Experiment Number: **070295**

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

G06: Ames Summary Data

Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:58:31**

NTP Study Number: 070295

Study Result: Positive

Experiment Number: **070295**

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

G06: Ames Summary Data

Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:58:31**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control[1]		82 ± 3.4	97 ± 7.4	133 ± 9.8	115 ± 4.0
Vehicle Control[2]	109 ± 3.8				
0.01				124 ± 4.8	
0.05				178 ± 3.5	111 ± 1.2
0.1			244 ± 6.6	227 ± 10.9	187 ± 6.1
0.25			338 ± 33.1	268 ± 34.4	155 ± 27.4
0.5		313 ± 42.3	926 ± 11.7		384 ± 39.3
1.0		513 ± 31.2	1078 ± 91.6		321 ± 46.3
2.5		0 ± 0.0[s]			
5.0		0 ± 0.0[s]			
100.0	113 ± 9.3				
333.0	104 ± 3.5				
1000.0	103 ± 12.3				
3333.0	109 ± 14.5				
10000.0	100 ± 10.0[s]				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[3]					
Positive Control[4]	422 ± 14.1				
Positive Control[5]					
Positive Control[6]		497 ± 15.9	525 ± 14.2	527 ± 7.3	
Positive Control[7]					
Positive Control[8]					
Positive Control[9]					682 ± 18.2

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control[1]		91 ± 4.4	132 ± 22.3	162 ± 1.2	147 ± 7.1
Vehicle Control[2]	134 ± 4.7				
0.01				124 ± 5.6	
0.05				178 ± 4.7	148 ± 8.4
0.1			238 ± 10.4	228 ± 10.4	269 ± 15.8
0.25			453 ± 58.4	284 ± 19.1	233 ± 18.1
0.5		343 ± 22.5	990 ± 10.4		495 ± 18.3
1.0		498 ± 25.6	1316 ± 52.5		341 ± 39.0
2.5		293 ± 58.3			
5.0		25 ± 7.0[s]			
100.0	141 ± 6.8				
333.0	117 ± 12.7				
1000.0	114 ± 5.9				
3333.0	120 ± 4.4				
10000.0	129 ± 12.1				
Trial Summary	Negative	Positive	Positive	Weakly Positive	Positive
Positive Control[3]					
Positive Control[4]					
Positive Control[5]					
Positive Control[6]					
Positive Control[7]		443 ± 12.2	478 ± 16.6	384 ± 17.5	505 ± 6.1
Positive Control[8]	490 ± 16.5				
Positive Control[9]					

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Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]		80 ± 12.4	140 ± 13.2	165 ± 6.3	119 ± 11.0
Vehicle Control[2]	127 ± 7.5				
0.01				147 ± 5.0	
0.05				205 ± 5.0	178 ± 23.0
0.1			316 ± 12.2	282 ± 27.1	291 ± 12.7
0.25			490 ± 67.0	337 ± 32.4	325 ± 9.5
0.5		497 ± 11.0	989 ± 2.9		668 ± 57.7
1.0		783 ± 42.0	1256 ± 40.5		571 ± 71.0
2.5		530 ± 12.9			
5.0		90 ± 18.2[s]			
100.0	128 ± 3.2				
333.0	121 ± 6.1				
1000.0	129 ± 11.0				
3333.0	139 ± 2.3				
10000.0	138 ± 12.5				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[3]		665 ± 34.0	548 ± 7.7	702 ± 9.1	630 ± 56.0
Positive Control[4]					
Positive Control[5]	590 ± 15.9				
Positive Control[6]					
Positive Control[7]					
Positive Control[8]					
Positive Control[9]					

Experiment Number: **070295**

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

G06: Ames Summary Data

Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:58:31**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control[1]		7 ± 1.5	21 ± 0.9	18 ± 1.5	17 ± 0.3
Vehicle Control[2]	19 ± 1.2				
Vehicle Control[1]					
0.01				18 ± 2.2	
0.05				24 ± 1.5	19 ± 2.2
0.05					
0.1			32 ± 1.5	25 ± 3.0	40 ± 4.2
0.1					
0.25			34 ± 1.9	21 ± 3.0	20 ± 3.3
0.25					
0.5		26 ± 1.8	81 ± 9.5		43 ± 3.3
0.5					
1.0					
1.0		38 ± 3.0	107 ± 18.8		27 ± 4.2
2.5		13 ± 5.2			
5.0		0 ± 0.0[s]			
100.0	15 ± 0.9				
333.0	15 ± 2.4				
1000.0	20 ± 2.2				
3333.0	18 ± 2.0				
10000.0	15 ± 2.6[s]				
Trial Summary	Negative	Positive	Positive	Negative	Equivocal
Positive Control[3]					
Positive Control[5]					
Positive Control[10]	667 ± 85.0				
Positive Control[11]		850 ± 26.2	597 ± 43.4	595 ± 12.5	
Positive Control[12]					638 ± 50.7

Experiment Number: **070295**

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

G06: Ames Summary Data

Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

Date Report Requested: **09/10/2018**

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control[1]		17 ± 1.2	26 ± 3.3	25 ± 4.2	
Vehicle Control[2]	26 ± 3.9				
Vehicle Control[1]					30 ± 3.7
0.01				29 ± 1.2	
0.05				24 ± 1.2	
0.05					35 ± 1.8
0.1			29 ± 1.2	29 ± 2.4	
0.1					56 ± 4.8
0.25			51 ± 3.4	34 ± 2.1	
0.25					49 ± 5.5
0.5		43 ± 7.2	115 ± 4.2		
0.5					69 ± 4.8
1.0					27 ± 5.1
1.0		41 ± 2.8	104 ± 19.8		
2.5		8 ± 2.0			
5.0		0 ± 0.0[s]			
100.0	26 ± 2.3				
333.0	24 ± 2.6				
1000.0	21 ± 1.2				
3333.0	25 ± 2.6				
10000.0	23 ± 2.7				
Trial Summary	Negative	Positive	Positive	Negative	Positive
Positive Control[3]		189 ± 9.9	107 ± 10.5	190 ± 5.0	
Positive Control[5]	87 ± 12.4				93 ± 8.1
Positive Control[10]					
Positive Control[11]					
Positive Control[12]					

Experiment Number: **070295**

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

G06: Ames Summary Data

Test Compound: **Methylene chloride**

CAS Number: **75-09-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:58:31**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]		12 ± 3.2	19 ± 1.5	32 ± 0.3	28 ± 0.0
Vehicle Control[2]	25 ± 3.2				
Vehicle Control[1]					
0.01				33 ± 2.0	
0.05				40 ± 1.2	32 ± 6.1
0.05					
0.1			36 ± 2.7	53 ± 1.5	45 ± 0.7
0.1					
0.25			69 ± 6.9	40 ± 6.8	46 ± 0.3
0.25					
0.5		59 ± 3.8	166 ± 12.6		75 ± 3.7
0.5					
1.0					
1.0		71 ± 11.1	177 ± 31.2		54 ± 5.1
2.5		17 ± 3.5			
5.0		0 ± 0.0[s]			
100.0	29 ± 0.7				
333.0	25 ± 2.6				
1000.0	25 ± 0.7				
3333.0	28 ± 4.4				
10000.0	24 ± 3.8				
Trial Summary	Negative	Positive	Positive	Equivocal	Positive
Positive Control[3]		388 ± 11.7	276 ± 6.6	316 ± 13.8	263 ± 1.5
Positive Control[5]	274 ± 32.1				
Positive Control[10]					
Positive Control[11]					
Positive Control[12]					

LEGEND

Values given as Mean or Mean ± 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 ug/Plate Sodium Azide
5: 1.0 ug/Plate 2-Aminoanthracene
6: 1.0 mL/Chamber Sodium Azide
7: 2.5 mL/Chamber 2-Aminoanthracene
8: 2.5 ug/Plate 2-Aminoanthracene
9: 5.0 mL/Chamber Sodium Azide
10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
11: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
12: 5.0 mL/Chamber 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **