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Efficacy of pretreating oil palm fronds with an acid-base mixture catalyst

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Abstract

Oil palm fronds are abundant but recalcitrant to chemical treatment. Herein, an acid-base mixture was applied as a catalyst to efficiently pretreat oil palm fronds. Optimized conditions for the pretreatment were a 0.1 M acidic acid-base mixture, a 3-min ramping time to 190°C, and a 12 min holding time. The oil palm fronds pretreated and washed with the acid-base mixture exhibited an enzymatic

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