

Experiment Number: 210591

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: p-Nitrobenzamide

CAS Number: 619-80-7

Date Report Requested: 09/14/2018

Time Report Requested: 15:02:29

NTP Study Number:

210591

Study Result:

Weakly Positive

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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	124 ± 2.3	84 ± 4.6	109 ± 6.4	108 ± 6.6	93 ± 4.1
10.0	108 ± 1.7		113 ± 5.8		90 ± 7.3
33.0	115 ± 4.8	89 ± 3.8	101 ± 5.5	85 ± 4.2	99 ± 4.2
100.0	115 ± 8.5	90 ± 8.7	101 ± 8.0	77 ± 2.7	109 ± 4.3
333.0	120 ± 2.1	89 ± 5.6	105 ± 9.5	91 ± 2.5	105 ± 2.9
1000.0	125 ± 4.3 ^s	84 ± 5.8	93 ± 7.8	77 ± 8.8	127 ± 9.8
3000.0		8 ± 3.1 ^s		55 ± 1.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					798 ± 5.5
Positive Control ³			1240 ± 82.0		
Positive Control ⁴				464 ± 28.7	
Positive Control ⁵	1975 ± 44.5	1612 ± 56.4			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	92 ± 5.6
10.0	
33.0	86 ± 4.3
100.0	86 ± 2.0
333.0	95 ± 3.7
1000.0	89 ± 1.2
3000.0	7 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	762 ± 31.2
Positive Control ⁵	

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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	29 ± 1.0	22 ± 5.0	11 ± 2.7	13 ± 3.5	7 ± 2.3
10.0	20 ± 0.7		9 ± 2.0		13 ± 0.6
33.0	27 ± 1.8	16 ± 0.9	9 ± 1.5	13 ± 0.6	12 ± 0.9
100.0	23 ± 5.0	17 ± 4.2	7 ± 1.2	8 ± 1.5	8 ± 2.0
333.0	21 ± 2.7	13 ± 1.5	10 ± 1.3	12 ± 2.3	11 ± 1.8
667.0					
1000.0	21 ± 1.2	19 ± 2.4	7 ± 1.3	9 ± 1.0	12 ± 5.4
2000.0					
3000.0		Toxic		12 ± 3.1	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					69 ± 4.4
Positive Control ³			103 ± 6.6		
Positive Control ⁴				83 ± 5.6	
Positive Control ⁵	1018 ± 31.6	968 ± 7.4			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 3.5	12 ± 2.1	10 ± 1.2
10.0			
33.0	11 ± 2.2	10 ± 2.1	
100.0	9 ± 2.8	9 ± 0.9	13 ± 1.5
333.0	16 ± 3.2	15 ± 1.8	21 ± 3.2
667.0			27 ± 3.3
1000.0	27 ± 2.5	29 ± 0.9	39 ± 6.4
2000.0			66 ± 3.5
3000.0	5 ± 0.9 ^s	20 ± 5.8 ^s	76 ± 17.9 ^s
Trial Summary	Equivocal	Equivocal	Positive
Positive Control ²			
Positive Control ³			
Positive Control ⁴	86 ± 14.7	146 ± 8.1	226 ± 13.6
Positive Control ⁵			

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	102 ± 1.2	98 ± 7.6	185 ± 4.5	116 ± 8.9	147 ± 5.1
10.0	98 ± 4.7		171 ± 3.0		
33.0	125 ± 3.5	97 ± 11.3	198 ± 6.3	128 ± 3.2	151 ± 10.7
100.0	112 ± 14.0	98 ± 1.2	178 ± 9.2	111 ± 2.9	132 ± 5.3
333.0	123 ± 1.5	81 ± 15.0	171 ± 4.2	111 ± 8.0	137 ± 8.5
1000.0	114 ± 10.9	74 ± 9.3	102 ± 9.2	91 ± 7.3	106 ± 15.4
3000.0		Toxic		53 ± 5.0	60 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			1026 ± 31.8		
Positive Control ⁴				399 ± 15.4	430 ± 24.9
Positive Control ⁶	965 ± 22.5	316 ± 19.4			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	163 ± 6.2	116 ± 6.4	133 ± 5.5
10.0	169 ± 9.3		
33.0	133 ± 2.5	115 ± 3.6	133 ± 1.9
100.0	145 ± 8.9	103 ± 5.8	120 ± 2.4
333.0	166 ± 5.5	110 ± 2.6	113 ± 1.5
1000.0	120 ± 7.8	89 ± 2.7	74 ± 4.3
3000.0		0 ± 0.0 ^s	0 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	560 ± 8.7		
Positive Control ³			
Positive Control ⁴		540 ± 21.9	700 ± 14.5
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	41 ± 3.8	19 ± 0.0	66 ± 1.0	32 ± 5.0	69 ± 4.6
10.0	56 ± 9.4		60 ± 3.1		68 ± 3.2
33.0	46 ± 2.0	18 ± 0.7	64 ± 6.1	37 ± 2.3	64 ± 5.8
100.0	55 ± 3.2	17 ± 2.2	65 ± 7.0	38 ± 3.5	55 ± 3.2
333.0	54 ± 7.5	25 ± 3.2	60 ± 7.8	40 ± 1.9	68 ± 2.8
1000.0	49 ± 3.5	23 ± 3.7	71 ± 3.8	30 ± 2.4	72 ± 8.3
3000.0		14 ± 2.3 ^s		24 ± 4.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					735 ± 30.5
Positive Control ³			1289 ± 12.6		
Positive Control ⁴				369 ± 11.5	
Positive Control ⁷	1902 ± 62.8	1574 ± 30.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 4.3
10.0	
33.0	32 ± 2.8
100.0	32 ± 3.2
333.0	32 ± 3.2
1000.0	30 ± 6.9
3000.0	24 ± 2.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	712 ± 15.6
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****