

Experiment Number: 819417

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

G06: Ames Summary Data

Test Compound: **Danthron**

CAS Number: **117-10-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **14:41:45**

NTP Study Number:

819417

Study Result:

Weakly Positive

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Test Compound: Danthron

Time Report Requested: 14:41:45

Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	110 ± 6.9	95 ± 6.9	96 ± 10.8	135 ± 5.6	107 ± 7.3
1.0				117 ± 9.2	
1.6					
3.0	113 ± 9.3	112 ± 8.2	120 ± 4.6	134 ± 10.6	134 ± 10.3
6.0					
10.0	109 ± 4.7	122 ± 3.4	125 ± 8.1	158 ± 9.7	147 ± 23.2
16.0		135 ± 12.3	128 ± 3.2		137 ± 7.0
33.0	111 ± 15.8	122 ± 5.6	138 ± 14.1	167 ± 10.5	159 ± 0.3
66.0				158 ± 13.7	
100.0	106 ± 6.0	118 ± 6.8	151 ± 2.0	172 ± 12.3	166 ± 16.5
166.0		117 ± 3.0 ^P	129 ± 1.9 ^P		164 ± 11.2 ^P
333.0	96 ± 5.6 ^P				
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control ²					
Positive Control ³		740 ± 18.3	483 ± 10.9		
Positive Control ⁴				393 ± 22.6	474 ± 16.6
Positive Control ⁵	1384 ± 50.2				

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	130 ± 10.9	140 ± 3.2	116 ± 3.5	145 ± 9.8	94 ± 3.3
1.0		142 ± 4.2	104 ± 2.6	135 ± 5.7	
1.6		148 ± 13.9	112 ± 6.9	150 ± 4.3	
3.0	135 ± 6.7	130 ± 16.5	137 ± 0.6	147 ± 6.7	98 ± 3.9
6.0		161 ± 9.0	152 ± 4.2	151 ± 7.7	
10.0	170 ± 7.4	167 ± 0.7	149 ± 7.1	156 ± 8.0	130 ± 15.8
16.0		179 ± 5.2	167 ± 6.2	177 ± 6.0	120 ± 4.5
33.0	149 ± 2.8	164 ± 2.2	139 ± 7.2	169 ± 2.0	113 ± 8.2
66.0	172 ± 9.2	189 ± 0.6	142 ± 3.2	162 ± 19.4	
100.0	172 ± 6.4	220 ± 5.7	186 ± 8.5	184 ± 10.8	111 ± 12.0
166.0					123 ± 7.4 ^P
333.0					
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Equivocal	Negative
Positive Control ²					1295 ± 24.5
Positive Control ³					
Positive Control ⁴	396 ± 13.3	312 ± 3.8	403 ± 41.2	477 ± 57.3	
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	95 ± 4.5	116 ± 7.8	95 ± 9.0	118 ± 4.9	115 ± 6.9
1.0		116 ± 6.4			113 ± 2.1
1.6					123 ± 4.8
3.0	114 ± 9.8	131 ± 3.2	106 ± 6.9	126 ± 8.2	127 ± 6.4
6.0					105 ± 4.4
10.0	113 ± 6.9	129 ± 3.9	125 ± 12.7	137 ± 5.5	137 ± 1.5
16.0	104 ± 5.3		129 ± 1.3		138 ± 4.9
33.0	125 ± 8.8	146 ± 15.7	149 ± 8.4	135 ± 10.7	138 ± 2.7
66.0		138 ± 12.1		155 ± 10.3	123 ± 7.0
100.0	134 ± 3.8	157 ± 1.8	135 ± 2.3	158 ± 4.9	139 ± 6.4
166.0	124 ± 13.0 ^p		119 ± 0.3 ^p		
333.0					
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control ²	800 ± 43.9				
Positive Control ³		590 ± 26.3	610 ± 25.7	561 ± 38.7	532 ± 9.7
Positive Control ⁴					
Positive Control ⁵					

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.7	9 ± 1.5
3.0	10 ± 2.0	8 ± 2.0
10.0	12 ± 2.1	8 ± 0.7
33.0	10 ± 2.3	7 ± 1.3
66.0	13 ± 3.3	13 ± 0.6
100.0	10 ± 1.7	13 ± 0.3
Trial Summary	Negative	Negative
Positive Control ⁴		123 ± 6.2
Positive Control ⁶	51 ± 5.2	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 1.8	38 ± 5.8	22 ± 2.5
1.0		34 ± 4.3	22 ± 4.8
3.0	21 ± 3.7	34 ± 1.5	17 ± 1.2
10.0	17 ± 1.7	31 ± 2.6	19 ± 2.9
33.0	21 ± 1.9	36 ± 2.0	17 ± 1.7
66.0		36 ± 4.7	29 ± 4.3
100.0	16 ± 0.7	40 ± 4.3	25 ± 2.0
333.0	18 ± 2.0 ^P		
Trial Summary	Negative	Negative	Negative
Positive Control ³		138 ± 13.3	482 ± 30.1
Positive Control ⁷	515 ± 29.5		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****