

Experiment Number: 436761

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

G06: Ames Summary Data

Test Compound: **4-(2-Naphthylamino)phenol**

CAS Number: **93-45-8**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:20:03**

NTP Study Number:

436761

Study Result:

Negative

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Test Compound: 4-(2-Naphthylamino)phenol
CAS Number: 93-45-8

Date Report Requested: 09/10/2018

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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	152 ± 4.9	91 ± 5.4	102 ± 9.0	154 ± 4.4	89 ± 6.2
0.3		125 ± 5.8			
1.0	138 ± 8.1	104 ± 10.0			
3.0	138 ± 2.7	91 ± 2.9	98 ± 6.7		82 ± 7.3
10.0	126 ± 6.1	85 ± 0.7	108 ± 17.0	181 ± 8.9	105 ± 21.6
33.0	139 ± 7.2	46 ± 15.5 ^s	97 ± 6.1	156 ± 5.1	134 ± 3.5
66.0	Toxic				
100.0			90 ± 5.1	149 ± 7.9	113 ± 7.4
166.0			94 ± 6.8		83 ± 3.0
333.0				73 ± 2.5	
666.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					681 ± 36.9
Positive Control ³			414 ± 7.2		
Positive Control ⁴	231 ± 10.1	352 ± 7.2			
Positive Control ⁵				550 ± 31.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 5.6
0.3	
1.0	
3.0	
10.0	134 ± 15.7
33.0	159 ± 13.9
66.0	
100.0	124 ± 14.7
166.0	
333.0	96 ± 3.5
666.0	21 ± 9.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	612 ± 23.9
Positive Control ⁴	
Positive Control ⁵	

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CAS Number: 93-45-8

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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 ± 3.9	22 ± 3.8	12 ± 1.8	12 ± 0.9	14 ± 4.5
0.3	23 ± 2.7	23 ± 2.3			
1.0	23 ± 2.6	25 ± 2.7			
3.0	14 ± 1.9	23 ± 1.8	15 ± 3.0	11 ± 0.9	11 ± 2.3
10.0	17 ± 1.2	16 ± 1.8	13 ± 0.7	12 ± 2.6	15 ± 1.5
33.0	16 ± 2.2	20 ± 2.7	12 ± 1.5	10 ± 1.2	12 ± 1.7
100.0			11 ± 2.1	13 ± 2.2	13 ± 2.2
166.0			8 ± 0.9		12 ± 2.1
333.0				7 ± 2.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					269 ± 22.6
Positive Control ⁴	301 ± 19.3	301 ± 18.6			
Positive Control ⁶			165 ± 9.2		
Positive Control ⁷				122 ± 17.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.3
0.3	
1.0	
3.0	13 ± 2.1
10.0	11 ± 2.0
33.0	17 ± 3.8
100.0	13 ± 1.9
166.0	
333.0	13 ± 2.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	400 ± 31.3
Positive Control ⁷	

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Test Compound: 4-(2-Naphthylamino)phenol

CAS Number: 93-45-8

Date Report Requested: 09/10/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.2	12 ± 1.9	10 ± 1.2
0.3	9 ± 0.0		
1.0	8 ± 3.9		
3.0	7 ± 1.2	9 ± 0.6	10 ± 3.2
10.0	5 ± 1.2	9 ± 2.2	8 ± 0.9
33.0	6 ± 2.1	9 ± 2.2	10 ± 0.9
100.0		9 ± 2.0	11 ± 1.9
333.0		10 ± 1.3	6 ± 2.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			46 ± 4.0
Positive Control ⁶		61 ± 0.6	
Positive Control ⁸	392 ± 27.1		

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Date Report Requested: 09/10/2018

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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	170 ± 6.0	189 ± 9.6	193 ± 10.8	174 ± 11.7	190 ± 20.5
0.3	140 ± 19.0	198 ± 2.3			
1.0	177 ± 14.7	195 ± 3.5			
3.0	178 ± 7.2	202 ± 7.1	198 ± 0.7	174 ± 4.9	205 ± 8.0
10.0	171 ± 11.5	175 ± 12.0	204 ± 9.0	186 ± 12.3	194 ± 5.0
33.0	186 ± 7.6	184 ± 12.1	208 ± 4.5	182 ± 13.3	170 ± 3.5
100.0			190 ± 16.5	159 ± 23.1	121 ± 13.0
166.0			79 ± 6.6		67 ± 7.4 ^s
333.0				14 ± 2.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					332 ± 11.3
Positive Control ³			316 ± 6.7		
Positive Control ⁶				351 ± 12.2	
Positive Control ⁸	590 ± 41.3	433 ± 9.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 12.3
0.3	
1.0	
3.0	173 ± 13.6
10.0	156 ± 14.3
33.0	201 ± 7.0
100.0	189 ± 9.3
166.0	
333.0	12 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	343 ± 18.3
Positive Control ⁶	
Positive Control ⁸	

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Test Compound: 4-(2-Naphthylamino)phenol
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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	19 ± 2.3	14 ± 2.6	34 ± 3.1	24 ± 1.3	27 ± 2.2
0.3		17 ± 3.5			
1.0	17 ± 3.0	18 ± 3.8			
3.0	13 ± 2.2	16 ± 2.5	28 ± 1.5		37 ± 3.5
10.0	14 ± 2.5	14 ± 0.6	21 ± 2.7	24 ± 1.2	39 ± 0.3
33.0	15 ± 2.2	13 ± 1.5	15 ± 2.3	22 ± 1.5	31 ± 2.5
66.0	0 ± 0.0 ^s				
100.0			19 ± 2.5	17 ± 1.0	22 ± 1.7
166.0			18 ± 1.5		21 ± 3.5
333.0				12 ± 1.3	
666.0				6 ± 1.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					392 ± 31.0
Positive Control ³			193 ± 5.8	164 ± 9.8	
Positive Control ⁹	575 ± 4.9	401 ± 33.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 3.0
0.3	
1.0	
3.0	
10.0	31 ± 5.5
33.0	25 ± 3.0
66.0	
100.0	21 ± 1.7
166.0	
333.0	12 ± 1.8
666.0	9 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	376 ± 29.1
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 ****