

Experiment Number: 999954

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

G06: Ames Summary Data

Test Compound: **4,4'-Diocetylphenylamine**

CAS Number: **101-67-7**

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

Time Report Requested: **10:38:22**

NTP Study Number:

999954

Study Result:

Negative

Experiment Number: 999954

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Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

Time Report Requested: 10:38:22

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	80 ± 2.0	107 ± 2.3	95 ± 2.2	81 ± 4.2	87 ± 3.6
100.0	82 ± 1.8	84 ± 5.2	103 ± 7.4	82 ± 4.4	99 ± 3.7
333.0	85 ± 12.7	100 ± 2.9	97 ± 7.8	87 ± 3.1	80 ± 3.7
1000.0	83 ± 6.9	107 ± 1.3	93 ± 10.4	99 ± 1.3	87 ± 16.5
3333.0	63 ± 1.2 ^p	92 ± 1.5	84 ± 6.8	82 ± 3.2 ^p	74 ± 3.3
10000.0	60 ± 6.6 ^p	96 ± 7.5 ^p	97 ± 3.0 ^p	80 ± 3.8 ^p	65 ± 2.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					457 ± 46.2
Positive Control ³			492 ± 21.0		
Positive Control ⁴	1214 ± 48.2	279 ± 19.7			
Positive Control ⁵					
Positive Control ⁶				458 ± 11.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	85 ± 5.5
100.0	76 ± 6.1
333.0	82 ± 1.9
1000.0	85 ± 8.3
3333.0	77 ± 6.6 ^p
10000.0	71 ± 4.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	220 ± 23.8
Positive Control ⁶	

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Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

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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	16 ± 1.7	13 ± 0.6	9 ± 1.2	13 ± 0.0	10 ± 2.6
100.0	16 ± 2.9	14 ± 2.3	7 ± 0.0	11 ± 0.9	12 ± 1.9
333.0	14 ± 1.5	14 ± 2.0	8 ± 1.2	10 ± 1.9	8 ± 0.3
1000.0	20 ± 0.3	13 ± 1.2	10 ± 1.2	9 ± 3.2	7 ± 1.3
3333.0	13 ± 2.3 ^p	10 ± 1.3	10 ± 0.6	11 ± 3.2 ^p	11 ± 2.2
10000.0	12 ± 1.7 ^p	14 ± 2.3 ^p	8 ± 0.9 ^p	7 ± 2.3 ^p	7 ± 1.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					46 ± 6.1
Positive Control ⁴	203 ± 11.7	199 ± 5.4			
Positive Control ⁵					
Positive Control ⁶			99 ± 11.3	82 ± 6.7	

Experiment Number: 999954

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G06: Ames Summary Data

Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.3
100.0	11 ± 1.8
333.0	11 ± 2.0
1000.0	6 ± 1.2
3333.0	11 ± 1.2 ^p
10000.0	7 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	
Positive Control ⁵	252 ± 5.6
Positive Control ⁶	

Experiment Number: 999954

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

Test Compound: 4,4'-Dioctyldiphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

Time Report Requested: 10:38:22

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 2.1	7 ± 1.3	7 ± 0.9
100.0	4 ± 0.9	9 ± 3.0	7 ± 2.5
333.0	4 ± 0.3	7 ± 1.8	10 ± 0.3
1000.0	4 ± 1.7	5 ± 0.3	7 ± 1.8
3333.0	4 ± 0.9 ^P	10 ± 2.0 ^P	5 ± 0.3 ^P
10000.0	2 ± 0.3 ^P	9 ± 0.6 ^P	8 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		44 ± 1.9	461 ± 6.5
Positive Control ⁸	23 ± 1.8		

Experiment Number: 999954

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G06: Ames Summary Data

Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

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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	68 ± 5.9	86 ± 14.3	117 ± 7.2	129 ± 8.4	104 ± 9.0
100.0	66 ± 2.3	101 ± 10.8	111 ± 2.8	149 ± 3.0	91 ± 13.5
333.0	66 ± 7.1	81 ± 11.5	122 ± 9.8	140 ± 10.7	97 ± 11.5
1000.0	55 ± 4.4	80 ± 2.9	105 ± 10.4	137 ± 6.4	87 ± 4.7
3333.0	57 ± 5.8 ^p	60 ± 2.5	114 ± 4.9	127 ± 8.4 ^p	94 ± 15.1
10000.0	35 ± 6.5 ^p	55 ± 3.3 ^p	109 ± 6.7 ^p	137 ± 2.6 ^p	101 ± 2.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					724 ± 17.5
Positive Control ⁶			978 ± 44.3		
Positive Control ⁷				437 ± 20.1	
Positive Control ¹⁰	171 ± 7.8	201 ± 8.6			

Experiment Number: 999954

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Diocetylidiphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 9.8
100.0	123 ± 4.5
333.0	121 ± 12.3
1000.0	128 ± 3.2
3333.0	132 ± 4.0 ^P
10000.0	136 ± 1.7 ^P
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	
Positive Control ⁷	1424 ± 96.0
Positive Control ¹⁰	

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G06: Ames Summary Data

Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018

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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 ± 0.9	14 ± 3.6	29 ± 2.5	27 ± 0.6	28 ± 2.5
100.0	10 ± 1.2	17 ± 0.7	25 ± 2.1	26 ± 2.6	25 ± 2.3
333.0	11 ± 1.7	16 ± 3.8	28 ± 3.0	23 ± 2.3	28 ± 3.0
1000.0	14 ± 2.2	13 ± 1.9	31 ± 3.1	29 ± 2.0	31 ± 1.5
3333.0	13 ± 1.2 ^p	13 ± 2.1	25 ± 2.9	25 ± 2.9 ^p	33 ± 0.3
10000.0	7 ± 1.0 ^p	13 ± 2.2 ^p	18 ± 3.6 ^p	20 ± 2.6 ^p	23 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					180 ± 13.1
Positive Control ²			168 ± 7.0		
Positive Control ¹²	525 ± 37.0	123 ± 6.0			
Positive Control ⁵				146 ± 11.9	

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Test Compound: 4,4'-Diocetylphenylamine
CAS Number: 101-67-7

Date Report Requested: 09/15/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 1.5
100.0	23 ± 4.6
333.0	23 ± 6.2
1000.0	22 ± 2.5
3333.0	18 ± 1.8 ^p
10000.0	24 ± 3.8 ^p
Trial Summary	Negative
Positive Control ¹¹	
Positive Control ²	181 ± 8.8
Positive Control ¹²	
Positive Control ⁵	

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Test Compound: 4,4'-Dioclyldiphenylamine

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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: Acetone

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate 2-Aminoanthracene

4: 0.5 ug/Plate Sodium Azide

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 0.75 ug/Plate 2-Aminoanthracene

10: 8.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****