

Experiment Number: 574792

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitro-a,a,a-trifluorotoluene

CAS Number: 384-22-5

Date Report Requested: 09/14/2018

Time Report Requested: 05:29:45

NTP Study Number:

574792

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	107 ± 9.8	100 ± 7.0	128 ± 4.7	93 ± 3.8	109 ± 9.0
3.3		100 ± 10.3			
10.0		108 ± 4.7		101 ± 6.1	
33.3	119 ± 5.0	114 ± 8.6	121 ± 9.1	111 ± 12.8	109 ± 12.0
100.0	113 ± 6.7	100 ± 2.0	123 ± 7.5	100 ± 8.6	114 ± 12.0
333.3	79 ± 11.0 ^s	95 ± 7.0	118 ± 6.5	95 ± 11.6	110 ± 8.3
1000.0	10 ± 9.0 ^s		103 ± 12.0	97 ± 2.8	103 ± 6.8
3333.3	0 ± 0.0 ^s		86 ± 7.3 ^s		54 ± 9.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			498 ± 19.2	508 ± 25.7	1511 ± 44.1
Positive Control ³	520 ± 8.0	471 ± 3.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	
Vehicle Control ¹	93 ±	5.5
3.3		
10.0		
33.3	105 ±	3.9
100.0	101 ±	7.2
333.3	87 ±	3.8
1000.0	96 ±	4.9
3333.3	90 ±	9.0
Trial Summary	Negative	
Positive Control ²	1469 ±	135.5
Positive Control ³		

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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	13 ± 2.3	14 ± 0.3	11 ± 0.9	17 ± 0.9	12 ± 1.5
3.3		17 ± 0.9			
10.0		25 ± 4.1		10 ± 1.5	
33.3	17 ± 1.5	20 ± 4.1	7 ± 1.3	14 ± 1.2	12 ± 6.3
100.0	16 ± 1.7	22 ± 3.3	15 ± 3.2	10 ± 1.5	9 ± 0.9
333.3	11 ± 1.3 ^s	15 ± 2.3 ^s	7 ± 1.2	10 ± 2.4	9 ± 1.2
1000.0	3 ± 1.8 ^s		1 ± 1.3 ^s	9 ± 1.8 ^s	7 ± 0.3
3333.3	3 ± 2.7 ^s		0 ± 0.0 ^s		8 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	390 ± 4.2	361 ± 11.3			
Positive Control ⁴			221 ± 12.5	366 ± 7.2	233 ± 30.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.8
3.3	
10.0	
33.3	10 ± 0.7
100.0	9 ± 1.7
333.3	7 ± 1.9
1000.0	10 ± 0.3
3333.3	13 ± 2.1 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	284 ± 30.5

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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	9 ± 3.5	8 ± 0.7	6 ± 0.7	14 ± 2.3	9 ± 2.0
3.3		11 ± 2.2			
10.0		14 ± 3.1		15 ± 3.2	
33.3	9 ± 2.3	12 ± 2.6	8 ± 0.7	14 ± 3.2	5 ± 1.5
100.0	5 ± 1.5	14 ± 2.3	6 ± 1.9	15 ± 3.8	3 ± 0.3
333.3	0 ± 0.0 ^S	5 ± 1.2	7 ± 0.3	13 ± 0.3	4 ± 0.9
1000.0	2 ± 0.9 ^S		2 ± 0.6 ^S	14 ± 0.9	5 ± 1.2
3333.3	0 ± 0.0 ^S		0 ± 0.0 ^S		3 ± 1.2 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			99 ± 7.8	345 ± 6.9	243 ± 26.3
Positive Control ⁵	870 ± 97.6	87 ± 18.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.2
3.3	
10.0	
33.3	18 ± 1.0
100.0	18 ± 1.7
333.3	19 ± 3.2
1000.0	16 ± 1.2
3333.3	10 ± 2.4
Trial Summary	Negative
Positive Control ⁴	555 ± 30.1
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	25 ± 0.9	22 ± 3.8	26 ± 3.5	23 ± 2.1	28 ± 5.6
3.3		31 ± 5.8			
10.0		20 ± 3.5		37 ± 3.2	
33.3	28 ± 6.2	20 ± 2.6	40 ± 1.9	30 ± 1.7	32 ± 2.6
100.0	28 ± 2.3	21 ± 2.3	34 ± 2.2	29 ± 2.2	26 ± 3.7
333.3	14 ± 3.0	20 ± 2.8	30 ± 1.9	32 ± 4.2	27 ± 1.2
1000.0	7 ± 5.0 ^s		14 ± 1.9 ^s	31 ± 1.0	32 ± 2.5
3333.3	6 ± 0.7 ^s		12 ± 2.3 ^s		16 ± 5.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			367 ± 8.1	259 ± 7.0	1086 ± 57.3
Positive Control ⁶	741 ± 16.9	855 ± 43.6			

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Date Report Requested: 09/14/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 4.3
3.3	
10.0	
33.3	33 ± 2.5
100.0	34 ± 4.6
333.3	28 ± 1.8
1000.0	27 ± 3.8
3333.3	27 ± 4.7
Trial Summary	Negative
Positive Control ²	1177 ± 183.9
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****