

Experiment Number: **A87030**

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

**G06: Ames Summary Data**

Test Compound: **Lead sulfide**

CAS Number: **1314-87-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **04:41:03**

**NTP Study Number:**

A87030

**Study Result:**

Negative

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CAS Number: 1314-87-0

Date Report Requested: 09/18/2018  
Time Report Requested: 04:41:03

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	83 ± 2.3	110 ± 1.5	110 ± 1.2	96 ± 6.4	112 ± 6.6
100.0	89 ± 5.8	106 ± 9.4	105 ± 3.3	112 ± 7.1	119 ± 9.2
333.0	86 ± 4.4	99 ± 3.8	100 ± 11.0	99 ± 7.5	106 ± 3.6
1000.0	81 ± 2.8	100 ± 5.5	104 ± 2.8	100 ± 8.1	128 ± 9.1
3333.0	88 ± 6.4	100 ± 0.7	108 ± 9.5	114 ± 5.5	132 ± 10.3
10000.0	84 ± 6.9	105 ± 1.5	119 ± 10.2 <sup>p</sup>	101 ± 3.8 <sup>p</sup>	128 ± 12.1 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					354 ± 11.1
Positive Control <sup>3</sup>			328 ± 12.4		
Positive Control <sup>4</sup>	829 ± 11.4	752 ± 15.3			
Positive Control <sup>5</sup>				492 ± 35.4	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	92 ± 3.2
100.0	103 ± 12.5
333.0	84 ± 2.8
1000.0	103 ± 5.1
3333.0	88 ± 10.5
10000.0	109 ± 2.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	612 ± 11.8
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	6 ± 0.9	14 ± 1.2	14 ± 2.1	12 ± 1.7	16 ± 0.9
100.0	10 ± 2.2	19 ± 2.6	14 ± 1.5	12 ± 3.2	21 ± 2.9
333.0	5 ± 0.9	17 ± 1.2	16 ± 0.3	12 ± 2.0	12 ± 2.0
1000.0	7 ± 0.0	15 ± 1.0	17 ± 2.8	11 ± 2.3	16 ± 1.0
3333.0	9 ± 0.3	17 ± 0.3	17 ± 0.9	10 ± 0.6	16 ± 1.8
10000.0	6 ± 0.6	15 ± 2.1	17 ± 1.0 <sup>p</sup>	13 ± 3.1 <sup>p</sup>	16 ± 0.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					188 ± 14.8
Positive Control <sup>4</sup>	651 ± 20.4	613 ± 9.2			
Positive Control <sup>5</sup>			135 ± 10.1		
Positive Control <sup>6</sup>				119 ± 3.4	

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G06: Ames Summary Data  
Test Compound: Lead sulfide  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.2
100.0	11 ± 1.8
333.0	9 ± 2.2
1000.0	15 ± 1.5
3333.0	10 ± 0.7
10000.0	7 ± 0.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	263 ± 18.0
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	103 ± 5.5	138 ± 0.9	168 ± 10.4	156 ± 9.0	166 ± 12.0
100.0	101 ± 5.7	134 ± 3.3	158 ± 3.8	163 ± 6.1	159 ± 7.0
333.0	114 ± 1.7	139 ± 0.7	163 ± 6.1	166 ± 8.7	152 ± 1.9
1000.0	110 ± 8.7	142 ± 6.5	149 ± 4.9	141 ± 5.5	174 ± 5.7
3333.0	102 ± 6.9	122 ± 15.0	149 ± 10.5	166 ± 6.5	151 ± 3.3
10000.0	91 ± 4.1	129 ± 17.1	152 ± 6.5 <sup>p</sup>	136 ± 7.9 <sup>p</sup>	145 ± 11.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					332 ± 21.0
Positive Control <sup>3</sup>			318 ± 21.3		
Positive Control <sup>5</sup>				323 ± 20.0	
Positive Control <sup>7</sup>	341 ± 22.0	447 ± 4.4			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	154 ± 8.2
100.0	168 ± 5.0
333.0	171 ± 6.1
1000.0	167 ± 4.9
3333.0	158 ± 1.9
10000.0	158 ± 0.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	439 ± 21.8
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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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 <sup>1</sup>	14 ± 0.6	15 ± 2.6	17 ± 3.5	17 ± 1.3	15 ± 0.7
100.0	14 ± 0.6	18 ± 0.9	23 ± 3.5	14 ± 1.2	14 ± 1.9
333.0	15 ± 1.5	11 ± 1.2	18 ± 1.0	15 ± 1.5	17 ± 1.5
1000.0	13 ± 1.2	15 ± 1.3	14 ± 0.3	18 ± 3.0	14 ± 2.6
3333.0	13 ± 3.2	15 ± 1.5	15 ± 0.3	12 ± 0.3	14 ± 0.6
10000.0	13 ± 4.7	16 ± 1.2	14 ± 1.7 <sup>p</sup>	20 ± 1.5 <sup>p</sup>	16 ± 1.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					142 ± 10.1
Positive Control <sup>3</sup>			196 ± 12.3		
Positive Control <sup>8</sup>	287 ± 25.2	275 ± 11.4			
Positive Control <sup>5</sup>				223 ± 13.1	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.9
100.0	15 ± 0.3
333.0	19 ± 1.7
1000.0	15 ± 0.9
3333.0	20 ± 4.4
10000.0	21 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	265 ± 17.2
Positive Control <sup>8</sup>	
Positive Control <sup>5</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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*