

Experiment Number: 101998

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cyclophosphamide monohydrate

CAS Number: 6055-19-2

Date Report Requested: 09/11/2018

Time Report Requested: 13:40:51

**NTP Study Number:**

101998

**Study Result:**

Positive

Experiment Number: 101998

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Cyclophosphamide monohydrate  
CAS Number: 6055-19-2

Date Report Requested: 09/11/2018

Time Report Requested: 13:40:51

## 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>	133 ± 3.2	113 ± 3.8	161 ± 4.9	165 ± 13.6	199 ± 3.7
1.0	120 ± 5.8		157 ± 17.3		176 ± 7.2
3.3	117 ± 8.1		179 ± 6.6		199 ± 3.8
10.0	103 ± 7.4		164 ± 7.3		209 ± 11.5
33.0	107 ± 7.8	108 ± 5.9	169 ± 12.9	159 ± 4.8	267 ± 8.9
66.0		116 ± 7.5		180 ± 9.2	
100.0	95 ± 3.3	120 ± 6.7	194 ± 1.2	188 ± 11.0	509 ± 28.1
166.0		115 ± 4.9		195 ± 15.6	
250.0		132 ± 8.7		223 ± 12.3	
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>			440 ± 54.3	447 ± 6.9	764 ± 81.8
Positive Control <sup>3</sup>	472 ± 9.0	460 ± 34.6			

Experiment Number: 101998  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Cyclophosphamide monohydrate  
CAS Number: 6055-19-2

Date Report Requested: 09/11/2018  
Time Report Requested: 13:40:51

---

Strain: TA100

---

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	179 ± 11.3
1.0	
3.3	
10.0	
33.0	244 ± 14.0
66.0	260 ± 12.7
100.0	323 ± 19.0
166.0	419 ± 16.7
250.0	682 ± 21.2
Trial Summary	Positive
Positive Control <sup>2</sup>	716 ± 56.9
Positive Control <sup>3</sup>	

Experiment Number: 101998

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Cyclophosphamide monohydrate  
CAS Number: 6055-19-2

Date Report Requested: 09/11/2018

Time Report Requested: 13:40:51

## 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>	8 ± 0.9	8 ± 1.7	12 ± 2.0	12 ± 2.3	10 ± 1.2
1.0	6 ± 0.7		11 ± 2.1		18 ± 0.9
3.3	11 ± 0.9		12 ± 2.0		24 ± 3.2
10.0	8 ± 1.8		13 ± 0.3		46 ± 3.3
33.0	10 ± 0.6	10 ± 1.3	19 ± 2.9	17 ± 3.7	124 ± 1.5
66.0		12 ± 1.5		27 ± 3.5	
100.0	13 ± 1.7	9 ± 1.2	34 ± 2.0	38 ± 0.7	319 ± 30.4
166.0		9 ± 2.4		44 ± 3.8	
250.0		15 ± 0.3		75 ± 4.7	
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control <sup>2</sup>			19 ± 3.7	30 ± 7.0	26 ± 2.3
Positive Control <sup>3</sup>	381 ± 7.5	380 ± 30.1			

Experiment Number: 101998  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Cyclophosphamide monohydrate  
CAS Number: 6055-19-2

Date Report Requested: 09/11/2018  
Time Report Requested: 13:40:51

---

Strain: TA1535

---

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.2
1.0	
3.3	
10.0	
33.0	45 ± 6.1
66.0	116 ± 3.5
100.0	112 ± 1.5
166.0	215 ± 4.9
250.0	293 ± 46.2
Trial Summary	Positive
Positive Control <sup>2</sup>	40 ± 12.1
Positive Control <sup>3</sup>	

Experiment Number: 101998

Test Type: Genetic Toxicology - Bacterial Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cyclophosphamide monohydrate

CAS Number: 6055-19-2

Date Report Requested: 09/11/2018

Time Report Requested: 13:40:51

---

**Strain: TA1537**

---

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 1.2	14 ± 0.9
1.0	7 ± 2.8	10 ± 2.4
3.3	8 ± 0.9	12 ± 0.6
10.0	11 ± 1.2	13 ± 2.4
33.0	9 ± 2.1	10 ± 2.7
100.0	9 ± 2.3	13 ± 3.5
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		58 ± 11.3
Positive Control <sup>4</sup>	223 ± 46.6	

Experiment Number: 101998

Test Type: Genetic Toxicology - Bacterial Mutagenicity

**G06: Ames Summary Data**

Test Compound: Cyclophosphamide monohydrate

CAS Number: 6055-19-2

Date Report Requested: 09/11/2018

Time Report Requested: 13:40:51

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 1.0	28 ± 6.1
1.0	17 ± 9.3	22 ± 7.8
3.3	26 ± 1.7	30 ± 0.9
10.0	26 ± 3.5	36 ± 0.9
33.0	24 ± 3.5	26 ± 3.0
100.0	30 ± 4.7	25 ± 1.2
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	262 ± 14.9	563 ± 45.7
Positive Control <sup>5</sup>		

Experiment Number: 101998  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Cyclophosphamide monohydrate  
CAS Number: 6055-19-2

Date Report Requested: 09/11/2018  
Time Report Requested: 13:40:51

#### LEGEND

---

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: 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 \*\*