

Experiment Number: 278686

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 09/11/2018

Time Report Requested: 14:42:36

NTP Study Number:

278686

Study Result:

Weakly Positive

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G06: Ames Summary Data

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	117 ± 4.3	160 ± 8.5	151 ± 2.1	170 ± 4.3	130 ± 15.2
3.0		176 ± 6.4	165 ± 19.7	160 ± 14.7	
10.0		196 ± 17.8	178 ± 13.9	174 ± 0.6	145 ± 12.0
33.0		267 ± 10.7	261 ± 7.5	231 ± 23.9	182 ± 11.8
66.0					212 ± 10.6
100.0	127 ± 2.4	289 ± 7.7	284 ± 14.1	232 ± 9.9	218 ± 8.0
166.0			286 ± 19.2		
333.0	116 ± 1.8 ^P	240 ± 29.0 ^P		217 ± 21.8 ^P	216 ± 5.2 ^P
1000.0	84 ± 6.1 ^P				
3333.0	108 ± 6.4 ^P				
10000.0	106 ± 12.2 ^P				
Trial Summary	Negative	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²				473 ± 33.1	525 ± 18.7
Positive Control ³	336 ± 9.2				
Positive Control ⁴		556 ± 19.2	562 ± 16.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.5	33 ± 2.3	33 ± 4.7
3.0		34 ± 4.4	32 ± 2.3
10.0		27 ± 3.2	30 ± 0.9
33.0		40 ± 1.2	41 ± 1.9
100.0	20 ± 1.9	33 ± 3.2	36 ± 4.8
333.0	20 ± 3.4 ^P	30 ± 2.2 ^P	22 ± 4.5 ^P
1000.0	15 ± 1.5 ^P		
3333.0	10 ± 0.6 ^P		
10000.0	11 ± 2.4 ^P		
Trial Summary	Negative	Negative	Negative
Positive Control ²		178 ± 15.6	370 ± 7.5
Positive Control ⁵	636 ± 5.0		

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****