

Experiment Number: 904372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5,7-Dihydroxy-4-methylcoumarin

CAS Number: 2107-76-8

Date Report Requested: 09/16/2018

Time Report Requested: 23:32:13

NTP Study Number:

904372

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	88 ± 3.2	174 ± 1.8	141 ± 4.9	170 ± 9.3	139 ± 4.1
3.3		182 ± 11.5		199 ± 13.3	
10.0		141 ± 7.1		193 ± 0.7	
33.0	83 ± 0.9	142 ± 11.0	146 ± 8.3	212 ± 18.1	140 ± 3.6
100.0	81 ± 4.4	156 ± 4.0	148 ± 3.8	211 ± 18.5	123 ± 1.7
333.0	59 ± 4.1	119 ± 5.5	174 ± 4.5	211 ± 6.7	129 ± 4.5
1000.0	78 ± 4.4 ^p		107 ± 7.3 ^p		144 ± 4.5 ^p
3333.0	62 ± 10.7 ^p		100 ± 5.4 ^p		76 ± 9.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2081 ± 57.0	2167 ± 95.9	1888 ± 14.3
Positive Control ³	262 ± 8.3	699 ± 13.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	163 ± 7.9
3.3	198 ± 8.3
10.0	193 ± 9.7
33.0	209 ± 9.9
100.0	206 ± 18.7
333.0	218 ± 23.7
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	1645 ± 42.6
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 1.5	33 ± 1.3	7 ± 0.6	26 ± 3.5	4 ± 0.7
3.3		29 ± 2.1		33 ± 0.5	
10.0		29 ± 3.8		32 ± 2.7	
33.0	4 ± 1.0	28 ± 0.3	7 ± 0.6	34 ± 2.5	4 ± 0.3
100.0	3 ± 0.7	30 ± 4.7	1 ± 0.3	41 ± 3.2	5 ± 0.6
333.0	3 ± 1.2	25 ± 2.5	3 ± 0.0	40 ± 3.0	5 ± 0.0
1000.0	0 ± 0.0 ^p		3 ± 1.3 ^p		8 ± 3.2 ^p
3333.0	1 ± 0.6 ^p		0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			54 ± 3.2	281 ± 5.7	57 ± 2.5
Positive Control ³	171 ± 26.3	1134 ± 11.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
3.3	9 ± 0.3
10.0	13 ± 2.2
33.0	10 ± 2.3
100.0	7 ± 2.5
333.0	8 ± 2.7
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	408 ± 6.9
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	2 ± 1.0	3 ± 0.3	6 ± 0.0	4 ± 1.8	4 ± 1.2
3.3		3 ± 1.2		3 ± 0.7	
10.0		2 ± 0.9		5 ± 0.3	
33.0	4 ± 1.5	4 ± 1.7	4 ± 1.0	6 ± 1.8	5 ± 0.9
100.0	2 ± 0.3	3 ± 0.0	6 ± 0.9	8 ± 2.3	5 ± 0.6
333.0	3 ± 1.0	4 ± 0.3	5 ± 0.9	7 ± 1.8	6 ± 1.2
1000.0	1 ± 0.0 ^p		8 ± 2.5 ^p		7 ± 0.3 ^p
3333.0	0 ± 0.0 ^p		6 ± 0.9 ^p		3 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			231 ± 6.8	89 ± 7.4	300 ± 9.9
Positive Control ⁴					
Positive Control ⁵	973 ± 21.5	769 ± 48.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2
3.3	6 ± 2.3
10.0	6 ± 2.1
33.0	6 ± 1.2
100.0	4 ± 1.0
333.0	6 ± 0.3
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	135 ± 7.7
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5	39 ± 4.7	20 ± 0.9	44 ± 3.9	22 ± 0.7
3.3		55 ± 2.4		57 ± 4.3	
10.0		56 ± 1.5		61 ± 6.6	
33.0	7 ± 0.6	46 ± 2.2	28 ± 4.9	65 ± 2.4	19 ± 2.9
100.0	8 ± 0.9	60 ± 2.2	30 ± 0.3	66 ± 6.4	23 ± 4.1
333.0	7 ± 1.2	63 ± 8.4	14 ± 1.2	45 ± 7.2	18 ± 0.3
1000.0	5 ± 0.6 ^p		24 ± 0.7 ^p		11 ± 0.0 ^p
3333.0	2 ± 0.3 ^p		11 ± 0.9 ^p		12 ± 5.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1822 ± 28.8	1188 ± 11.3	804 ± 10.2
Positive Control ⁶	403 ± 9.2	347 ± 6.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	48 ± 1.9
3.3	45 ± 0.6
10.0	55 ± 7.3
33.0	48 ± 3.7
100.0	51 ± 1.2
333.0	47 ± 3.9
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	1606 ± 49.4
Positive Control 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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 1.0 ug/Plate Sodium Azide

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****