

Experiment Number: 859126

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

G06: Ames Summary Data

Test Compound: **Disperse blue 7**

CAS Number: **3179-90-6**

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

Time Report Requested: **13:20:55**

NTP Study Number:

859126

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Disperse blue 7

CAS Number: 3179-90-6

Date Report Requested: 09/16/2018

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Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 5% Rat S9 | With 5% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|----------------|----------------|-----------------|
| Vehicle Control ¹ | 91 ± 3.6 | 113 ± 8.5 | 161 ± 5.4 | 144 ± 10.3 | 145 ± 2.5 |
| 1.0 | | 102 ± 3.0 | | 125 ± 8.5 | |
| 3.0 | | 111 ± 12.7 | | 144 ± 8.2 | |
| 10.0 | | 100 ± 2.1 | | 134 ± 4.7 | |
| 33.0 | | 116 ± 7.0 | | 161 ± 4.9 | |
| 100.0 | 125 ± 6.4 | 118 ± 7.6 | 233 ± 3.5 | 161 ± 2.8 | 177 ± 9.4 |
| 333.0 | 124 ± 11.0 | 113 ± 4.9 | 227 ± 4.7 | 158 ± 7.5 | 211 ± 24.9 |
| 1000.0 | 146 ± 8.8 | 127 ± 16.2 | 192 ± 11.0 | 141 ± 4.8 | 258 ± 5.2 |
| 1666.0 | | | | | |
| 3333.0 | 138 ± 6.6 | | 185 ± 13.7 | | 168 ± 2.3 |
| 6666.0 | | | 134 ± 4.4 | | 147 ± 5.2 |
| 10000.0 | 110 ± 3.1 | | | | |
| Trial Summary | Equivocal | Negative | Equivocal | Negative | Weakly Positive |
| Positive Control ² | | | | | |
| Positive Control ³ | | | 773 ± 28.1 | 819 ± 36.4 | 500 ± 9.6 |
| Positive Control ⁴ | 364 ± 32.8 | 450 ± 10.1 | | | |
| Positive Control ⁵ | | | | | |

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| Dose (ug/Plate) | With 10% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 5% Hamster S9 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| Vehicle Control ¹ | 141 ± 4.7 | 153 ± 4.5 | 161 ± 7.1 | 143 ± 6.3 | 146 ± 9.2 |
| 1.0 | 149 ± 4.4 | | | 155 ± 10.3 | |
| 3.0 | 162 ± 12.8 | | | 141 ± 9.1 | |
| 10.0 | 139 ± 3.8 | | | 150 ± 5.9 | |
| 33.0 | 155 ± 16.3 | | | 142 ± 11.8 | |
| 100.0 | 142 ± 11.1 | 167 ± 11.1 | 169 ± 5.0 | 121 ± 22.3 | 205 ± 3.2 |
| 333.0 | 160 ± 6.5 | 185 ± 7.2 | 180 ± 7.4 | 190 ± 9.1 | 217 ± 2.1 |
| 1000.0 | 164 ± 3.5 | 228 ± 22.6 | 170 ± 5.3 | 187 ± 12.9 | 198 ± 11.5 |
| 1666.0 | | | | | 170 ± 9.0 |
| 3333.0 | | 235 ± 22.7 | 131 ± 14.2 | | 155 ± 14.8 |
| 6666.0 | | | 107 ± 5.7 | | |
| 10000.0 | | 113 ± 1.5 | | | |
| Trial Summary | Negative | Weakly Positive | Negative | Equivocal | Equivocal |
| Positive Control ² | | | | | 1124 ± 21.1 |
| Positive Control ³ | 542 ± 28.5 | | | | |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | | 601 ± 78.0 | 480 ± 17.0 | 570 ± 18.8 | |

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Strain: TA100

| Dose (ug/Plate) | With 5% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 108 ± 7.8 | 154 ± 1.0 | 138 ± 4.7 | 131 ± 16.2 | 141 ± 8.5 |
| 1.0 | 117 ± 4.4 | | 147 ± 7.8 | | |
| 3.0 | 119 ± 9.5 | | 146 ± 8.5 | | |
| 10.0 | 138 ± 14.0 | | 128 ± 7.4 | | |
| 33.0 | 127 ± 12.0 | | 126 ± 11.2 | | |
| 100.0 | 204 ± 9.0 | 255 ± 7.9 | 110 ± 3.9 | 168 ± 4.9 | 205 ± 9.5 |
| 333.0 | 168 ± 10.7 | 262 ± 6.8 | 212 ± 6.4 | 201 ± 9.9 | 226 ± 7.3 |
| 1000.0 | 161 ± 7.0 | 264 ± 7.3 | 164 ± 13.4 | 197 ± 13.0 | 226 ± 6.4 |
| 1666.0 | | 244 ± 5.5 | | | 236 ± 5.5 |
| 3333.0 | | 192 ± 14.7 | | 180 ± 8.5 | 220 ± 5.8 |
| 6666.0 | | | | | |
| 10000.0 | | | | 128 ± 18.9 | |
| Trial Summary | Equivocal | Equivocal | Equivocal | Weakly Positive | Equivocal |
| Positive Control ² | 726 ± 13.7 | 727 ± 69.5 | 568 ± 60.7 | | 630 ± 22.4 |
| Positive Control ³ | | | | 614 ± 85.8 | |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | | | | | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 120 ± 4.3 |
| 1.0 | 132 ± 4.5 |
| 3.0 | 119 ± 8.0 |
| 10.0 | 101 ± 10.9 |
| 33.0 | 125 ± 15.6 |
| 100.0 | 178 ± 6.2 |
| 333.0 | 152 ± 25.0 |
| 1000.0 | 191 ± 6.4 |
| 1666.0 | |
| 3333.0 | |
| 6666.0 | |
| 10000.0 | |
| Trial Summary | Equivocal |
| Positive Control ² | |
| Positive Control ³ | 523 ± 25.9 |
| Positive Control ⁴ | |
| Positive Control ⁵ | |

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Strain: TA98

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|-----------------|---------------------|---------------------|
| Vehicle Control ¹ | 18 ± 1.2 | 23 ± 4.7 | 32 ± 2.9 | 38 ± 2.6 | 29 ± 0.9 |
| 10.0 | | | 46 ± 4.0 | | 40 ± 1.8 |
| 33.0 | | | 46 ± 4.6 | | 60 ± 3.0 |
| 100.0 | 18 ± 0.7 | 53 ± 7.5 | 93 ± 3.3 | 111 ± 15.9 | 122 ± 2.5 |
| 333.0 | 13 ± 1.2 | 163 ± 11.6 | 134 ± 6.5 | 223 ± 21.0 | 210 ± 8.2 |
| 1000.0 | 17 ± 0.3 | 217 ± 9.0 | 182 ± 11.0 | 294 ± 11.2 | 211 ± 10.0 |
| 3333.0 | 19 ± 1.2 | 295 ± 16.2 | | 244 ± 34.9 | |
| 10000.0 | 20 ± 1.5 | 39 ± 6.1 | | 149 ± 62.9 | |
| Trial Summary | Negative | Positive | Positive | Positive | Positive |
| Positive Control ² | | | | | 536 ± 22.4 |
| Positive Control ³ | | 227 ± 17.4 | 191 ± 9.3 | 550 ± 17.7 | |
| Positive Control ⁶ | 620 ± 27.3 | | | | |

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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****