

Experiment Number: 337557

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

G06: Ames Summary Data

Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

CAS Number: **55566-30-8**

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

Time Report Requested: **22:35:10**

NTP Study Number:

337557

Study Result:

Negative

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G06: Ames Summary Data

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

Time Report Requested: 22:35:10

CAS Number: 55566-30-8

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 7.0	144 ± 14.5	135 ± 11.5	144 ± 3.3	182 ± 10.7
0.3	124 ± 7.0	147 ± 9.5			
1.0	125 ± 4.7	163 ± 8.7			
3.0	123 ± 10.4	143 ± 1.7	118 ± 5.8	129 ± 8.1	203 ± 11.5
10.0	127 ± 6.6	149 ± 5.9	140 ± 11.5	161 ± 7.8	184 ± 3.6
16.0		142 ± 5.9			
33.0	Toxic		123 ± 11.2	143 ± 9.7	157 ± 13.1
100.0			107 ± 11.1	125 ± 0.3	90 ± 22.8
166.0			107 ± 2.5		95 ± 4.9 ^s
333.0				81 ± 20.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1099 ± 86.4
Positive Control ³			1094 ± 11.7		
Positive Control ⁴	329 ± 9.5	473 ± 11.5			
Positive Control ⁵				486 ± 38.8	

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Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**
CAS Number: 55566-30-8

Date Report Requested: 09/12/2018

Time Report Requested: 22:35:10

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 9.9
0.3	
1.0	
3.0	139 ± 9.3
10.0	146 ± 11.6
16.0	
33.0	136 ± 3.5
100.0	113 ± 6.4
166.0	
333.0	62 ± 33.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	693 ± 49.0
Positive Control ⁴	
Positive Control ⁵	

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Date Report Requested: 09/12/2018

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

Time Report Requested: 22:35:10

CAS Number: 55566-30-8

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 ± 4.2	19 ± 2.0	10 ± 1.5	12 ± 1.5	10 ± 3.3
0.3	19 ± 2.2	17 ± 1.2			
1.0	19 ± 1.9	20 ± 0.0			
3.0	16 ± 3.5	17 ± 1.9	9 ± 3.3	14 ± 2.5	7 ± 0.9
10.0	20 ± 2.5	15 ± 0.3	8 ± 2.4	14 ± 2.6	6 ± 3.4
16.0		13 ± 1.2			
33.0	0 ± 0.0 ^s		8 ± 1.5	13 ± 0.6	9 ± 1.9
100.0			8 ± 1.2	10 ± 2.5	5 ± 0.6
166.0			5 ± 1.2		3 ± 0.7 ^s
333.0				2 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					196 ± 6.1
Positive Control ⁴	393 ± 5.7	386 ± 13.5			
Positive Control ⁵			126 ± 6.3		
Positive Control ⁶				166 ± 7.2	

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

G06: Ames Summary Data

Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**
CAS Number: 55566-30-8

Date Report Requested: 09/12/2018

Time Report Requested: 22:35:10

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.9
0.3	
1.0	
3.0	9 ± 1.7
10.0	13 ± 0.9
16.0	
33.0	11 ± 2.3
100.0	11 ± 1.5
166.0	
333.0	4 ± 2.0 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	709 ± 59.7
Positive Control ⁶	

Experiment Number: 337557

G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

Time Report Requested: 22:35:10

CAS Number: 55566-30-8

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	12 ± 3.0	10 ± 2.1	10 ± 1.5
0.3	19 ± 7.8		
1.0	8 ± 3.0		
3.0	11 ± 2.7	11 ± 1.2	8 ± 0.6
10.0	5 ± 2.3	11 ± 1.2	12 ± 2.6
33.0	0 ± 0.0 ^s	8 ± 0.3	10 ± 2.1
100.0		10 ± 1.8	10 ± 0.3
333.0		5 ± 0.7	4 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³			72 ± 8.0
Positive Control ⁵		59 ± 2.1	
Positive Control ⁷	492 ± 10.2		

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

Time Report Requested: 22:35:10

CAS Number: 55566-30-8

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	134 ± 9.9	187 ± 6.6	196 ± 21.9	193 ± 10.2	200 ± 8.4
0.3	147 ± 10.1	210 ± 3.0			
1.0	135 ± 9.4	191 ± 2.3			
3.0	161 ± 2.8	188 ± 11.8	222 ± 4.0	198 ± 9.5	204 ± 5.2
10.0	168 ± 6.7	176 ± 10.9	157 ± 9.3	201 ± 3.2	196 ± 17.5
16.0		0 ± 0.0 ^s			
33.0	0 ± 0.0 ^s		186 ± 10.1	205 ± 2.5	163 ± 4.5
100.0			138 ± 31.8	201 ± 6.4	127 ± 16.5
166.0			76 ± 27.8 ^s		17 ± 4.4 ^s
333.0				121 ± 41.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					708 ± 9.5
Positive Control ³			437 ± 21.4		
Positive Control ⁵				472 ± 39.7	
Positive Control ⁷	627 ± 41.8	492 ± 35.9			

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

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Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**
CAS Number: 55566-30-8

Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 16.8
0.3	
1.0	
3.0	216 ± 12.1
10.0	207 ± 4.7
16.0	
33.0	204 ± 4.9
100.0	136 ± 4.9
166.0	
333.0	102 ± 53.8 ^s
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	513 ± 14.9
Positive Control ⁵	
Positive Control ⁷	

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Tetrakis(hydroxymethyl)phosphonium sulfate**

Time Report Requested: 22:35:10

CAS Number: 55566-30-8

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.8	22 ± 2.3	26 ± 3.5	40 ± 2.1	30 ± 4.4
0.3	15 ± 1.5	18 ± 1.5			
1.0	21 ± 4.0	17 ± 2.3			
3.0	14 ± 0.3	13 ± 0.7	21 ± 3.0	36 ± 2.2	41 ± 0.6
10.0	14 ± 3.7	13 ± 0.7	29 ± 1.5	38 ± 2.9	27 ± 1.5
16.0		19 ± 2.6			
33.0	9 ± 4.8 ^s		25 ± 3.5	35 ± 4.4	32 ± 2.7
100.0			18 ± 0.9	28 ± 5.6	22 ± 2.0
166.0			17 ± 1.8		11 ± 5.6
333.0				21 ± 2.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					760 ± 47.1
Positive Control ³			425 ± 15.6	161 ± 7.2	
Positive Control ⁸	517 ± 24.0	519 ± 30.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 0.6
0.3	
1.0	
3.0	30 ± 1.5
10.0	22 ± 2.4
16.0	
33.0	28 ± 1.3
100.0	22 ± 3.2
166.0	
333.0	17 ± 1.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	500 ± 28.4
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 ****