

Experiment Number: A66475

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: D & C red no. 28

CAS Number: 18472-87-2

Date Report Requested: 09/17/2018

Time Report Requested: 13:45:48

NTP Study Number:

A66475

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 ¹	165 ± 15.0	178 ± 16.2	168 ± 3.2	159 ± 19.9	189 ± 16.2
33.0	169 ± 9.2	189 ± 10.7	178 ± 12.8	169 ± 9.0	198 ± 9.0
100.0	163 ± 3.2	169 ± 3.5	186 ± 11.7	141 ± 2.9	173 ± 11.9
333.0	164 ± 2.6	202 ± 35.4	153 ± 17.3	171 ± 12.3	151 ± 15.3
1000.0	109 ± 7.7	125 ± 9.5	112 ± 9.0 ^s	171 ± 12.7	140 ± 4.8 ^s
3333.0	84 ± 4.7 ^s	92 ± 2.0 ^s	81 ± 11.5 ^s	95 ± 3.0 ^s	21 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					944 ± 63.8
Positive Control ³	642 ± 12.6	680 ± 15.9			
Positive Control ⁴			671 ± 9.3		
Positive Control ⁵					
Positive Control ⁶				620 ± 12.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 10.3
33.0	169 ± 10.5
100.0	169 ± 9.0
333.0	183 ± 16.3
1000.0	167 ± 13.8
3333.0	98 ± 4.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	897 ± 85.3
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	13 ± 2.0	16 ± 1.2	14 ± 1.5	14 ± 3.8	14 ± 2.5
33.0	15 ± 1.5	19 ± 2.0	12 ± 1.7	14 ± 2.9	11 ± 2.3
100.0	16 ± 1.7	15 ± 1.8	13 ± 3.7	13 ± 0.3	15 ± 1.5
333.0	12 ± 1.8	18 ± 1.5	13 ± 2.0	16 ± 1.8	10 ± 1.5
1000.0	14 ± 1.5	12 ± 1.5	11 ± 1.2 ^s	15 ± 3.2	7 ± 1.7 ^s
3333.0	9 ± 1.3 ^s	11 ± 0.6 ^s	7 ± 1.2 ^s	12 ± 1.5 ^s	5 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 4.6
Positive Control ³	195 ± 16.7	167 ± 21.8			
Positive Control ⁵					
Positive Control ⁶			142 ± 9.7	206 ± 13.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.4
33.0	13 ± 1.2
100.0	10 ± 2.0
333.0	13 ± 0.9
1000.0	16 ± 3.2
3333.0	19 ± 4.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	87 ± 10.0
Positive Control ⁶	

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Date Report Requested: 09/17/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.2	7 ± 0.7	8 ± 0.6
33.0	4 ± 0.7	5 ± 0.9	9 ± 0.6
100.0	6 ± 1.3	4 ± 0.9	9 ± 1.3
200.0			8 ± 0.6
333.0	4 ± 1.2	7 ± 1.2	8 ± 0.9
1000.0	3 ± 0.9 ^s	5 ± 1.7	8 ± 0.3 ^s
3333.0	4 ± 0.3 ^s	3 ± 0.6 ^s	
Trial Summary	Negative	Negative	Negative
Positive Control ⁶		110 ± 12.9	376 ± 12.5
Positive Control ⁷	94 ± 3.2		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	121 ± 13.5	138 ± 9.4	143 ± 8.8	118 ± 7.5	175 ± 22.2
10.0				146 ± 12.3	
33.0	205 ± 16.2	162 ± 9.8	158 ± 15.1	169 ± 4.9	169 ± 12.2
100.0	230 ± 14.2	181 ± 6.4	200 ± 11.7	197 ± 10.1	183 ± 16.6
200.0				190 ± 9.9	
333.0	219 ± 18.2	163 ± 16.6	162 ± 2.6	195 ± 19.0	181 ± 9.9
1000.0	134 ± 5.3	124 ± 9.3	146 ± 6.9		86 ± 2.2 ^s
3333.0	23 ± 1.5 ^s	107 ± 11.1 ^s	122 ± 16.0 ^s		20 ± 3.2 ^s
Trial Summary	Weakly Positive	Equivocal	Equivocal	Weakly Positive	Negative
Positive Control ⁴					
Positive Control ⁶					839 ± 37.3
Positive Control ⁸	342 ± 21.2	731 ± 113.4	623 ± 9.8	524 ± 29.9	

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Date Report Requested: 09/17/2018

Time Report Requested: 13:45:48

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	142 ± 15.8	201 ± 15.9	172 ± 10.2	127 ± 2.0	167 ± 12.0
10.0				159 ± 16.2	
33.0	201 ± 28.4	241 ± 16.8	202 ± 9.5	162 ± 9.5	209 ± 2.7
100.0	205 ± 7.1	151 ± 18.5	221 ± 15.5	161 ± 7.1	196 ± 8.2
200.0				170 ± 13.1	
333.0	259 ± 19.2	195 ± 24.1	178 ± 6.4	146 ± 10.1	201 ± 28.0
1000.0	180 ± 9.0	166 ± 13.2	135 ± 9.6 ^s		192 ± 10.6
3333.0	94 ± 5.8 ^s	60 ± 5.1 ^s	0 ± 0.0 ^s		91 ± 9.5 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Negative
Positive Control ⁴			971 ± 66.1	1298 ± 83.8	
Positive Control ⁶	611 ± 93.4	689 ± 7.1			848 ± 24.7
Positive Control ⁸					

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Test Compound: D & C red no. 28

CAS Number: 18472-87-2

Date Report Requested: 09/17/2018

Time Report Requested: 13:45:48

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 ± 3.3	18 ± 2.0	19 ± 1.3	20 ± 2.5	31 ± 1.0
33.0	14 ± 3.0	17 ± 2.3	19 ± 2.2	15 ± 1.3	31 ± 3.9
100.0	13 ± 1.8	21 ± 0.3	25 ± 2.6	20 ± 2.2	24 ± 2.4
333.0	15 ± 3.1	20 ± 3.1	20 ± 3.5	11 ± 0.6	15 ± 2.0
1000.0	11 ± 0.9	11 ± 1.5	9 ± 2.8 ^s	13 ± 1.5	10 ± 3.1 ^s
3333.0	8 ± 1.3 ^s	9 ± 0.0 ^s	10 ± 1.7 ^s	6 ± 0.9 ^s	8 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			217 ± 36.4		818 ± 91.5
Positive Control ⁵				189 ± 17.8	
Positive Control ⁹	71 ± 2.6	113 ± 8.5			

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CAS Number: 18472-87-2

Date Report Requested: 09/17/2018
Time Report Requested: 13:45:48

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.9
33.0	20 ± 1.5
100.0	15 ± 3.0
333.0	22 ± 5.4
1000.0	14 ± 1.8
3333.0	8 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	1093 ± 66.4
Positive Control ⁹	

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Date Report Requested: 09/17/2018

Time Report Requested: 13:45:48

Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	301 ± 14.7	251 ± 13.4	337 ± 17.6	390 ± 4.6	364 ± 4.7
33.0	358 ± 22.5	341 ± 10.7	489 ± 15.0	455 ± 19.3	419 ± 12.6
100.0	435 ± 17.9	369 ± 11.8	464 ± 2.6	476 ± 11.7	484 ± 25.9
333.0	444 ± 11.0	440 ± 5.5	521 ± 11.6	498 ± 4.0	501 ± 9.2
500.0		361 ± 15.8		490 ± 7.6	
1000.0	404 ± 8.7	314 ± 7.3	466 ± 24.6	509 ± 33.6	461 ± 25.4
3333.0	272 ± 12.0 ^s		376 ± 6.1 ^s		361 ± 12.1 ^s
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ¹⁰			1150 ± 34.0	1066 ± 14.5	1414 ± 52.6
Positive Control ¹¹	1186 ± 23.4	850 ± 64.0			

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CAS Number: 18472-87-2

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	311 ± 6.8	203 ± 6.5	280 ± 12.0	206 ± 6.4	325 ± 9.7
33.0	481 ± 3.9	256 ± 7.4	360 ± 29.2	197 ± 3.0	321 ± 15.3
100.0	485 ± 20.3	321 ± 4.3	399 ± 14.5	269 ± 9.9	371 ± 24.2
333.0	423 ± 7.6	361 ± 14.3	539 ± 34.1	409 ± 19.4	446 ± 10.5
500.0		355 ± 5.2		442 ± 14.0	
1000.0	343 ± 8.8	250 ± 3.0 ^s	381 ± 10.4	439 ± 23.9	466 ± 33.0
3333.0	333 ± 9.8 ^s		337 ± 9.8 ^s		391 ± 3.7 ^s
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Positive	Negative
Positive Control ¹²			1355 ± 77.1	668 ± 29.1	1339 ± 131.5
Positive Control ¹³	970 ± 20.3	756 ± 13.0			

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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: 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 ****