

Experiment Number: 327442

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

G06: Ames Summary Data

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

CAS Number: 513-37-1

Date Report Requested: **09/12/2018**

Time Report Requested: **16:05:36**

NTP Study Number:

327442

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 2.6	150 ± 10.3	99 ± 5.8	189 ± 3.0	99 ± 2.8
33.0		133 ± 2.3			
100.0	82 ± 11.3	121 ± 9.4	111 ± 1.2	192 ± 13.6	91 ± 5.7
333.0	67 ± 6.9	115 ± 11.3	94 ± 9.7	180 ± 8.3	92 ± 6.8
1000.0	160 ± 48.1	142 ± 4.5	111 ± 7.8	195 ± 3.5	103 ± 4.2
3333.0	112 ± 1.0	187 ± 5.5	94 ± 7.0	180 ± 2.0	98 ± 3.6
10000.0	0 ± 0.0		90 ± 3.1	190 ± 1.2	92 ± 12.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1305 ± 169.3	1208 ± 107.3	2422 ± 80.5
Positive Control ³	1375 ± 143.1	744 ± 29.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	183 ± 2.8
33.0	
100.0	186 ± 0.7
333.0	152 ± 12.9
1000.0	155 ± 12.0
3333.0	156 ± 7.8
10000.0	172 ± 4.0
Trial Summary	Negative
Positive Control ²	1890 ± 23.2
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.2	11 ± 2.1	5 ± 0.9	12 ± 2.0	3 ± 0.6
100.0	3 ± 1.2	12 ± 1.0	4 ± 0.7	13 ± 1.2	6 ± 1.9
333.0	7 ± 2.3	12 ± 3.0	4 ± 0.9	9 ± 2.3	4 ± 1.2
1000.0	5 ± 1.2	20 ± 1.2	5 ± 1.3	11 ± 3.1	7 ± 0.7
3333.0	4 ± 1.2	21 ± 2.9	7 ± 1.3	11 ± 0.9	6 ± 2.6
10000.0	4 ± 1.2	5 ± 4.7	8 ± 0.9	13 ± 2.8	5 ± 0.6
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²			35 ± 6.1	120 ± 16.3	75 ± 10.0
Positive Control ³	86 ± 13.6	631 ± 51.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.9
100.0	13 ± 3.2
333.0	11 ± 0.3
1000.0	15 ± 1.2
3333.0	14 ± 1.2
10000.0	15 ± 1.0
Trial Summary	Negative
Positive Control ²	210 ± 19.0
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dimethylvinyl chloride (DMVC)

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.3	7 ± 0.9	6 ± 1.3	15 ± 0.3	6 ± 0.3
100.0	4 ± 1.2	6 ± 1.8	5 ± 1.5	12 ± 1.8	5 ± 1.5
333.0	5 ± 1.2	9 ± 1.2	5 ± 0.3	10 ± 0.3	4 ± 1.3
1000.0	5 ± 2.4	11 ± 0.9	6 ± 1.8	7 ± 1.8	4 ± 0.6
3333.0	4 ± 1.0	10 ± 0.3	3 ± 1.0	8 ± 1.3	5 ± 0.3
10000.0	3 ± 0.9	9 ± 1.9	2 ± 0.6	10 ± 1.5	5 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			49 ± 9.0	66 ± 13.8	92 ± 8.2
Positive Control ⁴	137 ± 39.3	52 ± 4.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.5
100.0	8 ± 2.2
333.0	9 ± 3.2
1000.0	11 ± 3.2
3333.0	8 ± 1.2
10000.0	14 ± 0.9
Trial Summary	Negative
Positive Control ²	164 ± 24.9
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.0	19 ± 0.3	18 ± 1.0	29 ± 2.1	13 ± 2.5
100.0	10 ± 1.5	16 ± 0.3	24 ± 1.9	26 ± 1.2	17 ± 1.8
333.0	9 ± 2.2	17 ± 1.2	19 ± 1.9	23 ± 1.5	15 ± 0.3
1000.0	15 ± 2.3	14 ± 0.6	19 ± 0.3	27 ± 1.5	19 ± 2.3
3333.0	14 ± 1.5	21 ± 2.5	16 ± 2.6	29 ± 2.9	7 ± 2.0
10000.0	Toxic	19 ± 5.2	Toxic	29 ± 2.7	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			698 ± 162.5	397 ± 11.7	1785 ± 81.1
Positive Control ⁵	221 ± 15.6	149 ± 16.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 0.7
100.0	21 ± 4.4
333.0	28 ± 2.6
1000.0	22 ± 4.4
3333.0	26 ± 2.3
10000.0	20 ± 3.6
Trial Summary	Negative
Positive Control ²	1227 ± 24.5
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****