

Experiment Number: 302466

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Phenyl-1-naphthylamine

CAS Number: 90-30-2

Date Report Requested: 09/12/2018

Time Report Requested: 03:04:35

NTP Study Number:

302466

Study Result:

Negative

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Test Compound: N-Phenyl-1-naphthylamine
CAS Number: 90-30-2

Date Report Requested: 09/12/2018

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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	130 ± 6.1	91 ± 2.8	108 ± 3.2	146 ± 4.4	83 ± 4.6
0.1	118 ± 5.7				
0.3	110 ± 5.0	88 ± 5.7			
1.0	68 ± 35.6	90 ± 4.3			
3.0	115 ± 3.6	90 ± 1.5		124 ± 11.6	
10.0	88 ± 2.1	53 ± 1.8	115 ± 11.6	121 ± 7.5	97 ± 4.2
16.0		42 ± 7.4 ^s			
33.0			114 ± 5.8	104 ± 8.9	96 ± 8.3
100.0			102 ± 9.3	96 ± 9.2	108 ± 5.6
333.0			74 ± 5.6	122 ± 4.6	85 ± 6.7
666.0			53 ± 0.3 ^s		46 ± 9.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					659 ± 23.3
Positive Control ³			504 ± 29.6		
Positive Control ⁴	620 ± 21.0	393 ± 13.1			
Positive Control ⁵				392 ± 33.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	166 ± 6.6
0.1	
0.3	
1.0	
3.0	144 ± 5.2
10.0	150 ± 0.9
16.0	
33.0	121 ± 13.1
100.0	125 ± 1.5
333.0	105 ± 7.9
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	529 ± 8.4
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	22 ± 2.1	16 ± 3.5	11 ± 2.2	16 ± 2.0	10 ± 1.5
0.3	16 ± 1.8	15 ± 1.0			
1.0	20 ± 2.0	16 ± 2.3			
3.0	19 ± 2.5	14 ± 2.7			
10.0	19 ± 0.6	8 ± 0.3	8 ± 1.0	15 ± 0.3	8 ± 0.3
16.0	10 ± 5.2	8 ± 2.3			
33.0			6 ± 0.0	14 ± 3.1	7 ± 1.2
100.0			5 ± 0.3	14 ± 0.3	9 ± 2.0
333.0			7 ± 1.2	8 ± 0.9	5 ± 0.7
666.0			6 ± 0.9	5 ± 0.3	4 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	428 ± 21.9	370 ± 13.9			
Positive Control ⁶			289 ± 27.7		303 ± 9.5
Positive Control ⁷				187 ± 12.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.3
0.3	
1.0	
3.0	
10.0	12 ± 1.5
16.0	
33.0	8 ± 1.9
100.0	11 ± 1.9
333.0	11 ± 1.5
666.0	6 ± 1.7
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	459 ± 37.3
Positive Control ⁷	

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Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5	8 ± 0.3	7 ± 0.7	10 ± 1.2	12 ± 1.9
0.3	7 ± 0.6	8 ± 1.3			
1.0	6 ± 2.2	6 ± 0.3			
3.0	6 ± 0.9	5 ± 1.5			
10.0	6 ± 2.7	3 ± 1.5	10 ± 1.2	13 ± 1.0	11 ± 4.0
16.0	5 ± 0.6	4 ± 0.0			
33.0			9 ± 1.8	11 ± 0.9	7 ± 2.4
100.0			7 ± 0.3	10 ± 0.9	10 ± 1.7
333.0			4 ± 0.9	4 ± 1.2	8 ± 2.5
666.0			2 ± 1.3 ^s	6 ± 2.6	3 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					78 ± 6.7
Positive Control ³			52 ± 1.5		
Positive Control ⁶				53 ± 0.6	
Positive Control ⁸	305 ± 22.6	416 ± 43.7			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.3
0.3	
1.0	
3.0	
10.0	12 ± 0.9
16.0	
33.0	8 ± 1.3
100.0	7 ± 0.7
333.0	6 ± 0.7
666.0	5 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	47 ± 3.2
Positive Control ⁶	
Positive Control ⁸	

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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	133 ± 2.3	126 ± 9.5	179 ± 8.9	193 ± 5.4	147 ± 9.8
0.3	136 ± 2.7	120 ± 3.3			
1.0	130 ± 2.3	132 ± 1.0			
3.0	122 ± 14.2	151 ± 7.4			
10.0	87 ± 43.7	118 ± 9.8	194 ± 6.4	173 ± 7.8	170 ± 5.7
16.0	119 ± 5.9	121 ± 10.8			
33.0			166 ± 7.5	150 ± 11.6	151 ± 6.9
100.0			152 ± 10.7	219 ± 8.4	172 ± 16.9
333.0			100 ± 5.3	180 ± 4.4	155 ± 10.1
666.0			47 ± 10.0 ^s	49 ± 4.2	56 ± 9.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					474 ± 20.5
Positive Control ³			480 ± 8.7		
Positive Control ⁶				351 ± 7.9	
Positive Control ⁸	793 ± 106.2	821 ± 13.2			

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Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	187 ± 2.4
0.3	
1.0	
3.0	
10.0	201 ± 5.6
16.0	
33.0	200 ± 9.6
100.0	114 ± 6.6
333.0	121 ± 60.5
666.0	114 ± 8.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	414 ± 25.2
Positive Control ⁶	
Positive Control ⁸	

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Test Compound: N-Phenyl-1-naphthylamine

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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	14 ± 2.8	14 ± 2.8	24 ± 3.0	20 ± 1.7	23 ± 2.2
0.1	14 ± 2.5				
0.3	15 ± 3.5	15 ± 2.2			
1.0	17 ± 3.8	16 ± 2.7			
3.0	16 ± 2.0	10 ± 0.3		22 ± 0.6	
10.0	13 ± 2.0	11 ± 4.0	25 ± 0.6	18 ± 2.6	31 ± 0.9
16.0		12 ± 1.5			
33.0			25 ± 2.9	25 ± 5.0	28 ± 2.3
100.0			18 ± 1.5	22 ± 3.6	24 ± 1.7
333.0			16 ± 2.0	15 ± 0.6	11 ± 2.8
666.0			9 ± 0.7 ^s		8 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					499 ± 39.3
Positive Control ³			316 ± 45.7	115 ± 7.3	
Positive Control ⁹	645 ± 32.0	624 ± 29.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 2.2
0.1	
0.3	
1.0	
3.0	34 ± 3.2
10.0	22 ± 1.2
16.0	
33.0	27 ± 4.1
100.0	27 ± 4.5
333.0	21 ± 0.6
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	251 ± 0.9
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 ****