

Experiment Number: 376537

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

**G06: Ames Summary Data**

Test Compound: **C.I. Disperse yellow 3**

CAS Number: **2832-40-8**

Date Report Requested: **09/14/2018**

Time Report Requested: **03:27:42**

**NTP Study Number:**

376537

**Study Result:**

Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	93 ± 6.1	95 ± 2.7	149 ± 2.0	104 ± 11.3	100 ± 9.4
10.0			197 ± 10.9		
33.0			215 ± 3.5		
100.0	170 ± 6.7	169 ± 7.5	215 ± 17.5	309 ± 3.7	269 ± 5.5
333.0	165 ± 7.7	187 ± 14.8	243 ± 3.3	418 ± 20.7	396 ± 25.2
1000.0	267 ± 9.1	293 ± 15.8	385 ± 10.4	589 ± 16.3	1011 ± 61.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1630 ± 112.6	1533 ± 24.8
Positive Control <sup>4</sup>	1198 ± 10.0	1172 ± 47.8	1028 ± 49.6		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	150 ± 3.1	81 ± 10.0	96 ± 5.2	128 ± 3.0
10.0	200 ± 3.4			191 ± 3.2
33.0	262 ± 11.8			291 ± 13.5
100.0	401 ± 12.2	360 ± 12.7	386 ± 1.3	433 ± 17.6
333.0	567 ± 10.6	750 ± 15.2	694 ± 16.7	806 ± 13.7
1000.0	1063 ± 104.7	1030 ± 8.6	1251 ± 44.4	1417 ± 58.4
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1233 ± 17.6	1118 ± 39.8	1295 ± 24.6
Positive Control <sup>3</sup>	2365 ± 58.2			
Positive Control <sup>4</sup>				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	18 ± 1.8	21 ± 1.2	29 ± 2.4	10 ± 0.9	10 ± 0.3
10.0			26 ± 0.7		
33.0			30 ± 2.4		
100.0	19 ± 2.7	15 ± 1.5	24 ± 1.2 <sup>s</sup>	13 ± 1.5	15 ± 4.7
333.0	19 ± 2.1	18 ± 1.7 <sup>s</sup>	25 ± 3.5 <sup>s</sup>	11 ± 0.3	12 ± 0.7
1000.0	21 ± 2.4	17 ± 1.2	24 ± 2.0	9 ± 2.6	12 ± 2.1
3333.0	15 ± 3.9	13 ± 3.2		8 ± 1.5	5 ± 1.7
10000.0	16 ± 1.5	6 ± 1.2		6 ± 2.0	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				115 ± 5.9	106 ± 7.1
Positive Control <sup>4</sup>	786 ± 10.0	844 ± 11.0	992 ± 17.6		

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Test Compound: C.I. Disperse yellow 3

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**Strain: TA1535**

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.2	15 ± 2.8	14 ± 0.6	16 ± 4.2
10.0	13 ± 3.8			19 ± 1.5
33.0	13 ± 0.7			17 ± 3.8
100.0	11 ± 1.5	10 ± 1.2	12 ± 2.5	14 ± 4.3
333.0	15 ± 0.0	9 ± 1.8	11 ± 2.3	19 ± 3.8
1000.0	9 ± 2.0	13 ± 1.0	13 ± 1.5	18 ± 0.6
3333.0		16 ± 3.3	7 ± 1.9	
10000.0		8 ± 0.9	6 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		98 ± 5.5	93 ± 9.0	97 ± 7.4
Positive Control <sup>3</sup>	112 ± 4.0			
Positive Control <sup>4</sup>				

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	103 ± 3.5	97 ± 4.4	123 ± 1.2	177 ± 4.0	135 ± 7.6
10.0			290 ± 7.9		
33.0			397 ± 15.6		
100.0	281 ± 15.0	286 ± 6.4	174 ± 18.3 <sup>s</sup>	553 ± 21.4	731 ± 25.0
333.0	288 ± 23.6 <sup>s</sup>	303 ± 10.5 <sup>s</sup>	225 ± 78.6 <sup>s</sup>	822 ± 37.4	893 ± 8.1 <sup>s</sup>
1000.0	427 ± 4.0	430 ± 26.3	531 ± 33.2	877 ± 61.7	1080 ± 26.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1340 ± 27.2	1074 ± 62.2
Positive Control <sup>5</sup>	512 ± 29.8	421 ± 29.1	673 ± 16.8		

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**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	159 ± 13.3	163 ± 12.7	173 ± 6.7	291 ± 13.9
10.0	206 ± 6.7			275 ± 11.3
33.0	322 ± 13.7			388 ± 10.5
100.0	749 ± 46.8	741 ± 20.6	747 ± 17.5	739 ± 7.7
333.0	1054 ± 34.2	1081 ± 35.7	982 ± 9.8	1047 ± 5.1
1000.0	1300 ± 44.7	1277 ± 16.2	1471 ± 28.0	1401 ± 61.5
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1026 ± 39.2	10 ± 2.5	709 ± 12.1
Positive Control <sup>3</sup>	1094 ± 38.1			
Positive Control <sup>5</sup>				

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**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	24 ± 1.7	16 ± 3.2	21 ± 1.5	29 ± 5.7	24 ± 5.4
10.0			32 ± 2.6		
33.0			38 ± 2.5		
100.0	48 ± 3.5	32 ± 1.3	48 ± 1.5	349 ± 12.9	336 ± 15.8
333.0	52 ± 3.2	43 ± 4.9	66 ± 1.2	683 ± 21.1	577 ± 15.3
1000.0	98 ± 2.3	51 ± 1.9	115 ± 8.7	1051 ± 45.3	1394 ± 15.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1957 ± 32.5	1379 ± 65.6
Positive Control <sup>6</sup>	1840 ± 92.1	1843 ± 82.4	1463 ± 6.0		



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**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	33 ± 1.0	48 ± 14.3	24 ± 2.5	42 ± 4.0
10.0	62 ± 4.4			92 ± 2.3
33.0	153 ± 1.5			211 ± 8.7
100.0	336 ± 19.8	494 ± 4.8	394 ± 26.2	468 ± 14.3
333.0	731 ± 16.8	1013 ± 18.7	813 ± 6.7	1003 ± 43.3
1000.0	1009 ± 41.2	1482 ± 68.1	1715 ± 32.6	1831 ± 19.2
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1363 ± 19.1	962 ± 1.5	1088 ± 7.5
Positive Control <sup>3</sup>	1828 ± 42.2			
Positive Control <sup>6</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: 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

s: Slight Toxicity

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