

Experiment Number: 968252

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthralin

CAS Number: 1143-38-0

Date Report Requested: 09/17/2018

Time Report Requested: 22:30:21

NTP Study Number:

968252

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	134 ± 9.2	145 ± 2.5	147 ± 9.3	154 ± 9.0	139 ± 6.3
0.003		126 ± 17.0			
0.01	143 ± 5.3	128 ± 8.7			
0.03	142 ± 3.2	133 ± 15.4			
0.1	125 ± 8.1	139 ± 2.4	154 ± 4.6		
0.16		117 ± 9.0			
0.3	63 ± 11.2 ^s		148 ± 10.1	161 ± 5.5	130 ± 3.8
1.0	0 ± 0.0 ^s		168 ± 11.7	148 ± 11.3	144 ± 4.4
3.0			163 ± 7.8	158 ± 2.5	125 ± 17.0
10.0			161 ± 9.1	176 ± 1.2	117 ± 8.1
16.0				165 ± 12.6	
33.0					121 ± 18.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					824 ± 5.8
Positive Control ³			578 ± 26.8	361 ± 15.0	
Positive Control ⁴	323 ± 19.5	484 ± 8.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	153 ± 6.9
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	168 ± 5.1
1.0	161 ± 9.7
3.0	157 ± 11.3
10.0	159 ± 11.1
16.0	133 ± 4.7
33.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	834 ± 11.6
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.0	17 ± 2.1	12 ± 2.1	13 ± 2.4	10 ± 1.7
0.003		14 ± 0.7			
0.01	24 ± 3.6	15 ± 2.1			
0.03	20 ± 3.0	13 ± 0.9			
0.1	18 ± 2.0	14 ± 0.9	7 ± 1.5		
0.16		16 ± 3.5			
0.3	7 ± 1.5		10 ± 2.0	9 ± 1.9	12 ± 2.6
1.0	0 ± 0.0 ^s		13 ± 0.3	11 ± 0.7	9 ± 1.5
3.0			11 ± 2.1	14 ± 2.3	9 ± 2.3
10.0			9 ± 0.9	13 ± 0.3	9 ± 2.0
16.0				11 ± 0.6	
33.0					8 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					233 ± 31.2
Positive Control ⁴	243 ± 5.3	525 ± 6.7			
Positive Control ⁵			132 ± 7.6	144 ± 5.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	7 ± 0.7
1.0	12 ± 1.5
3.0	8 ± 1.2
10.0	13 ± 1.3
16.0	10 ± 1.2
33.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	540 ± 41.9

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 8.0	138 ± 5.9	179 ± 9.8	194 ± 9.8	167 ± 6.2
0.003		150 ± 2.2			
0.01	143 ± 12.4	130 ± 3.1			
0.03	154 ± 8.5	155 ± 10.3			
0.1	126 ± 11.7	162 ± 2.2	184 ± 2.9		
0.16		161 ± 8.4			
0.3	114 ± 19.7		190 ± 9.5	185 ± 7.0	164 ± 5.4
1.0	9 ± 4.4 ^s		184 ± 7.2	176 ± 16.5	173 ± 7.8
3.0			190 ± 7.8	205 ± 4.3	180 ± 11.2
10.0			198 ± 5.8	195 ± 11.1	181 ± 0.7
16.0				210 ± 4.4	
33.0					125 ± 52.5 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					455 ± 16.5
Positive Control ³			440 ± 17.8		
Positive Control ⁵				430 ± 33.5	
Positive Control ⁶	682 ± 25.8	384 ± 1.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	191 ± 7.7
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	178 ± 14.4
1.0	185 ± 7.9
3.0	203 ± 3.6
10.0	195 ± 4.8
16.0	210 ± 0.5
33.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	547 ± 15.5
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.5	31 ± 2.9	36 ± 2.7	32 ± 2.5	36 ± 4.7
0.003		23 ± 3.0			
0.01	26 ± 1.7	24 ± 4.2			
0.03	26 ± 1.2	26 ± 3.8			
0.1	22 ± 2.3	27 ± 2.8	34 ± 3.0		
0.16		30 ± 5.3			
0.3	9 ± 2.0 ^s		32 ± 4.1	36 ± 2.0	40 ± 2.4
1.0	0 ± 0.0 ^s		33 ± 3.8	35 ± 1.7	40 ± 3.8
3.0			30 ± 4.1	31 ± 3.5	39 ± 1.2
10.0			43 ± 1.5	37 ± 3.3	38 ± 1.5
16.0				35 ± 2.8	
33.0					20 ± 7.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					416 ± 9.5
Positive Control ³			274 ± 11.2	93 ± 10.3	
Positive Control ⁷	793 ± 18.0	798 ± 46.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 3.7
0.003	
0.01	
0.03	
0.1	
0.16	
0.3	37 ± 3.9
1.0	40 ± 2.7
3.0	31 ± 3.2
10.0	31 ± 3.8
16.0	34 ± 3.2
33.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	309 ± 33.8
Positive Control ⁷	

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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: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 50.0 ug/Plate 9-Aminoacridine
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **