

Experiment Number: 697490

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N'-Di-sec-butyl-p-phenyldiamine

CAS Number: 101-96-2

Date Report Requested: 09/11/2018

Time Report Requested: 18:22:18

NTP Study Number:

697490

Study Result:

Negative

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Test Compound: N,N'-Di-sec-butyl-p-phenyldiamine
CAS Number: 101-96-2

Date Report Requested: 09/11/2018

Time Report Requested: 18:22:18

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------------------|------------------------|-----------------|------------------------|
| Vehicle Control ¹ | 92 ± 1.7 | 83 ± 4.1 | 88 ± 4.6 | 98 ± 3.4 | 104 ± 2.6 |
| 0.33 | | 75 ± 7.5 | | | |
| 1.0 | 84 ± 5.9 | 73 ± 3.4 | | | |
| 3.3 | 83 ± 9.0 | 79 ± 4.7 | 88 ± 9.9 | 87 ± 4.6 | 107 ± 1.2 |
| 10.0 | 106 ± 9.0 | 108 ± 3.9 ^s | 84 ± 8.7 | 96 ± 3.2 | 119 ± 9.4 |
| 33.0 | 53 ± 5.7 ^s | 44 ± 22.0 ^s | 92 ± 10.0 | 92 ± 6.0 | 118 ± 17.5 |
| 66.0 | 41 ± 1.0 ^s | | | | |
| 100.0 | | | 102 ± 1.7 ^s | 90 ± 7.8 | 131 ± 6.3 ^s |
| 200.0 | | | | 108 ± 5.2 | |
| 333.0 | | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 207 ± 3.4 |
| Positive Control ³ | 436 ± 15.7 | 343 ± 14.5 | | | |
| Positive Control ⁴ | | | 484 ± 123.9 | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | | 308 ± 2.7 | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 116 ± 3.3 |
| 0.33 | |
| 1.0 | |
| 3.3 | 104 ± 3.2 |
| 10.0 | 113 ± 3.8 |
| 33.0 | 112 ± 7.4 |
| 66.0 | |
| 100.0 | 88 ± 1.2 |
| 200.0 | 89 ± 8.3 |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | |
| Positive Control ⁵ | 366 ± 17.0 |
| Positive Control ⁶ | |

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CAS Number: 101-96-2

Date Report Requested: 09/11/2018

Time Report Requested: 18:22:18

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|-----------------------|----------------------|-----------------|-----------------------|
| Vehicle Control ¹ | 30 ± 6.0 | 19 ± 2.1 | 10 ± 1.7 | 32 ± 1.2 | 18 ± 2.2 |
| 0.33 | | 17 ± 0.3 | | | |
| 1.0 | 23 ± 3.4 | 20 ± 1.5 | | | |
| 3.3 | 26 ± 2.6 | 18 ± 2.6 | 11 ± 0.0 | 28 ± 3.1 | 14 ± 1.2 |
| 10.0 | 21 ± 2.7 | 11 ± 1.9 ^s | 10 ± 1.2 | 25 ± 4.6 | 12 ± 3.8 |
| 33.0 | 5 ± 1.9 ^s | 3 ± 0.9 ^s | 9 ± 0.9 | 27 ± 2.2 | 13 ± 3.5 |
| 66.0 | 1 ± 0.7 ^s | | | | |
| 100.0 | | | 7 ± 0.9 ^s | 17 ± 5.7 | 11 ± 3.8 ^s |
| 200.0 | | | | 8 ± 2.1 | |
| 333.0 | | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 49 ± 4.7 |
| Positive Control ³ | 230 ± 11.2 | 199 ± 6.8 | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | 151 ± 6.2 | 64 ± 4.3 | |

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Test Compound: N,N'-Di-sec-butyl-p-phenyldiamine
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Date Report Requested: 09/11/2018

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Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 40 ± 2.0 |
| 0.33 | |
| 1.0 | |
| 3.3 | 40 ± 5.3 |
| 10.0 | 32 ± 3.2 |
| 33.0 | 39 ± 5.5 |
| 66.0 | |
| 100.0 | 33 ± 5.8 |
| 200.0 | 27 ± 4.6 |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁵ | |
| Positive Control ⁶ | 95 ± 0.3 |

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Date Report Requested: 09/11/2018

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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 | 77 ± 5.2 | 85 ± 10.4 | 108 ± 1.8 | 170 ± 4.1 | 129 ± 9.0 |
| 0.33 | | 87 ± 2.2 | | | |
| 1.0 | 74 ± 8.3 | 82 ± 4.2 | | | |
| 3.3 | 77 ± 8.4 | 76 ± 3.2 | 105 ± 8.1 | 117 ± 5.1 | 144 ± 6.4 |
| 10.0 | 27 ± 6.9 | 67 ± 4.2 ^s | 105 ± 4.7 | 107 ± 3.2 | 113 ± 2.1 |
| 33.0 | 0 ± 0.3 ^s | 4 ± 0.6 ^s | 75 ± 3.8 | 88 ± 10.2 | 122 ± 13.3 |
| 66.0 | 0 ± 0.0 ^s | | | | |
| 100.0 | | | 14 ± 5.9 ^s | 53 ± 8.7 | 13 ± 2.5 ^s |
| 200.0 | | | | 13 ± 6.9 ^s | |
| 333.0 | | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | | | 511 ± 24.7 |
| Positive Control ⁶ | | | 831 ± 26.9 | | |
| Positive Control ⁷ | | | | 342 ± 16.5 | |
| Positive Control ⁸ | 404 ± 17.5 | 231 ± 3.7 | | | |

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Test Compound: N,N'-Di-sec-butyl-p-phenyldiamine
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Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 136 ± 9.0 |
| 0.33 | |
| 1.0 | |
| 3.3 | 141 ± 9.0 |
| 10.0 | 133 ± 3.9 |
| 33.0 | 109 ± 5.6 |
| 66.0 | |
| 100.0 | 61 ± 12.4 |
| 200.0 | 7 ± 3.2 ^s |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ⁴ | |
| Positive Control ⁶ | |
| Positive Control ⁷ | 734 ± 25.4 |
| Positive Control ⁸ | |

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Test Compound: N,N'-Di-sec-butyl-p-phenyldiamine
CAS Number: 101-96-2

Date Report Requested: 09/11/2018

Time Report Requested: 18:22:18

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------|-----------------------|
| Vehicle Control ¹ | 11 ± 2.0 | 10 ± 2.0 | 23 ± 2.4 | 33 ± 5.0 | 27 ± 1.2 |
| 0.33 | | 17 ± 0.6 | | | |
| 1.0 | 10 ± 2.1 | 14 ± 1.2 | | | |
| 3.3 | 12 ± 1.3 | 12 ± 1.9 | 22 ± 1.5 | 27 ± 4.3 | 27 ± 1.2 |
| 10.0 | 10 ± 0.9 | 11 ± 1.8 ^s | 26 ± 3.5 | 34 ± 2.4 | 26 ± 1.5 |
| 33.0 | 13 ± 1.5 ^s | 8 ± 1.2 ^s | 22 ± 3.2 | 28 ± 2.2 | 22 ± 1.9 |
| 66.0 | 9 ± 3.5 ^s | | | | |
| 100.0 | | | 15 ± 1.0 ^s | 23 ± 1.9 | 22 ± 0.3 ^s |
| 200.0 | | | | 24 ± 2.1 | |
| 333.0 | | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁹ | | | | | 191 ± 5.5 |
| Positive Control ² | | | 74 ± 8.4 | | |
| Positive Control ¹⁰ | 259 ± 6.7 | 184 ± 10.8 | | | |
| Positive Control ⁵ | | | | 78 ± 2.9 | |

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Date Report Requested: 09/11/2018

Time Report Requested: 18:22:18

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 | With 30% Hamster S9 |
|--------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 65 ± 1.7 | 20 ± 2.3 |
| 0.33 | | |
| 1.0 | | |
| 3.3 | 73 ± 5.0 | 21 ± 2.3 |
| 10.0 | 53 ± 1.3 | 29 ± 3.8 |
| 33.0 | 54 ± 3.5 | 28 ± 2.6 |
| 66.0 | | |
| 100.0 | 43 ± 5.2 | 26 ± 2.1 |
| 200.0 | 16 ± 2.2 | 15 ± 1.8 |
| 333.0 | | |
| Trial Summary | Negative | Negative |
| Positive Control ⁹ | | |
| Positive Control ² | 65 ± 2.7 | 114 ± 5.9 |
| Positive Control ¹⁰ | | |
| 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: 2.5 ug/Plate 2-Aminoanthracene

8: 8.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****