333.0	101 ± 12.1 ^P	85 ± 3.5 ^P	107 ± 6.4 ^P	127 ± 6.2 ^P	180 ± 23.1 ^P
1000.0	145 ± 7.3 ^P	66 ± 2.8 ^P	89 ± 5.7 ^P	183 ± 8.5 ^P	222 ± 10.9 ^P
2000.0					250 ± 5.8 ^P
3000.0	139 ± 9.7 ^P	80 ± 6.4 ^P	102 ± 1.5 ^P	237 ± 4.2 ^P	211 ± 8.7 ^P
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ⁴					
Positive Control ⁶			779 ± 74.8	661 ± 60.3	680 ± 117.2
Positive Control ⁷	248 ± 11.7	305 ± 16.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	125 ± 0.7	145 ± 8.6
33.0	136 ± 12.9	158 ± 22.7
100.0	115 ± 10.5 ^P	148 ± 5.7
333.0	114 ± 6.4 ^P	177 ± 4.1 ^P
1000.0	93 ± 7.4 ^P	162 ± 5.8 ^P
2000.0		
3000.0	122 ± 5.2 ^P	157 ± 6.4 ^P
Trial Summary	Negative	Negative
Positive Control ⁴	1695 ± 159.8	
Positive Control ⁶		851 ± 99.9
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 ± 3.8	29 ± 1.2	24 ± 4.2	22 ± 2.9	15 ± 1.7
33.0	13 ± 0.9	17 ± 1.2	17 ± 1.5 ^p	21 ± 2.2	22 ± 4.8
100.0	14 ± 2.0	25 ± 3.5 ^p	13 ± 2.6 ^p	22 ± 1.0	17 ± 1.2 ^p
333.0	16 ± 0.9 ^p	21 ± 2.3 ^p	15 ± 4.2 ^p	22 ± 0.7 ^p	21 ± 3.0 ^p
1000.0	20 ± 1.7 ^p	9 ± 0.9 ^p	19 ± 2.0 ^p	37 ± 2.3 ^p	17 ± 1.5 ^p
3000.0	17 ± 0.6 ^p	7 ± 1.5 ^p	23 ± 4.6 ^p	23 ± 3.8 ^p	15 ± 1.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			181 ± 25.4		594 ± 69.4
Positive Control ⁸	311 ± 12.0	94 ± 11.3			
Positive Control ⁵				244 ± 33.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.4
33.0	17 ± 1.2
100.0	16 ± 2.0
333.0	16 ± 1.9 ^P
1000.0	17 ± 1.3 ^P
3000.0	23 ± 0.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	309 ± 15.6

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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: Solvent

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **