

Experiment Number: 686247

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D & C yellow no. 11

CAS Number: 8003-22-3

Date Report Requested: 09/13/2018

Time Report Requested: 01:46:07

NTP Study Number:

686247

Study Result:

Equivocal

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CAS Number: 8003-22-3

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control ¹	120 ± 7.4	109 ± 5.8	109 ± 11.0	121 ± 6.5	91 ± 5.9
0.3					108 ± 11.2
1.0		92 ± 10.7			87 ± 8.1
3.0		96 ± 13.1	94 ± 5.8		101 ± 8.1
6.0		87 ± 11.6			
10.0		104 ± 10.4	110 ± 5.9		121 ± 25.2
16.0					
20.0					
33.0		121 ± 8.2	138 ± 7.8		142 ± 16.6
66.0					
100.0	118 ± 7.1		95 ± 6.7	167 ± 5.9	
166.0					
200.0					
333.0	95 ± 5.2 ^p		80 ± 5.9 ^p	141 ± 18.9 ^p	
1000.0	91 ± 4.8 ^p			153 ± 6.1 ^p	
3333.0	93 ± 5.8 ^p			150 ± 10.9 ^p	
10000.0	111 ± 3.2 ^p			161 ± 6.2 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³				1276 ± 45.0	
Positive Control ⁴					889 ± 53.5
Positive Control ⁵	629 ± 23.5	438 ± 19.3	554 ± 21.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	95 ± 7.8	147 ± 4.8	143 ± 10.4	144 ± 7.0	135 ± 2.7
0.3					116 ± 1.3
1.0					115 ± 7.7
3.0		127 ± 13.0			151 ± 5.5
6.0					
10.0		146 ± 4.5		181 ± 14.5	200 ± 16.3
16.0				208 ± 11.0	
20.0				211 ± 16.7	
33.0		208 ± 21.2		184 ± 7.2	213 ± 11.1
66.0				182 ± 17.5	
100.0	196 ± 10.8	164 ± 16.9	178 ± 14.3	186 ± 8.5	
166.0		142 ± 7.5 ^P		182 ± 9.0 ^P	
200.0				173 ± 7.0 ^P	
333.0	164 ± 7.6 ^P		182 ± 9.8 ^P	165 ± 9.7 ^P	
1000.0	154 ± 10.6 ^P		185 ± 6.8 ^P		
3333.0	186 ± 8.8 ^P		184 ± 7.5 ^P		
10000.0	202 ± 8.7 ^P		173 ± 7.1 ^P		
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					114 ± 4.5
Positive Control ³					
Positive Control ⁴	445 ± 9.2	470 ± 14.8	502 ± 24.0	776 ± 21.9	
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	113 ± 10.7	86 ± 5.0	141 ± 5.5	112 ± 6.1	112 ± 12.2
0.3		88 ± 6.8		97 ± 9.1	
1.0	115 ± 11.2	79 ± 3.8		90 ± 7.6	
3.0	121 ± 4.8	93 ± 4.3		84 ± 1.5	94 ± 4.4
6.0	115 ± 5.9				
10.0	151 ± 11.3	112 ± 9.0		85 ± 4.3	107 ± 5.2
16.0					
20.0					
33.0	181 ± 5.0	142 ± 13.3		120 ± 19.7	123 ± 6.2
66.0					
100.0			159 ± 5.0		178 ± 10.6
166.0					
200.0					
333.0			164 ± 2.5 ^P		154 ± 14.0 ^P
1000.0			174 ± 12.0 ^P		
3333.0			149 ± 8.0 ^P		
10000.0			169 ± 3.4 ^P		
Trial Summary	Equivocal	Equivocal	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³					
Positive Control ⁴	567 ± 5.6	421 ± 27.9	307 ± 20.8	296 ± 11.0	245 ± 12.2
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	132 ± 14.1	115 ± 5.8	119 ± 7.4
0.3			
1.0		114 ± 13.3	
3.0		116 ± 4.2	133 ± 16.6
6.0		112 ± 10.2	
10.0		128 ± 6.7	133 ± 9.9
16.0			
20.0			
33.0		148 ± 5.0	157 ± 6.9
66.0			
100.0	169 ± 2.9		169 ± 10.3
166.0			
200.0			
333.0	151 ± 10.9 ^p		131 ± 6.8 ^p
1000.0	136 ± 8.1 ^p		
3333.0	158 ± 7.5 ^p		
10000.0	169 ± 6.4 ^p		
Trial Summary	Negative	Negative	Equivocal
Positive Control ²			
Positive Control ³	683 ± 31.0	989 ± 51.7	
Positive Control ⁴			622 ± 79.8
Positive Control ⁵			

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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 ¹	16 ± 1.5	16 ± 1.5	21 ± 0.3	9 ± 1.5	10 ± 2.3
1.0		17 ± 3.3			11 ± 1.8
3.0		17 ± 3.8	14 ± 2.7		11 ± 1.5
6.0		15 ± 0.0			11 ± 1.9
10.0		15 ± 1.5	15 ± 3.2		9 ± 1.3
33.0		20 ± 2.3	13 ± 2.3		8 ± 0.6
100.0	6 ± 0.9		11 ± 1.0	11 ± 2.9	
333.0	8 ± 1.5 ^p		9 ± 1.8 ^p	5 ± 0.6 ^p	
1000.0	7 ± 0.6 ^p			5 ± 1.2 ^p	
3333.0	6 ± 0.3 ^p			9 ± 1.3 ^p	
10000.0	8 ± 3.2 ^p			10 ± 1.5 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁵	434 ± 11.3	417 ± 13.9	442 ± 7.5		
Positive Control ⁶				158 ± 7.4	290 ± 5.5

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Test Compound: D & C yellow no. 11

CAS Number: 8003-22-3

Date Report Requested: 09/13/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.0	7 ± 1.2	8 ± 2.0	10 ± 1.8
1.0			9 ± 2.1	
3.0	10 ± 2.0		13 ± 2.6	7 ± 0.6
6.0			9 ± 2.3	
10.0	8 ± 1.8		13 ± 0.3	6 ± 1.2
33.0	10 ± 2.7		10 ± 0.9	8 ± 1.8
100.0	12 ± 1.5	8 ± 1.2		7 ± 0.3
333.0	7 ± 0.7 ^p	6 ± 0.7 ^p		5 ± 1.2 ^p
1000.0		7 ± 2.0 ^p		
3333.0		9 ± 0.3 ^p		
10000.0		8 ± 2.0 ^p		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴		333 ± 31.3	483 ± 10.7	
Positive Control ⁵				
Positive Control ⁶	97 ± 10.5			432 ± 55.5

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Date Report Requested: 09/13/2018

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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 ¹	148 ± 4.7	129 ± 7.9	137 ± 10.9	200 ± 5.8	160 ± 2.9
1.0		115 ± 9.8			159 ± 10.7
3.0		118 ± 10.7	150 ± 8.6		173 ± 5.5
6.0		112 ± 7.2			169 ± 2.2
10.0		109 ± 16.7	131 ± 10.5		185 ± 12.8
33.0		112 ± 15.6	147 ± 10.8		217 ± 22.6
100.0	154 ± 4.3		98 ± 7.0	192 ± 3.4	
333.0	129 ± 3.4 ^p		66 ± 25.5 ^p	171 ± 29.9 ^p	
1000.0	113 ± 2.6 ^p			147 ± 14.7 ^p	
3333.0	111 ± 14.2 ^p			186 ± 9.8 ^p	
10000.0	141 ± 13.6 ^p			187 ± 25.0 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ³					
Positive Control ⁴				365 ± 17.8	375 ± 13.5
Positive Control ⁶					
Positive Control ⁷	352 ± 22.5				
Positive Control ⁸		579 ± 5.7	795 ± 35.9		

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G06: Ames Summary Data

Test Compound: D & C yellow no. 11

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	210 ± 8.1	189 ± 7.0	158 ± 6.1	159 ± 12.5
1.0			167 ± 4.7	
3.0	184 ± 14.1		168 ± 5.2	153 ± 3.2
6.0			166 ± 3.4	
10.0	175 ± 7.4		176 ± 6.1	182 ± 21.5
33.0	209 ± 5.8		174 ± 9.7	141 ± 70.4
100.0	224 ± 5.1	202 ± 9.1		181 ± 35.9
333.0	114 ± 4.0 ^P	169 ± 8.7 ^P		109 ± 17.8 ^P
1000.0		168 ± 17.9 ^P		
3333.0		209 ± 3.8 ^P		
10000.0		197 ± 5.7 ^P		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³		1060 ± 75.7	528 ± 26.9	
Positive Control ⁴				536 ± 4.9
Positive Control ⁶	469 ± 11.3			
Positive Control ⁷				
Positive Control ⁸				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 3.5	18 ± 0.7	24 ± 2.3	28 ± 5.3	28 ± 4.7
1.0		19 ± 1.2			
3.0		17 ± 1.3	19 ± 1.5		
6.0		20 ± 1.2			
10.0		15 ± 1.0	20 ± 2.4		
33.0		17 ± 1.8	15 ± 0.7		
100.0	17 ± 3.3		16 ± 1.9	42 ± 1.7	56 ± 4.7
166.0					
333.0	10 ± 1.2 ^P		12 ± 1.5 ^P	41 ± 4.0 ^P	26 ± 3.3 ^P
1000.0	11 ± 2.9 ^P			32 ± 3.7 ^P	26 ± 5.8 ^P
3333.0	12 ± 0.7 ^P			30 ± 1.8 ^P	42 ± 4.6 ^P
10000.0	19 ± 0.7 ^P			34 ± 3.8 ^P	53 ± 2.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ³					
Positive Control ⁴					335 ± 6.6
Positive Control ⁹	751 ± 2.0	569 ± 20.3	595 ± 29.0		
Positive Control ⁶				681 ± 33.5	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	22 ± 3.1	30 ± 2.0	26 ± 1.9	29 ± 4.7	23 ± 5.0
1.0			28 ± 3.8		
3.0	27 ± 1.5		28 ± 5.1		27 ± 4.8
6.0			29 ± 1.9		
10.0	29 ± 2.7		30 ± 3.3		27 ± 6.1
33.0	36 ± 7.1		43 ± 2.9		28 ± 4.6
100.0	37 ± 2.1	37 ± 4.2		38 ± 4.1	38 ± 2.3
166.0	28 ± 7.0 ^P				
333.0		34 ± 2.1 ^P		32 ± 5.8 ^P	26 ± 1.5 ^P
1000.0		37 ± 3.9 ^P		29 ± 6.7 ^P	
3333.0		39 ± 1.7 ^P		36 ± 4.1 ^P	
10000.0		44 ± 4.4 ^P		38 ± 4.9 ^P	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴	293 ± 6.1	394 ± 5.6	514 ± 3.0	62 ± 4.5	135 ± 12.1
Positive Control ⁹					
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	37 ± 4.1	31 ± 2.6	23 ± 11.3
1.0		27 ± 3.4	
3.0		33 ± 2.1	30 ± 3.5
6.0		29 ± 2.4	
10.0		31 ± 2.5	37 ± 4.4
33.0		46 ± 4.7	42 ± 2.8
100.0	45 ± 4.3		49 ± 7.5
166.0			
333.0	26 ± 2.6 ^p		36 ± 2.3 ^p
1000.0	29 ± 6.0 ^p		
3333.0	54 ± 4.0 ^p		
10000.0	52 ± 2.2 ^p		
Trial Summary	Negative	Negative	Negative
Positive Control ³	594 ± 51.4	782 ± 20.3	
Positive Control ⁴			468 ± 30.7
Positive Control ⁹			
Positive Control ⁶			

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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: Dimethyl Sulfoxide

2: 0.1 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate Sodium Azide

6: 2.5 ug/Plate 2-Aminoanthracene

7: 25.0 ug/Plate 9-Aminoacridine

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****