

Experiment Number: **A60101**

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

**G06: Ames Summary Data**

Test Compound: **Polyethylene AS med mol. wt.**

CAS Number: **9002-88-4**

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

Time Report Requested: **08:56:05**

**NTP Study Number:**

A60101

**Study Result:**

Negative

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

## 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>	117 ± 2.3	119 ± 3.2	128 ± 3.5	161 ± 3.6	136 ± 5.2
100.0	119 ± 3.5	128 ± 9.1	127 ± 0.3	146 ± 0.6	127 ± 0.6
333.0	118 ± 7.4	125 ± 3.8	122 ± 4.9	161 ± 7.8	125 ± 5.0
1000.0	114 ± 3.7	120 ± 2.2	125 ± 0.3	155 ± 6.1	125 ± 3.5
3333.0	112 ± 5.9	119 ± 3.7	126 ± 6.1	148 ± 8.6	119 ± 3.0
10000.0	110 ± 1.8 <sup>p</sup>	111 ± 1.5 <sup>p</sup>	122 ± 5.6 <sup>p</sup>	94 ± 11.6 <sup>x</sup>	128 ± 6.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					527 ± 21.8
Positive Control <sup>3</sup>			435 ± 19.3		
Positive Control <sup>4</sup>	1055 ± 35.1	930 ± 15.9			
Positive Control <sup>5</sup>				855 ± 16.1	

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	150 ± 3.2
100.0	143 ± 6.7
333.0	139 ± 11.0
1000.0	152 ± 4.7
3333.0	134 ± 2.7
10000.0	79 ± 10.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	613 ± 9.4
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

## 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>	16 ± 0.7	14 ± 1.5	18 ± 1.8	15 ± 1.2	17 ± 1.2
100.0	17 ± 2.0	15 ± 0.3	16 ± 1.5	16 ± 0.9	16 ± 1.5
333.0	16 ± 1.5	17 ± 0.9	17 ± 1.2	16 ± 2.1	20 ± 1.3
1000.0	16 ± 2.3	15 ± 1.8	18 ± 1.3	14 ± 3.6	13 ± 1.8
3333.0	13 ± 3.5	12 ± 0.6	15 ± 0.3	13 ± 0.7	17 ± 0.3
10000.0	16 ± 3.2 <sup>p</sup>	16 ± 1.5 <sup>p</sup>	15 ± 2.3 <sup>p</sup>	11 ± 0.3 <sup>p</sup>	15 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					187 ± 5.8
Positive Control <sup>4</sup>	887 ± 34.4	969 ± 20.7			
Positive Control <sup>5</sup>			145 ± 6.4		
Positive Control <sup>6</sup>				141 ± 3.8	

Experiment Number: A60101  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018  
Time Report Requested: 08:56:05

---

Strain: TA1535

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.5
100.0	14 ± 1.5
333.0	14 ± 1.8
1000.0	14 ± 2.0
3333.0	10 ± 0.7
10000.0	10 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	290 ± 10.3
Positive Control <sup>6</sup>	

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

## 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>	140 ± 7.9	147 ± 5.5	160 ± 4.1	155 ± 7.2	171 ± 7.9
100.0	134 ± 12.0	158 ± 5.9	152 ± 3.2	158 ± 5.0	155 ± 3.3
333.0	139 ± 9.1	160 ± 7.5	164 ± 9.1	165 ± 7.8	168 ± 0.7
1000.0	137 ± 4.2	152 ± 5.8	155 ± 2.2	154 ± 6.2	173 ± 5.2
3333.0	147 ± 9.7	157 ± 5.5	154 ± 12.3	165 ± 9.6	160 ± 9.5
10000.0	151 ± 4.2 <sup>p</sup>	150 ± 3.5 <sup>p</sup>	164 ± 13.1 <sup>p</sup>	155 ± 1.3 <sup>p</sup>	161 ± 6.2 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					386 ± 8.6
Positive Control <sup>3</sup>			411 ± 19.5		
Positive Control <sup>5</sup>				657 ± 18.3	
Positive Control <sup>7</sup>	685 ± 19.0	338 ± 17.0			

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

---

**Strain: TA97**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	162 ± 2.6
100.0	162 ± 5.3
333.0	143 ± 2.7
1000.0	147 ± 4.6
3333.0	164 ± 6.6
10000.0	162 ± 5.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	740 ± 19.9
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

## 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>	15 ± 1.0	16 ± 1.5	20 ± 1.8	17 ± 0.7	19 ± 1.5
100.0	17 ± 2.0	16 ± 1.0	21 ± 1.7	18 ± 4.6	16 ± 1.5
333.0	15 ± 0.3	17 ± 0.9	18 ± 0.6	17 ± 0.9	18 ± 1.8
1000.0	17 ± 1.5	15 ± 2.6	19 ± 1.2	16 ± 2.1	19 ± 0.3
3333.0	17 ± 3.7	15 ± 0.9	20 ± 3.5	16 ± 2.9	18 ± 3.3
10000.0	19 ± 0.0 <sup>p</sup>	16 ± 1.8 <sup>p</sup>	18 ± 3.0 <sup>p</sup>	16 ± 0.7 <sup>p</sup>	20 ± 3.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					440 ± 29.0
Positive Control <sup>3</sup>			349 ± 10.4		
Positive Control <sup>8</sup>	303 ± 5.0	373 ± 15.3			
Positive Control <sup>5</sup>				474 ± 0.6	



Experiment Number: A60101  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Polyethylene AS med mol. wt.  
CAS Number: 9002-88-4

Date Report Requested: 09/17/2018  
Time Report Requested: 08:56:05

---

Strain: TA98

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 0.6
100.0	15 ± 1.3
333.0	18 ± 0.6
1000.0	15 ± 1.7
3333.0	17 ± 2.0
10000.0	19 ± 1.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	565 ± 20.2
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	

Experiment Number: A60101

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Polyethylene AS med mol. wt.

CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 08:56:05

**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: Methyl Ethyl Ketone

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

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