

Experiment Number: **G07051B**

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

**G06: Ames Summary Data**

Test Compound: **Dimethylamine Borane**

CAS Number: **74-94-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **22:13:56**

**NTP Study Number:**

G07051B

**Study Result:**

Weakly Positive

Experiment Number: G07051B

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Dimethylamine Borane

CAS Number: 74-94-2

Date Report Requested: 09/15/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	99 ± 6.9	95 ± 4.7	119 ± 3.2	116 ± 4.3	95 ± 3.3
125.0	113 ± 10.1	112 ± 6.6	105 ± 8.8	129 ± 7.7	116 ± 8.8
250.0	123 ± 8.0	112 ± 7.3	102 ± 1.8	117 ± 5.0	104 ± 1.3
500.0	139 ± 14.0	119 ± 10.0	117 ± 14.8	102 ± 8.3	112 ± 3.5
1500.0	120 ± 2.3	107 ± 5.4	125 ± 8.7	139 ± 1.7	108 ± 3.7
3000.0	155 ± 5.7	137 ± 11.7	138 ± 8.6	138 ± 6.9	152 ± 5.9
6000.0	161 ± 8.6	155 ± 3.2	164 ± 5.0	173 ± 1.3	148 ± 9.3
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>	529 ± 8.1	482 ± 40.4	832 ± 30.2	950 ± 16.0	
Positive Control <sup>3</sup>					603 ± 15.8

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	92 ± 1.5	119 ± 2.7	106 ± 4.0
125.0	98 ± 2.9	105 ± 3.9	111 ± 4.7
250.0	92 ± 6.2	100 ± 8.3	119 ± 4.4
500.0	104 ± 5.8	116 ± 8.5	112 ± 3.0
1500.0	95 ± 5.4	107 ± 7.0	104 ± 0.6
3000.0	127 ± 9.8	130 ± 2.3	99 ± 2.0
6000.0	156 ± 3.5	137 ± 3.1	129 ± 3.2
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>2</sup>			
Positive Control <sup>3</sup>	549 ± 6.4	514 ± 23.4	474 ± 17.5

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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>	22 ± 0.7	22 ± 4.1	24 ± 0.7	31 ± 2.1
125.0	17 ± 0.7	25 ± 0.9	26 ± 5.3	30 ± 2.3
250.0	21 ± 1.8	22 ± 6.7	21 ± 3.7	30 ± 3.5
500.0	23 ± 4.2	20 ± 2.3	26 ± 2.6	24 ± 3.5
1500.0	16 ± 0.9	21 ± 4.6	25 ± 2.3	26 ± 4.4
3000.0	21 ± 2.4	21 ± 0.9	25 ± 3.2	26 ± 4.0
6000.0	24 ± 2.3	21 ± 6.0	29 ± 0.6	26 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1134 ± 29.8	1009 ± 16.8
Positive Control <sup>5</sup>	711 ± 20.9	690 ± 64.1		

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G06: Ames Summary Data  
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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	140 ± 4.9	105 ± 4.9	156 ± 5.9	155 ± 11.6	149 ± 8.5
125.0	144 ± 15.1	150 ± 24.3	181 ± 13.1	170 ± 8.4	175 ± 8.2
250.0	141 ± 5.8	154 ± 4.7	191 ± 8.5	156 ± 7.6	175 ± 3.2
500.0	141 ± 3.8	152 ± 6.7	207 ± 7.2	173 ± 6.0	170 ± 5.9
1500.0	172 ± 7.5	163 ± 10.2	222 ± 11.8	196 ± 2.5	217 ± 11.1
3000.0	196 ± 7.2	203 ± 9.0	240 ± 18.4	207 ± 5.8	225 ± 12.7
6000.0	225 ± 2.7	212 ± 12.0	258 ± 4.3	180 ± 6.8	204 ± 14.4
Trial Summary	Weakly Positive	Equivocal	Weakly Positive	Negative	Weakly Positive
Positive Control <sup>6</sup>	1523 ± 22.2	1413 ± 30.6	3156 ± 98.5	2955 ± 113.1	
Positive Control <sup>7</sup>					1197 ± 29.4

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

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	145 ± 4.6	212 ± 18.1	198 ± 8.7
125.0	153 ± 2.5	275 ± 12.1	244 ± 13.5
250.0	155 ± 8.9	244 ± 3.0	256 ± 13.3
500.0	173 ± 9.2	229 ± 7.3	244 ± 11.3
1500.0	210 ± 11.1	258 ± 10.8	242 ± 11.2
3000.0	203 ± 20.1	296 ± 9.3	226 ± 1.7
6000.0	203 ± 3.9	286 ± 12.7	201 ± 5.0
Trial Summary	Equivocal	Equivocal	Negative
Positive Control <sup>6</sup>			
Positive Control <sup>7</sup>	887 ± 35.6	1841 ± 44.5	1491 ± 81.4

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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: Distilled Water
- 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 \*\***