

Experiment Number: 397636

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Dimethylvinyl chloride (DMVC)**

CAS Number: 513-37-1

Date Report Requested: **09/14/2018**

Time Report Requested: **16:11:14**

NTP Study Number:

397636

Study Result:

Positive

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Test Compound: Dimethylvinyl chloride (DMVC)

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹		106 ± 9.3	133 ± 22.9	134 ± 17.6	
Vehicle Control ²	100 ± 12.8				157 ± 5.0
Vehicle Control ¹					
0.05		113 ± 2.1			
0.05					
0.1		96 ± 10.1	136 ± 10.7	147 ± 6.6	
0.1					
0.5		103 ± 5.5	222 ± 15.6	215 ± 3.9	
0.5					
0.75			268 ± 14.0	268 ± 24.6	
1.0		127 ± 6.8	288 ± 13.2	333 ± 3.8	
1.0					
1.5			235 ± 97.6	257 ± 24.7	
2.0					
2.0		Toxic			
5.0					
33.0					178 ± 0.6
100.0	144 ± 10.4				173 ± 5.6
333.0	154 ± 4.1				161 ± 8.5
1000.0	135 ± 3.7				170 ± 7.8
3333.0	138 ± 29.9				148 ± 7.5
6666.0	95 ± 30.6 ^s				
10000.0					
Trial Summary	Equivocal	Negative	Positive	Positive	Negative
Positive Control ³			207 ± 16.8	237 ± 15.6	
Positive Control ⁴		698 ± 26.3			
Positive Control ⁵					
Positive Control ⁶	447 ± 13.6				
Positive Control ⁷					614 ± 6.6
Positive Control ⁸					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	108 ± 7.2	152 ± 10.7	127 ± 1.8	122 ± 11.3	
Vehicle Control ²					176 ± 6.5
Vehicle Control ¹					
0.05	122 ± 5.2				
0.05					
0.1	116 ± 4.8	162 ± 8.3	125 ± 5.8	141 ± 23.5	
0.1					
0.5	125 ± 8.5	211 ± 20.9	248 ± 24.4	233 ± 1.8	
0.5					
0.75		201 ± 13.7	251 ± 22.4	192 ± 7.4	
1.0	160 ± 1.2	238 ± 17.5	278 ± 30.5	267 ± 29.3	
1.0					
1.5		276 ± 40.7	108 ± 54.2	207 ± 4.0	
2.0					
2.0	262 ± 39.0				
5.0					
33.0					
100.0					176 ± 0.6
333.0					179 ± 2.4
1000.0					164 ± 1.8
3333.0					153 ± 11.0
6666.0					
10000.0					134 ± 6.2
Trial Summary	Positive	Weakly Positive	Positive	Positive	Negative
Positive Control ³			281 ± 15.1	218 ± 9.8	
Positive Control ⁴					
Positive Control ⁵					638 ± 54.0
Positive Control ⁶					
Positive Control ⁷					
Positive Control ⁸	481 ± 17.8	471 ± 24.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹		148 ± 12.1
Vehicle Control ²		
Vehicle Control ¹	130 ± 0.6	
0.05		
0.05	124 ± 6.9	
0.1		160 ± 12.2
0.1	129 ± 3.8	
0.5		250 ± 15.1
0.5	160 ± 13.3	
0.75		263 ± 24.4
1.0		322 ± 4.7
1.0	220 ± 13.5	
1.5		270 ± 61.0
2.0	200 ± 24.5	
2.0		
5.0		
33.0		
100.0		
333.0		
1000.0		
3333.0		
6666.0		
10000.0		
Trial Summary	Weakly Positive	Positive
Positive Control ³		248 ± 8.1
Positive Control ⁴		
Positive Control ⁵	591 ± 25.5	
Positive Control ⁶		
Positive Control ⁷		
Positive Control ⁸		

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Test Compound: Dimethylvinyl chloride (DMVC)

CAS Number: 513-37-1

Date Report Requested: 09/14/2018

Time Report Requested: 16:11:14

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹		23 ± 3.8		24 ± 4.1	
Vehicle Control ²	16 ± 1.8		34 ± 9.9		25 ± 3.5
0.05		30 ± 2.1		31 ± 7.5	
0.1		28 ± 0.5		34 ± 2.3	
0.5		25 ± 2.9		13 ± 2.2	
1.0		22 ± 1.8		17 ± 2.2	
2.0		2 ± 1.7 ^s		1 ± 1.3 ^s	
5.0					
33.0			43 ± 6.6		
100.0	17 ± 0.9		22 ± 3.0		21 ± 1.8
333.0	15 ± 1.5		21 ± 2.5		24 ± 2.6
1000.0	14 ± 1.2		22 ± 3.6		19 ± 0.6
3333.0	15 ± 1.5		21 ± 2.8		23 ± 1.0
6666.0	13 ± 1.5				
10000.0					22 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁵					303 ± 22.0
Positive Control ⁹		453 ± 11.6			
Positive Control ⁸				186 ± 2.1	
Positive Control ⁷			118 ± 3.5		
Positive Control ¹⁰	461 ± 22.1				

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Test Compound: Dimethylvinyl chloride (DMVC)

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 0.3
Vehicle Control ²	
0.05	28 ± 1.8
0.1	13 ± 1.9
0.5	18 ± 1.5
1.0	22 ± 1.8
2.0	11 ± 0.7
5.0	
33.0	
100.0	
333.0	
1000.0	
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ³	489 ± 40.3
Positive Control ⁵	
Positive Control ⁹	
Positive Control ⁸	
Positive Control ⁷	
Positive Control ¹⁰	

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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: 4-Nitro-o-Phenylenediamine

2: Vehicle Control: Dimethyl Sulfoxide

3: 1.0 mL/Chamber 2-Aminoanthracene

4: 1.0 mL/Chamber Sodium Azide

5: 1.0 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate Sodium Azide

7: 2.5 ug/Plate 2-Aminoanthracene

8: 2.5 mL/Chamber 2-Aminoanthracene

9: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

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

s: Slight Toxicity

**** END OF REPORT ****