

Experiment Number: A20942

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

G06: Ames Summary Data

Test Compound: **3,3'-Dihydroxybenzidine**

CAS Number: **2373-98-0**

Date Report Requested: **09/16/2018**

Time Report Requested: **09:54:46**

NTP Study Number:

A20942

Study Result:

Positive

Experiment Number: A20942

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,3'-Dihydroxybenzidine

CAS Number: 2373-98-0

Date Report Requested: 09/16/2018

Time Report Requested: 09:54:46

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 113 ± 1.3 | 159 ± 9.7 | 151 ± 5.2 | 148 ± 0.7 | 157 ± 8.1 |
| 33.0 | 160 ± 5.8 | 155 ± 11.6 | | | |
| 100.0 | 217 ± 13.3 | 187 ± 12.2 | 166 ± 14.1 | 149 ± 3.4 | 176 ± 16.3 |
| 333.0 | 50 ± 21.0 | 70 ± 6.2 | 205 ± 14.3 | 193 ± 5.2 | 227 ± 11.2 |
| 1000.0 | Toxic | 127 ± 17.7 | 202 ± 10.7 | 209 ± 3.5 | 237 ± 7.4 |
| 3333.0 | Toxic | 231 ± 9.5 | 224 ± 1.7 | 235 ± 6.8 | 297 ± 9.7 |
| 10000.0 | | | 214 ± 19.8 | 201 ± 3.0 | 304 ± 5.6 |
| Trial Summary | Equivocal | Equivocal | Weakly Positive | Weakly Positive | Positive |
| Positive Control ² | | | | | 797 ± 8.3 |
| Positive Control ³ | 533 ± 15.6 | 578 ± 18.7 | | | |
| Positive Control ⁴ | | | 553 ± 38.0 | 342 ± 14.4 | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 158 ± 1.2 |
| 33.0 | |
| 100.0 | 182 ± 3.1 |
| 333.0 | 200 ± 8.4 |
| 1000.0 | 219 ± 13.2 |
| 3333.0 | 223 ± 9.4 |
| 10000.0 | 265 ± 19.7 |
| Trial Summary | Weakly Positive |
| Positive Control ² | 907 ± 30.3 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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G06: Ames Summary Data

Test Compound: 3,3'-Dihydroxybenzidine

CAS Number: 2373-98-0

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Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 20 ± 1.0 | 18 ± 4.6 | 37 ± 3.8 | 30 ± 3.1 | 33 ± 3.5 |
| 33.0 | 24 ± 3.5 | 22 ± 1.2 | | | |
| 100.0 | 23 ± 2.7 | 22 ± 1.5 | 43 ± 4.7 | 44 ± 2.3 | 55 ± 3.8 |
| 333.0 | Toxic | 21 ± 2.3 | 53 ± 2.9 | 49 ± 7.0 | 83 ± 2.4 |
| 1000.0 | 30 ± 2.4 | 32 ± 4.5 | 72 ± 2.9 | 83 ± 4.3 | 122 ± 1.7 |
| 3333.0 | 24 ± 2.3 | 19 ± 5.0 | 140 ± 9.8 | 160 ± 3.0 | 240 ± 35.4 |
| 10000.0 | | | 200 ± 6.9 | 237 ± 3.8 | 357 ± 29.6 |
| Trial Summary | Negative | Negative | Positive | Positive | Positive |
| Positive Control ² | | | 216 ± 17.4 | 182 ± 2.7 | 995 ± 22.8 |
| Positive Control ⁵ | 101 ± 8.4 | 112 ± 1.8 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 30 ± 0.6 |
| 33.0 | |
| 100.0 | 53 ± 1.7 |
| 333.0 | 86 ± 0.6 |
| 1000.0 | 125 ± 15.2 |
| 3333.0 | 236 ± 11.2 |
| 10000.0 | 365 ± 2.8 |
| Trial Summary | Positive |
| Positive Control ² | 844 ± 21.7 |
| 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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****