

Experiment Number: A22839

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: D & C red no. 27

CAS Number: 13473-26-2

Date Report Requested: 09/16/2018

Time Report Requested: 10:35:30

**NTP Study Number:**

A22839

**Study Result:**

Positive

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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>	124 ± 16.8	182 ± 1.5	154 ± 3.8	157 ± 2.3	193 ± 13.0
100.0	154 ± 3.0	220 ± 5.8	178 ± 9.5	155 ± 6.2	196 ± 8.5
333.0	158 ± 7.4	191 ± 4.8	186 ± 11.7	173 ± 5.3	196 ± 6.5
1000.0	141 ± 5.5	123 ± 8.7	153 ± 3.3	129 ± 13.4	158 ± 6.4
3333.0	117 ± 8.2 <sup>s</sup>	86 ± 4.9 <sup>s</sup>	106 ± 2.3 <sup>s</sup>	112 ± 3.7 <sup>s</sup>	114 ± 12.2 <sup>s</sup>
10000.0	32 ± 1.2 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	77 ± 7.0 <sup>s</sup>	12 ± 3.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1955 ± 171.8
Positive Control <sup>3</sup>	653 ± 170.5	424 ± 34.0			
Positive Control <sup>4</sup>			1502 ± 101.2		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				565 ± 66.3	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	156 ± 9.8
100.0	161 ± 8.5
333.0	155 ± 11.9
1000.0	123 ± 9.6
3333.0	123 ± 11.9 <sup>s</sup>
10000.0	67 ± 18.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	1623 ± 50.0
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 1.8	26 ± 1.8	17 ± 2.4	15 ± 3.2	18 ± 1.8
100.0	22 ± 1.2	28 ± 2.3	19 ± 3.3	14 ± 1.5	15 ± 0.9
333.0	16 ± 1.2	26 ± 2.9	14 ± 1.3	12 ± 2.6	16 ± 2.4
1000.0	17 ± 1.2	17 ± 2.0	14 ± 2.7	14 ± 0.7	19 ± 3.2
3333.0	13 ± 0.7	17 ± 1.7	11 ± 2.3 <sup>s</sup>	12 ± 0.6	14 ± 3.6 <sup>s</sup>
10000.0	5 ± 1.8 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	Toxic	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					287 ± 8.4
Positive Control <sup>3</sup>	171 ± 22.3	273 ± 44.7			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			213 ± 22.1	168 ± 6.1	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 5.0
100.0	15 ± 1.2
333.0	13 ± 4.1
1000.0	13 ± 1.2
3333.0	11 ± 0.9 <sup>s</sup>
10000.0	2 ± 1.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	126 ± 15.8
Positive Control <sup>6</sup>	

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>
Vehicle Control <sup>1</sup>	4 ± 2.5
3.3	7 ± 0.7
10.0	8 ± 1.9
33.0	7 ± 1.8
100.0	6 ± 1.9
333.0	7 ± 0.9
Trial Summary	Negative
Positive Control <sup>7</sup>	21 ± 1.8

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	143 ± 9.7	116 ± 13.0	135 ± 8.4	150 ± 8.7	175 ± 20.7
3.3		132 ± 2.1			
10.0		143 ± 2.8			
33.0		204 ± 11.9			
100.0	236 ± 19.7	201 ± 2.6	204 ± 11.3	167 ± 14.7	174 ± 18.9
333.0	182 ± 1.2	197 ± 17.2	210 ± 6.2	144 ± 5.4	180 ± 13.0
1000.0	152 ± 4.4		155 ± 9.1	111 ± 5.2	167 ± 8.6
3333.0	91 ± 6.9 <sup>s</sup>		77 ± 9.6	69 ± 2.9 <sup>s</sup>	134 ± 14.7 <sup>s</sup>
10000.0	10 ± 9.7 <sup>s</sup>		0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	65 ± 2.3 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>				712 ± 65.7	658 ± 9.3
Positive Control <sup>8</sup>	628 ± 52.0	545 ± 14.7	532 ± 57.6		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 15.1	153 ± 5.8
3.3		
10.0		
33.0		
100.0	161 ± 6.1	168 ± 21.5
333.0	122 ± 2.8	189 ± 7.0
1000.0	111 ± 12.3	175 ± 9.6
3333.0	91 ± 6.7 <sup>s</sup>	117 ± 6.9
10000.0	0 ± 0.0 <sup>s</sup>	106 ± 8.1 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	1666 ± 16.2	
Positive Control <sup>6</sup>		608 ± 47.4
Positive Control <sup>8</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>	15 ± 1.5	21 ± 1.5	28 ± 2.7	22 ± 3.7	29 ± 3.2
100.0	16 ± 1.5	32 ± 2.1	30 ± 2.2	25 ± 1.2	30 ± 2.4
333.0	18 ± 2.0	30 ± 2.0	25 ± 3.0	23 ± 1.8	20 ± 4.0
1000.0	15 ± 3.3	24 ± 5.8	17 ± 4.5	16 ± 2.2	15 ± 0.9
3333.0	12 ± 1.0	17 ± 4.4	10 ± 2.8 <sup>s</sup>	16 ± 1.0 <sup>s</sup>	14 ± 0.6
10000.0	7 ± 0.7 <sup>s</sup>	5 ± 1.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	5 ± 0.9 <sup>s</sup>	4 ± 1.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			828 ± 62.3		1551 ± 72.4
Positive Control <sup>9</sup>	94 ± 5.4	109 ± 2.5			
Positive Control <sup>5</sup>				450 ± 61.6	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 2.7
100.0	19 ± 0.3
333.0	18 ± 0.9
1000.0	16 ± 1.0
3333.0	12 ± 0.6 <sup>s</sup>
10000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>9</sup>	
Positive Control <sup>5</sup>	1228 ± 24.2

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	236 ± 20.1	214 ± 4.6	301 ± 23.4	349 ± 20.9	302 ± 15.9
10.0		254 ± 5.4		389 ± 32.1	
33.0		271 ± 9.7		355 ± 12.5	
100.0	308 ± 11.3	305 ± 4.4	358 ± 6.7	384 ± 12.9	367 ± 23.1
333.0	330 ± 1.5	337 ± 21.8	415 ± 7.0	404 ± 11.0	435 ± 17.7
500.0		302 ± 20.0		427 ± 9.0	
1000.0	255 ± 8.9		314 ± 30.4		372 ± 1.2
3333.0	169 ± 9.1 <sup>s</sup>		263 ± 2.3 <sup>s</sup>		295 ± 12.6 <sup>s</sup>
10000.0	35 ± 4.9 <sup>s</sup>		11 ± 1.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Negative	Equivocal
Positive Control <sup>10</sup>			1953 ± 44.5	1307 ± 29.6	2124 ± 58.7
Positive Control <sup>11</sup>	1325 ± 57.8	898 ± 36.7			

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Strain: TA102

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	337 ± 10.5
10.0	296 ± 13.1
33.0	338 ± 6.8
100.0	360 ± 18.7
333.0	379 ± 20.7
500.0	421 ± 31.9
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>10</sup>	1524 ± 19.1
Positive Control <sup>11</sup>	

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Strain: TA104				
Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	209 ± 2.0	213 ± 8.4	258 ± 12.5	238 ± 4.5
10.0	247 ± 11.1			
33.0	248 ± 16.8			
100.0	345 ± 20.7	316 ± 15.3	206 ± 29.2	152 ± 4.9
333.0	333 ± 18.9	347 ± 9.5	193 ± 2.3	161 ± 17.9
500.0	381 ± 15.4	354 ± 15.4		
750.0		315 ± 17.8		
1000.0		334 ± 6.8	131 ± 14.9	130 ± 4.9
3333.0			112 ± 8.4 <sup>s</sup>	105 ± 2.0 <sup>s</sup>
10000.0			106 ± 0.6 <sup>s</sup>	104 ± 1.3 <sup>s</sup>
Trial Summary	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control <sup>12</sup>			1399 ± 36.9	1263 ± 94.9
Positive Control <sup>13</sup>	686 ± 5.2	801 ± 43.0		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 4.0 ug/Plate 9-Aminoacridine

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

10: 5.0 ug/Plate Sterigmatocystin

11: 75.0 ug/Plate Other Positive Control

12: 4.0 ug/Plate 2-Aminoanthracene

13: 75.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

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