

Experiment Number: **G00058D**

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

**G06: Ames Summary Data**

Test Compound: **Black Cohosh**

CAS Number: **84776-26-1**

Date Report Requested: **09/18/2018**

Time Report Requested: **11:14:09**

**NTP Study Number:**

G00058D

**Study Result:**

Equivocal

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>Without S9</b> | <b>Without S9</b> | <b>With 10% Rat S9</b> | <b>With 10% Rat S9</b> |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 83 ± 4.7          | 88 ± 9.0          | 83 ± 3.5               | 86 ± 8.7               |
| 100.0                         | 69 ± 6.4          | 76 ± 8.5          | 89 ± 5.0               | 87 ± 3.2               |
| 250.0                         | 85 ± 3.0          | 79 ± 3.5          | 87 ± 3.5               | 87 ± 1.2               |
| 500.0                         | 71 ± 11.4         | 79 ± 2.3          | 86 ± 3.3               | 91 ± 3.9               |
| 1500.0                        | 78 ± 5.9          | 87 ± 5.9          | 85 ± 5.5               | 95 ± 3.9               |
| 3000.0                        | 86 ± 3.7          | 83 ± 4.6          | 87 ± 8.8               | 91 ± 9.3               |
| 6000.0                        | 74 ± 8.0          | 95 ± 7.9          | 98 ± 5.0               | 97 ± 2.2               |
| Trial Summary                 | Negative          | Negative          | Negative               | Negative               |
| Positive Control <sup>2</sup> | 556 ± 11.1        | 595 ± 10.5        |                        |                        |
| Positive Control <sup>3</sup> |                   |                   | 444 ± 25.0             | 487 ± 5.0              |

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**Strain: TA98**

| Dose (ug/Plate)               | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 14 ± 2.1   | 17 ± 3.0   | 19 ± 0.6        | 26 ± 0.9        |
| 100.0                         | 15 ± 4.5   | 16 ± 5.0   | 22 ± 3.4        | 27 ± 2.0        |
| 250.0                         | 18 ± 2.7   | 18 ± 1.7   | 30 ± 3.2        | 27 ± 3.1        |
| 500.0                         | 13 ± 2.2   | 19 ± 0.9   | 30 ± 1.5        | 28 ± 1.5        |
| 1500.0                        | 25 ± 0.6   | 16 ± 3.2   | 33 ± 4.7        | 29 ± 4.7        |
| 3000.0                        | 23 ± 5.0   | 18 ± 1.2   | 36 ± 5.4        | 43 ± 4.3        |
| 6000.0                        | 26 ± 4.0   | 22 ± 5.5   | 31 ± 4.8        | 45 ± 3.5        |
| Trial Summary                 | Negative   | Negative   | Equivocal       | Equivocal       |
| Positive Control <sup>4</sup> |            |            | 1471 ± 56.0     | 1509 ± 27.9     |
| Positive Control <sup>5</sup> | 621 ± 38.9 | 607 ± 9.0  |                 |                 |

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**Strain: E. coli WP2 uvrA pKM101**

| <b>Dose (ug/Plate)</b>        | <b>Without S9</b> | <b>Without S9</b> | <b>With 10% Rat S9</b> | <b>With 10% Rat S9</b> |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 137 ± 4.6         | 137 ± 4.3         | 183 ± 6.2              | 205 ± 26.9             |
| 100.0                         | 140 ± 6.7         | 138 ± 9.3         | 176 ± 12.1             | 198 ± 7.7              |
| 250.0                         | 128 ± 6.4         | 138 ± 0.3         | 162 ± 7.6              | 185 ± 12.9             |
| 500.0                         | 139 ± 1.0         | 144 ± 5.7         | 158 ± 24.2             | 184 ± 3.3              |
| 1500.0                        | 144 ± 2.6         | 129 ± 8.6         | 174 ± 6.7              | 186 ± 1.8              |
| 3000.0                        | 130 ± 3.5         | 146 ± 3.3         | 180 ± 3.3              | 190 ± 5.9              |
| 6000.0                        | 155 ± 6.5         | 148 ± 7.5         | 172 ± 1.2              | 201 ± 10.2             |
| Trial Summary                 | Negative          | Negative          | Negative               | Negative               |
| Positive Control <sup>6</sup> | 1328 ± 73.7       | 1662 ± 102.6      |                        |                        |
| Positive Control <sup>4</sup> |                   |                   |                        | 1680 ± 35.1            |
| Positive Control <sup>7</sup> |                   |                   | 1183 ± 79.1            |                        |

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### **LEGEND**

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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 Sodium Azide
- 3: 2.0 ug/Plate Other Positive Control
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 3.0 ug/Plate 2-Nitrofluorene
- 6: 0.25 ug/Plate Other Positive Control
- 7: 20.0 ug/Plate 2-Aminoanthracene

**\*\* END OF REPORT \*\***