

Experiment Number: 837171

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

G06: Ames Summary Data

Test Compound: **Sodium ligninsulfonate**

CAS Number: **8061-51-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **23:36:45**

NTP Study Number:

837171

Study Result:

Negative

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

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Test Compound: Sodium ligninsulfonate

CAS Number: 8061-51-6

Date Report Requested: 09/15/2018

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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 ¹	133 ± 6.6	129 ± 4.5	131 ± 5.2	142 ± 6.9	139 ± 11.4
100.0	114 ± 7.8	131 ± 7.0	131 ± 5.8	133 ± 0.3	136 ± 3.9
333.0	123 ± 3.6	133 ± 6.2	126 ± 3.9	136 ± 2.5	126 ± 10.1
1000.0	140 ± 1.2	129 ± 7.2	139 ± 2.2	118 ± 6.7	122 ± 3.5
3333.0	109 ± 10.5	135 ± 6.8	123 ± 5.5	127 ± 6.6	137 ± 1.5
10000.0	129 ± 12.9	160 ± 2.3	124 ± 3.7	128 ± 3.5	138 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					955 ± 50.3
Positive Control ³			723 ± 16.1	1017 ± 21.6	
Positive Control ⁴	2103 ± 36.7	2065 ± 41.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	129 ± 3.4
100.0	124 ± 8.1
333.0	144 ± 2.5
1000.0	137 ± 7.3
3333.0	140 ± 8.7
10000.0	140 ± 10.5
Trial Summary	Negative
Positive Control ²	1128 ± 24.2
Positive Control ³	
Positive Control ⁴	

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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 ¹	23 ± 3.8	24 ± 2.1	15 ± 2.2	12 ± 1.8	15 ± 3.1
100.0	19 ± 2.6	32 ± 0.9	14 ± 6.2	10 ± 0.9	15 ± 1.5
333.0	16 ± 1.5	27 ± 1.2	14 ± 2.7	9 ± 1.9	13 ± 0.3
1000.0	20 ± 0.6	27 ± 2.6	11 ± 1.5	12 ± 2.0	11 ± 2.4
3333.0	23 ± 3.8	27 ± 1.3	11 ± 4.7	7 ± 1.2	12 ± 0.9
10000.0	20 ± 2.6	20 ± 3.4	9 ± 1.8	12 ± 1.8	16 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 6.5
Positive Control ³			71 ± 4.7	67 ± 10.4	
Positive Control ⁴	1263 ± 47.3	1532 ± 23.2			

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Test Compound: **Sodium ligninsulfonate**

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Date Report Requested: **09/15/2018**

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.7
100.0	7 ± 3.5
333.0	10 ± 1.5
1000.0	11 ± 2.0
3333.0	10 ± 4.3
10000.0	8 ± 0.6
Trial Summary	Negative
Positive Control ²	102 ± 2.2
Positive Control ³	
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Sodium ligninsulfonate

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Date Report Requested: 09/15/2018

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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 ¹	6 ± 2.3	9 ± 0.9	5 ± 0.3	10 ± 1.5	8 ± 1.5
100.0	7 ± 0.9	8 ± 0.6	6 ± 1.9	7 ± 0.6	8 ± 1.2
333.0	6 ± 2.0	7 ± 0.9	7 ± 3.0	8 ± 2.5	8 ± 0.6
1000.0	5 ± 1.0	9 ± 1.7	7 ± 0.3	8 ± 0.7	9 ± 1.0
3333.0	8 ± 1.7	7 ± 0.3	8 ± 2.0	7 ± 0.0	7 ± 2.3
10000.0	5 ± 0.7	9 ± 1.9	7 ± 1.5	7 ± 1.2	8 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					104 ± 11.4
Positive Control ³			63 ± 5.0	64 ± 1.2	
Positive Control ⁵	703 ± 59.2	219 ± 26.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.9
100.0	8 ± 0.9
333.0	7 ± 2.5
1000.0	9 ± 0.7
3333.0	9 ± 2.0
10000.0	6 ± 0.3
Trial Summary	Negative
Positive Control ²	120 ± 10.7
Positive Control ³	
Positive Control ⁵	

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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 ¹	25 ± 1.5	16 ± 0.9	27 ± 3.7	25 ± 4.1	26 ± 4.1
100.0	24 ± 2.3	18 ± 3.1	27 ± 2.3	21 ± 1.2	27 ± 4.4
333.0	21 ± 1.2	20 ± 1.8	22 ± 2.6	28 ± 2.2	24 ± 1.7
1000.0	18 ± 1.7	17 ± 0.3	24 ± 0.9	25 ± 2.1	32 ± 4.5
3333.0	21 ± 4.1	23 ± 1.2	24 ± 1.7	28 ± 2.2	26 ± 1.0
10000.0	21 ± 0.6	27 ± 2.4	28 ± 1.3	25 ± 1.0	27 ± 2.0
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					1199 ± 17.9
Positive Control ³			764 ± 8.5	1122 ± 36.3	
Positive Control ⁶	1926 ± 5.9	1886 ± 34.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.7
100.0	21 ± 1.2
333.0	25 ± 1.7
1000.0	31 ± 3.0
3333.0	23 ± 1.8
10000.0	25 ± 4.7
Trial Summary	Negative
Positive Control ²	1203 ± 20.2
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****