

Experiment Number: 566782

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

**G06: Ames Summary Data**

Test Compound: **Tetramethyllead**

CAS Number: **75-74-1**

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

Time Report Requested: **04:17:35**

**NTP Study Number:**

566782

**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 <sup>1</sup>	160 ± 4.1	121 ± 15.4	166 ± 6.4	151 ± 11.6	147 ± 8.4
1.0	146 ± 6.7				
3.0	143 ± 4.3	138 ± 12.2			
10.0	144 ± 10.1	110 ± 10.7	159 ± 7.0	142 ± 3.2	135 ± 13.1
33.0	140 ± 5.8	114 ± 5.5	154 ± 4.5	124 ± 10.4	151 ± 6.1
100.0	140 ± 4.5	128 ± 1.7	163 ± 4.9	123 ± 4.5	151 ± 7.7
333.0		123 ± 13.0	138 ± 15.9	135 ± 16.4	139 ± 7.8
1000.0			149 ± 4.9	Toxic	141 ± 7.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			986 ± 15.6	601 ± 37.7	2207 ± 108.8
Positive Control <sup>3</sup>	396 ± 9.0	410 ± 27.1			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	150 ± 6.6
1.0	
3.0	
10.0	162 ± 4.2
33.0	159 ± 10.7
100.0	138 ± 10.9
333.0	111 ± 8.1
1000.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	1401 ± 53.4
Positive Control <sup>3</sup>	

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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 <sup>1</sup>	19 ± 2.7	24 ± 4.2	26 ± 0.3	24 ± 4.3	33 ± 3.8
1.0	18 ± 0.6				
3.0	20 ± 1.5	19 ± 0.9			
10.0	17 ± 2.1	22 ± 4.1	25 ± 4.7	22 ± 3.4	23 ± 4.7
33.0	23 ± 3.9	16 ± 0.6	30 ± 1.3	23 ± 3.0	24 ± 7.0
100.0	21 ± 1.5	18 ± 4.5	29 ± 0.6	23 ± 4.2	23 ± 2.4
333.0		Toxic	25 ± 0.0	17 ± 1.5	27 ± 3.2
1000.0			17 ± 1.2 <sup>s</sup>	15 ± 1.0 <sup>s</sup>	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	320 ± 28.5	406 ± 4.0			
Positive Control <sup>4</sup>			186 ± 0.6	163 ± 12.2	548 ± 20.4

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	24 ± 5.0
1.0	
3.0	
10.0	29 ± 2.6
33.0	29 ± 4.3
100.0	25 ± 3.2
333.0	14 ± 3.6 <sup>s</sup>
1000.0	4 ± 4.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	309 ± 8.7

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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 <sup>1</sup>	8 ± 2.9	4 ± 1.5	8 ± 0.3	5 ± 1.2	5 ± 0.9
1.0	8 ± 4.3				
3.0	7 ± 0.0	8 ± 0.6			
10.0	9 ± 2.6	4 ± 0.9	6 ± 0.6	6 ± 0.9	18 ± 1.8
33.0	5 ± 2.3	5 ± 0.9	4 ± 0.7	8 ± 0.6	9 ± 1.9
100.0	5 ± 1.5	5 ± 1.8	8 ± 2.0	8 ± 0.9	7 ± 0.6
333.0		1 ± 1.0 <sup>s</sup>	11 ± 1.0	5 ± 0.7	7 ± 0.9
1000.0			7 ± 0.9	3 ± 2.0 <sup>s</sup>	10 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			277 ± 46.3	193 ± 11.6	493 ± 20.1
Positive Control <sup>5</sup>	212 ± 5.5	172 ± 18.5			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.9
1.0	
3.0	
10.0	6 ± 0.9
33.0	6 ± 1.5
100.0	7 ± 0.7
333.0	5 ± 1.2
1000.0	3 ± 2.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	506 ± 3.4
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	23 ± 2.9	18 ± 1.2	34 ± 4.7	32 ± 0.6	44 ± 7.3
1.0	22 ± 2.2				
3.0	26 ± 4.5	21 ± 2.1			
10.0	24 ± 4.2	19 ± 1.0	45 ± 1.9	33 ± 1.5	31 ± 1.5
33.0	21 ± 3.3	20 ± 4.2	39 ± 6.2	35 ± 4.3	35 ± 2.6
100.0	29 ± 2.1	20 ± 2.6	39 ± 6.3	30 ± 7.5	27 ± 3.8
333.0		7 ± 4.4 <sup>s</sup>	29 ± 1.8	34 ± 5.5	37 ± 4.1
1000.0			39 ± 5.9	11 ± 10.7 <sup>s</sup>	32 ± 6.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			510 ± 36.9	380 ± 16.6	1850 ± 215.9
Positive Control <sup>6</sup>	752 ± 46.8	728 ± 67.6			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 2.3
1.0	
3.0	
10.0	37 ± 2.8
33.0	28 ± 1.0
100.0	26 ± 1.2
333.0	30 ± 3.6
1000.0	3 ± 1.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1276 ± 33.1
Positive Control <sup>6</sup>	

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### **LEGEND**

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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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***