

Experiment Number: 737540

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: C.I. Pigment violet 1

CAS Number: 1326-03-0

Date Report Requested: 09/17/2018

Time Report Requested: 05:35:52

**NTP Study Number:**

737540

**Study Result:**

Negative

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## 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>	110 ± 1.5	109 ± 11.7	113 ± 3.4	140 ± 2.6	106 ± 2.3
33.0		108 ± 10.3		120 ± 2.5	
100.0	107 ± 12.2	92 ± 2.0	106 ± 4.5	112 ± 10.2	99 ± 3.0
333.0	97 ± 1.5	105 ± 6.0	95 ± 9.0	124 ± 6.1	91 ± 7.2
1000.0	82 ± 3.6	82 ± 10.1 <sup>s</sup>	89 ± 7.3	97 ± 6.2 <sup>s</sup>	83 ± 7.4
3333.0	51 ± 7.0 <sup>s</sup>	63 ± 2.0 <sup>s</sup>	72 ± 3.5 <sup>s</sup>	77 ± 3.7 <sup>s</sup>	66 ± 7.3 <sup>s</sup>
10000.0	13 ± 1.7		17 ± 1.8		12 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1211 ± 41.5
Positive Control <sup>3</sup>			1191 ± 46.2		
Positive Control <sup>4</sup>				547 ± 27.1	
Positive Control <sup>5</sup>	1348 ± 25.4	1196 ± 36.6			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	112 ± 9.1
33.0	105 ± 1.5
100.0	120 ± 8.8
333.0	129 ± 1.9
1000.0	113 ± 7.9 <sup>s</sup>
3333.0	70 ± 4.7 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	736 ± 7.5
Positive Control <sup>5</sup>	

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	34 ± 3.3	30 ± 2.0	21 ± 1.5	16 ± 5.2	11 ± 0.9
33.0		26 ± 2.7			
100.0	36 ± 2.1	20 ± 3.9	22 ± 3.2	19 ± 2.3 <sup>s</sup>	12 ± 1.5
333.0	28 ± 3.9	20 ± 1.5	29 ± 2.9 <sup>s</sup>	17 ± 1.7 <sup>s</sup>	8 ± 3.5
1000.0	19 ± 1.5	19 ± 3.8	17 ± 1.2 <sup>s</sup>	19 ± 2.3 <sup>s</sup>	16 ± 1.5
2000.0			23 ± 2.7 <sup>s</sup>	25 ± 2.9 <sup>s</sup>	
3333.0	12 ± 2.2 <sup>s</sup>	9 ± 0.3 <sup>s</sup>	20 ± 3.8 <sup>s</sup>	19 ± 0.6 <sup>s</sup>	25 ± 0.9 <sup>s</sup>
5000.0			15 ± 2.4 <sup>s</sup>	16 ± 4.4 <sup>s</sup>	
10000.0	9 ± 1.0		12 ± 0.7 <sup>s</sup>	14 ± 2.1 <sup>s</sup>	9 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				108 ± 2.1	99 ± 20.3
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	944 ± 13.0	953 ± 7.9	1041 ± 16.2		

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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>	13 ± 3.3	15 ± 1.5	14 ± 2.8	15 ± 1.2	14 ± 2.2
33.0			14 ± 3.0		
100.0	12 ± 3.5	13 ± 1.5	12 ± 0.7	16 ± 2.3	11 ± 2.4
333.0	8 ± 2.3	13 ± 1.8 <sup>s</sup>	15 ± 1.8	11 ± 1.5	8 ± 0.9
1000.0	11 ± 2.7 <sup>s</sup>	17 ± 1.3 <sup>s</sup>	7 ± 1.2	18 ± 2.9 <sup>s</sup>	14 ± 1.9
2000.0	16 ± 1.2 <sup>s</sup>	19 ± 4.0 <sup>s</sup>		20 ± 3.0 <sup>s</sup>	
3333.0	23 ± 3.7 <sup>s</sup>	22 ± 0.3 <sup>s</sup>	15 ± 4.1 <sup>s</sup>	23 ± 1.2 <sup>s</sup>	16 ± 2.8 <sup>s</sup>
5000.0	19 ± 2.3 <sup>s</sup>	19 ± 1.2 <sup>s</sup>		20 ± 4.1 <sup>s</sup>	
10000.0	8 ± 0.6 <sup>s</sup>	11 ± 0.0 <sup>s</sup>		13 ± 1.2 <sup>s</sup>	7 ± 0.6
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				181 ± 8.0	128 ± 4.3
Positive Control <sup>3</sup>	101 ± 2.6	121 ± 3.6			
Positive Control <sup>4</sup>			161 ± 3.7		
Positive Control <sup>5</sup>					

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 2.3	16 ± 2.3
33.0		13 ± 1.9
100.0	9 ± 1.7	12 ± 1.5
333.0	11 ± 2.3 <sup>s</sup>	13 ± 0.9
1000.0	13 ± 0.9 <sup>s</sup>	11 ± 2.1
2000.0	14 ± 3.8 <sup>s</sup>	
3333.0	21 ± 3.9 <sup>s</sup>	10 ± 2.6 <sup>s</sup>
5000.0	20 ± 3.5 <sup>s</sup>	
10000.0	10 ± 0.9 <sup>s</sup>	
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	118 ± 5.8	
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		224 ± 14.9
Positive Control <sup>5</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>	101 ± 9.8	114 ± 3.7	134 ± 9.0	189 ± 9.7	129 ± 6.7
33.0		119 ± 6.4		185 ± 1.2	
100.0	103 ± 10.3	102 ± 9.3	142 ± 4.6	155 ± 8.5	124 ± 6.8
333.0	70 ± 4.3	105 ± 10.8	108 ± 3.9	170 ± 3.5	93 ± 2.9
1000.0	42 ± 7.6	100 ± 10.4	88 ± 5.0	120 ± 8.2	79 ± 4.4
3333.0	3 ± 1.7 <sup>s</sup>	111 ± 7.7 <sup>s</sup>	51 ± 2.1 <sup>s</sup>	104 ± 3.8 <sup>s</sup>	32 ± 15.5 <sup>s</sup>
10000.0	1 ± 0.3		15 ± 2.0		10 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					747 ± 12.3
Positive Control <sup>3</sup>			902 ± 43.0		
Positive Control <sup>4</sup>				548 ± 18.2	
Positive Control <sup>6</sup>	620 ± 13.5	797 ± 16.2			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	156 ± 5.5
33.0	162 ± 4.8
100.0	164 ± 5.4
333.0	162 ± 10.7
1000.0	126 ± 2.0
3333.0	118 ± 14.2 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	542 ± 12.2
Positive Control <sup>6</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>	20 ± 1.5	16 ± 1.7	37 ± 3.2	34 ± 5.0	34 ± 2.3
33.0		19 ± 4.9		32 ± 5.0	
100.0	19 ± 1.5	11 ± 1.9	36 ± 3.8	32 ± 1.2	44 ± 4.6
333.0	17 ± 2.5	10 ± 2.0	30 ± 6.4	37 ± 2.8	22 ± 0.6
1000.0	14 ± 3.2	8 ± 1.3	19 ± 1.0	13 ± 1.2	20 ± 2.0
3333.0	12 ± 2.3	8 ± 3.0	15 ± 1.2	12 ± 2.3 <sup>s</sup>	13 ± 2.3
10000.0	10 ± 0.6		7 ± 2.9		10 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1341 ± 42.6
Positive Control <sup>3</sup>			1379 ± 38.8		
Positive Control <sup>4</sup>				449 ± 13.0	
Positive Control <sup>7</sup>	1699 ± 37.2	1594 ± 95.7			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 3.2
33.0	29 ± 3.2
100.0	31 ± 4.7
333.0	43 ± 2.1
1000.0	20 ± 3.2
3333.0	14 ± 1.5
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	653 ± 12.2
Positive Control <sup>7</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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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