

Experiment Number: A24885

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Bixin

CAS Number: 6983-79-5

Date Report Requested: 09/18/2018

Time Report Requested: 09:31:06

NTP Study Number:

A24885

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	77 ± 5.0	70 ± 3.5	72 ± 7.6	65 ± 6.4
100.0	113 ± 9.5	81 ± 3.2	85 ± 6.0	77 ± 5.6
333.0	143 ± 8.6	117 ± 6.9	91 ± 8.3	81 ± 1.9
666.0	134 ± 4.4	145 ± 8.2		
1000.0	137 ± 5.5	160 ± 6.4	91 ± 2.9	90 ± 2.0
1666.0	44 ± 1.2 ^P	77 ± 9.9		
3333.0			96 ± 1.0 ^P	87 ± 3.6 ^P
10000.0			96 ± 1.7 ^P	85 ± 3.5 ^P
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ²	515 ± 30.8	489 ± 6.9		
Positive Control ³			755 ± 44.3	700 ± 76.4

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	219 ± 13.4	202 ± 7.2	241 ± 25.0	219 ± 6.4
33.0			310 ± 16.6	236 ± 4.4
100.0	233 ± 5.1	272 ± 2.5	336 ± 11.9	268 ± 0.3
333.0	211 ± 9.4	191 ± 16.0	341 ± 23.3	297 ± 11.3
1000.0	249 ± 25.2	198 ± 29.3	554 ± 7.9	639 ± 8.5
3333.0	187 ± 21.6	188 ± 26.4	620 ± 4.5	612 ± 12.5
10000.0	98 ± 3.4 ^p	128 ± 5.6 ^p	547 ± 30.8 ^p	554 ± 17.0 ^p
Trial Summary	Negative	Negative	Positive	Positive
Positive Control ⁴			354 ± 9.0	
Positive Control ⁵				980 ± 45.9
Positive Control ⁶	1228 ± 50.2	1314 ± 15.3		

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Strain: TA104				
Dose (ug/Plate)	Without S9	Without S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	296 ± 18.3	266 ± 17.4	354 ± 16.3	299 ± 17.0
33.0			376 ± 11.4	320 ± 21.6
100.0	241 ± 8.6	255 ± 18.2	384 ± 30.0	339 ± 7.6
333.0	247 ± 10.0	280 ± 7.3	399 ± 24.3	380 ± 9.5
1000.0	319 ± 14.3	324 ± 6.5	657 ± 7.8	730 ± 13.9
3333.0	365 ± 26.5	330 ± 24.8	788 ± 3.8	786 ± 14.8
10000.0	181 ± 19.5 ^p	108 ± 8.3 ^p	761 ± 9.9 ^p	744 ± 21.2 ^p
Trial Summary	Negative	Negative	Positive	Positive
Positive Control ⁴			1139 ± 29.8	1139 ± 47.0
Positive Control ⁷	569 ± 93.5			
Positive Control ⁸		1190 ± 8.4		

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

7: 5.0 ug/Plate Sodium Azide

8: 10.0 ug/Plate Sodium Azide

p: Precipitate

** END OF REPORT **