

Experiment Number: 092090

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Hexamethylmelamine

CAS Number: 645-05-6

Date Report Requested: 09/11/2018

Time Report Requested: 07:05:19

**NTP Study Number:**

092090

**Study Result:**

Negative

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## 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>	139 ± 2.0	82 ± 1.5	175 ± 5.0	106 ± 9.6	205 ± 1.5
10.0	131 ± 5.5	104 ± 23.3			
33.0	97 ± 3.8	63 ± 7.5		105 ± 10.7	
100.0	121 ± 10.8	62 ± 4.2	165 ± 4.0	102 ± 3.6	208 ± 1.9
333.0	122 ± 14.7	75 ± 1.8	218 ± 3.1	103 ± 14.6	202 ± 8.1
1000.0	143 ± 13.3	83 ± 6.7	194 ± 5.8	104 ± 9.4	194 ± 4.6
3333.0			183 ± 2.3	100 ± 5.9	185 ± 17.4
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1416 ± 148.1	1170 ± 80.4	1950 ± 39.8
Positive Control <sup>3</sup>	829 ± 26.3	693 ± 66.6			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	110 ± 10.0
10.0	
33.0	84 ± 6.4
100.0	89 ± 15.3
333.0	99 ± 7.3
1000.0	90 ± 8.8
3333.0	89 ± 6.9
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1929 ± 92.5
Positive Control <sup>3</sup>	

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## 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>	5 ± 0.3	5 ± 0.3	6 ± 1.2	6 ± 1.2	5 ± 1.7
10.0	5 ± 0.3	4 ± 0.9			
33.0	6 ± 0.9	6 ± 0.9		5 ± 0.6	
100.0	8 ± 1.7	7 ± 1.2	5 ± 0.3	5 ± 1.7	5 ± 0.6
333.0	5 ± 0.0	6 ± 1.2	7 ± 0.7	6 ± 0.6	6 ± 1.0
1000.0	Toxic	4 ± 1.2	5 ± 0.3	8 ± 1.5	6 ± 0.6
3333.0			4 ± 0.0	5 ± 0.6	4 ± 0.3
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			68 ± 2.8	39 ± 3.5	67 ± 6.4
Positive Control <sup>3</sup>	125 ± 3.9	332 ± 32.6			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.0
10.0	
33.0	12 ± 2.6
100.0	5 ± 1.8
333.0	7 ± 1.8
1000.0	7 ± 1.5
3333.0	5 ± 0.6
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	111 ± 18.6
Positive Control <sup>3</sup>	

Experiment Number: 092090

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## G06: Ames Summary Data

Test Compound: Hexamethylmelamine

CAS Number: 645-05-6

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 0.3	5 ± 0.6	6 ± 1.3	8 ± 0.3	5 ± 0.3
10.0	6 ± 0.6	3 ± 1.2			
33.0	6 ± 0.9	3 ± 1.7		8 ± 1.2	
100.0	5 ± 0.3	7 ± 0.9	10 ± 1.9	5 ± 1.2	6 ± 0.0
333.0	7 ± 0.7	4 ± 1.0	7 ± 0.6	11 ± 2.4	11 ± 3.9
1000.0	7 ± 0.5	12 ± 4.3	8 ± 1.2	8 ± 1.2	6 ± 0.3
3333.0			8 ± 2.0	8 ± 1.2	5 ± 0.0
10000.0			Toxic		1 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1018 ± 87.5	57 ± 7.0	856 ± 20.3
Positive Control <sup>4</sup>	560 ± 50.4	132 ± 3.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.1
10.0	
33.0	13 ± 2.1
100.0	9 ± 2.1
333.0	9 ± 2.6
1000.0	10 ± 1.7
3333.0	9 ± 3.3
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	128 ± 15.9
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Hexamethylmelamine

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## 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>	18 ± 2.1	14 ± 3.0	28 ± 8.7	17 ± 4.1	24 ± 2.3
10.0	16 ± 1.2	18 ± 3.5			
33.0	17 ± 0.6	17 ± 4.0		12 ± 3.0	
100.0	16 ± 0.6	14 ± 0.9	19 ± 3.9	17 ± 2.9	16 ± 0.6
333.0	13 ± 1.5	14 ± 3.4	17 ± 2.0	16 ± 2.9	17 ± 1.0
1000.0	11 ± 2.6	24 ± 0.5	21 ± 2.7	17 ± 4.3	25 ± 1.3
3333.0			5 ± 0.5	12 ± 2.0	13 ± 4.6
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			765 ± 89.4	600 ± 127.4	1357 ± 59.4
Positive Control <sup>5</sup>	259 ± 7.5	287 ± 44.3			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 3.3
10.0	
33.0	15 ± 2.9
100.0	14 ± 3.0
333.0	16 ± 4.1
1000.0	16 ± 4.2
3333.0	19 ± 1.5
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1108 ± 20.5
Positive Control <sup>5</sup>	

Experiment Number: **092090**  
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

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Test Compound: **Hexamethylmelamine**  
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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 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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