

Supplemental Information for

**Controlling Bacterial Contamination During Fuel Ethanol Fermentation Using
Thermochemically Depolymerized Lignin Bio-Oils**

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Figure S1: Scheme of experimental process and general results.

Figure S2. DHAP/Li⁺ MALDI spectrum of the lignin bio-oil.

Table S1: Percent inhibition of 0.088 mg/ml of acetic acid and 0.0000004 mg/ml of peracetic acid individually and together (AA and PAA) after 24 hrs of growth at 32°C. Where percent inhibition values were calculated against a control with 5% ethanol, and all treated samples also had final 5% ethanol concentration. Negative values indicate a positive increase in growth.

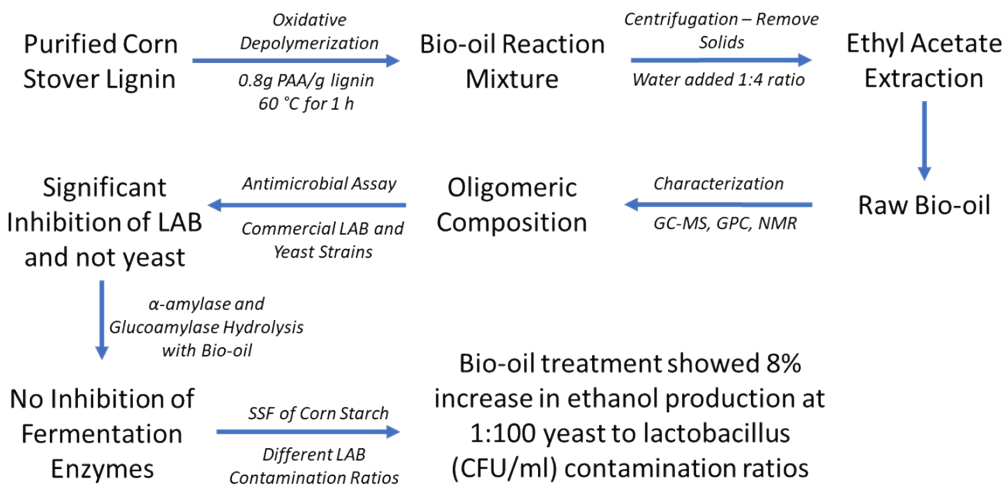
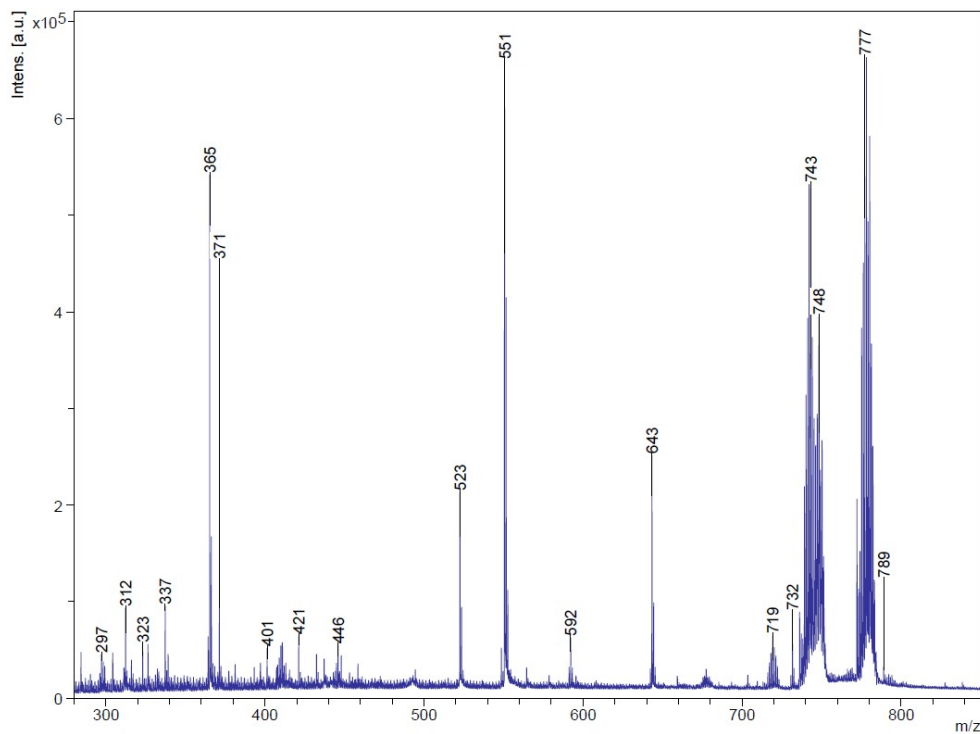


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Supplemental Figure S2: DHAP/Li⁺ MALDI spectrum of the lignin bio-oil

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Sample	Acetic Acid	Peracetic Acid	AA and PAA
<i>S. cerevisiae</i> (Fermpro S ®)	-4.21±3.83	-7.45±5.28	-11.11±1.11
<i>L. Fermentum</i> (0315-1)	-0.41±1.35	0.79±0.77	0.36±0.77