

Experiment Number: 609542

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Vinylcyclohexene

CAS Number: 100-40-3

Date Report Requested: 09/15/2018

Time Report Requested: 01:23:33

NTP Study Number:

609542

Study Result:

Negative

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Test Compound: 4-Vinylcyclohexene

CAS Number: 100-40-3

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	108 ± 3.4	143 ± 12.0	142 ± 8.7	126 ± 11.7	140 ± 5.5
1.0				128 ± 7.8	
3.0			141 ± 15.9	125 ± 7.2	
10.0		142 ± 16.9	117 ± 9.9	119 ± 5.5	
33.0		139 ± 3.8	146 ± 6.3	131 ± 4.7	108 ± 4.0
100.0	86 ± 6.2	93 ± 12.8	90 ± 3.0	109 ± 4.2	127 ± 5.9
166.0			81 ± 5.8		
333.0	84 ± 4.0	68 ± 9.0 ^s			99 ± 6.5
666.0		16 ± 16.3 ^s			
1000.0	19 ± 11.9 ^s				84 ± 4.5 ^s
1666.0					105 ± 4.1 ^s
3333.0	31 ± 21.5 ^s				
10000.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					443 ± 13.2
Positive Control ⁴	430 ± 15.3	364 ± 13.9			
Positive Control ⁵					
Positive Control ⁶				526 ± 28.6	
Positive Control ⁷			998 ± 77.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	153 ± 11.1	100 ± 8.2	157 ± 11.6	162 ± 7.9	123 ± 21.7
1.0					
3.0	172 ± 6.5			159 ± 8.7	
10.0	148 ± 7.5			164 ± 10.6	
33.0	144 ± 9.8		143 ± 10.4	163 ± 1.8	
100.0	143 ± 6.4	138 ± 5.2	129 ± 1.5	154 ± 8.7	139 ± 1.7
166.0					
333.0	125 ± 6.2	137 ± 1.2	135 ± 5.4	156 ± 13.3	130 ± 9.8
666.0					
1000.0		110 ± 13.1	94 ± 17.9 ^s		117 ± 12.4
1666.0			92 ± 2.9 ^s		
3333.0		115 ± 8.0 ^s			93 ± 5.5 ^s
10000.0		53 ± 26.5 ^s			41 ± 40.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1037 ± 59.6	743 ± 60.9	
Positive Control ³	389 ± 24.2				1187 ± 61.5
Positive Control ⁴					
Positive Control ⁵		1116 ± 12.3			
Positive Control ⁶					
Positive Control ⁷					

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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	17 ± 3.4	18 ± 0.3	14 ± 0.6	14 ± 1.5	15 ± 1.5
3.0	15 ± 0.3	19 ± 3.0			
10.0	17 ± 4.6	20 ± 0.7			
33.0	8 ± 3.0	23 ± 1.5	19 ± 1.7	17 ± 0.0	17 ± 2.7
100.0	16 ± 0.7	18 ± 1.5	17 ± 1.0	13 ± 1.9	15 ± 1.8
166.0		17 ± 2.3			
333.0	6 ± 1.5 ^s		13 ± 2.1	12 ± 2.0	10 ± 0.0
1000.0			10 ± 1.3	12 ± 0.0	10 ± 1.0 ^s
1666.0			10 ± 3.1 ^s	10 ± 1.8	11 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					156 ± 19.9
Positive Control ⁴	408 ± 14.7				
Positive Control ⁵			75 ± 6.8		
Positive Control ⁸				106 ± 10.0	
Positive Control ⁷		1030 ± 39.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 3.4	12 ± 1.3
3.0	10 ± 2.0	
10.0	8 ± 0.9	
33.0	9 ± 1.5	11 ± 1.8
100.0	9 ± 0.7	12 ± 1.5
166.0		
333.0	5 ± 1.5 ^s	13 ± 2.0
1000.0		13 ± 2.2
1666.0		8 ± 0.9
Trial Summary	Negative	Negative
Positive Control ³	217 ± 12.5	
Positive Control ⁴		
Positive Control ⁵		527 ± 12.5
Positive Control ⁸		
Positive Control ⁷		

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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	156 ± 5.2	157 ± 9.9	205 ± 5.4	206 ± 8.3	202 ± 6.7
3.0	153 ± 3.1	149 ± 5.4			
10.0	149 ± 10.9	164 ± 12.2			
33.0	165 ± 11.2	143 ± 5.1	208 ± 2.8	209 ± 0.7	209 ± 6.2
100.0	148 ± 8.6	135 ± 2.6	192 ± 14.6	222 ± 4.6	197 ± 5.0
166.0		139 ± 6.3			
333.0	86 ± 9.7 ^s		191 ± 14.9	217 ± 5.0	170 ± 14.8
1000.0			151 ± 1.2	174 ± 11.5	94 ± 5.5 ^s
1666.0			144 ± 7.1	143 ± 9.3 ^s	130 ± 21.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					541 ± 11.6
Positive Control ³			358 ± 31.6		
Positive Control ⁵				406 ± 9.3	
Positive Control ⁹	824 ± 25.0	559 ± 15.7			

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Test Compound: 4-Vinylcyclohexene

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	181 ± 12.5	193 ± 7.0
3.0	177 ± 6.4	
10.0	187 ± 12.5	
33.0	172 ± 3.0	189 ± 2.9
100.0	167 ± 4.4	160 ± 0.9
166.0		
333.0	184 ± 5.6	118 ± 5.7
1000.0		97 ± 8.5
1666.0		91 ± 1.9 ^s
Trial Summary	Negative	Negative
Positive Control ²	537 ± 40.3	
Positive Control ³		502 ± 3.5
Positive Control ⁵		
Positive Control ⁹		

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Test Compound: 4-Vinylcyclohexene

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 2.2	24 ± 6.2	32 ± 4.6	35 ± 3.5	26 ± 2.7
1.0			28 ± 1.8		
3.0		22 ± 2.2	29 ± 5.5	35 ± 5.2	
10.0	15 ± 4.2	19 ± 1.7	26 ± 1.2	34 ± 7.3	
33.0	16 ± 0.7	23 ± 3.6	23 ± 2.7	30 ± 2.4	
100.0	10 ± 2.8	21 ± 2.3	29 ± 1.7	40 ± 2.2	20 ± 2.2
166.0		18 ± 1.9			
333.0	13 ± 0.6 ^s			44 ± 2.9	24 ± 4.8
666.0	0 ± 0.0 ^s				
1000.0					20 ± 2.3
1666.0					
3333.0					15 ± 0.6 ^s
10000.0					16 ± 3.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				297 ± 8.3	154 ± 11.0
Positive Control ¹⁰	479 ± 32.3	511 ± 14.3	449 ± 29.9		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	34 ± 1.2	32 ± 4.5	25 ± 3.2
1.0			
3.0		34 ± 4.6	
10.0		31 ± 2.0	
33.0	38 ± 3.4	32 ± 3.7	
100.0	24 ± 3.0	30 ± 1.2	29 ± 3.9
166.0			
333.0	18 ± 5.0	17 ± 2.9 ^s	24 ± 2.5
666.0			
1000.0	0 ± 0.0 ^s		25 ± 2.3
1666.0	0 ± 0.0 ^s		
3333.0			17 ± 4.4 ^s
10000.0			13 ± 3.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	874 ± 55.9	651 ± 11.5	
Positive Control ³			353 ± 22.9
Positive Control ¹⁰			

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	322 ± 9.6	281 ± 3.5	345 ± 25.2	340 ± 10.4	405 ± 28.9
1.0	355 ± 29.0	284 ± 4.6			
3.0	337 ± 6.2	288 ± 11.3		381 ± 5.4	
10.0	331 ± 6.1	278 ± 3.9		387 ± 19.9	
33.0	268 ± 10.4	269 ± 11.7	344 ± 25.8	328 ± 2.6	465 ± 19.5
100.0	230 ± 24.0	232 ± 1.2	323 ± 15.4	338 ± 15.6	451 ± 6.0
333.0			345 ± 5.2	337 ± 3.7	385 ± 19.9
1000.0			94 ± 5.7 ^s		303 ± 5.0
1666.0			90 ± 14.8 ^s		238 ± 11.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵					
Positive Control ⁸			1015 ± 107.2	1257 ± 46.0	1136 ± 42.0
Positive Control ¹¹		454 ± 2.0			
Positive Control ¹²	488 ± 19.5				

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Strain: TA104

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	378 ± 9.9	344 ± 13.2	420 ± 25.8	390 ± 20.2
1.0				
3.0		347 ± 23.7	458 ± 15.8	
10.0		367 ± 36.6	440 ± 15.3	
33.0	381 ± 12.5	367 ± 22.9	453 ± 5.9	434 ± 5.5
100.0	356 ± 6.2	409 ± 13.6	428 ± 8.3	440 ± 22.0
333.0	230 ± 11.1	368 ± 6.8	157 ± 15.0 ^s	392 ± 8.3
1000.0	8 ± 3.4 ^s			308 ± 18.9
1666.0	11 ± 5.9 ^s			208 ± 11.9 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵	1620 ± 30.7	1621 ± 31.5	1980 ± 15.3	1267 ± 32.5
Positive Control ⁸				
Positive Control ¹¹				
Positive Control ¹²				

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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: 2.5 ug/Plate Sodium Azide

7: 5.0 ug/Plate Sodium Azide

8: 5.0 ug/Plate 2-Aminoanthracene

9: 50.0 ug/Plate 9-Aminoacridine

10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

11: 75.0 ug/Plate 2-Aminoanthracene

12: 100.0 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****