

Experiment Number: **003765**

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

**G06: Ames Summary Data**

Test Compound: **Dacarbazine**

CAS Number: **4342-03-4**

Date Report Requested: **09/14/2018**

Time Report Requested: **00:07:52**

**NTP Study Number:**

003765

**Study Result:**

Positive

Experiment Number: 003765

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Dacarbazine

CAS Number: 4342-03-4

Date Report Requested: 09/14/2018

Time Report Requested: 00:07:52

## Strain: TA100

| Dose (ug/Plate)               | Without S9              | Without S9              | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------------|-------------------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 94 ± 9.1                | 106 ± 11.7              | 90 ± 6.1        | 90 ± 4.7        | 79 ± 7.2            |
| 33.0                          | 115 ± 7.8               | 156 ± 3.8               | 98 ± 8.1        | 98 ± 6.8        | 83 ± 4.2            |
| 100.0                         | 144 ± 1.8               | 199 ± 12.5              | 106 ± 10.7      | 144 ± 16.8      | 106 ± 4.4           |
| 333.0                         | 218 ± 13.0              | 266 ± 2.1               | 156 ± 11.1      | 184 ± 4.7       | 208 ± 4.0           |
| 1000.0                        | 284 ± 6.9 <sup>s</sup>  | 243 ± 16.1 <sup>s</sup> | 241 ± 17.7      | 249 ± 8.9       | 263 ± 12.3          |
| 2500.0                        | 293 ± 13.3 <sup>s</sup> | 187 ± 26.0 <sup>s</sup> | 412 ± 12.0      | 375 ± 30.0      | 408 ± 17.6          |
| Trial Summary                 | Positive                | Positive                | Positive        | Positive        | Positive            |
| Positive Control <sup>2</sup> |                         |                         |                 |                 | 782 ± 3.0           |
| Positive Control <sup>3</sup> |                         |                         | 1297 ± 32.6     | 1365 ± 18.1     |                     |
| Positive Control <sup>4</sup> | 1218 ± 39.3             | 1504 ± 8.2              |                 |                 |                     |

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Strain: TA100

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| Dose (ug/Plate)               | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 85 ± 6.9            |
| 33.0                          | 90 ± 4.6            |
| 100.0                         | 113 ± 2.5           |
| 333.0                         | 177 ± 8.0           |
| 1000.0                        | 288 ± 11.8          |
| 2500.0                        | 421 ± 30.0          |
| Trial Summary                 | Positive            |
| Positive Control <sup>2</sup> | 1004 ± 10.6         |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>4</sup> |                     |

Experiment Number: 003765

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Dacarbazine

CAS Number: 4342-03-4

Date Report Requested: 09/14/2018

Time Report Requested: 00:07:52

## Strain: TA1535

| Dose (ug/Plate)               | Without S9            | Without S9            | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 28 ± 5.2              | 24 ± 1.2              | 8 ± 0.9         | 12 ± 1.3        | 12 ± 0.7            |
| 33.0                          | 27 ± 5.8              | 27 ± 2.2              | 15 ± 1.5        | 9 ± 0.9         | 11 ± 4.8            |
| 100.0                         | 27 ± 4.0              | 29 ± 3.4              | 17 ± 2.7        | 14 ± 1.3        | 14 ± 0.9            |
| 333.0                         | 42 ± 2.6              | 30 ± 4.3              | 20 ± 2.6        | 17 ± 0.3        | 17 ± 1.5            |
| 1000.0                        | 40 ± 1.7 <sup>s</sup> | 43 ± 2.8              | 24 ± 4.1        | 21 ± 3.5        | 30 ± 2.8            |
| 2500.0                        | 53 ± 2.7 <sup>s</sup> | 44 ± 2.3 <sup>s</sup> | 38 ± 2.1        | 36 ± 4.0        | 38 ± 1.7            |
| Trial Summary                 | Equivocal             | Weakly Positive       | Positive        | Weakly Positive | Positive            |
| Positive Control <sup>2</sup> |                       |                       |                 |                 | 92 ± 2.9            |
| Positive Control <sup>3</sup> |                       |                       | 94 ± 10.1       | 97 ± 3.0        |                     |
| Positive Control <sup>4</sup> | 743 ± 15.5            | 954 ± 21.2            |                 |                 |                     |

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G06: Ames Summary Data  
Test Compound: Dacarbazine  
CAS Number: 4342-03-4

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Strain: TA1535

| Dose (ug/Plate)               | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 12 ± 2.5            |
| 33.0                          | 13 ± 2.6            |
| 100.0                         | 14 ± 2.6            |
| 333.0                         | 17 ± 1.8            |
| 1000.0                        | 24 ± 1.7            |
| 2500.0                        | 42 ± 3.8            |
| Trial Summary                 | Positive            |
| Positive Control <sup>2</sup> | 82 ± 4.3            |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>4</sup> |                     |

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## G06: Ames Summary Data

Test Compound: Dacarbazine

CAS Number: 4342-03-4

Date Report Requested: 09/14/2018

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## Strain: TA97

| Dose (ug/Plate)               | Without S9                | Without S9               | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|---------------------------|--------------------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 102 ± 1.5                 | 58 ± 6.4                 | 106 ± 4.3       | 92 ± 6.0        | 122 ± 12.7          |
| 33.0                          | 470 ± 33.0                | 394 ± 17.6               | 216 ± 17.7      | 223 ± 17.1      | 184 ± 7.9           |
| 100.0                         | 724 ± 18.6                | 681 ± 54.5               | 378 ± 12.3      | 362 ± 1.0       | 293 ± 13.0          |
| 333.0                         | 1127 ± 61.2               | 1159 ± 148.3             | 739 ± 27.9      | 730 ± 46.9      | 734 ± 21.7          |
| 1000.0                        | 1369 ± 136.5 <sup>s</sup> | 978 ± 44.6               | 1559 ± 99.6     | 1064 ± 22.1     | 1233 ± 24.1         |
| 2500.0                        | 1117 ± 159.3 <sup>s</sup> | 1018 ± 89.2 <sup>s</sup> | 2300 ± 64.9     | 2070 ± 32.3     | 1979 ± 77.9         |
| Trial Summary                 | Positive                  | Positive                 | Positive        | Positive        | Positive            |
| Positive Control <sup>2</sup> |                           |                          |                 |                 | 810 ± 10.3          |
| Positive Control <sup>3</sup> |                           |                          | 1187 ± 17.1     | 864 ± 28.7      |                     |
| Positive Control <sup>5</sup> | 262 ± 23.0                | 129 ± 12.1               |                 |                 |                     |

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**Strain: TA97**

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| Dose (ug/Plate)               | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 94 ± 4.6            |
| 33.0                          | 253 ± 6.2           |
| 100.0                         | 334 ± 27.1          |
| 333.0                         | 766 ± 14.2          |
| 1000.0                        | 1224 ± 27.0         |
| 2500.0                        | 2111 ± 47.3         |
| Trial Summary                 | Positive            |
| Positive Control <sup>2</sup> | 536 ± 8.7           |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>5</sup> |                     |

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## G06: Ames Summary Data

Test Compound: Dacarbazine

CAS Number: 4342-03-4

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Time Report Requested: 00:07:52

## Strain: TA98

| Dose (ug/Plate)               | Without S9  | Without S9            | With 10% Rat S9 | With 10% Rat S9       | With 10% Hamster S9 |
|-------------------------------|-------------|-----------------------|-----------------|-----------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 12 ± 0.3    | 22 ± 3.5              | 31 ± 3.0        | 29 ± 5.4              | 32 ± 1.5            |
| 33.0                          | 26 ± 3.8    | 25 ± 1.5              | 40 ± 5.3        | 34 ± 5.2              | 41 ± 7.1            |
| 100.0                         | 29 ± 2.3    | 29 ± 2.7              | 44 ± 2.4        | 42 ± 3.2              | 47 ± 5.2            |
| 333.0                         | 59 ± 11.0   | 51 ± 4.2              | 54 ± 5.0        | 51 ± 2.0              | 50 ± 5.2            |
| 1000.0                        | 79 ± 4.6    | 69 ± 6.3              | 69 ± 8.3        | 69 ± 3.3              | 71 ± 5.5            |
| 2500.0                        | 82 ± 3.4    | 72 ± 3.4 <sup>s</sup> | 94 ± 2.6        | 89 ± 5.8 <sup>s</sup> | 97 ± 2.4            |
| Trial Summary                 | Positive    | Positive              | Positive        | Positive              | Positive            |
| Positive Control <sup>2</sup> |             |                       |                 |                       | 901 ± 9.6           |
| Positive Control <sup>3</sup> |             |                       | 1335 ± 22.2     | 916 ± 20.2            |                     |
| Positive Control <sup>6</sup> | 1292 ± 13.2 | 1448 ± 21.1           |                 |                       |                     |



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**Strain: TA98**

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| Dose (ug/Plate)               | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 29 ± 3.5            |
| 33.0                          | 35 ± 1.2            |
| 100.0                         | 40 ± 5.4            |
| 333.0                         | 50 ± 6.6            |
| 1000.0                        | 64 ± 2.6            |
| 2500.0                        | 93 ± 5.6            |
| Trial Summary                 | Positive            |
| Positive Control <sup>2</sup> | 718 ± 38.6          |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>6</sup> |                     |

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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