

Experiment Number: 753161

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

**G06: Ames Summary Data**

Test Compound: **Hexamethylphosphoramide**

CAS Number: **680-31-9**

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

Time Report Requested: **11:22:47**

**NTP Study Number:**

753161

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Hexamethylphosphoramide

CAS Number: 680-31-9

Date Report Requested: 09/17/2018

Time Report Requested: 11:22:47

## 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>	119 ± 1.5	109 ± 1.5	118 ± 7.1	108 ± 9.3	101 ± 3.0
100.0	103 ± 0.9	100 ± 2.5	114 ± 8.8	112 ± 2.1	97 ± 2.5
333.0	96 ± 7.0	100 ± 0.3	94 ± 1.9	110 ± 0.9	102 ± 8.4
1000.0	118 ± 8.7	89 ± 2.3	109 ± 11.1	114 ± 3.8	109 ± 10.8
3333.0	123 ± 8.2	102 ± 8.4	102 ± 2.8	110 ± 3.2	95 ± 5.7
10000.0	106 ± 6.4	114 ± 2.3	99 ± 1.8	106 ± 1.7	99 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1177 ± 31.7
Positive Control <sup>3</sup>			1667 ± 50.6		
Positive Control <sup>4</sup>				621 ± 23.0	
Positive Control <sup>5</sup>	1162 ± 22.2	1086 ± 14.5			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	105 ± 8.9
100.0	102 ± 1.0
333.0	104 ± 7.3
1000.0	100 ± 11.0
3333.0	99 ± 4.2
10000.0	89 ± 8.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1258 ± 30.8
Positive Control <sup>5</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 1.7	20 ± 1.2	11 ± 2.4	11 ± 2.7	12 ± 1.3
100.0	22 ± 0.6	22 ± 3.2	8 ± 2.2	11 ± 2.0	9 ± 1.9
333.0	17 ± 1.8	29 ± 5.2	8 ± 1.0	9 ± 2.3	10 ± 2.3
1000.0	19 ± 3.1	22 ± 4.4	9 ± 1.0	14 ± 1.5	12 ± 0.3
3333.0	20 ± 1.5	27 ± 2.3	9 ± 1.2	11 ± 1.2	10 ± 3.7
10000.0	23 ± 4.2	23 ± 3.4	10 ± 0.3	15 ± 1.3	11 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					117 ± 6.9
Positive Control <sup>3</sup>			128 ± 1.9		
Positive Control <sup>4</sup>				149 ± 4.2	
Positive Control <sup>5</sup>	897 ± 48.0	865 ± 20.5			

Experiment Number: 753161

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

**G06: Ames Summary Data**

Test Compound: **Hexamethylphosphoramide**

CAS Number: **680-31-9**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.5
100.0	9 ± 1.7
333.0	11 ± 1.0
1000.0	9 ± 0.6
3333.0	15 ± 1.2
10000.0	10 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	254 ± 11.6
Positive Control <sup>5</sup>	

Experiment Number: 753161

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Hexamethylphosphoramide

CAS Number: 680-31-9

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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>	86 ± 2.2	60 ± 1.2	130 ± 6.4	155 ± 2.9	112 ± 5.8
100.0	101 ± 1.5	80 ± 1.5	139 ± 8.1	156 ± 4.9	127 ± 6.1
333.0	94 ± 1.0	31 ± 4.2	105 ± 3.0	148 ± 7.6	109 ± 11.6
1000.0	90 ± 6.9	56 ± 8.3	148 ± 1.9	169 ± 4.3	126 ± 9.4
3333.0	100 ± 11.2	69 ± 5.0	138 ± 9.1	149 ± 7.8	124 ± 9.1
10000.0	94 ± 3.0	64 ± 7.4	141 ± 4.4	172 ± 9.4	120 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					530 ± 1.8
Positive Control <sup>3</sup>			868 ± 24.0		
Positive Control <sup>4</sup>				511 ± 13.5	
Positive Control <sup>6</sup>	671 ± 48.1	944 ± 22.6			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	90 ± 5.2
100.0	110 ± 6.1
333.0	120 ± 2.3
1000.0	114 ± 9.6
3333.0	97 ± 6.7
10000.0	122 ± 8.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	654 ± 2.8
Positive Control <sup>6</sup>	

Experiment Number: 753161

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Hexamethylphosphoramide

CAS Number: 680-31-9

Date Report Requested: 09/17/2018

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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>	13 ± 0.7	14 ± 2.0	25 ± 2.3	31 ± 4.4	27 ± 5.9
100.0	13 ± 1.9	15 ± 1.2	26 ± 1.7	28 ± 1.9	28 ± 0.6
333.0	12 ± 1.7	18 ± 2.2	29 ± 3.6	29 ± 2.1	23 ± 0.9
1000.0	14 ± 4.1	13 ± 1.2	27 ± 1.7	32 ± 0.9	27 ± 0.6
3333.0	15 ± 2.0	17 ± 1.8	27 ± 2.3	27 ± 2.0	25 ± 2.2
10000.0	12 ± 3.4	18 ± 1.3	25 ± 4.7	26 ± 2.3	23 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					994 ± 4.0
Positive Control <sup>3</sup>			1247 ± 18.5		
Positive Control <sup>4</sup>				565 ± 22.2	
Positive Control <sup>7</sup>	1424 ± 31.5	2099 ± 71.7			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	32 ± 5.0
100.0	30 ± 2.1
333.0	27 ± 2.6
1000.0	27 ± 2.9
3333.0	23 ± 4.2
10000.0	34 ± 3.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1210 ± 54.1
Positive Control <sup>7</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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

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