

Experiment Number: 231115

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: **09/15/2018**

Time Report Requested: **03:45:28**

NTP Study Number:

231115

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	87 ± 4.2	109 ± 6.0	110 ± 6.9	112 ± 8.1	116 ± 4.5
3.3					
10.0	97 ± 3.0			109 ± 10.0	
33.0	92 ± 7.5			123 ± 4.4	
100.0	90 ± 5.3	122 ± 6.4	129 ± 8.9	171 ± 5.7	184 ± 11.1
333.0	74 ± 3.5	112 ± 4.0	119 ± 2.8	162 ± 10.1	171 ± 7.5
1000.0		117 ± 2.8	128 ± 9.9		159 ± 4.1
3333.0	89 ± 10.2 ^p	113 ± 4.2	126 ± 4.2	179 ± 7.7 ^p	168 ± 1.2
4000.0		120 ± 6.0	142 ± 12.6		155 ± 9.8
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ²	560 ± 10.1				
Positive Control ³		530 ± 57.3	280 ± 16.8		
Positive Control ⁴					
Positive Control ⁵				331 ± 0.0	411 ± 45.8

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	97 ± 3.2	108 ± 4.6	97 ± 2.3
3.3	83 ± 1.7		97 ± 4.7
10.0	92 ± 4.6	106 ± 0.9	111 ± 3.5
33.0	115 ± 13.6	141 ± 2.3	125 ± 6.4
100.0	199 ± 1.8	151 ± 7.1	181 ± 7.1
333.0	211 ± 13.4 ^p	154 ± 6.1	186 ± 11.0 ^p
1000.0	217 ± 20.0 ^p		200 ± 40.5 ^p
3333.0	217 ± 11.6 ^p	154 ± 3.5 ^p	195 ± 11.0 ^p
4000.0	211 ± 2.9 ^p		190 ± 4.7 ^p
Trial Summary	Positive	Equivocal	Positive
Positive Control ²			
Positive Control ³			
Positive Control ⁴		531 ± 14.2	461 ± 45.5
Positive Control ⁵	438 ± 15.8		

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Strain: TA1538

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.2	16 ± 2.3
3.3	16 ± 3.8	15 ± 2.0
10.0	16 ± 0.3	18 ± 2.1
33.0	16 ± 5.2	24 ± 2.1
100.0	28 ± 1.5	28 ± 0.9
333.0	32 ± 2.7 ^p	30 ± 2.2 ^p
1000.0	23 ± 3.1 ^p	30 ± 4.2 ^p
3333.0	24 ± 1.5 ^p	37 ± 2.9 ^p
4000.0	28 ± 2.2 ^p	29 ± 3.5 ^p
Trial Summary	Equivocal	Weakly Positive
Positive Control ⁶		108 ± 8.0
Positive Control ⁴	97 ± 3.1	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	15 ± 3.5	25 ± 5.7	30 ± 4.8	27 ± 3.4	21 ± 1.7
0.0					
3.3					
10.0	15 ± 3.7			22 ± 4.9	
33.0	14 ± 2.0			34 ± 2.5	
100.0	13 ± 3.2	36 ± 4.1	44 ± 3.6	39 ± 0.3	36 ± 2.1
333.0	14 ± 1.5	23 ± 0.6	46 ± 1.2	40 ± 2.2	34 ± 4.4
1000.0		29 ± 3.0	39 ± 0.9		39 ± 5.4
3333.0	17 ± 2.7 ^p	38 ± 5.9	43 ± 3.3	45 ± 3.6 ^p	42 ± 4.1
4000.0		31 ± 4.6	39 ± 3.9		45 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ⁷					
Positive Control ⁶		90 ± 4.4	78 ± 1.3		
Positive Control ⁴				104 ± 3.6	92 ± 4.1
Positive Control ⁸	254 ± 3.8				

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 3.0	27 ± 2.3	18 ± 0.5	24 ± 3.1	30 ± 1.9
0.0					
3.3		23 ± 3.8			
10.0		26 ± 2.7			32 ± 4.0
33.0		28 ± 4.0			35 ± 1.2
100.0	39 ± 1.5	48 ± 6.4	26 ± 3.6	44 ± 2.0	51 ± 5.9
333.0	37 ± 5.5	45 ± 2.7 ^P	25 ± 2.3	39 ± 3.5	46 ± 3.2
1000.0	50 ± 5.0	47 ± 2.5 ^P	27 ± 4.8	40 ± 3.5	
3333.0	55 ± 2.2 ^P	45 ± 2.3 ^P	28 ± 1.8	44 ± 3.1	47 ± 2.3 ^P
4000.0	61 ± 4.1 ^P	46 ± 0.9 ^P	31 ± 2.0	43 ± 0.7	
Trial Summary	Weakly Positive	Negative	Negative	Equivocal	Negative
Positive Control ⁷			93 ± 24.2	101 ± 20.9	
Positive Control ⁶					75 ± 1.2
Positive Control ⁴	127 ± 11.5	158 ± 5.5			
Positive Control ⁸					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	23 ± 1.5	22 ± 2.0	29 ± 1.2
0.0			0 ± 0.0 ^P
3.3			31 ± 3.2
10.0			30 ± 2.1
33.0			34 ± 3.8
100.0	65 ± 3.8	39 ± 3.5	59 ± 2.6
333.0	52 ± 7.5	52 ± 4.9	49 ± 3.3 ^P
1000.0	62 ± 1.7	53 ± 4.1 ^P	64 ± 5.0 ^P
3333.0	63 ± 2.0	52 ± 5.0 ^P	66 ± 3.5 ^P
4000.0	54 ± 3.6	52 ± 8.5 ^P	65 ± 1.2 ^P
Trial Summary	Weakly Positive	Positive	Positive
Positive Control ⁷			
Positive Control ⁶	56 ± 2.0	53 ± 5.2	98 ± 4.1
Positive Control ⁴			
Positive Control ⁸			

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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: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 ug/Plate 2-Aminoanthracene

7: 0.2 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****