

Experiment Number: 966907

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3,5,6-Tetrachloro-4-nitroanisole

CAS Number: 2438-88-2

Date Report Requested: 09/17/2018

Time Report Requested: 22:19:26

NTP Study Number:

966907

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	86 ± 3.8	86 ± 3.8	91 ± 6.0	87 ± 3.8	86 ± 7.3
0.3	83 ± 5.4	87 ± 1.2			
1.0	76 ± 6.7	81 ± 4.1			
3.3	71 ± 5.1 ^s	74 ± 2.6 ^s	84 ± 7.7	100 ± 6.1	71 ± 3.3
10.0	62 ± 11.0 ^s	77 ± 6.4 ^s	80 ± 5.2	98 ± 5.4	77 ± 0.3
33.0	50 ± 2.4 ^s	73 ± 4.0 ^s	85 ± 4.4	100 ± 7.8	81 ± 6.1
100.0			64 ± 6.0	93 ± 6.1	61 ± 8.8
333.0			50 ± 3.1 ^s	75 ± 15.1 ^s	41 ± 4.6 ^s
1000.0					
3333.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					283 ± 18.0
Positive Control ³	416 ± 10.4	406 ± 17.4			
Positive Control ⁴			288 ± 23.1		
Positive Control ⁵					
Positive Control ⁶				473 ± 11.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 7.2
0.3	
1.0	
3.3	99 ± 5.7
10.0	111 ± 1.2
33.0	113 ± 6.4
100.0	109 ± 5.5
333.0	3 ± 0.3 ^s
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	610 ± 16.2
Positive Control ⁶	

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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	15 ± 1.2	11 ± 0.7	8 ± 2.4	11 ± 2.4	11 ± 2.0
0.3		21 ± 3.2			
1.0	16 ± 1.9	12 ± 1.5			
3.3	14 ± 4.2	6 ± 1.0	8 ± 0.7	4 ± 0.6	12 ± 1.2
10.0	7 ± 1.0 ^s	3 ± 0.0 ^s	8 ± 2.0	10 ± 2.4	7 ± 0.7
33.0	4 ± 0.9 ^s	5 ± 2.0 ^s	10 ± 1.2	9 ± 1.5	6 ± 1.5
100.0	4 ± 0.3 ^s		5 ± 0.9	9 ± 1.5	4 ± 3.0
333.0			4 ± 1.9 ^s	4 ± 0.9 ^s	2 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					46 ± 3.3
Positive Control ³	90 ± 36.0	234 ± 17.2			
Positive Control ⁵					
Positive Control ⁶			109 ± 4.6	72 ± 12.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	5 ± 1.2
0.3	
1.0	
3.3	8 ± 0.9
10.0	9 ± 2.3
33.0	9 ± 1.0
100.0	5 ± 0.7
333.0	3 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	73 ± 4.9
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	5 ± 0.9	8 ± 1.5	8 ± 0.6	7 ± 1.5
0.3		8 ± 0.9			
1.0	5 ± 0.3	8 ± 2.0			
3.3	5 ± 0.7	7 ± 1.5	10 ± 3.1	5 ± 0.7	11 ± 1.7
10.0	5 ± 1.9	5 ± 1.7 ^s	7 ± 1.3	7 ± 1.5	8 ± 0.9
33.0	3 ± 0.3 ^s	4 ± 0.9 ^s	9 ± 0.7	9 ± 1.5	8 ± 2.3
100.0	2 ± 0.3 ^s		9 ± 1.0	4 ± 0.7	6 ± 0.3
333.0			3 ± 0.9 ^s	4 ± 0.9	4 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					99 ± 12.0
Positive Control ⁶			96 ± 2.1		
Positive Control ⁷				30 ± 3.8	
Positive Control ⁸	25 ± 2.4	47 ± 6.1			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.9
0.3	
1.0	
3.3	8 ± 1.0
10.0	9 ± 1.7
33.0	6 ± 1.7
100.0	6 ± 2.0
333.0	7 ± 0.7
Trial Summary	Negative
Positive Control ⁴	59 ± 1.2
Positive Control ⁶	
Positive Control ⁷	
Positive Control ⁸	

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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	71 ± 4.4	65 ± 1.5	112 ± 9.3	153 ± 14.0	113 ± 10.7
0.3		75 ± 4.0			
1.0	72 ± 3.8	79 ± 1.9			
3.3	74 ± 1.5	75 ± 1.5	115 ± 2.6	166 ± 17.0	103 ± 6.2
10.0	62 ± 4.1 ^s	45 ± 2.6 ^s	109 ± 5.5	149 ± 4.7	108 ± 2.0
33.0	43 ± 6.1 ^s	27 ± 4.2 ^s	109 ± 3.5	162 ± 13.4	135 ± 20.9
100.0	0 ± 0.0 ^s		64 ± 1.2 ^s	121 ± 12.2	46 ± 1.2 ^s
333.0			55 ± 3.8 ^s	67 ± 11.5 ^s	16 ± 9.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					883 ± 15.2
Positive Control ⁶			622 ± 30.7		
Positive Control ⁷				319 ± 17.0	
Positive Control ⁹	225 ± 3.2	138 ± 3.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	120 ± 7.7
0.3	
1.0	
3.3	125 ± 1.5
10.0	133 ± 4.5
33.0	113 ± 11.0
100.0	140 ± 3.2
333.0	28 ± 22.0 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	484 ± 17.9
Positive Control ⁹	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 3.5	20 ± 2.2	18 ± 2.1	28 ± 3.2	30 ± 3.7
0.3		14 ± 2.0	14 ± 1.5		
1.0		11 ± 2.6	18 ± 0.9		
3.3		12 ± 2.1	16 ± 2.0	22 ± 2.3	25 ± 3.4
10.0		10 ± 2.5 ^s	15 ± 1.3 ^s	32 ± 1.5	26 ± 2.0
33.0		9 ± 2.0 ^s	10 ± 0.3 ^s	31 ± 1.5	24 ± 1.5
100.0	10 ± 2.7 ^s			21 ± 5.7	27 ± 1.3
333.0	10 ± 2.6 ^s			16 ± 2.0 ^s	18 ± 4.6 ^s
1000.0	12 ± 1.5 ^s				
3333.0	11 ± 3.5 ^s				
10000.0	7 ± 3.7 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ²				65 ± 2.0	
Positive Control ⁵					147 ± 14.8
Positive Control ¹¹	254 ± 3.8	151 ± 9.5	168 ± 8.7		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	38 ± 1.3	29 ± 3.6
0.3		
1.0		
3.3	28 ± 5.3	34 ± 3.5
10.0	27 ± 2.2	36 ± 4.1
33.0	41 ± 3.2	27 ± 4.7
100.0	25 ± 2.9	29 ± 3.2
333.0	14 ± 1.8 ^s	17 ± 3.2 ^s
1000.0		
3333.0		
10000.0		
Trial Summary	Negative	Negative
Positive Control ¹⁰	181 ± 12.1	
Positive Control ²		149 ± 8.2
Positive Control ⁵		
Positive Control ¹¹		

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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: Acetone

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****