

Experiment Number: 987998

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitro-p-phenylenediamine

CAS Number: 5307-14-2

Date Report Requested: 09/18/2018

Time Report Requested: 07:33:36

NTP Study Number:

987998

Study Result:

Positive

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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	92 ± 10.5	148 ± 16.5	121 ± 13.7	139 ± 23.8	112 ± 2.1
10.0					
33.0	104 ± 6.1		137 ± 6.7	153 ± 18.4	160 ± 3.8
100.0	120 ± 5.7	176 ± 13.7	169 ± 7.2	189 ± 25.6	235 ± 6.4
333.0	177 ± 1.2	204 ± 5.1	243 ± 22.4	274 ± 22.1	466 ± 30.8
1000.0	291 ± 21.6	278 ± 7.0	328 ± 10.9	360 ± 10.2	743 ± 57.9
1666.0		320 ± 7.9			
3333.0	490 ± 20.4	440 ± 19.4	331 ± 40.4	428 ± 11.2	686 ± 28.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					309 ± 8.0
Positive Control ³			330 ± 6.8	448 ± 12.4	
Positive Control ⁴	573 ± 13.3	362 ± 20.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	150 ± 6.2
10.0	167 ± 4.3
33.0	178 ± 9.3
100.0	307 ± 13.0
333.0	504 ± 18.0
1000.0	748 ± 8.7
1666.0	
3333.0	
Trial Summary	Positive
Positive Control ²	473 ± 10.4
Positive Control ³	
Positive Control ⁴	

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CAS Number: 5307-14-2

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.0	10 ± 0.7	7 ± 1.5	7 ± 0.7	8 ± 0.3
33.0	19 ± 1.5	10 ± 1.7		16 ± 1.8	12 ± 1.5
100.0	16 ± 3.3	14 ± 2.6	14 ± 3.0	16 ± 1.2	15 ± 3.8
333.0	22 ± 3.8	21 ± 1.5	25 ± 2.3	22 ± 4.6	22 ± 3.0
1000.0	29 ± 2.0	25 ± 2.3	22 ± 2.2	29 ± 2.2	31 ± 1.5
3333.0	24 ± 2.9	28 ± 4.0	29 ± 0.7	31 ± 2.6	35 ± 5.2
6666.0			27 ± 3.2		
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³				175 ± 13.6	146 ± 12.1
Positive Control ⁴	445 ± 27.4				
Positive Control ⁵		139 ± 12.9	377 ± 17.7		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	142 ± 7.4	148 ± 7.2	136 ± 3.3	151 ± 11.4	152 ± 1.8
3.0					
10.0				190 ± 18.4	
33.0	177 ± 1.7	175 ± 12.3	247 ± 20.0	254 ± 4.2	371 ± 5.9
66.0				382 ± 18.7	
100.0	203 ± 5.7	201 ± 6.7	501 ± 37.2	454 ± 26.1	712 ± 22.5
333.0	321 ± 15.6	270 ± 16.0	865 ± 77.1	806 ± 36.9	1432 ± 24.7
666.0		251 ± 31.6			
1000.0	517 ± 30.2	298 ± 55.1	1312 ± 12.9		1951 ± 11.3
3333.0	464 ± 30.7 ^s		697 ± 45.5 ^s		1335 ± 228.4 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					325 ± 16.6
Positive Control ³			303 ± 5.6	271 ± 4.8	
Positive Control ⁶	826 ± 25.6	570 ± 20.0			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	167 ± 9.2
3.0	174 ± 1.9
10.0	195 ± 8.6
33.0	314 ± 10.3
66.0	472 ± 43.0
100.0	608 ± 15.2
333.0	
666.0	
1000.0	
3333.0	
Trial Summary	Positive
Positive Control ²	355 ± 13.3
Positive Control ³	
Positive Control ⁶	

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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	18 ± 1.5	36 ± 2.5	34 ± 1.8	35 ± 4.7	27 ± 2.3
0.3					
1.0					
3.0				37 ± 2.9	
10.0		37 ± 4.4		60 ± 4.7	
33.0	56 ± 5.9	51 ± 0.3	245 ± 22.6	231 ± 20.3	519 ± 11.8
66.0				459 ± 29.9	
100.0	128 ± 8.0	122 ± 0.0	755 ± 58.4	570 ± 14.2	1175 ± 45.8
333.0	355 ± 21.9	296 ± 5.8	1196 ± 98.8		2536 ± 83.2
1000.0	703 ± 15.6	542 ± 17.2	1420 ± 110.4		3234 ± 40.7
3333.0	0 ± 0.0 ^s		1366 ± 106.2		3174 ± 121.1 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					241 ± 32.1
Positive Control ³			167 ± 8.7	243 ± 16.0	
Positive Control ⁷	328 ± 16.5	474 ± 5.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 2.5
0.3	36 ± 9.2
1.0	36 ± 7.3
3.0	37 ± 4.6
10.0	94 ± 5.5
33.0	374 ± 26.5
66.0	
100.0	
333.0	
1000.0	
3333.0	
Trial Summary	Positive
Positive Control ²	297 ± 21.9
Positive Control ³	
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 ****