

Experiment Number: 238649

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Selsun

CAS Number: EMTDP-74

Date Report Requested: 09/15/2018

Time Report Requested: 04:46:42

**NTP Study Number:**

238649

**Study Result:**

Negative

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Selsun

CAS Number: EMTDP-74

Date Report Requested: 09/15/2018

Time Report Requested: 04:46:42

## 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>	126 ± 0.9	184 ± 6.8	124 ± 11.7	133 ± 7.3	152 ± 11.7
10.0	131 ± 7.0	179 ± 5.9			
33.0	117 ± 9.2	189 ± 1.5			
100.0	121 ± 4.0	187 ± 2.5	124 ± 7.8	144 ± 7.2	138 ± 2.3
333.0	116 ± 8.1	150 ± 1.5	133 ± 2.4	159 ± 5.5	131 ± 11.6
666.0		120 ± 19.6			
1000.0	82 ± 5.0		137 ± 8.9	145 ± 4.5	112 ± 7.0
3333.0			104 ± 5.5	132 ± 2.5	79 ± 6.7
6666.0			52 ± 4.8		51 ± 0.9
10000.0				109 ± 4.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1197 ± 48.6
Positive Control <sup>3</sup>			594 ± 44.0		
Positive Control <sup>4</sup>	329 ± 9.5	470 ± 11.0			
Positive Control <sup>5</sup>				486 ± 38.8	

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G06: Ames Summary Data  
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Date Report Requested: 09/15/2018  
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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 9.5
10.0	
33.0	
100.0	164 ± 20.3
333.0	159 ± 4.7
666.0	
1000.0	161 ± 5.5
3333.0	102 ± 5.0
6666.0	
10000.0	85 ± 4.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	693 ± 49.0
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

Experiment Number: 238649

**G06: Ames Summary Data**

Date Report Requested: 09/15/2018

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

Time Report Requested: 04:46:42

CAS Number: **EMTDP-74****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 ± 2.0	30 ± 3.2	12 ± 1.5	12 ± 0.7	10 ± 1.2
10.0	22 ± 3.5	25 ± 4.6			
33.0	28 ± 1.9	27 ± 3.3			
100.0	21 ± 3.3	23 ± 1.2	9 ± 0.9	12 ± 2.7	12 ± 1.2
333.0	19 ± 1.5	23 ± 4.2	11 ± 1.2	12 ± 2.9	16 ± 2.1
666.0		27 ± 0.9			
1000.0	18 ± 1.2		9 ± 3.5	11 ± 0.9	9 ± 3.2
3333.0			6 ± 0.3	11 ± 2.5	6 ± 2.7
6666.0			6 ± 2.3		6 ± 1.9
10000.0				8 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					219 ± 9.0
Positive Control <sup>4</sup>	331 ± 16.4	354 ± 19.0			
Positive Control <sup>5</sup>			118 ± 8.0		
Positive Control <sup>6</sup>				143 ± 4.5	

Experiment Number: 238649  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Selsun  
CAS Number: EMTDP-74

Date Report Requested: 09/15/2018  
Time Report Requested: 04:46:42

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.0
10.0	
33.0	
100.0	7 ± 1.2
333.0	7 ± 0.3
666.0	
1000.0	12 ± 3.2
3333.0	10 ± 1.8
6666.0	
10000.0	8 ± 2.1
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	431 ± 35.8
Positive Control <sup>6</sup>	

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G06: Ames Summary Data  
Test Compound: Selsun  
CAS Number: EMTDP-74

Date Report Requested: 09/15/2018  
Time Report Requested: 04:46:42

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.3	11 ± 1.5	14 ± 4.5
10.0	10 ± 2.0		
33.0	15 ± 1.7		
100.0	9 ± 0.6	12 ± 1.3	15 ± 0.3
333.0	10 ± 1.5	14 ± 1.8	12 ± 1.5
1000.0	6 ± 2.5	9 ± 0.3	11 ± 1.7
3333.0		9 ± 1.8	15 ± 3.1
10000.0		8 ± 2.1	14 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			80 ± 11.6
Positive Control <sup>5</sup>		48 ± 8.0	
Positive Control <sup>7</sup>	653 ± 32.8		

Experiment Number: 238649

**G06: Ames Summary Data**

Date Report Requested: 09/15/2018

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

Time Report Requested: 04:46:42

CAS Number: **EMTDP-74****Strain: TA97**

<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>	170 ± 6.1	177 ± 12.7	204 ± 15.6	202 ± 0.3	188 ± 16.8
10.0	165 ± 7.1	178 ± 9.9			
33.0	160 ± 5.3	164 ± 10.7			
100.0	161 ± 4.1	156 ± 2.7	206 ± 9.5	223 ± 1.0	216 ± 1.8
333.0	160 ± 9.8	135 ± 25.0	200 ± 7.2	227 ± 2.9	189 ± 8.8
666.0		72 ± 25.4			
1000.0	46 ± 8.3		180 ± 12.9	208 ± 7.5	175 ± 16.6
3333.0			61 ± 26.2	197 ± 9.7	81 ± 26.8
6666.0			7 ± 1.2		17 ± 4.7
10000.0				51 ± 9.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					967 ± 27.8
Positive Control <sup>3</sup>			519 ± 25.6		
Positive Control <sup>5</sup>				473 ± 27.8	
Positive Control <sup>7</sup>	818 ± 40.9	765 ± 16.6			

Experiment Number: 238649  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Selsun  
CAS Number: EMTDP-74

Date Report Requested: 09/15/2018  
Time Report Requested: 04:46:42

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	195 ± 6.7
10.0	
33.0	
100.0	197 ± 3.5
333.0	202 ± 4.0
666.0	
1000.0	208 ± 6.1
3333.0	210 ± 7.7
6666.0	
10000.0	119 ± 24.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	530 ± 23.0
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	



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Mutagenicity

## G06: Ames Summary Data

Test Compound: Selsun

CAS Number: EMTDP-74

Date Report Requested: 09/15/2018

Time Report Requested: 04:46:42

## 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 ± 1.5	19 ± 1.7	35 ± 2.8	46 ± 3.2	34 ± 2.4
10.0	18 ± 2.0	20 ± 2.3			
33.0	21 ± 2.7	27 ± 1.2			
100.0	17 ± 2.3	19 ± 3.8	39 ± 4.9	38 ± 2.4	37 ± 2.3
333.0	18 ± 0.9	20 ± 2.6	36 ± 2.9	31 ± 3.2	34 ± 3.8
666.0		19 ± 3.5			
1000.0	8 ± 0.9 <sup>s</sup>		37 ± 4.7	31 ± 3.5	34 ± 3.0
3333.0			19 ± 3.1	24 ± 2.3	13 ± 1.9
6666.0			11 ± 0.3		10 ± 2.0
10000.0				16 ± 2.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1029 ± 45.5
Positive Control <sup>3</sup>			385 ± 8.4	161 ± 7.2	
Positive Control <sup>8</sup>	517 ± 24.0	609 ± 23.7			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 1.7
10.0	
33.0	
100.0	26 ± 1.5
333.0	29 ± 1.0
666.0	
1000.0	26 ± 3.5
3333.0	21 ± 0.6
6666.0	
10000.0	16 ± 2.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	500 ± 28.4
Positive Control <sup>8</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 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 \*\*