

Experiment Number: 318291

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

**G06: Ames Summary Data**

Test Compound: **C.I. Solvent yellow 14**

CAS Number: **842-07-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **09:35:46**

**NTP Study Number:**

318291

**Study Result:**

Positive

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	124 ± 5.0	96 ± 3.7	177 ± 5.5	119 ± 4.7	108 ± 6.0
0.01		94 ± 1.7	128 ± 3.2		
0.03		98 ± 17.2	123 ± 6.4		
0.1		101 ± 6.6	136 ± 6.8		
0.3		94 ± 1.9	117 ± 2.9		100 ± 4.3
1.0	126 ± 9.0	83 ± 4.6 <sup>S</sup>	108 ± 4.3		99 ± 8.3 <sup>S</sup>
3.3	108 ± 8.7				92 ± 13.3 <sup>S</sup>
10.0	99 ± 9.0				166 ± 20.2 <sup>S</sup>
33.0	108 ± 4.4 <sup>S</sup>			187 ± 6.5	157 ± 8.1 <sup>S</sup>
100.0	94 ± 2.3 <sup>S</sup>			193 ± 3.5 <sup>P</sup>	
333.0				178 ± 10.5 <sup>P</sup>	
1000.0				150 ± 7.8 <sup>P</sup>	
3333.0				159 ± 6.7 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				2428 ± 30.8	2087 ± 90.4
Positive Control <sup>4</sup>	1221 ± 41.9	885 ± 57.0	1510 ± 33.1		

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	169 ± 14.1	96 ± 11.5	155 ± 11.1
0.01			
0.03			120 ± 8.4
0.1			112 ± 6.4
0.3	143 ± 13.6	92 ± 5.8	127 ± 2.3
1.0	153 ± 9.6	82 ± 5.5	108 ± 2.2
3.3	109 ± 2.9	60 ± 4.3 <sup>s</sup>	107 ± 3.8
10.0	144 ± 4.1	0 ± 0.0 <sup>s</sup>	
33.0	135 ± 5.7 <sup>s</sup>	Toxic	
100.0			
333.0			
1000.0			
3333.0			
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		1245 ± 31.6	1856 ± 79.8
Positive Control <sup>3</sup>	2234 ± 28.8		
Positive Control <sup>4</sup>			

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## 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>	38 ± 0.9	31 ± 2.8	13 ± 2.8	13 ± 2.4	9 ± 0.7
0.01		31 ± 0.9			
0.03		33 ± 2.7			
0.1		26 ± 5.4			
0.3		33 ± 3.9		13 ± 1.9	
1.0	22 ± 2.1	37 ± 5.2 <sup>s</sup>		9 ± 0.7	
3.3	22 ± 2.9 <sup>s</sup>			16 ± 1.8	
10.0	17 ± 2.9 <sup>s</sup>			14 ± 1.5 <sup>s</sup>	
33.0	18 ± 0.7 <sup>s</sup>		17 ± 4.8	19 ± 3.5 <sup>s</sup>	6 ± 0.7
100.0	20 ± 2.5 <sup>s</sup>		19 ± 3.5 <sup>p</sup>		7 ± 2.5 <sup>s</sup>
333.0			16 ± 1.2 <sup>p</sup>		6 ± 0.3 <sup>s</sup>
1000.0			16 ± 2.6 <sup>p</sup>		2 ± 0.6 <sup>s</sup>
3333.0			19 ± 2.6 <sup>p</sup>		9 ± 3.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					179 ± 18.0
Positive Control <sup>3</sup>			123 ± 4.9	118 ± 5.8	
Positive Control <sup>4</sup>	964 ± 39.4	844 ± 2.3			

Experiment Number: 318291

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

**G06: Ames Summary Data**

Test Compound: **C.I. Solvent yellow 14**

CAS Number: **842-07-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **09:35:46**

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.0
0.01	
0.03	
0.1	
0.3	13 ± 1.2
1.0	12 ± 2.6
3.3	12 ± 3.5 <sup>s</sup>
10.0	7 ± 0.3 <sup>s</sup>
33.0	4 ± 0.3 <sup>s</sup>
100.0	
333.0	
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	95 ± 5.1
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	67 ± 3.6	104 ± 3.2	117 ± 0.6	115 ± 3.7	137 ± 6.4
0.01		113 ± 6.0	117 ± 10.4		
0.03		104 ± 2.4	120 ± 5.8		
0.1		98 ± 7.9	115 ± 9.2		
0.3		99 ± 8.2	108 ± 4.1		264 ± 2.9
1.0	67 ± 6.0	95 ± 4.0 <sup>S</sup>	111 ± 3.2 <sup>S</sup>		416 ± 8.1 <sup>S</sup>
3.3	55 ± 2.7 <sup>S</sup>				309 ± 51.8 <sup>S</sup>
10.0	67 ± 4.4 <sup>S</sup>				343 ± 28.5 <sup>S</sup>
33.0	32 ± 9.8 <sup>S</sup>			524 ± 25.7	415 ± 10.1 <sup>S</sup>
100.0	53 ± 5.5 <sup>S</sup>			429 ± 14.9 <sup>P</sup>	
333.0				398 ± 8.5 <sup>P</sup>	
1000.0				271 ± 26.7 <sup>P</sup>	
3333.0				305 ± 6.1 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1330 ± 33.7	1043 ± 17.1
Positive Control <sup>5</sup>	527 ± 35.3	1976 ± 82.5	1087 ± 22.3		

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	152 ± 6.7	130 ± 7.2	154 ± 9.5
0.01			
0.03			138 ± 6.0
0.1			128 ± 6.1
0.3	266 ± 9.0	153 ± 4.7	162 ± 15.3
1.0	345 ± 28.2	175 ± 9.5	160 ± 10.5
3.3	400 ± 63.1	199 ± 9.0	189 ± 15.2
10.0	298 ± 43.7	172 ± 8.5 <sup>s</sup>	
33.0	418 ± 11.0 <sup>s</sup>	48 ± 5.5 <sup>s</sup>	
100.0			
333.0			
1000.0			
3333.0			
Trial Summary	Positive	Equivocal	Negative
Positive Control <sup>2</sup>		715 ± 12.1	1087 ± 47.1
Positive Control <sup>3</sup>	1472 ± 66.7		
Positive Control <sup>5</sup>			

Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	17 ± 2.6	17 ± 1.2	23 ± 2.9	29 ± 3.3	29 ± 3.2
0.01		13 ± 0.9	15 ± 1.5		
0.03		12 ± 1.3	21 ± 0.3		
0.1		21 ± 5.0	16 ± 1.8		
0.3		13 ± 3.2	15 ± 2.1		40 ± 5.4
1.0	16 ± 2.7	16 ± 1.3	18 ± 2.3		53 ± 3.8
3.3	18 ± 5.0				66 ± 8.7
10.0	18 ± 3.3				64 ± 4.9
33.0	20 ± 1.8 <sup>P</sup>			45 ± 0.9	41 ± 0.3
100.0	17 ± 1.3 <sup>P</sup>			38 ± 4.9 <sup>P</sup>	
333.0				39 ± 2.5 <sup>P</sup>	
1000.0				34 ± 3.8 <sup>P</sup>	
3333.0				40 ± 2.0 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				706 ± 13.1	1934 ± 25.2
Positive Control <sup>6</sup>	1901 ± 15.2	1810 ± 9.2	1931 ± 90.4		



Experiment Number: 318291

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: C.I. Solvent yellow 14

CAS Number: 842-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 09:35:46

## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 1.5	33 ± 5.5	34 ± 3.2	28 ± 2.4
0.01				
0.03				29 ± 0.9
0.1				31 ± 1.3
0.3	38 ± 2.6		27 ± 2.4	25 ± 1.0
1.0	49 ± 1.2		33 ± 0.9	32 ± 3.7
3.3	78 ± 13.6		37 ± 4.6	35 ± 1.5
10.0	67 ± 5.2		43 ± 2.5	
33.0	48 ± 0.9	32 ± 6.6	29 ± 3.2	
100.0		30 ± 2.2 <sup>P</sup>		
333.0		26 ± 0.6 <sup>P</sup>		
1000.0		33 ± 4.1 <sup>P</sup>		
3333.0		43 ± 1.9 <sup>P</sup>		
Trial Summary	Weakly Positive	Negative	Negative	Negative
Positive Control <sup>2</sup>		1812 ± 46.9	1214 ± 35.8	1114 ± 35.1
Positive Control <sup>3</sup>	1700 ± 124.2			
Positive Control <sup>6</sup>				

Experiment Number: 318291

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

**G06: Ames Summary Data**

Test Compound: **C.I. Solvent yellow 14**

CAS Number: **842-07-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **09:35:46**

**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: Acetone

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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