

Experiment Number: A40562

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Azure A

CAS Number: 531-53-3

Date Report Requested: 09/16/2018

Time Report Requested: 21:48:55

NTP Study Number:

A40562

Study Result:

Positive

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	79 ± 11.3	100 ± 4.5	69 ± 8.6	67 ± 3.5
5.0		140 ± 5.8		
10.0		252 ± 5.3		
25.0	557 ± 27.3	520 ± 46.4	87 ± 8.2	93 ± 7.5
50.0	191 ± 53.2	482 ± 24.1	112 ± 2.3	125 ± 5.7
100.0	123 ± 20.9	144 ± 47.5	110 ± 8.5	245 ± 38.0
250.0	Toxic		144 ± 4.6	131 ± 3.2
500.0	Toxic		17 ± 1.5 ^s	79 ± 14.0
1000.0				Toxic
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	636 ± 34.2	438 ± 26.5		
Positive Control ³			1114 ± 95.3	1053 ± 34.7

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Strain: TA98				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	31 ± 3.8	30 ± 1.2	26 ± 2.3	30 ± 1.5
5.0		47 ± 6.7		
10.0		121 ± 15.9		
25.0	180 ± 11.9	322 ± 3.1	31 ± 2.8	33 ± 2.4
50.0	143 ± 28.7	350 ± 21.4	44 ± 4.0	48 ± 5.2
100.0	131 ± 44.1	111 ± 39.9	39 ± 2.3	95 ± 15.5
250.0	35 ± 11.2		67 ± 3.8	62 ± 4.1
500.0	3 ± 2.0 ^x		66 ± 5.6	69 ± 7.7
1000.0				64 ± 7.2 ^p
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ³			1059 ± 52.6	818 ± 100.7
Positive Control ⁴	418 ± 48.8	257 ± 31.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	164 ± 2.3	178 ± 9.5	203 ± 13.2	194 ± 10.4
50.0		646 ± 5.2		211 ± 12.7
100.0		552 ± 15.4		297 ± 22.6
250.0	540 ± 119.0	577 ± 81.6	311 ± 7.8	543 ± 72.3
500.0	531 ± 28.0	540 ± 5.5	414 ± 32.2	344 ± 31.3
1500.0	161 ± 22.8 ^p	249 ± 12.9	381 ± 18.7	488 ± 38.4
2500.0	113 ± 6.9 ^p		392 ± 25.5	
3000.0		7 ± 2.6 ^x		129 ± 13.1
3500.0	8 ± 7.0 ^x		178 ± 10.2	
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁵			1148 ± 39.9	737 ± 79.2
Positive Control ⁶	1895 ± 117.5	1714 ± 57.9		

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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-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

** END OF REPORT **