

Experiment Number: 127784

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

G06: Ames Summary Data

Test Compound: **N-Phenylbenzenamine**

CAS Number: 122-39-4

Date Report Requested: 09/12/2018

Time Report Requested: 02:39:56

NTP Study Number:

127784

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	129 ± 7.2	169 ± 3.8	141 ± 1.2	166 ± 6.1	134 ± 10.2
1.0	135 ± 3.8	170 ± 11.2			
3.0	150 ± 2.7	153 ± 14.4	139 ± 6.5	176 ± 8.1	144 ± 11.3
10.0	134 ± 3.0	149 ± 18.6	149 ± 3.6	175 ± 4.8	128 ± 2.0
33.0	133 ± 8.5	111 ± 24.5	142 ± 3.3	172 ± 4.6	115 ± 5.3
66.0		Toxic			
100.0	Toxic		115 ± 1.2	163 ± 6.7	122 ± 5.2
166.0				142 ± 14.8	
333.0			0 ± 0.0 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1353 ± 27.5
Positive Control ³			1166 ± 31.3	412 ± 28.2	
Positive Control ⁴	413 ± 7.5	428 ± 13.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	146 ± 9.6
1.0	
3.0	145 ± 4.7
10.0	155 ± 12.1
33.0	161 ± 7.1
66.0	
100.0	156 ± 3.2
166.0	107 ± 11.1
333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	637 ± 70.2
Positive Control ⁴	

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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	32 ± 2.9	33 ± 1.3	8 ± 0.3	12 ± 1.2	9 ± 1.3
1.0	39 ± 8.4	28 ± 2.2			
3.0	35 ± 3.3	33 ± 1.8	8 ± 0.9	12 ± 2.3	10 ± 1.7
10.0	32 ± 5.8	31 ± 2.1	7 ± 0.9	12 ± 1.5	13 ± 2.1
33.0	31 ± 1.5	28 ± 1.7	10 ± 2.3	11 ± 0.6	13 ± 0.9
66.0		Toxic			
100.0	Toxic		7 ± 0.6	11 ± 2.4	12 ± 0.9
166.0				10 ± 1.9	
333.0			Toxic		1 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					234 ± 2.6
Positive Control ⁴	477 ± 25.0	384 ± 9.4			
Positive Control ⁵			308 ± 13.1	94 ± 4.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
1.0	
3.0	9 ± 0.3
10.0	11 ± 3.5
33.0	15 ± 0.6
66.0	
100.0	13 ± 1.8
166.0	11 ± 2.2
333.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	294 ± 4.7

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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	173 ± 4.5	176 ± 10.7	157 ± 9.6	187 ± 4.8	140 ± 5.2
1.0	175 ± 9.8	200 ± 3.0			
3.0	178 ± 11.7	190 ± 3.6	172 ± 6.1	197 ± 9.3	149 ± 5.5
10.0	174 ± 5.9	189 ± 9.8	185 ± 3.9	199 ± 4.7	152 ± 5.4
33.0	153 ± 14.1	19 ± 18.7 ^s	192 ± 7.0	196 ± 3.2	137 ± 11.5
66.0		Toxic			
100.0	Toxic		156 ± 3.0	178 ± 1.5	105 ± 9.5
166.0				154 ± 12.7	
333.0			Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					672 ± 27.1
Positive Control ³			759 ± 52.6		
Positive Control ⁵				428 ± 9.4	
Positive Control ⁶	373 ± 16.0	342 ± 18.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	172 ± 6.4
1.0	
3.0	200 ± 2.0
10.0	195 ± 6.9
33.0	184 ± 4.1
66.0	
100.0	183 ± 3.7
166.0	166 ± 12.5
333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	849 ± 35.1
Positive Control 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	25 ± 0.7	22 ± 0.6	43 ± 1.2	37 ± 5.2	34 ± 2.3
1.0	31 ± 3.5	27 ± 4.7			
3.0	23 ± 4.3	23 ± 1.8	49 ± 5.0	34 ± 5.5	30 ± 0.9
10.0	32 ± 0.0	23 ± 3.3	41 ± 2.0	31 ± 2.3	34 ± 4.2
33.0	18 ± 1.5	15 ± 2.9	35 ± 2.3	36 ± 4.6	30 ± 1.3
66.0		0 ± 0.0 ^s			
100.0	Toxic		28 ± 2.4	34 ± 3.2	29 ± 4.0
166.0				24 ± 5.5	
333.0			8 ± 8.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					956 ± 35.8
Positive Control ³			757 ± 26.2	265 ± 51.2	
Positive Control ⁷	655 ± 9.2	1012 ± 19.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 3.2
1.0	
3.0	36 ± 2.6
10.0	35 ± 4.2
33.0	30 ± 2.1
66.0	
100.0	30 ± 3.6
166.0	24 ± 0.9
333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	237 ± 8.1
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: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****