

Zinc-based deep eutectic solvent-mediated hydroxylation and demethoxylation of lignin for the production of wood adhesive

by

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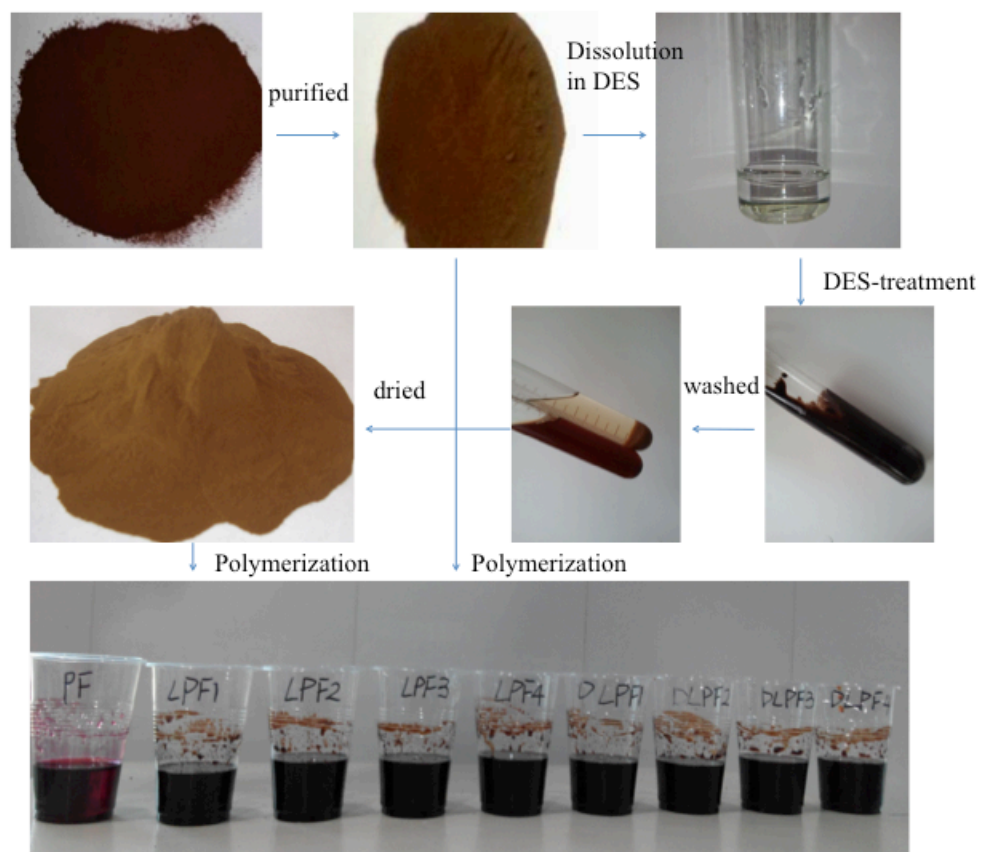


Figure S.1. Photographs of lignin during the DES-treatment and polymerization.

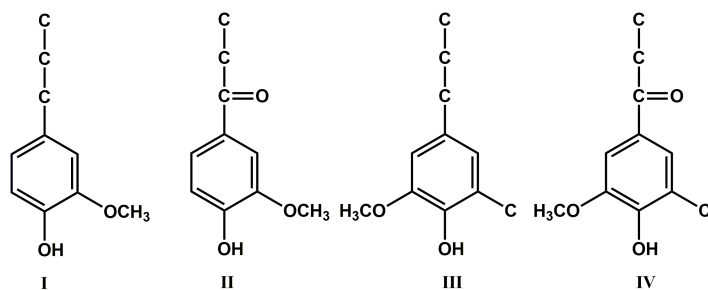


Figure S.2. Schematic representation of the structural units of lignin as detected by UV-Vis.

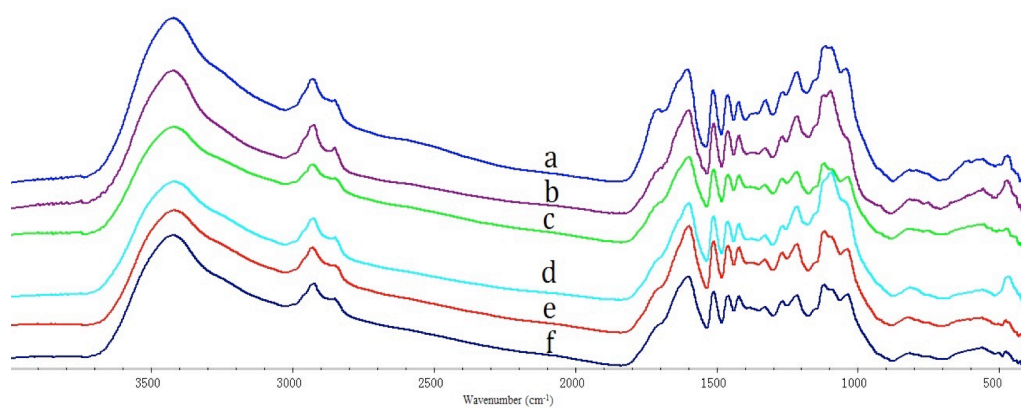


Figure S.3. FT-IR spectra of lignin in the region from 400 to 4000 cm^{-1} . From top to bottom: PL (a), DL1 (b), DL2 (c), DL3 (d), DL4 (e), DL5 (f).

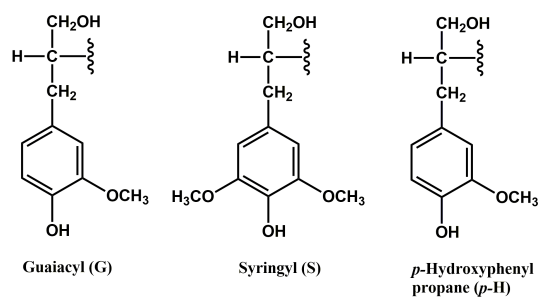


Figure S.4. Schematic representation of the structural units of lignin.

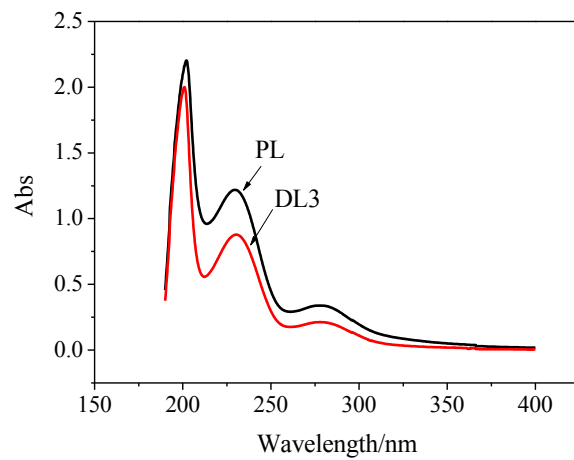


Figure S.5. UV-vis spectra of PL and DL3 in dioxane-water neutral solution.

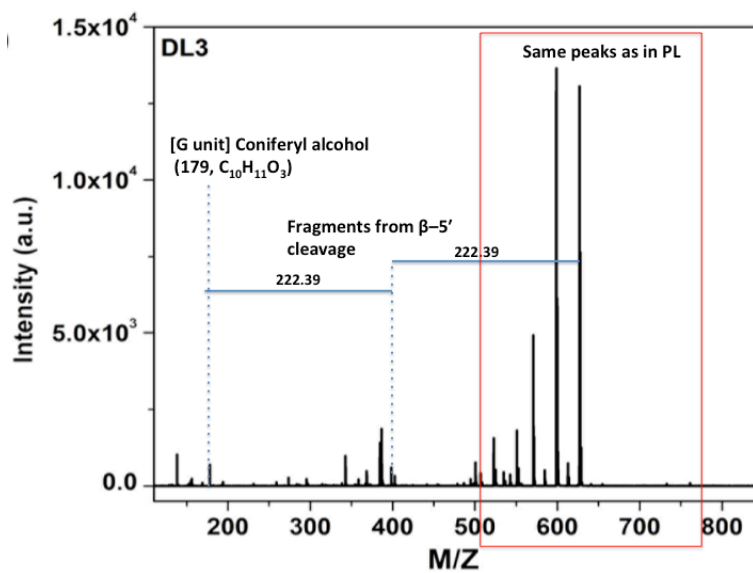


Figure S.6. Details of NALDI-TOF spectrum of DL3.