

Experiment Number: 098811

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: FD & C yellow no. 6

CAS Number: 2783-94-0

Date Report Requested: 09/11/2018

Time Report Requested: 13:08:15

NTP Study Number:

098811

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 ¹	107 ± 4.7	88 ± 2.9	105 ± 6.2	125 ± 2.6	108 ± 6.1
10.0	98 ± 3.2		106 ± 4.3		114 ± 4.6
33.0	101 ± 6.1		109 ± 2.2		109 ± 7.2
100.0	94 ± 1.2	107 ± 6.7	95 ± 5.0	124 ± 6.4	100 ± 4.8
333.0		93 ± 1.5		104 ± 4.6	
1000.0		113 ± 9.5		109 ± 4.0	
3333.0	103 ± 9.2	102 ± 5.6	80 ± 2.3	112 ± 7.0	106 ± 9.5
10000.0	98 ± 2.8	90 ± 5.0	81 ± 1.9	112 ± 3.2	106 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					504 ± 10.0
Positive Control ³	348 ± 23.3	266 ± 23.4			
Positive Control ⁴			446 ± 9.5		
Positive Control ⁵					
Positive Control ⁶				375 ± 5.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	130 ± 7.3
10.0	
33.0	
100.0	123 ± 1.7
333.0	120 ± 4.4
1000.0	109 ± 10.5
3333.0	123 ± 7.2
10000.0	122 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	334 ± 30.3
Positive Control ⁶	

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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 ¹	17 ± 3.5	13 ± 2.0	8 ± 1.7	11 ± 2.5	6 ± 1.7
10.0	17 ± 0.3		9 ± 1.2		9 ± 2.6
33.0	17 ± 3.1		7 ± 1.2		11 ± 0.9
100.0	17 ± 1.9	14 ± 1.5	7 ± 1.2	9 ± 0.6	8 ± 2.3
333.0		15 ± 0.9		7 ± 0.6	
1000.0		14 ± 2.3		9 ± 0.3	
3333.0	14 ± 0.7	13 ± 2.0	9 ± 0.3	6 ± 0.6	7 ± 0.9
10000.0	15 ± 2.4	13 ± 0.6	11 ± 2.2	8 ± 2.0	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					70 ± 9.5
Positive Control ³	196 ± 6.8	104 ± 3.5			
Positive Control ⁵					
Positive Control ⁶			160 ± 9.4	66 ± 5.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2
10.0	
33.0	
100.0	9 ± 4.0
333.0	9 ± 0.6
1000.0	11 ± 2.5
3333.0	8 ± 3.1
10000.0	9 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	61 ± 5.8
Positive Control ⁶	

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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 ¹	99 ± 9.6	96 ± 1.5	146 ± 12.5	193 ± 2.4	118 ± 6.8
10.0			152 ± 5.2		149 ± 7.9
33.0			116 ± 4.5		135 ± 2.0
100.0	103 ± 7.0	92 ± 3.9	85 ± 2.0	176 ± 12.5	90 ± 22.0
333.0	103 ± 3.4	98 ± 3.2		177 ± 5.1	
1000.0	96 ± 7.9	110 ± 6.4		141 ± 13.2	
3333.0	98 ± 5.2	110 ± 6.6	108 ± 1.2	126 ± 3.9	115 ± 11.0
10000.0	91 ± 4.8	89 ± 3.2	104 ± 2.0	130 ± 8.4	112 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					833 ± 6.0
Positive Control ⁶			533 ± 33.0		
Positive Control ⁷				401 ± 16.3	
Positive Control ⁸					
Positive Control ⁹	803 ± 66.2				
Positive Control ¹⁰		193 ± 4.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	232 ± 14.3
10.0	
33.0	
100.0	221 ± 3.5
333.0	209 ± 4.0
1000.0	166 ± 6.9
3333.0	142 ± 3.5
10000.0	156 ± 7.5
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	611 ± 42.7
Positive Control ⁸	
Positive Control ⁹	
Positive Control ¹⁰	

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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 ¹	16 ± 2.7	16 ± 1.9	23 ± 1.5	21 ± 1.9	23 ± 4.1
10.0	18 ± 3.8		25 ± 1.0		27 ± 1.2
33.0	20 ± 1.9		22 ± 3.6		25 ± 1.3
100.0	16 ± 2.7	10 ± 2.0	18 ± 1.5	23 ± 1.2	22 ± 1.5
333.0		14 ± 2.7		23 ± 1.2	
1000.0		13 ± 0.0		21 ± 1.9	
3333.0	18 ± 3.8	10 ± 2.6	23 ± 1.2	14 ± 2.8	20 ± 2.3
10000.0	12 ± 2.7	12 ± 2.2	12 ± 2.0	17 ± 2.3	16 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					118 ± 4.6
Positive Control ²			237 ± 20.1		
Positive Control ⁵				96 ± 1.8	
Positive Control ¹²	166 ± 5.5	109 ± 8.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.1	37 ± 0.7
10.0		
33.0		26 ± 0.6
100.0	29 ± 1.2	31 ± 4.4
333.0	27 ± 3.1	28 ± 2.0
1000.0	23 ± 1.0	26 ± 1.9
3333.0	20 ± 1.7	19 ± 3.8
10000.0	16 ± 1.2	
Trial Summary	Negative	Negative
Positive Control ¹¹		
Positive Control ²	112 ± 16.4	86 ± 8.1
Positive Control ⁵		
Positive Control ¹²		

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Test Type: **Genetic Toxicology - Bacterial
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Test Compound: **FD & C yellow no. 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: Water

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: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 4.0 ug/Plate 9-Aminoacridine

10: 8.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****