

Experiment Number: A37938

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

**G06: Ames Summary Data**

Test Compound: **C.I. Basic red 29**

CAS Number: **42373-04-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **20:54:34**

**NTP Study Number:**

A37938

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	111 ± 3.5	87 ± 3.2	134 ± 3.2	104 ± 4.6	148 ± 10.3
10.0	114 ± 2.6	95 ± 5.0			
33.0	114 ± 2.9	108 ± 7.5			
100.0	113 ± 3.5	110 ± 5.5			
166.0			126 ± 11.4	91 ± 4.8	135 ± 13.6
333.0	105 ± 5.0	92 ± 6.0	124 ± 12.4	97 ± 0.7	137 ± 7.8
666.0			134 ± 11.8	82 ± 1.5	173 ± 14.5
1000.0	62 ± 9.3 <sup>s</sup>	141 ± 7.9 <sup>s</sup>	137 ± 4.7 <sup>s</sup>	99 ± 9.0	162 ± 19.6 <sup>s</sup>
1666.0			72 ± 14.6 <sup>s</sup>	91 ± 14.4 <sup>s</sup>	77 ± 2.9 <sup>s</sup>
3333.0					
6666.0					
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					1050 ± 26.5
Positive Control <sup>4</sup>	855 ± 24.4	1101 ± 10.0	886 ± 29.3	928 ± 73.7	
Positive Control <sup>5</sup>					

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## Strain: TA100

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	95 ± 4.4	94 ± 6.5	158 ± 2.6	97 ± 0.9	128 ± 5.2
10.0					
33.0		113 ± 1.5			
100.0		128 ± 10.0			123 ± 3.2
166.0	122 ± 11.1		165 ± 5.2	101 ± 7.0	
333.0	149 ± 4.4	132 ± 1.7	167 ± 21.0	114 ± 12.5	112 ± 3.3
666.0	148 ± 6.7		138 ± 3.4	127 ± 6.1	
1000.0	113 ± 7.6	168 ± 3.7	179 ± 4.6 <sup>s</sup>	115 ± 7.3	108 ± 5.3
1666.0	75 ± 2.3 <sup>s</sup>		42 ± 21.3 <sup>s</sup>	85 ± 6.1 <sup>s</sup>	
3333.0		100 ± 2.3 <sup>s</sup>			108 ± 10.3
6666.0					74 ± 8.7 <sup>s</sup>
Trial Summary	Equivocal	Weakly Positive	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	704 ± 37.1	450 ± 17.6	872 ± 24.5	476 ± 14.0	
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					509 ± 23.5

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## Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	126 ± 1.3	106 ± 10.1	90 ± 1.9	146 ± 6.4	96 ± 2.2
10.0					
33.0			98 ± 6.9		
100.0			89 ± 1.5		
166.0	133 ± 4.2	107 ± 9.5		147 ± 6.1	104 ± 2.6
333.0	145 ± 11.0	107 ± 7.7	93 ± 4.5	135 ± 4.0	104 ± 12.5
666.0	146 ± 3.5	108 ± 7.7		145 ± 10.7	116 ± 3.3
1000.0	163 ± 6.7 <sup>s</sup>	119 ± 5.1	133 ± 9.2	182 ± 2.9	115 ± 8.2
1666.0	82 ± 9.4 <sup>s</sup>	87 ± 1.5 <sup>s</sup>		95 ± 4.9 <sup>s</sup>	68 ± 7.1 <sup>s</sup>
3333.0			107 ± 3.7 <sup>s</sup>		
6666.0					
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>	1056 ± 44.5	567 ± 35.3	566 ± 21.7	751 ± 52.4	503 ± 36.3
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 5.6
10.0	
33.0	
100.0	122 ± 3.3
166.0	
333.0	115 ± 3.5
666.0	
1000.0	119 ± 7.5
1666.0	
3333.0	113 ± 2.3
6666.0	59 ± 16.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	538 ± 22.3
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	10 ± 0.9	12 ± 0.9	8 ± 1.8	8 ± 1.0	13 ± 2.6
10.0	13 ± 1.9	12 ± 2.6			
33.0	9 ± 0.3	10 ± 1.8			15 ± 0.9
100.0	8 ± 0.7	15 ± 1.2			11 ± 1.5
166.0			18 ± 3.2	8 ± 2.3	
333.0	8 ± 0.6	11 ± 2.2	28 ± 5.3	19 ± 2.6	11 ± 3.0
666.0			55 ± 9.3	27 ± 1.0	
1000.0	6 ± 1.5	8 ± 1.3 <sup>s</sup>	36 ± 1.0	75 ± 7.7	31 ± 1.3
1666.0			2 ± 0.9 <sup>s</sup>	5 ± 0.3 <sup>s</sup>	
3333.0					9 ± 0.0 <sup>s</sup>
6666.0					
Trial Summary	Negative	Negative	Positive	Positive	Equivocal
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>			154 ± 15.5	207 ± 10.7	217 ± 8.4
Positive Control <sup>4</sup>	933 ± 16.7	1354 ± 17.4			
Positive Control <sup>6</sup>					

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.8	7 ± 0.6	10 ± 1.5	8 ± 0.9	15 ± 1.5
10.0					
33.0					15 ± 1.2
100.0			11 ± 1.7		10 ± 1.9
166.0	14 ± 1.0	12 ± 3.0		9 ± 1.9	
333.0	14 ± 1.5	9 ± 1.5	11 ± 2.6	11 ± 1.9	15 ± 0.3
666.0	17 ± 1.5	16 ± 2.0		10 ± 2.2	
1000.0	25 ± 2.3	27 ± 6.1	8 ± 0.3	6 ± 1.0	17 ± 1.0
1666.0	8 ± 3.5 <sup>s</sup>	13 ± 3.4		5 ± 1.7 <sup>s</sup>	
3333.0			11 ± 1.0		4 ± 1.2 <sup>s</sup>
6666.0			4 ± 0.7 <sup>s</sup>		
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control <sup>3</sup>				279 ± 16.9	249 ± 21.4
Positive Control <sup>5</sup>	110 ± 7.3	152 ± 7.7			
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>			209 ± 3.6		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.8	12 ± 1.5
10.0		
33.0		
100.0		9 ± 1.5
166.0	13 ± 1.2	
333.0	15 ± 1.2	10 ± 1.5
666.0	17 ± 1.2	
1000.0	14 ± 5.6	13 ± 1.3
1666.0	11 ± 4.3 <sup>s</sup>	
3333.0		8 ± 0.7
6666.0		5 ± 0.6 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	134 ± 14.3	
Positive Control <sup>5</sup>		344 ± 30.7
Positive Control <sup>4</sup>		
Positive Control <sup>6</sup>		



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## 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>	146 ± 5.5	152 ± 1.2	182 ± 6.7	171 ± 1.5	187 ± 6.2
10.0	162 ± 10.5	169 ± 2.2			
33.0	155 ± 3.5	166 ± 8.5	182 ± 9.3		176 ± 9.1
100.0	150 ± 10.7	149 ± 16.4	168 ± 6.1	161 ± 10.7	178 ± 6.4
333.0	140 ± 5.5	177 ± 2.9	171 ± 8.5	148 ± 6.1	177 ± 4.9
1000.0	153 ± 24.7	143 ± 11.8 <sup>s</sup>	187 ± 6.6	147 ± 13.3	174 ± 8.5
3333.0			143 ± 2.6 <sup>s</sup>	166 ± 7.8	134 ± 3.0 <sup>s</sup>
6666.0				100 ± 11.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					780 ± 27.7
Positive Control <sup>3</sup>			694 ± 26.4	647 ± 26.6	
Positive Control <sup>7</sup>	549 ± 16.3	808 ± 51.9			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	139 ± 1.3
10.0	
33.0	
100.0	160 ± 2.0
333.0	149 ± 4.7
1000.0	169 ± 5.9
3333.0	158 ± 3.6
6666.0	70 ± 5.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	573 ± 15.5
Positive Control <sup>3</sup>	
Positive Control <sup>7</sup>	

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## 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>	18 ± 0.7	26 ± 0.6	30 ± 1.5	25 ± 3.2	27 ± 2.7
10.0	25 ± 3.2	25 ± 2.7			
33.0	28 ± 3.7	25 ± 6.1	26 ± 3.5		26 ± 2.0
100.0	17 ± 3.2	24 ± 1.5	25 ± 2.3	30 ± 3.2	23 ± 0.9
333.0	15 ± 1.2	24 ± 1.3	24 ± 1.0	26 ± 3.7	28 ± 1.3
1000.0	14 ± 1.0 <sup>s</sup>	24 ± 2.0 <sup>s</sup>	30 ± 1.0	24 ± 4.0	28 ± 3.7
3333.0			21 ± 2.4 <sup>s</sup>	17 ± 1.5	20 ± 0.6 <sup>s</sup>
6666.0				14 ± 1.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					806 ± 17.5
Positive Control <sup>3</sup>			531 ± 10.8		
Positive Control <sup>8</sup>	333 ± 7.9	514 ± 17.1			
Positive Control <sup>5</sup>				376 ± 12.7	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 1.2
10.0	
33.0	
100.0	25 ± 2.7
333.0	27 ± 1.9
1000.0	25 ± 3.2
3333.0	22 ± 2.3
6666.0	15 ± 2.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	413 ± 6.2
Positive Control <sup>8</sup>	
Positive Control <sup>5</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: 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

s: Slight Toxicity

\*\* END OF REPORT \*\*