

Experiment Number: 957280

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

G06: Ames Summary Data

Test Compound: **Ammonium ligninsulfonate**

CAS Number: **8061-53-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **17:42:53**

NTP Study Number:

957280

Study Result:

Negative

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Test Compound: Ammonium ligninsulfonate

CAS Number: 8061-53-8

Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	106 ± 0.7	114 ± 5.8	117 ± 5.8	124 ± 5.5	144 ± 7.1
100.0	124 ± 7.5		108 ± 3.8	116 ± 5.0	148 ± 6.0
333.0	115 ± 7.6		114 ± 1.5	112 ± 7.1	147 ± 4.0
666.0		125 ± 11.5			
1000.0	108 ± 1.2	122 ± 6.0	109 ± 5.8	95 ± 12.8	148 ± 4.0
3333.0	101 ± 3.6	122 ± 9.4	111 ± 4.9	101 ± 15.3	147 ± 7.4
6666.0		123 ± 3.5			
10000.0	135 ± 12.7	126 ± 4.3	124 ± 8.6	103 ± 7.7	150 ± 9.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				370 ± 11.0	
Positive Control ⁴					332 ± 9.1
Positive Control ⁵	540 ± 23.9	1247 ± 15.9	924 ± 18.6		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	120 ± 8.0	151 ± 7.4
100.0	103 ± 5.3	147 ± 9.6
333.0	114 ± 8.1	137 ± 6.1
666.0		
1000.0	99 ± 11.4	145 ± 7.3
3333.0	115 ± 0.3	153 ± 7.0
6666.0		
10000.0	120 ± 15.1	145 ± 7.0
Trial Summary	Negative	Negative
Positive Control ²	462 ± 13.8	
Positive Control ³		347 ± 25.0
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	10 ± 0.3	9 ± 1.5	15 ± 3.5	12 ± 0.9	10 ± 1.8
100.0	9 ± 1.7	13 ± 1.2	12 ± 2.9	15 ± 1.5	8 ± 2.0
333.0	8 ± 1.9	8 ± 0.6	11 ± 2.2	13 ± 2.7	8 ± 0.7
1000.0	11 ± 1.8	8 ± 0.7	11 ± 3.1	13 ± 1.5	8 ± 0.9
3333.0	10 ± 0.6	10 ± 1.8	13 ± 0.6	11 ± 1.3	8 ± 1.2
10000.0	10 ± 0.6	8 ± 3.5	11 ± 1.9	11 ± 1.5	9 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					118 ± 5.3
Positive Control ⁴			72 ± 5.2		
Positive Control ⁵	634 ± 40.8	875 ± 11.2			
Positive Control ⁶				193 ± 31.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9
100.0	10 ± 2.0
333.0	13 ± 2.4
1000.0	11 ± 1.5
3333.0	10 ± 1.3
10000.0	12 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	125 ± 9.9
Positive Control ⁵	
Positive Control ⁶	

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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	110 ± 4.3	115 ± 4.4	123 ± 5.3	149 ± 6.8	123 ± 3.3
100.0	114 ± 1.8	133 ± 4.8	130 ± 2.4	154 ± 1.5	131 ± 8.7
333.0	126 ± 9.5	105 ± 5.7	121 ± 15.8	140 ± 1.5	134 ± 5.5
1000.0	118 ± 3.8	133 ± 12.1	126 ± 5.2	150 ± 6.7	121 ± 5.5
3333.0	125 ± 7.1	112 ± 6.2	119 ± 15.7	155 ± 9.0	110 ± 3.8
10000.0	125 ± 8.4	133 ± 1.5	122 ± 6.2	148 ± 3.4	109 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					464 ± 29.5
Positive Control ³			330 ± 3.8		
Positive Control ⁴				548 ± 13.1	
Positive Control ⁷	279 ± 23.6	389 ± 24.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	138 ± 12.8
100.0	152 ± 8.1
333.0	143 ± 8.4
1000.0	155 ± 15.6
3333.0	158 ± 2.3
10000.0	152 ± 14.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	536 ± 35.6
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	21 ± 2.0	24 ± 0.9	22 ± 3.4	17 ± 0.3	29 ± 4.3
100.0	17 ± 2.4		14 ± 1.5	18 ± 5.3	31 ± 1.5
333.0	17 ± 1.2		14 ± 1.3	18 ± 1.9	26 ± 3.6
666.0		23 ± 2.5			
1000.0	17 ± 2.3	27 ± 1.0	16 ± 2.6	14 ± 0.3	24 ± 2.3
3333.0	18 ± 1.7	16 ± 1.5	13 ± 3.5	17 ± 1.8	27 ± 5.5
6666.0		19 ± 1.8			
10000.0	34 ± 2.2	17 ± 0.9	23 ± 2.5	17 ± 1.3	34 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				286 ± 17.6	
Positive Control ⁸	425 ± 11.5	382 ± 6.1	364 ± 6.0		
Positive Control ⁴					351 ± 12.7

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.2	31 ± 6.0
100.0	16 ± 2.3	34 ± 6.8
333.0	17 ± 2.3	31 ± 2.4
666.0		
1000.0	18 ± 1.0	29 ± 1.2
3333.0	17 ± 1.7	29 ± 2.3
6666.0		
10000.0	13 ± 1.3	25 ± 3.0
Trial Summary	Negative	Negative
Positive Control ²	432 ± 19.7	
Positive Control ³		346 ± 13.9
Positive Control ⁸		
Positive Control ⁴		

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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****