SUPPLEMENTARY INFORMATION.

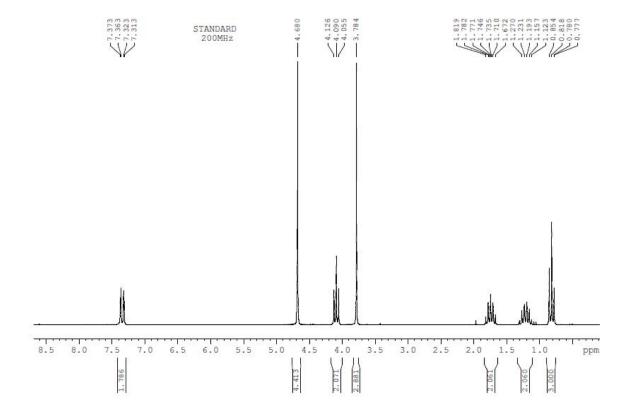
A cyclic process for full enzymatic saccharification of pretreated cellulose with full recovery and reuse of the ionic liquid 1-butyl-3-methylimidazolium chloride.

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NMR analysis of [Bmim] [Cl]

¹H-NMR spectra of 10 mg/mL [Bmim][Cl] samples were recorded on a Bruker-AC-200E (200 MHz) instrument, using D₂O as solvent. Sample 1) *Standard* [Bmim][Cl]: pure IL; sample 2) Reused [Bmim][Cl]: IL recovered and reused 5-times following the iterative protocol described in Experimental section; sample 3) Reused [Bmim][Cl]+ charcoal: IL from sample 2 after cleaning by treatment with charcoal for 48 h at room temperature.

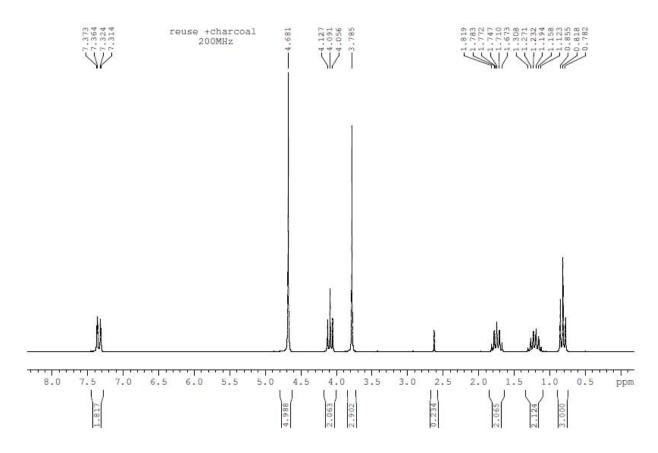
Sample 1. Standard [Bmim][Cl]



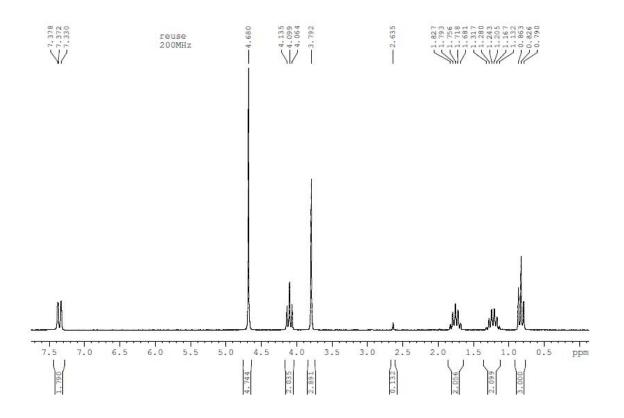
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Sample 2. Reused [Bmim][Cl]



Sample 3. Reused [Bmim][Cl] and cleaned with charcoal



Comparative spectra

