

Experiment Number: **049581**

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

G06: Ames Summary Data

Test Compound: **5-Diethylamino-2-nitrosophenol hydrochloride**

CAS Number: **25953-06-4**

Date Report Requested: **09/15/2018**

Time Report Requested: **02:09:16**

NTP Study Number:

049581

Study Result:

Negative

Experiment Number: 049581

G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride

Time Report Requested: 02:09:16

CAS Number: 25953-06-4

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 12.5	102 ± 6.9	156 ± 3.5	109 ± 2.0	156 ± 6.0
3.3		93 ± 7.9		114 ± 4.4	
10.0	162 ± 11.0	111 ± 3.8	166 ± 5.6	120 ± 7.9	154 ± 8.4
33.0	147 ± 4.9	112 ± 2.0	153 ± 10.9	109 ± 2.3	167 ± 10.8
100.0	160 ± 11.1 ^s	114 ± 4.1	162 ± 3.7	120 ± 9.3	160 ± 14.3
333.0	87 ± 5.5 ^s	80 ± 3.4 ^s	141 ± 9.0 ^s	111 ± 2.8	139 ± 7.8 ^s
666.0	Toxic		24 ± 5.7 ^s		35 ± 7.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					499 ± 10.9
Positive Control ³	363 ± 5.0	464 ± 8.2			
Positive Control ⁴			830 ± 18.0		
Positive Control ⁵					
Positive Control ⁶				646 ± 35.8	

Experiment Number: 049581

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:09:16

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	103 ± 0.9
3.3	
10.0	95 ± 3.3
33.0	105 ± 1.5
100.0	115 ± 7.0
333.0	126 ± 8.0
666.0	88 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	345 ± 8.0
Positive Control ⁶	

Experiment Number: 049581

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:09:16

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 ± 3.2	14 ± 1.5	7 ± 2.3	9 ± 1.3	10 ± 1.3
3.3		13 ± 2.1		15 ± 2.7	
10.0	18 ± 1.0	13 ± 2.2	6 ± 0.9	9 ± 0.9	9 ± 2.0
33.0	18 ± 3.5	10 ± 3.2	11 ± 3.3	14 ± 3.2	9 ± 2.6
100.0	10 ± 1.8	11 ± 1.3	9 ± 1.3	12 ± 3.0	10 ± 0.0
333.0	1 ± 0.7 ^s	4 ± 0.3	6 ± 1.2 ^s	14 ± 2.5	8 ± 3.1
666.0	Toxic		0 ± 0.0 ^s		1 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					63 ± 8.6
Positive Control ³	229 ± 13.7	261 ± 3.8			
Positive Control ⁵					
Positive Control ⁷				111 ± 9.9	
Positive Control ⁶			201 ± 11.8		

Experiment Number: 049581

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:09:16

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.2
3.3	
10.0	12 ± 2.0
33.0	15 ± 1.2
100.0	15 ± 3.7
333.0	10 ± 2.0
666.0	6 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	93 ± 4.8
Positive Control ⁷	
Positive Control ⁶	

Experiment Number: 049581

G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Time Report Requested: 02:09:16

Strain: TA1538

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	10 ± 0.7	15 ± 2.1	15 ± 0.9	18 ± 0.7	15 ± 2.8
3.3		12 ± 0.7		18 ± 4.5	
10.0	15 ± 3.2	16 ± 3.4	19 ± 3.5	22 ± 0.3	17 ± 1.2
33.0	11 ± 0.3	11 ± 0.7	19 ± 2.0	21 ± 1.0	21 ± 3.0
50.0					
100.0	7 ± 0.7	11 ± 1.2	15 ± 3.3	15 ± 1.5	27 ± 2.5
200.0					
333.0	5 ± 0.9	5 ± 1.2 ^s	6 ± 1.9	11 ± 0.7 ^s	11 ± 1.2
666.0	0 ± 0.0 ^s		4 ± 0.3 ^s		9 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ⁸					
Positive Control ²			152 ± 15.6	303 ± 7.5	
Positive Control ⁹	211 ± 15.9	206 ± 13.3			
Positive Control ⁵					115 ± 13.9

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Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
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Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride

Time Report Requested: 02:09:16

CAS Number: 25953-06-4

Strain: TA1538

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.9	16 ± 4.0	22 ± 2.6	18 ± 3.1	11 ± 1.2
3.3	15 ± 2.4	18 ± 0.9	9 ± 1.5	13 ± 2.0	16 ± 1.5
10.0	20 ± 1.0	23 ± 2.6	9 ± 1.8	21 ± 1.5	15 ± 1.5
33.0	26 ± 1.7	23 ± 2.5	18 ± 1.7	24 ± 0.6	19 ± 2.2
50.0					
100.0	28 ± 2.6	15 ± 2.0	17 ± 1.5	35 ± 3.4	26 ± 2.9
200.0					
333.0	10 ± 0.3	10 ± 2.8	21 ± 1.9 ^s	13 ± 1.2	9 ± 2.5
666.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ⁸		100 ± 4.7	410 ± 15.6		
Positive Control ²				111 ± 4.2	189 ± 10.2
Positive Control ⁹					
Positive Control ⁵	155 ± 6.7				

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Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

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Strain: TA1538

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 3.0
3.3	27 ± 1.9
10.0	26 ± 2.2
33.0	33 ± 4.7
50.0	40 ± 5.8
100.0	39 ± 3.0
200.0	31 ± 2.2
333.0	
666.0	
Trial Summary	Negative
Positive Control ⁸	
Positive Control ²	304 ± 27.2
Positive Control ⁹	
Positive Control ⁵	

Experiment Number: 049581

G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Time Report Requested: 02:09:16

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 4.6	87 ± 1.5	99 ± 9.4	144 ± 0.7	105 ± 11.8
3.3		75 ± 6.2		122 ± 11.5	
10.0	118 ± 9.8	75 ± 9.3	89 ± 13.7	126 ± 7.0	101 ± 3.8
33.0	122 ± 16.0	87 ± 4.6	110 ± 12.1	132 ± 13.5	118 ± 14.6
100.0	109 ± 19.5	91 ± 10.0	104 ± 2.3	120 ± 6.7	112 ± 4.7
333.0	79 ± 4.7 ^s	68 ± 0.7	103 ± 9.3 ^s	106 ± 9.6	83 ± 8.8 ^s
666.0	7 ± 2.7 ^s		62 ± 4.3 ^s		50 ± 9.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					505 ± 15.1
Positive Control ⁶			1378 ± 63.8	382 ± 8.7	
Positive Control ¹⁰	350 ± 12.5	356 ± 28.6			

Experiment Number: 049581

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 5.5
3.3	
10.0	115 ± 7.3
33.0	107 ± 6.2
100.0	123 ± 4.6
333.0	119 ± 4.3
666.0	84 ± 1.7 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	405 ± 14.5
Positive Control ¹⁰	

Experiment Number: 049581

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:09:16

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	28 ± 4.4	13 ± 0.0	25 ± 3.5	26 ± 2.6	18 ± 2.2
3.3		16 ± 1.9	24 ± 3.0		25 ± 3.6
10.0	18 ± 1.5	15 ± 2.6	21 ± 1.2	38 ± 7.0	27 ± 2.0
33.0	40 ± 11.6	17 ± 3.6	19 ± 2.7	29 ± 3.2	22 ± 3.5
100.0	20 ± 1.5	15 ± 0.0	4 ± 1.5 ^s	24 ± 1.2	6 ± 2.4 ^s
333.0	8 ± 1.5 ^s	12 ± 2.3	Toxic	14 ± 2.9 ^s	Toxic
666.0	0 ± 0.0 ^s			5 ± 1.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁸					
Positive Control ²			361 ± 28.1	212 ± 19.5	117 ± 8.7
Positive Control ⁹	185 ± 6.0	176 ± 11.7			
Positive Control ⁵					

Experiment Number: 049581

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Test Compound: 5-Diethylamino-2-nitrosophenol hydrochloride
CAS Number: 25953-06-4

Date Report Requested: 09/15/2018

Time Report Requested: 02:09:16

Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.6	22 ± 4.5	26 ± 2.2	29 ± 2.8	30 ± 6.0
3.3	30 ± 2.7	24 ± 2.3	28 ± 3.8		31 ± 2.0
10.0	30 ± 0.9	29 ± 3.5	27 ± 3.5	30 ± 2.7	32 ± 3.9
33.0	43 ± 6.2	26 ± 2.4	20 ± 4.0	33 ± 4.9	15 ± 1.5
100.0	40 ± 4.1	35 ± 1.9	8 ± 0.6 ^s	21 ± 1.7	8 ± 1.2
333.0	20 ± 0.9	11 ± 2.7	Toxic	12 ± 1.5	Toxic
666.0				6 ± 2.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁸			310 ± 10.9	116 ± 13.0	177 ± 3.0
Positive Control ²					
Positive Control ⁹					
Positive Control ⁵	177 ± 5.9	95 ± 1.5			

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CAS Number: 25953-06-4

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Time Report Requested: 02:09:16

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.8	26 ± 1.5
3.3		31 ± 2.3
10.0	24 ± 2.6	33 ± 2.6
33.0	39 ± 0.3	42 ± 2.2
100.0	37 ± 2.0	17 ± 1.3
333.0	19 ± 0.7	Toxic
666.0	8 ± 1.9	
Trial Summary	Negative	Negative
Positive Control ⁸		
Positive Control ²	88 ± 12.6	203 ± 3.6
Positive Control ⁹		
Positive Control ⁵		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 1.5 ug/Plate 2-Aminoanthracene

8: 0.2 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

10: 3.5 ug/Plate 9-Aminoacridine

s: Slight Toxicity

**** END OF REPORT ****