

Experiment Number: **840294**

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

G06: Ames Summary Data

Test Compound: **Senna (powdered)**

CAS Number: **8013-11-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **00:14:42**

NTP Study Number:

840294

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	90 ± 0.6	134 ± 10.2	120 ± 7.4	145 ± 1.5	135 ± 10.5
100.0	94 ± 2.5	140 ± 9.4			
333.0	105 ± 5.0	135 ± 2.0			
1000.0	90 ± 3.6	134 ± 2.7	121 ± 11.6	151 ± 4.7	145 ± 9.9
3333.0	89 ± 8.7 ^P	154 ± 3.2 ^P	133 ± 1.2	151 ± 8.1	174 ± 1.2
6666.0			129 ± 4.8	172 ± 9.1	209 ± 11.7
10000.0	74 ± 0.6 ^P	166 ± 8.6 ^P	144 ± 7.2	204 ± 8.3	238 ± 12.3
16666.0			142 ± 3.8	248 ± 18.4	231 ± 18.0
Trial Summary	Negative	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³		488 ± 9.4	474 ± 16.6	470 ± 11.8	396 ± 13.3
Positive Control ⁴	1569 ± 21.7				

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	113 ± 13.5	95 ± 9.5	122 ± 3.7	126 ± 7.3
100.0	95 ± 4.5			
333.0	130 ± 4.3			
1000.0	119 ± 10.0	103 ± 6.9	131 ± 4.4	111 ± 3.5
3333.0	123 ± 12.2 ^p	91 ± 3.2	144 ± 5.5	146 ± 7.7
6666.0		103 ± 5.3	158 ± 5.2	174 ± 12.4
10000.0	165 ± 3.2 ^p	138 ± 5.6	174 ± 9.2	186 ± 7.6
16666.0		121 ± 8.7	199 ± 11.8	195 ± 4.1
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²	676 ± 63.4	610 ± 25.7	775 ± 25.2	561 ± 38.7
Positive Control ³				
Positive Control ⁴				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹ 0.0	24 ± 3.7	41 ± 1.9	21 ± 3.1	31 ± 2.3	36 ± 2.1
100.0	28 ± 1.8	32 ± 5.3	24 ± 3.8	30 ± 3.8	33 ± 4.3
333.0	25 ± 3.2	21 ± 1.3	23 ± 5.0	29 ± 4.9	30 ± 4.0
1000.0	27 ± 2.3	24 ± 3.2	31 ± 0.9	26 ± 1.2	34 ± 2.9
1666.0					
3333.0	24 ± 0.6 ^p	82 ± 5.9 ^p	34 ± 4.2	69 ± 3.8	107 ± 10.9
6666.0					
10000.0	26 ± 2.2 ^p	77 ± 39.2 ^p	59 ± 9.1	167 ± 9.4	237 ± 15.5
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		122 ± 12.8	119 ± 6.2	133 ± 9.3	104 ± 10.1
Positive Control ⁵	557 ± 17.4				

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.0	25 ± 6.0	26 ± 3.5	25 ± 4.0	24 ± 2.5
0.0		2 ± 0.0			
100.0		21 ± 3.6	12 ± 2.9	20 ± 2.0	21 ± 3.0
333.0		24 ± 3.7	18 ± 3.4	20 ± 3.5	16 ± 1.2
1000.0	54 ± 2.4	28 ± 5.5	24 ± 4.2	28 ± 1.5	35 ± 4.5
1666.0	64 ± 11.8				
3333.0	121 ± 11.5	51 ± 4.1 ^P	39 ± 6.7	47 ± 7.9	71 ± 3.2
6666.0	150 ± 6.7				
10000.0	143 ± 13.5	70 ± 2.0 ^P	50 ± 0.6	101 ± 9.2	137 ± 4.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	81 ± 3.0	308 ± 22.2	529 ± 42.7	417 ± 13.3	354 ± 16.6
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.7
0.0	
100.0	
333.0	
1000.0	30 ± 1.2
1666.0	35 ± 2.2
3333.0	59 ± 4.4
6666.0	75 ± 1.2
10000.0	117 ± 7.8
Trial Summary	Positive
Positive Control ²	272 ± 8.1
Positive Control ⁵	

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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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

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

p: Precipitate

**** END OF REPORT ****