

Experiment Number: 413864

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methylene chloride

CAS Number: 75-09-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:29:18

NTP Study Number:

413864

Study Result:

Negative

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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	137 ± 4.4	167 ± 10.2	126 ± 6.9	134 ± 10.4	179 ± 7.9
100.0	134 ± 3.2	188 ± 1.2	129 ± 14.3	118 ± 16.1	190 ± 1.3
333.0	139 ± 4.0	190 ± 4.5	145 ± 5.7	132 ± 13.3	179 ± 2.6
1000.0	101 ± 1.5	193 ± 3.1	131 ± 9.0	105 ± 12.4	186 ± 7.1
3333.0	118 ± 10.7	188 ± 4.3	105 ± 2.3	116 ± 5.3	169 ± 5.0
6666.0		175 ± 10.8			159 ± 3.6
10000.0	93 ± 8.4		108 ± 10.1	92 ± 4.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1180 ± 35.5
Positive Control ³			594 ± 44.0		
Positive Control ⁴	360 ± 14.7	470 ± 11.0			
Positive Control ⁵				404 ± 32.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 8.2
100.0	125 ± 5.5
333.0	132 ± 6.8
1000.0	123 ± 3.8
3333.0	113 ± 4.4
6666.0	
10000.0	95 ± 7.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	579 ± 21.7
Positive Control ⁴	
Positive Control ⁵	

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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	21 ± 1.2	28 ± 2.8	8 ± 0.0	11 ± 1.2	13 ± 1.5
100.0	18 ± 3.8	31 ± 2.0	12 ± 1.5	11 ± 1.5	8 ± 1.3
333.0	19 ± 2.9	25 ± 2.6	15 ± 2.3	9 ± 0.3	13 ± 0.6
1000.0	16 ± 1.8	28 ± 4.4	10 ± 2.6	10 ± 0.7	9 ± 3.4
3333.0	13 ± 2.4	25 ± 0.0	12 ± 1.2	12 ± 0.9	10 ± 0.9
10000.0	11 ± 1.2	20 ± 4.9	8 ± 2.3	9 ± 1.2	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					219 ± 9.0
Positive Control ⁴	331 ± 16.4	354 ± 19.0			
Positive Control ⁵			118 ± 8.0		
Positive Control ⁶				143 ± 4.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.9
100.0	8 ± 1.9
333.0	10 ± 2.8
1000.0	13 ± 1.5
3333.0	10 ± 0.7
10000.0	8 ± 0.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	431 ± 35.8
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: Methylene chloride

CAS Number: 75-09-2

Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.9	13 ± 0.3	10 ± 1.5
100.0	12 ± 2.5	11 ± 2.7	9 ± 1.5
333.0	11 ± 2.0	13 ± 2.8	9 ± 0.3
1000.0	9 ± 1.0	14 ± 0.7	13 ± 0.9
3333.0	10 ± 2.7	8 ± 0.9	8 ± 2.3
10000.0	10 ± 1.9	9 ± 0.6	12 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			80 ± 11.6
Positive Control ⁵		48 ± 8.0	
Positive Control ⁷	653 ± 32.8		

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Test Compound: Methylene chloride

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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	168 ± 2.9	196 ± 10.1	199 ± 15.8	198 ± 11.0	182 ± 4.8
100.0	169 ± 4.6	205 ± 3.4	187 ± 2.6	215 ± 4.2	197 ± 4.5
333.0	169 ± 4.1	213 ± 1.5	178 ± 9.9	211 ± 6.9	214 ± 3.2
1000.0	169 ± 7.5	216 ± 2.4	227 ± 2.9	203 ± 4.0	212 ± 3.5
3333.0	161 ± 6.4	211 ± 5.2	196 ± 5.0	170 ± 9.8	192 ± 2.5
10000.0	149 ± 1.9	189 ± 9.2	165 ± 25.2	159 ± 8.2	176 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					694 ± 55.9
Positive Control ³			519 ± 25.6		
Positive Control ⁵				473 ± 27.8	
Positive Control ⁷	818 ± 40.9	661 ± 35.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	170 ± 17.0
100.0	194 ± 8.6
333.0	207 ± 2.6
1000.0	187 ± 9.7
3333.0	184 ± 9.6
10000.0	179 ± 7.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	530 ± 23.0
Positive Control ⁵	
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	17 ± 1.2	21 ± 1.5	31 ± 2.2	36 ± 5.0	27 ± 3.3
100.0	18 ± 2.2	20 ± 2.6	32 ± 6.4	40 ± 1.5	31 ± 3.9
333.0	15 ± 3.8	17 ± 2.1	32 ± 2.9	28 ± 0.7	31 ± 3.0
1000.0	15 ± 4.2	18 ± 3.1	29 ± 0.9	35 ± 4.2	35 ± 3.8
3333.0	14 ± 0.3	19 ± 1.5	32 ± 3.8	31 ± 4.2	32 ± 2.0
6666.0		18 ± 0.9	32 ± 3.2		32 ± 2.7
10000.0	14 ± 2.1			17 ± 2.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1029 ± 45.5
Positive Control ³			385 ± 8.4	170 ± 11.3	
Positive Control ⁸	558 ± 20.6	609 ± 23.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 0.6
100.0	20 ± 1.8
333.0	27 ± 2.2
1000.0	33 ± 2.6
3333.0	22 ± 1.5
6666.0	
10000.0	16 ± 2.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	454 ± 62.7
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: 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: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **