

Experiment Number: 079776

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethyldichlorosilane

CAS Number: 1719-53-5

Date Report Requested: 09/11/2018

Time Report Requested: 01:06:57

NTP Study Number:

079776

Study Result:

Negative

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Test Compound: Diethyldichlorosilane
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Date Report Requested: 09/11/2018

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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	142 ± 9.6	91 ± 5.3	131 ± 10.7	174 ± 9.7	119 ± 7.0
3.3		104 ± 10.3			
10.0	137 ± 1.0	99 ± 2.7	127 ± 5.5	168 ± 6.6	127 ± 11.5
33.0	135 ± 4.7	100 ± 10.2	132 ± 3.9	166 ± 4.5	103 ± 2.3
100.0	138 ± 10.8	94 ± 4.6	118 ± 7.7	186 ± 8.3	139 ± 4.3
333.0	93 ± 1.8 ^s	63 ± 11.3 ^p	144 ± 8.2	176 ± 3.5	139 ± 2.3 ^p
1000.0	14 ± 11.5 ^s		85 ± 20.2 ^p	173 ± 3.3 ^p	115 ± 12.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					365 ± 20.4
Positive Control ³	330 ± 10.2	391 ± 30.8			
Positive Control ⁴			504 ± 56.7		
Positive Control ⁵					
Positive Control ⁶				869 ± 114.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	144 ± 0.9
3.3	
10.0	136 ± 8.2
33.0	151 ± 3.2
100.0	145 ± 4.1
333.0	155 ± 11.3 ^p
1000.0	168 ± 9.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	691 ± 2.8
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	9 ± 0.9	13 ± 2.3	12 ± 3.1	10 ± 1.2	12 ± 1.5
3.3		11 ± 1.5	8 ± 2.0		
10.0		7 ± 0.6	14 ± 2.3	10 ± 1.2	
33.0	12 ± 0.9	6 ± 0.6	13 ± 1.7	9 ± 2.5	13 ± 2.5
100.0	6 ± 0.7	9 ± 3.3	10 ± 1.5	15 ± 3.0	16 ± 2.3
333.0	5 ± 1.0 ^s	9 ± 3.0	6 ± 1.5 ^p	15 ± 1.5	13 ± 1.7
1000.0	Toxic			9 ± 3.7 ^p	13 ± 0.9 ^p
3333.0	Toxic				3 ± 0.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	182 ± 3.8	181 ± 5.7	194 ± 15.5		
Positive Control ⁵					
Positive Control ⁶				144 ± 7.0	79 ± 2.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.5	20 ± 0.6
3.3		
10.0	12 ± 1.5	
33.0	15 ± 0.9	23 ± 1.2
100.0	13 ± 3.2	14 ± 2.0
333.0	13 ± 3.0 ^p	13 ± 1.9
1000.0	2 ± 2.3 ^p	18 ± 1.5 ^p
3333.0		Toxic
Trial Summary	Negative	Negative
Positive Control ²	44 ± 3.2	
Positive Control ³		
Positive Control ⁵		65 ± 1.5
Positive Control ⁶		

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Test Compound: Diethyldichlorosilane

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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	191 ± 9.8	138 ± 3.7	162 ± 7.1	193 ± 8.7	174 ± 6.6
3.3	197 ± 9.8	142 ± 2.0			
10.0	167 ± 5.5	120 ± 1.0	186 ± 5.2	235 ± 15.2	169 ± 10.8
33.0	164 ± 6.1	139 ± 4.7	181 ± 3.8	200 ± 3.4	177 ± 11.4
100.0	188 ± 10.4	138 ± 4.0	186 ± 6.7	201 ± 6.1	168 ± 4.1
333.0	108 ± 18.9 ^s	67 ± 8.6 ^p	159 ± 6.1 ^p	201 ± 7.3	174 ± 8.4 ^p
1000.0			120 ± 31.5 ^p	202 ± 10.2 ^p	164 ± 12.0 ^p
3333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1245 ± 26.3
Positive Control ⁶			1411 ± 88.8	601 ± 15.4	
Positive Control ⁷	621 ± 6.9	342 ± 22.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	214 ± 8.1
3.3	
10.0	230 ± 10.9
33.0	213 ± 6.7
100.0	200 ± 8.9
333.0	203 ± 3.5 ^p
1000.0	143 ± 21.4 ^s
3333.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1509 ± 54.4
Positive Control ⁷	

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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	23 ± 0.0	21 ± 4.3	21 ± 2.0	23 ± 1.8	27 ± 0.7
3.3		22 ± 4.4			
10.0	18 ± 3.2	19 ± 3.8	33 ± 1.3	29 ± 1.9	25 ± 0.3
33.0	21 ± 2.1	25 ± 1.0	26 ± 5.3	24 ± 0.6	22 ± 1.9
100.0	18 ± 2.2	22 ± 0.9	25 ± 2.6	21 ± 2.1	25 ± 2.5
333.0	18 ± 1.2	20 ± 4.8 ^p	25 ± 2.1 ^p	19 ± 2.1	26 ± 2.0 ^p
1000.0	3 ± 1.2 ^s		22 ± 1.2 ^p	22 ± 4.6 ^p	23 ± 4.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			123 ± 12.5		248 ± 26.5
Positive Control ⁵				243 ± 8.7	
Positive Control ⁸	360 ± 23.9	310 ± 11.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.2
3.3	
10.0	26 ± 3.2
33.0	21 ± 2.6
100.0	20 ± 3.1
333.0	20 ± 1.5
1000.0	18 ± 2.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	625 ± 12.5
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: Acetone

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: 24.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

s: Slight Toxicity

** END OF REPORT **