

Experiment Number: 554373

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

G06: Ames Summary Data

Test Compound: **Hematoxylin**

CAS Number: **517-28-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **21:45:42**

NTP Study Number:

554373

Study Result:

Negative

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Mutagenicity

G06: Ames Summary Data

Test Compound: Hematoxylin

CAS Number: 517-28-2

Date Report Requested: 09/13/2018

Time Report Requested: 21:45:42

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	135 ± 3.2	63 ± 5.0	126 ± 6.0	81 ± 3.1	103 ± 2.5
3.3		51 ± 2.9			
10.0	135 ± 7.7	58 ± 1.3			
33.0	132 ± 4.7	57 ± 5.9		78 ± 3.3	
100.0	154 ± 14.4	44 ± 2.1	131 ± 6.4	78 ± 9.6	102 ± 6.7
333.0	125 ± 4.2 ^S	31 ± 3.0 ^S	119 ± 6.5	70 ± 2.8	100 ± 6.4
667.0	101 ± 12.1 ^S				
1000.0			112 ± 3.2	74 ± 3.5 ^P	114 ± 6.4
3333.0			82 ± 7.3 ^S	28 ± 5.2 ^P	96 ± 2.5 ^S
6666.0			20 ± 3.2 ^S		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1421 ± 33.7
Positive Control ³			1198 ± 46.9	933 ± 83.4	
Positive Control ⁴	1971 ± 5.3	1588 ± 19.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	73 ± 3.8
3.3	
10.0	
33.0	83 ± 7.5
100.0	84 ± 3.9
333.0	73 ± 4.2
667.0	
1000.0	86 ± 5.4 ^P
3333.0	30 ± 2.1 ^S
6666.0	
Trial Summary	Negative
Positive Control ²	1127 ± 24.0
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.7	21 ± 4.7	8 ± 2.0	11 ± 0.9	10 ± 2.0
3.3		17 ± 4.0			
10.0	19 ± 1.9	18 ± 1.3			
33.0	22 ± 0.6	20 ± 2.5		12 ± 2.7	
100.0	21 ± 1.2	18 ± 1.9	12 ± 1.9	11 ± 0.3	11 ± 1.5
333.0	12 ± 0.9 ^s	14 ± 2.4 ^s	9 ± 1.3	10 ± 2.8	8 ± 2.3
667.0	10 ± 1.5 ^s				
1000.0			15 ± 1.2	12 ± 2.8 ^p	8 ± 1.5
3333.0			11 ± 2.7	9 ± 2.0 ^p	11 ± 1.2
6666.0			10 ± 1.8 ^s		8 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					78 ± 2.3
Positive Control ³			61 ± 9.2	60 ± 0.6	
Positive Control ⁴	1172 ± 29.9	1208 ± 13.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.3
3.3	
10.0	
33.0	9 ± 2.6
100.0	7 ± 1.5
333.0	9 ± 1.8
667.0	
1000.0	12 ± 1.2 ^p
3333.0	10 ± 1.8 ^p
6666.0	
Trial Summary	Negative
Positive Control ²	127 ± 2.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: Hematoxylin

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Date Report Requested: 09/13/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3	6 ± 1.2	8 ± 1.2	6 ± 0.6	8 ± 1.5
3.3		5 ± 1.2			
10.0	11 ± 1.0	6 ± 2.7			
33.0	11 ± 1.5	5 ± 0.9		7 ± 1.0	
100.0	9 ± 1.0	6 ± 0.0	10 ± 0.6	7 ± 1.7	9 ± 0.9
333.0	10 ± 0.9	8 ± 1.0 ^s	9 ± 1.8	6 ± 1.8	8 ± 0.9
667.0	3 ± 0.6 ^s				
1000.0			8 ± 0.9	4 ± 0.3 ^p	9 ± 1.9
3333.0			6 ± 0.9	8 ± 1.5 ^p	9 ± 1.5
6666.0			6 ± 2.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					114 ± 25.5
Positive Control ³			79 ± 5.0	102 ± 13.3	
Positive Control ⁵	522 ± 77.3	336 ± 61.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7
3.3	
10.0	
33.0	8 ± 1.2
100.0	7 ± 2.4
333.0	8 ± 2.1
667.0	
1000.0	7 ± 1.2 ^p
3333.0	6 ± 0.3 ^p
6666.0	
Trial Summary	Negative
Positive Control ²	155 ± 15.0
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.1	18 ± 2.8	24 ± 1.5	23 ± 2.3	22 ± 2.4
3.3		18 ± 0.7			
10.0	15 ± 0.9	20 ± 2.7			
33.0	14 ± 2.0	19 ± 3.4		23 ± 3.7	
100.0	17 ± 3.0 ^S	24 ± 2.0	26 ± 3.2	22 ± 0.9	25 ± 4.8
333.0	17 ± 1.7 ^S	17 ± 1.9 ^S	24 ± 0.3	19 ± 1.2	25 ± 3.8
667.0	10 ± 3.2 ^S				
1000.0			24 ± 1.2	23 ± 4.2 ^P	26 ± 3.3
3333.0			25 ± 0.6	18 ± 3.5 ^P	19 ± 4.4
6666.0			19 ± 1.5		18 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1316 ± 44.0
Positive Control ³			998 ± 17.4	1172 ± 17.6	
Positive Control ⁶	1774 ± 51.6	1772 ± 52.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 1.2
3.3	
10.0	
33.0	23 ± 1.5
100.0	29 ± 2.7
333.0	22 ± 0.3
667.0	
1000.0	23 ± 2.0 ^P
3333.0	17 ± 1.7 ^P
6666.0	
Trial Summary	Negative
Positive Control ²	1751 ± 80.2
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****