

Experiment Number: 764371

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

G06: Ames Summary Data

Test Compound: **N-Phenylhydroxylamine**

CAS Number: **100-65-2**

Date Report Requested: **09/17/2018**

Time Report Requested: **19:52:57**

NTP Study Number:

764371

Study Result:

Positive

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Mutagenicity

G06: Ames Summary Data

Test Compound: N-Phenylhydroxylamine

CAS Number: 100-65-2

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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	146 ± 11.7	119 ± 11.0	145 ± 6.2	109 ± 8.9	166 ± 3.2
1.0	127 ± 10.3	129 ± 3.2			
3.3	132 ± 3.4	139 ± 7.0	129 ± 5.2		149 ± 3.5
10.0	139 ± 15.9	145 ± 2.3	151 ± 6.7	138 ± 8.0	159 ± 1.3
33.0	142 ± 7.2	152 ± 1.0	184 ± 9.7	196 ± 4.0	231 ± 19.4
50.0		98 ± 9.8 ^s			
67.0	Toxic				
100.0			232 ± 9.8	284 ± 16.5	431 ± 32.3
200.0				333 ± 14.6	
333.0			213 ± 7.7 ^s	196 ± 4.0 ^s	706 ± 34.1 ^s
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ²					1232 ± 37.7
Positive Control ³			970 ± 13.4	845 ± 68.0	
Positive Control ⁴	1008 ± 38.2	1274 ± 34.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	130 ± 9.7
1.0	
3.3	
10.0	136 ± 4.9
33.0	225 ± 18.8
50.0	
67.0	
100.0	827 ± 86.6
200.0	1261 ± 83.5
333.0	768 ± 76.4 ^s
Trial Summary	Positive
Positive Control ²	1166 ± 83.3
Positive Control ³	
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: N-Phenylhydroxylamine

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 4.3	18 ± 0.7	10 ± 1.8
1.0	22 ± 1.2		
3.3	19 ± 2.3	13 ± 1.5	10 ± 1.2
10.0	24 ± 1.5	16 ± 1.7	14 ± 1.5
33.0	18 ± 0.6	15 ± 2.5	16 ± 3.0
67.0	Toxic		
100.0		12 ± 1.5	18 ± 2.3
333.0		13 ± 2.5 ^s	13 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			85 ± 6.0
Positive Control ³		66 ± 5.1	
Positive Control ⁴	863 ± 11.3		

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Mutagenicity**G06: Ames Summary Data**

Test Compound: N-Phenylhydroxylamine

CAS Number: 100-65-2

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7	8 ± 1.5	10 ± 0.9
1.0	7 ± 1.5		
3.3	7 ± 1.0	10 ± 2.0	8 ± 0.9
10.0	6 ± 0.7	10 ± 1.8	9 ± 2.3
33.0	6 ± 1.2	9 ± 1.2	10 ± 2.3
67.0	10 ± 1.2		
100.0		10 ± 1.5	9 ± 2.3
333.0		9 ± 2.0 ^s	16 ± 3.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			105 ± 5.7
Positive Control ³		68 ± 7.1	
Positive Control ⁵	393 ± 30.0		

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Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: N-Phenylhydroxylamine

CAS Number: 100-65-2

Date Report Requested: 09/17/2018

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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	19 ± 4.6	21 ± 1.5	32 ± 4.1	26 ± 0.5	27 ± 3.2
1.0	18 ± 2.7	19 ± 4.2			
3.3	17 ± 2.9	18 ± 2.0	24 ± 1.8		34 ± 1.2
10.0	25 ± 3.2	20 ± 2.2	30 ± 3.6	35 ± 1.7	28 ± 1.5
33.0	20 ± 1.2	20 ± 0.7	37 ± 2.8	42 ± 6.0	41 ± 1.9
50.0		11 ± 1.0 ^s			
67.0	13 ± 3.0 ^s				
100.0			51 ± 4.2	66 ± 3.2	115 ± 2.4
200.0				63 ± 4.4	
333.0			42 ± 2.5	63 ± 5.3	207 ± 16.5
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ²					1177 ± 28.2
Positive Control ³			790 ± 7.4	683 ± 28.8	
Positive Control ⁶	1222 ± 41.4	1586 ± 94.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.0
1.0	
3.3	
10.0	34 ± 2.7
33.0	51 ± 2.0
50.0	
67.0	
100.0	149 ± 15.7
200.0	306 ± 5.2
333.0	294 ± 9.0 ^s
Trial Summary	Positive
Positive Control ²	1131 ± 65.0
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****