

Experiment Number: 731425

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

G06: Ames Summary Data

Test Compound: **2-Nitrodiphenylamine**

CAS Number: 119-75-5

Date Report Requested: **09/18/2018**

Time Report Requested: **08:54:16**

NTP Study Number:

731425

Study Result:

Negative

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Test Compound: 2-Nitrodiphenylamine

CAS Number: 119-75-5

Date Report Requested: 09/18/2018

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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	114 ± 4.9	134 ± 9.3	148 ± 6.4	149 ± 12.2	134 ± 13.8
0.3	96 ± 6.0	122 ± 9.3			
1.0	110 ± 13.7	123 ± 3.5			
3.0	98 ± 5.5	100 ± 9.9	138 ± 1.9		
10.0	96 ± 3.5	94 ± 7.6	137 ± 14.2	114 ± 4.6	132 ± 8.3
16.0		104 ± 2.7			
33.0	28 ± 6.4 ^s		136 ± 3.0	129 ± 18.4	124 ± 18.4
100.0			127 ± 7.8	116 ± 8.2	134 ± 8.8
333.0			93 ± 9.7	94 ± 10.2	101 ± 8.2
666.0				21 ± 4.8 ^s	
1000.0					0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					337 ± 8.4
Positive Control ³			316 ± 2.3		
Positive Control ⁴	330 ± 14.3	342 ± 0.6			
Positive Control ⁵				483 ± 4.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 1.2
0.3	
1.0	
3.0	
10.0	110 ± 15.1
16.0	
33.0	93 ± 5.9
100.0	96 ± 3.0
333.0	59 ± 29.8
666.0	83 ± 3.9 ^s
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	238 ± 17.8
Positive Control ⁴	
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	24 ± 1.7	10 ± 0.6	9 ± 1.3	11 ± 2.6	11 ± 2.7
0.3	22 ± 0.9	11 ± 1.9			
1.0	16 ± 1.2	7 ± 0.6			
3.0	17 ± 1.8	7 ± 1.5	12 ± 3.0		
10.0	18 ± 2.2	10 ± 2.2	10 ± 4.2	10 ± 1.9	8 ± 0.3
16.0		4 ± 0.9 ^s			
33.0	4 ± 2.1 ^s		13 ± 0.6	12 ± 0.6	12 ± 5.0
100.0			8 ± 1.9	13 ± 2.3	9 ± 1.3
333.0			9 ± 1.3	8 ± 2.6	8 ± 1.3
666.0				1 ± 0.6 ^s	
1000.0					0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	232 ± 14.9	104 ± 4.4			
Positive Control ³					138 ± 12.0
Positive Control ⁶			100 ± 6.5		
Positive Control ⁷				316 ± 23.0	

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Test Compound: **2-Nitrodiphenylamine**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 2.2
0.3	
1.0	
3.0	
10.0	7 ± 0.6
16.0	
33.0	6 ± 0.6
100.0	6 ± 2.1
333.0	5 ± 1.5
666.0	0 ± 0.3 ^s
1000.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁶	138 ± 21.4
Positive Control ⁷	

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Test Compound: 2-Nitrodiphenylamine

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	150 ± 6.7	145 ± 7.9	165 ± 11.0	177 ± 14.5	182 ± 11.2
0.3	155 ± 7.4	145 ± 14.2			
1.0	143 ± 4.0	121 ± 10.3			
3.0	143 ± 10.3	124 ± 11.7	176 ± 14.0		
10.0	134 ± 4.3	128 ± 15.8	195 ± 12.6	166 ± 10.3	182 ± 2.0
16.0		95 ± 10.3			
33.0	125 ± 7.9		159 ± 4.3	140 ± 15.1	211 ± 14.2
100.0			175 ± 12.2	109 ± 56.3	201 ± 3.5
333.0			45 ± 15.5	85 ± 10.2	119 ± 11.9
666.0				11 ± 3.1	7 ± 0.9 ^s
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					596 ± 18.0
Positive Control ³			530 ± 20.0		
Positive Control ⁶				471 ± 14.4	
Positive Control ⁸	550 ± 19.9	823 ± 89.5			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	152 ± 1.0	165 ± 7.2	120 ± 12.2	182 ± 8.4
0.3				
1.0				
3.0				
10.0	191 ± 4.5	168 ± 8.2	187 ± 6.2	211 ± 5.2
16.0				
33.0	196 ± 5.5	156 ± 7.2	193 ± 5.0	212 ± 5.0
100.0	177 ± 7.6	173 ± 13.8	188 ± 1.5	200 ± 11.7
333.0	87 ± 7.0	155 ± 7.5	162 ± 7.0	176 ± 1.2
666.0		16 ± 4.5 ^s	51 ± 17.2 ^s	47 ± 5.4 ^s
1000.0	3 ± 1.2			
Trial Summary	Equivocal	Negative	Equivocal	Negative
Positive Control ²	595 ± 60.6	398 ± 16.4		
Positive Control ³			324 ± 12.5	348 ± 8.2
Positive Control ⁶				
Positive Control ⁸				

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Test Compound: 2-Nitrodiphenylamine

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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	18 ± 2.1	21 ± 1.9	27 ± 2.9	20 ± 2.0	27 ± 3.0
0.3	19 ± 3.8	14 ± 1.5			
1.0	13 ± 4.3	15 ± 2.0			
3.0	14 ± 3.7	13 ± 4.0	30 ± 0.9		
10.0	17 ± 0.7	14 ± 2.3	33 ± 4.2	24 ± 4.0	30 ± 2.3
16.0		14 ± 1.0			
33.0	12 ± 2.7		28 ± 5.2	22 ± 2.1	43 ± 2.3
100.0			24 ± 4.0	18 ± 0.9	32 ± 2.9
333.0			24 ± 6.9	21 ± 1.9	28 ± 0.3
666.0				15 ± 2.8	
1000.0					20 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					769 ± 6.9
Positive Control ³			272 ± 7.4	173 ± 10.4	
Positive Control ⁹	394 ± 16.8	493 ± 7.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 3.2
0.3	
1.0	
3.0	
10.0	32 ± 3.0
16.0	
33.0	27 ± 1.7
100.0	29 ± 4.5
333.0	30 ± 4.4
666.0	26 ± 0.9
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	86 ± 2.5
Positive Control ⁹	

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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: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****