

Experiment Number: 399853

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

G06: Ames Summary Data

Test Compound: **Emodin**

CAS Number: **518-82-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **16:34:00**

NTP Study Number:

399853

Study Result:

Positive

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Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	163 ± 7.5	126 ± 11.5	95 ± 6.9	96 ± 10.8	162 ± 11.1
1.0			102 ± 8.1	106 ± 11.0	144 ± 9.0
3.0					
10.0	139 ± 4.0	124 ± 6.9	143 ± 9.4	151 ± 18.4	160 ± 6.8
33.0	134 ± 2.0	117 ± 4.0	178 ± 5.7	144 ± 15.7	217 ± 4.1
66.0					
100.0	151 ± 1.2	91 ± 7.3	199 ± 12.0	184 ± 12.5	234 ± 5.0
166.0			140 ± 5.8	141 ± 5.0	
333.0	114 ± 7.8 ^P	92 ± 3.8 ^P	103 ± 6.7 ^P	132 ± 15.0 ^P	249 ± 15.0 ^P
666.0					
1000.0	95 ± 6.4 ^P	84 ± 8.2 ^P			
Trial Summary	Negative	Negative	Positive	Positive	Weakly Positive
Positive Control ²					
Positive Control ³			740 ± 18.3	483 ± 10.9	
Positive Control ⁴					501 ± 16.6
Positive Control ⁵	977 ± 36.8	1384 ± 50.2			

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Mutagenicity**Test Compound: **Emodin**Time Report Requested: **16:34:00****Strain: TA100**

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	138 ± 7.2	99 ± 7.3	120 ± 4.0	94 ± 3.3	95 ± 4.5
1.0	139 ± 5.5	137 ± 10.9	136 ± 13.0		
3.0				113 ± 10.3	119 ± 5.4
10.0	157 ± 4.2	139 ± 6.2	164 ± 3.1	155 ± 6.8	146 ± 5.7
33.0	211 ± 9.8	192 ± 16.9	191 ± 9.9	150 ± 9.8	167 ± 4.8
66.0			219 ± 5.7	159 ± 8.7	198 ± 9.6
100.0	228 ± 7.9	216 ± 16.0	252 ± 19.3	139 ± 6.7	178 ± 9.8
166.0		212 ± 1.7		140 ± 11.1	154 ± 4.0
333.0	226 ± 7.4 ^p	154 ± 4.7 ^p			
666.0					
1000.0					
Trial Summary	Weakly Positive	Positive	Positive	Equivocal	Positive
Positive Control ²				1295 ± 24.5	800 ± 43.9
Positive Control ³					
Positive Control ⁴	393 ± 22.6	474 ± 16.6	396 ± 13.3		
Positive Control ⁵					

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

Time Report Requested: 16:34:00

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	142 ± 3.0	127 ± 7.5	95 ± 9.0	117 ± 3.0
1.0				
3.0			118 ± 8.4	120 ± 14.5
10.0	186 ± 6.3	155 ± 2.5	143 ± 3.8	140 ± 6.7
33.0	235 ± 8.4	171 ± 8.3	175 ± 18.8	186 ± 12.3
66.0			204 ± 14.4	223 ± 14.2
100.0	245 ± 3.5	192 ± 12.2	239 ± 3.5	225 ± 14.7
166.0			218 ± 16.2	
333.0	235 ± 5.5 ^p	169 ± 10.2 ^p		
666.0	187 ± 6.4 ^p	152 ± 15.5 ^p		
1000.0				
Trial Summary	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control ²				
Positive Control ³	950 ± 34.6	590 ± 26.3	610 ± 25.7	561 ± 38.7
Positive Control ⁴				
Positive Control ⁵				

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Test Compound: Emodin

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Date Report Requested: 09/14/2018

Time Report Requested: 16:34:00

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.8	21 ± 3.5	39 ± 1.3	37 ± 8.3	41 ± 1.7
1.0			33 ± 2.0	33 ± 6.4	
10.0	23 ± 3.3	21 ± 4.4	30 ± 1.0	20 ± 0.6	39 ± 0.9
33.0	26 ± 3.2	24 ± 2.1	25 ± 3.3	24 ± 0.9	35 ± 3.8
100.0	29 ± 1.5	18 ± 2.8	28 ± 2.0	22 ± 0.9	34 ± 3.2
333.0	28 ± 3.3 ^p	16 ± 2.9 ^p	29 ± 4.1 ^p	18 ± 1.8 ^p	38 ± 4.5 ^p
666.0					32 ± 3.0 ^p
1000.0	21 ± 4.2 ^p	11 ± 1.2 ^p			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			134 ± 8.7	138 ± 13.3	675 ± 19.6
Positive Control ⁶	587 ± 7.5	515 ± 29.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 0.3
1.0	
10.0	20 ± 3.2
33.0	23 ± 4.7
100.0	29 ± 3.0
333.0	19 ± 2.0 ^p
666.0	16 ± 0.9 ^p
1000.0	
Trial Summary	Negative
Positive Control ³	482 ± 30.1
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****