

Experiment Number: A76636

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

**G06: Ames Summary Data**

Test Compound: **Sesamol**

CAS Number: **533-31-3**

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

Time Report Requested: **23:03:06**

**NTP Study Number:**

A76636

**Study Result:**

Negative

Experiment Number: A76636

## G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Sesamol

Time Report Requested: 23:03:06

## 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>	112 ± 4.6	146 ± 3.9	134 ± 5.5	108 ± 4.2	126 ± 6.2
33.0	108 ± 9.2	137 ± 11.9	129 ± 3.9	96 ± 8.3	129 ± 4.9
100.0	105 ± 8.2	136 ± 10.1	130 ± 1.9	97 ± 5.8	127 ± 4.1
333.0	115 ± 1.8	117 ± 9.8	122 ± 10.8	113 ± 2.7	111 ± 9.0
1000.0	112 ± 3.0	117 ± 3.5	118 ± 5.8	111 ± 2.6	129 ± 8.1
3333.0	32 ± 6.2 <sup>s</sup>	88 ± 10.3 <sup>s</sup>	102 ± 8.0 <sup>s</sup>	65 ± 0.9 <sup>s</sup>	98 ± 6.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1659 ± 59.5
Positive Control <sup>3</sup>			1292 ± 55.6		
Positive Control <sup>4</sup>				427 ± 9.8	
Positive Control <sup>5</sup>	818 ± 29.6	1191 ± 21.1			

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G06: Ames Summary Data  
Test Compound: Sesamol  
CAS Number: 533-31-3

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

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	108 ± 8.5
33.0	120 ± 8.4
100.0	102 ± 3.9
333.0	111 ± 3.3
1000.0	106 ± 10.0
3333.0	61 ± 8.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	554 ± 22.4
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

Experiment Number: A76636

**G06: Ames Summary Data**

Date Report Requested: 09/17/2018

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

Time Report Requested: 23:03:06

**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>	9 ± 0.3	10 ± 1.2	11 ± 1.5	10 ± 2.2	10 ± 1.9
33.0	10 ± 0.3	10 ± 0.3	10 ± 0.7	9 ± 0.9	11 ± 0.6
100.0	12 ± 0.0	10 ± 0.9	9 ± 1.3	9 ± 1.5	11 ± 0.6
333.0	9 ± 0.7	14 ± 3.3	12 ± 1.5	12 ± 1.2	12 ± 1.2
1000.0	9 ± 2.0	10 ± 0.6	12 ± 0.3	7 ± 0.7	9 ± 1.9
3333.0	7 ± 0.9 <sup>s</sup>	4 ± 0.9 <sup>s</sup>	5 ± 0.7 <sup>s</sup>	5 ± 0.3 <sup>s</sup>	5 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					354 ± 13.2
Positive Control <sup>5</sup>	988 ± 20.6	1148 ± 17.5			
Positive Control <sup>4</sup>			204 ± 7.5		
Positive Control <sup>6</sup>				82 ± 7.3	

Experiment Number: A76636  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Sesamol  
CAS Number: 533-31-3

Date Report Requested: 09/17/2018  
Time Report Requested: 23:03:06

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.2
33.0	9 ± 2.6
100.0	10 ± 1.5
333.0	8 ± 1.7
1000.0	8 ± 0.3
3333.0	6 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	
Positive Control <sup>4</sup>	147 ± 12.3
Positive Control <sup>6</sup>	

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G06: Ames Summary Data  
 Test Compound: Sesamol  
 CAS Number: 533-31-3

Date Report Requested: 09/17/2018  
 Time Report Requested: 23:03:06

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>	124 ± 11.2	111 ± 2.1	138 ± 14.5	188 ± 5.2	148 ± 11.3
33.0	106 ± 10.6	118 ± 4.6	134 ± 9.2	194 ± 2.6	160 ± 4.8
100.0	89 ± 5.0	125 ± 7.5	151 ± 8.5	173 ± 22.8	143 ± 4.7
333.0	111 ± 4.5	119 ± 5.5	148 ± 3.5	170 ± 8.2	153 ± 13.3
1000.0	128 ± 12.2	114 ± 5.5	146 ± 5.4	160 ± 2.5	121 ± 10.7
3333.0	90 ± 3.3 <sup>s</sup>	83 ± 7.4 <sup>s</sup>	105 ± 2.8 <sup>s</sup>	128 ± 14.6 <sup>s</sup>	104 ± 14.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					835 ± 98.3
Positive Control <sup>3</sup>			594 ± 4.2		
Positive Control <sup>4</sup>				560 ± 3.5	
Positive Control <sup>7</sup>	507 ± 49.4	523 ± 28.1			

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G06: Ames Summary Data  
Test Compound: Sesamol  
CAS Number: 533-31-3

Date Report Requested: 09/17/2018  
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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	160 ± 6.6
33.0	126 ± 7.1
100.0	134 ± 15.6
333.0	134 ± 4.8
1000.0	162 ± 2.7
3333.0	126 ± 15.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	605 ± 1.5
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

Experiment Number: A76636

## G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Sesamol

Time Report Requested: 23:03:06

CAS Number: 533-31-3

## 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 ± 0.9	23 ± 2.9	32 ± 3.2	16 ± 1.9	28 ± 4.1
33.0	12 ± 2.1	25 ± 2.0	22 ± 3.0	17 ± 1.5	25 ± 2.0
100.0	19 ± 2.4	20 ± 0.7	25 ± 0.3	16 ± 2.5	23 ± 2.3
333.0	16 ± 2.3	24 ± 1.5	26 ± 5.0	18 ± 3.0	27 ± 3.5
1000.0	10 ± 2.3	26 ± 2.6	25 ± 1.2	11 ± 1.2	26 ± 0.6
3333.0	4 ± 1.5 <sup>s</sup>	9 ± 3.7 <sup>s</sup>	11 ± 2.1 <sup>s</sup>	8 ± 0.9 <sup>s</sup>	14 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1747 ± 53.3
Positive Control <sup>3</sup>			1325 ± 43.3		
Positive Control <sup>8</sup>	600 ± 50.9	943 ± 36.7			
Positive Control <sup>4</sup>				215 ± 10.1	

Experiment Number: A76636  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Sesamol  
CAS Number: 533-31-3

Date Report Requested: 09/17/2018  
Time Report Requested: 23:03:06

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 0.6
33.0	17 ± 2.0
100.0	15 ± 1.5
333.0	18 ± 0.3
1000.0	14 ± 3.4
3333.0	6 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	242 ± 18.7
Positive Control <sup>8</sup>	
Positive Control <sup>4</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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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