

Experiment Number: 118409

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Digitonin

CAS Number: 11024-24-1

Date Report Requested: 09/12/2018

Time Report Requested: 01:27:15

NTP Study Number:

118409

Study Result:

Equivocal

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Date Report Requested: 09/12/2018
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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	126 ± 11.9	121 ± 8.8	124 ± 12.0	173 ± 5.9	111 ± 9.7
100.0	142 ± 3.5			156 ± 14.5	
333.0	145 ± 3.4	113 ± 6.4	118 ± 11.4	169 ± 12.8	105 ± 9.1
1000.0	136 ± 9.0	120 ± 4.3	115 ± 1.5	171 ± 2.0	112 ± 2.3
3333.0	132 ± 13.7	102 ± 11.4	104 ± 3.2	151 ± 7.8	122 ± 4.8
6666.0		75 ± 1.8	107 ± 2.2		109 ± 2.0
10000.0	46 ± 2.8	11 ± 3.2	96 ± 14.0	129 ± 14.6	104 ± 13.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					738 ± 58.6
Positive Control ³			479 ± 26.3		
Positive Control ⁴	317 ± 9.3	363 ± 17.3			
Positive Control ⁵				627 ± 22.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	137 ± 4.5
100.0	140 ± 11.3
333.0	133 ± 4.2
1000.0	158 ± 8.0
3333.0	144 ± 6.1
6666.0	
10000.0	133 ± 14.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	645 ± 37.1
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1538

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	29 ± 4.1	26 ± 2.6	25 ± 2.0
333.0	36 ± 1.9	30 ± 3.1	20 ± 0.3
1000.0	50 ± 5.7	38 ± 5.0	25 ± 3.8
3333.0	47 ± 4.0	46 ± 1.8	31 ± 1.7
6666.0	10 ± 1.9 ^s	32 ± 1.9	42 ± 4.8
10000.0	9 ± 1.2 ^s	18 ± 3.5	26 ± 1.0
Trial Summary	Equivocal	Equivocal	Negative
Positive Control ²		485 ± 17.2	
Positive Control ³	833 ± 88.1		360 ± 20.2

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	157 ± 10.1	224 ± 5.5	159 ± 4.1
100.0	166 ± 11.0	211 ± 5.8	186 ± 10.3
333.0	173 ± 7.2	215 ± 1.8	179 ± 1.5
1000.0	197 ± 11.0	226 ± 1.5	216 ± 5.2
3333.0	154 ± 22.8	222 ± 2.9	196 ± 16.8
10000.0	Toxic	120 ± 10.0	91 ± 13.4
Trial Summary	Equivocal	Negative	Equivocal
Positive Control ³			511 ± 4.1
Positive Control ⁵		463 ± 15.1	
Positive Control ⁶	424 ± 2.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	16 ± 0.3	13 ± 1.0	20 ± 1.9	38 ± 4.6	27 ± 1.7
100.0	25 ± 0.3			30 ± 1.8	
333.0	26 ± 3.3	13 ± 0.3	26 ± 3.5	23 ± 1.2	41 ± 6.6
1000.0	25 ± 1.3	21 ± 1.5	24 ± 2.7	29 ± 3.9	46 ± 9.2
3333.0	23 ± 1.3	16 ± 2.6	33 ± 1.5	28 ± 1.9	70 ± 2.2
6666.0		19 ± 4.9	33 ± 4.6		49 ± 2.9
10000.0	23 ± 4.2	15 ± 2.0	30 ± 5.2	31 ± 6.5	35 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²					
Positive Control ⁷					414 ± 45.6
Positive Control ³			286 ± 10.7	192 ± 3.2	
Positive Control ⁸	474 ± 22.1	521 ± 13.1			

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Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	48 ± 3.2	32 ± 5.2	40 ± 1.9	29 ± 2.2	20 ± 1.9
100.0					
333.0	42 ± 5.8	30 ± 3.5	35 ± 3.2	34 ± 4.4	21 ± 3.5
1000.0	50 ± 0.7	49 ± 8.5	41 ± 4.9	36 ± 7.5	21 ± 1.5
3333.0	55 ± 3.8	39 ± 6.1	63 ± 4.8	49 ± 4.4	36 ± 2.7
6666.0	43 ± 0.3	41 ± 4.4	58 ± 4.1	49 ± 0.7	41 ± 2.3
10000.0	35 ± 7.1	27 ± 0.9	43 ± 5.2	42 ± 8.4	39 ± 0.3
Trial Summary	Negative	Negative	Negative	Equivocal	Weakly Positive
Positive Control ²	1114 ± 90.9	939 ± 37.4	246 ± 27.0	545 ± 10.3	614 ± 29.2
Positive Control ⁷					
Positive Control ³					
Positive Control ⁸					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	34 ± 1.8	36 ± 3.0	29 ± 4.6	32 ± 0.6
100.0	36 ± 0.3			
333.0	43 ± 1.0	33 ± 2.1	40 ± 5.3	29 ± 2.2
1000.0	38 ± 1.5	46 ± 2.0	45 ± 7.7	28 ± 0.3
3333.0	53 ± 4.7	41 ± 3.9	49 ± 7.4	39 ± 6.7
6666.0		61 ± 7.7	41 ± 2.5	40 ± 4.7
10000.0	59 ± 2.0	65 ± 6.8	44 ± 8.3	34 ± 3.5
Trial Summary	Equivocal	Equivocal	Equivocal	Negative
Positive Control ²				
Positive Control ⁷				
Positive Control ³	489 ± 16.0	224 ± 14.7	304 ± 5.3	328 ± 4.3
Positive Control ⁸				

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	265 ± 13.2	177 ± 4.8	272 ± 30.3	289 ± 30.4	173 ± 9.1
33.0			221 ± 25.4	233 ± 22.2	
100.0	192 ± 4.4		195 ± 6.0	229 ± 12.7	
333.0	186 ± 9.1	173 ± 11.0	201 ± 1.2	187 ± 17.4	196 ± 13.3
1000.0	224 ± 5.8	160 ± 5.8	168 ± 9.9	196 ± 24.2	140 ± 1.7
3333.0	188 ± 6.1	132 ± 2.2	184 ± 15.9	203 ± 6.0	133 ± 10.2
6666.0		93 ± 3.8			121 ± 10.4
10000.0	179 ± 10.5	62 ± 9.4			90 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	805 ± 21.1	737 ± 7.8			
Positive Control ¹⁰					
Positive Control ¹¹			953 ± 17.9	958 ± 5.5	939 ± 10.5

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Strain: TA102

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	237 ± 4.4	251 ± 11.3	196 ± 14.2	214 ± 10.1	250 ± 9.3
33.0		248 ± 13.8			
100.0	247 ± 8.2	209 ± 1.5			255 ± 13.0
333.0	281 ± 10.7	199 ± 13.8	206 ± 3.5	230 ± 11.6	288 ± 16.2
1000.0	292 ± 7.6	178 ± 17.0	176 ± 3.8	217 ± 9.4	267 ± 16.0
3333.0	281 ± 17.1	197 ± 12.7	153 ± 7.2	164 ± 1.2	229 ± 14.0
6666.0			107 ± 5.2	173 ± 23.9	
10000.0	246 ± 4.2		102 ± 4.5	139 ± 3.7	176 ± 15.0
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁹					
Positive Control ¹⁰			332 ± 29.4		
Positive Control ¹¹	1462 ± 47.5	912 ± 2.8		534 ± 59.0	450 ± 20.4

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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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 0.5 ug/Plate 4-Nitro-O-Phenylenediamine

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

9: 0.5 ug/Plate Mitomycin-C

10: 0.5 ug/Plate Sterigmatocystin

11: 10.0 ug/Plate Sterigmatocystin

s: Slight Toxicity

** END OF REPORT **