

Experiment Number: 038974

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D & C green no. 5

CAS Number: 4403-90-1

Date Report Requested: 09/14/2018

Time Report Requested: 20:12:12

NTP Study Number:

038974

Study Result:

Weakly Positive

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Date Report Requested: 09/14/2018

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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	110 ± 3.8	122 ± 12.7	139 ± 9.6	147 ± 14.1	170 ± 4.6
100.0	112 ± 5.2			144 ± 7.7	
333.0	118 ± 7.7	132 ± 10.9	148 ± 3.5	150 ± 19.3	163 ± 5.3
1000.0	99 ± 7.8	120 ± 7.5	163 ± 0.6	149 ± 4.1	167 ± 9.8
3333.0	113 ± 4.8	123 ± 10.9	164 ± 12.4	138 ± 8.5	148 ± 10.7
6666.0		110 ± 5.2	132 ± 8.7		152 ± 9.2
10000.0	109 ± 2.0	119 ± 6.9	121 ± 12.5	182 ± 4.7	120 ± 21.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³		879 ± 49.5	574 ± 10.7		
Positive Control ⁴	408 ± 17.6				
Positive Control ⁵				494 ± 21.1	480 ± 17.0

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Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	142 ± 3.8	151 ± 9.8	170 ± 11.1	149 ± 2.0
100.0	151 ± 5.5	151 ± 4.6	171 ± 6.4	146 ± 2.3
333.0	160 ± 3.9	148 ± 10.5	164 ± 8.4	144 ± 21.0
1000.0	162 ± 6.4	147 ± 5.4	133 ± 10.7	165 ± 6.4
3333.0	138 ± 7.0	149 ± 3.6	139 ± 2.3	143 ± 8.5
6666.0	150 ± 7.1	169 ± 11.7		136 ± 11.3
10000.0			110 ± 12.2	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	1030 ± 29.2	680 ± 18.2		630 ± 22.4
Positive Control ³			457 ± 16.5	
Positive Control ⁴				
Positive Control ⁵				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 4.4	17 ± 0.7	12 ± 4.4
100.0	16 ± 1.5	15 ± 3.3	11 ± 2.3
333.0	14 ± 1.7	14 ± 3.3	9 ± 1.5
1000.0	18 ± 4.4	13 ± 1.2	7 ± 2.0
3333.0	13 ± 1.3	13 ± 0.6	9 ± 4.2
10000.0	17 ± 0.6	13 ± 1.7	11 ± 2.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	455 ± 23.6		
Positive Control ⁵			443 ± 32.7
Positive Control ⁶		97 ± 3.3	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	152 ± 6.4	185 ± 1.8	181 ± 9.9	187 ± 11.1	213 ± 2.3
100.0	146 ± 6.5	208 ± 7.3	219 ± 9.4	195 ± 8.6	229 ± 4.3
166.0					
333.0	156 ± 10.2	211 ± 8.2	248 ± 5.5	226 ± 11.3	276 ± 6.6
666.0					
1000.0	152 ± 2.8	221 ± 8.7	237 ± 13.2	251 ± 29.6	265 ± 6.9
1666.0					
3333.0	164 ± 11.2	208 ± 5.9	211 ± 12.5	239 ± 10.3	245 ± 5.5
10000.0	136 ± 18.3	200 ± 3.5	206 ± 3.2	175 ± 6.4	61 ± 60.7 ^x
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³		333 ± 24.0	357 ± 6.9		
Positive Control ⁵				363 ± 17.8	378 ± 25.7
Positive Control ⁷	627 ± 12.7				

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 3.5	179 ± 4.7	206 ± 7.9	156 ± 4.5	181 ± 3.6
100.0	188 ± 12.5	191 ± 4.8	200 ± 1.7	198 ± 4.1	207 ± 3.8
166.0	219 ± 8.8				
333.0	273 ± 5.7	199 ± 0.7	232 ± 9.1	218 ± 5.9	218 ± 16.6
666.0	294 ± 16.1				
1000.0	317 ± 16.3	193 ± 4.7	243 ± 12.8	244 ± 9.9	234 ± 1.5
1666.0	254 ± 18.3				
3333.0		204 ± 8.5	267 ± 2.8	245 ± 11.9	209 ± 3.8
10000.0		180 ± 3.8	139 ± 69.7	225 ± 12.3	165 ± 3.3
Trial Summary	Positive	Negative	Equivocal	Weakly Positive	Equivocal
Positive Control ²		571 ± 4.1			422 ± 18.8
Positive Control ³			478 ± 26.8	355 ± 6.7	
Positive Control ⁵	419 ± 14.0				
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 17.3
100.0	167 ± 17.6
166.0	
333.0	213 ± 10.5
666.0	
1000.0	244 ± 20.0
1666.0	
3333.0	257 ± 4.0
10000.0	187 ± 6.9
Trial Summary	Weakly Positive
Positive Control ²	
Positive Control ³	467 ± 4.6
Positive Control ⁵	
Positive Control ⁷	

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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	14 ± 2.0	45 ± 4.6	52 ± 0.3	26 ± 2.7	35 ± 1.2
100.0	14 ± 0.6			19 ± 4.2	
333.0	18 ± 2.8	44 ± 2.0	49 ± 2.7	24 ± 4.3	40 ± 5.3
1000.0	19 ± 1.5	44 ± 4.3	47 ± 2.8	37 ± 2.1	46 ± 2.7
3333.0	17 ± 0.9	21 ± 4.3	31 ± 3.2	53 ± 7.8	43 ± 2.4
6666.0		23 ± 1.7	21 ± 1.7		26 ± 7.0
10000.0	10 ± 1.2	27 ± 0.6	22 ± 2.4	49 ± 4.7	21 ± 4.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³		873 ± 36.4	527 ± 40.0	259 ± 7.2	191 ± 9.3
Positive Control ⁸	520 ± 29.2				

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Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	42 ± 3.2	33 ± 3.1	19 ± 3.4	32 ± 6.6
100.0	39 ± 6.6	42 ± 7.6	22 ± 3.8	27 ± 3.0
333.0	46 ± 7.2	42 ± 1.9	28 ± 4.7	37 ± 3.2
1000.0	49 ± 4.4	56 ± 7.8	36 ± 1.5	49 ± 2.6
3333.0	26 ± 3.5	27 ± 1.5	56 ± 6.6	35 ± 4.7
6666.0	20 ± 3.0	24 ± 2.0		19 ± 0.3
10000.0			34 ± 2.5	
Trial Summary	Negative	Equivocal	Positive	Negative
Positive Control ²	896 ± 7.1	589 ± 13.1		536 ± 22.4
Positive Control ³			441 ± 27.8	
Positive Control ⁸				

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Strain: TA104

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	326 ± 12.9	315 ± 6.7	496 ± 23.4	516 ± 20.0	478 ± 15.3
10.0				607 ± 23.1	
33.0				637 ± 17.6	
100.0	363 ± 5.8	351 ± 8.0	582 ± 26.0	639 ± 7.4	547 ± 9.4
166.0	370 ± 14.5	427 ± 33.9	626 ± 25.7		608 ± 14.1
333.0	403 ± 7.1	447 ± 22.9	663 ± 15.5	656 ± 16.4	694 ± 28.0
666.0	442 ± 17.3	426 ± 22.8	598 ± 21.0	632 ± 19.1	609 ± 30.8
1000.0	426 ± 5.6	365 ± 16.7	559 ± 7.0	542 ± 22.6	566 ± 19.9
1666.0	412 ± 16.0	474 ± 40.9	658 ± 8.6		669 ± 20.5
3333.0			615 ± 37.4		689 ± 10.4
10000.0			539 ± 19.9		520 ± 0.0
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Equivocal	Equivocal
Positive Control ⁵					1353 ± 39.4
Positive Control ⁹	808 ± 34.2				
Positive Control ⁶		929 ± 14.4	1010 ± 5.4	963 ± 29.2	

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	492 ± 28.5
10.0	548 ± 12.7
33.0	621 ± 21.7
100.0	631 ± 20.3
166.0	
333.0	637 ± 19.1
666.0	643 ± 8.5
1000.0	694 ± 3.2
1666.0	
3333.0	
10000.0	
Trial Summary	Weakly Positive
Positive Control ⁵	1252 ± 9.3
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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 2.5 ug/Plate Sterigmatocystin

x: Slight Toxicity and Precipitate

**** END OF REPORT ****