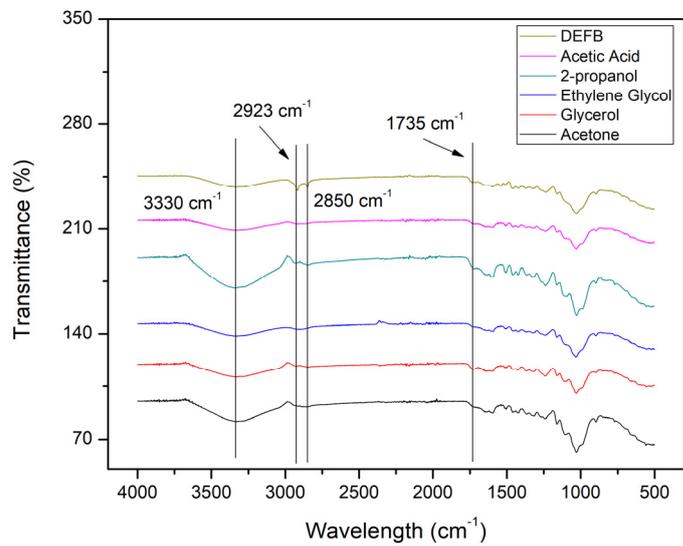
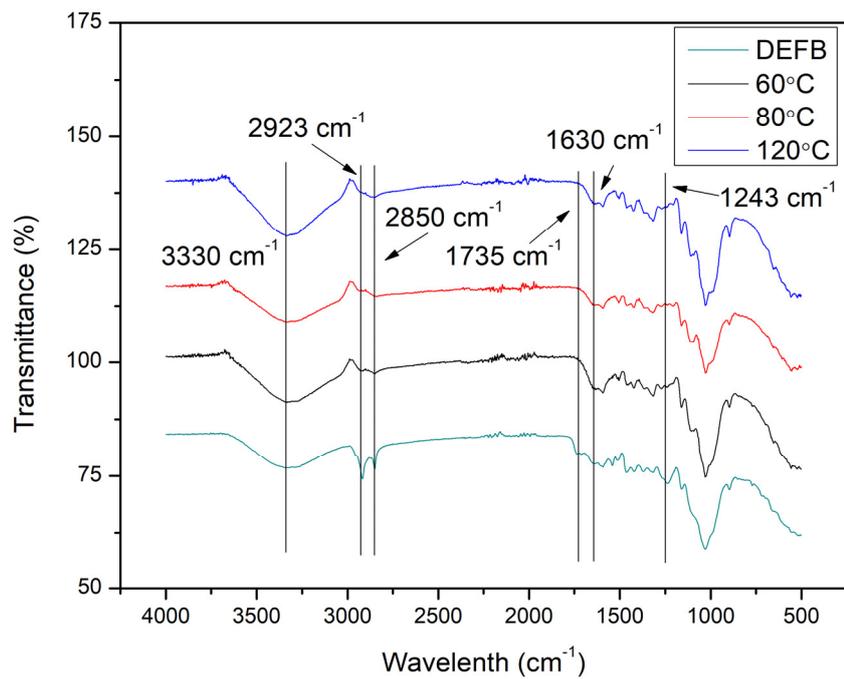


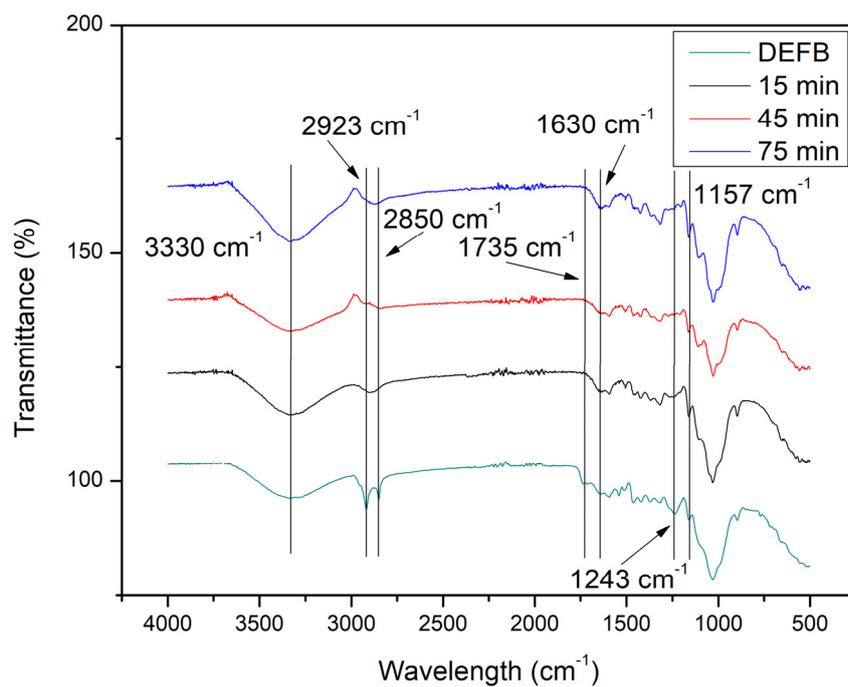
Supplementary Material



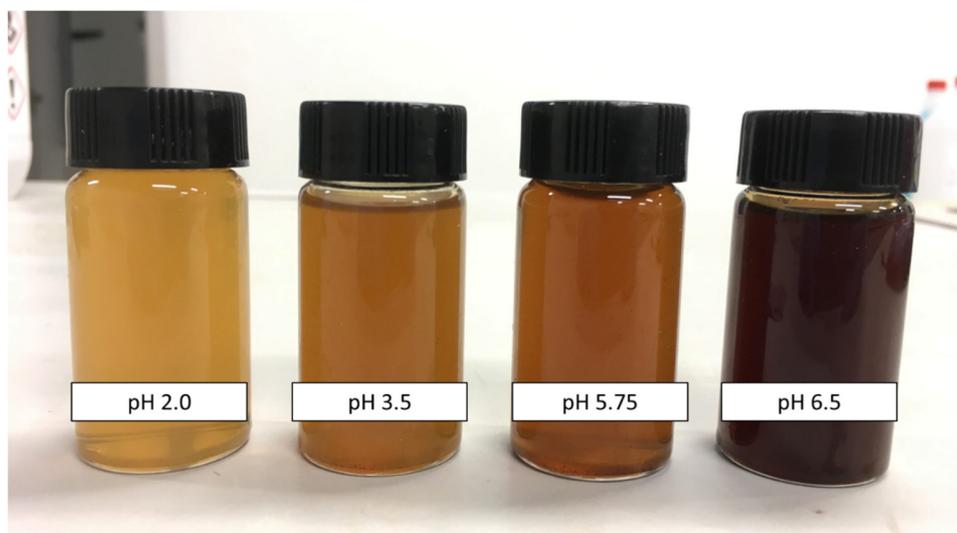
**Supplementary Figure S1.** FTIR spectrum of treated DEFB by different organic solvents



**Supplementary Figure S2.** FTIR spectrum of treated DEFB at different pretreatment temperatures (60, 80 and 120 °C) and untreated DEFB



**Supplementary Figure S3.** FTIR spectrum of treated DEFB at different residence times and untreated DEFB



**Supplementary Figure S4.** The colour changes of pretreatment liquor after the removal of precipitated lignin at different pH values