

Experiment Number: **948640**

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

**G06: Ames Summary Data**

Test Compound: **5-Methyl-2-thiouracil**

CAS Number: **636-26-0**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:05:20**

**NTP Study Number:**

948640

**Study Result:**

Negative

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Date Report Requested: 09/17/2018  
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 2.0	100 ± 5.0	107 ± 5.1	128 ± 7.1	94 ± 3.5
100.0	106 ± 4.6	109 ± 5.3	103 ± 7.5	132 ± 2.3	100 ± 1.5
333.0	100 ± 5.7	111 ± 8.8	119 ± 6.6	134 ± 2.7	85 ± 2.5
1000.0	111 ± 2.9	118 ± 3.6	87 ± 4.5	118 ± 10.1	84 ± 7.2
3333.0	101 ± 4.3	114 ± 2.4	90 ± 2.6	112 ± 2.3	79 ± 4.8
10000.0	87 ± 7.2	110 ± 6.6	80 ± 2.3	110 ± 11.0	75 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					459 ± 34.7
Positive Control <sup>3</sup>	418 ± 10.3	469 ± 23.3			
Positive Control <sup>4</sup>			719 ± 158.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				2899 ± 643.8	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 2.4
100.0	112 ± 2.3
333.0	116 ± 6.1
1000.0	115 ± 3.8
3333.0	102 ± 4.4
10000.0	107 ± 3.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	712 ± 19.4
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.5	29 ± 1.2	18 ± 4.7	10 ± 2.0	19 ± 3.3
100.0	26 ± 1.5	30 ± 2.6	19 ± 3.0	12 ± 0.9	17 ± 4.4
333.0	28 ± 1.9	32 ± 0.7	13 ± 1.5	14 ± 1.5	15 ± 1.3
1000.0	23 ± 3.0	24 ± 3.8	15 ± 1.5	15 ± 0.9	14 ± 1.5
3333.0	23 ± 1.9	26 ± 6.5	14 ± 1.5	11 ± 1.3	13 ± 2.6
10000.0	26 ± 2.9	23 ± 3.5	9 ± 2.0	13 ± 4.3	15 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					984 ± 60.5
Positive Control <sup>3</sup>	307 ± 6.1	246 ± 45.3			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			317 ± 15.2	141 ± 8.9	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.5
100.0	12 ± 2.3
333.0	16 ± 2.6
1000.0	14 ± 2.9
3333.0	10 ± 1.2
10000.0	11 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	288 ± 8.7
Positive Control <sup>6</sup>	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 10.3	111 ± 5.5	139 ± 4.3	94 ± 2.7	100 ± 2.0
100.0	159 ± 6.2	114 ± 5.5	100 ± 14.2	98 ± 5.9	95 ± 3.9
333.0	155 ± 15.1	96 ± 4.7	158 ± 7.4	82 ± 6.4	107 ± 1.9
1000.0	146 ± 3.5	89 ± 1.8	138 ± 9.8	87 ± 4.3	97 ± 7.0
3333.0	127 ± 7.6	87 ± 6.1	114 ± 6.8	80 ± 1.8	97 ± 5.4
10000.0	105 ± 4.9	65 ± 4.4	90 ± 8.3	55 ± 1.7	82 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>7</sup>	243 ± 5.0	271 ± 69.3			
Positive Control <sup>4</sup>					865 ± 55.8
Positive Control <sup>6</sup>			2495 ± 66.4	598 ± 116.2	

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	185 ± 12.8
100.0	195 ± 7.0
333.0	186 ± 5.2
1000.0	166 ± 8.7
3333.0	189 ± 1.2
10000.0	139 ± 21.1
Trial Summary	Negative
Positive Control <sup>7</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	853 ± 39.8

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Test Compound: 5-Methyl-2-thiouracil

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.9	19 ± 4.0	28 ± 2.9	26 ± 3.5	30 ± 0.9
100.0	19 ± 4.9	17 ± 0.7	33 ± 1.5	25 ± 2.3	31 ± 3.2
333.0	18 ± 1.5	20 ± 3.6	29 ± 1.9	29 ± 1.8	34 ± 5.2
1000.0	19 ± 1.2	15 ± 1.7	30 ± 4.7	28 ± 5.8	30 ± 0.7
3333.0	15 ± 1.9	16 ± 1.9	26 ± 5.1	30 ± 2.1	27 ± 4.9
10000.0	15 ± 1.0	11 ± 0.3	24 ± 1.5	25 ± 1.9	18 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			256 ± 10.0		466 ± 30.2
Positive Control <sup>8</sup>	315 ± 11.7	295 ± 9.0			
Positive Control <sup>5</sup>				338 ± 11.1	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 2.1
100.0	25 ± 4.8
333.0	31 ± 3.7
1000.0	27 ± 1.5
3333.0	29 ± 9.0
10000.0	25 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	315 ± 33.3

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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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 0.05 ug/Plate Icr-191
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*