

REMOVAL OF ACID-SOLUBLE LIGNIN FROM HEMICELLULOSES AND EXTRACTS USING AMBERLITE XAD-4 RESIN

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Abstract

This paper describes a method for the removal of acid-soluble lignin from hemicelluloses extracted from a mixture of northern hardwood chips, which was shown to remove 100% of furan derivatives and 90% of lignin. Subsequent fermentation of the resin treated hydrolyzates gave ethanol yields that were 20% above theoretical and showed a marked increase in fermentation rate. Rege-