

Supplementary Material

Downregulation of *p*-coumaroyl quinate/shikimate 3'-hydroxylase (C3'H) or cinnamate-4-hydroxylase (C4H) in *Eucalyptus urophylla* x *E. grandis* leads to increased extractability

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Fig. S1 ^{13}C CP/MAS NMR spectra from *E. urophylla* $\times$ *E. grandis* control a (—) and C3'H down-regulated *E. urophylla* $\times$ *E. grandis* C3'H 106b (—) and C4H 99a (—) extracted with toluene:ethanol.

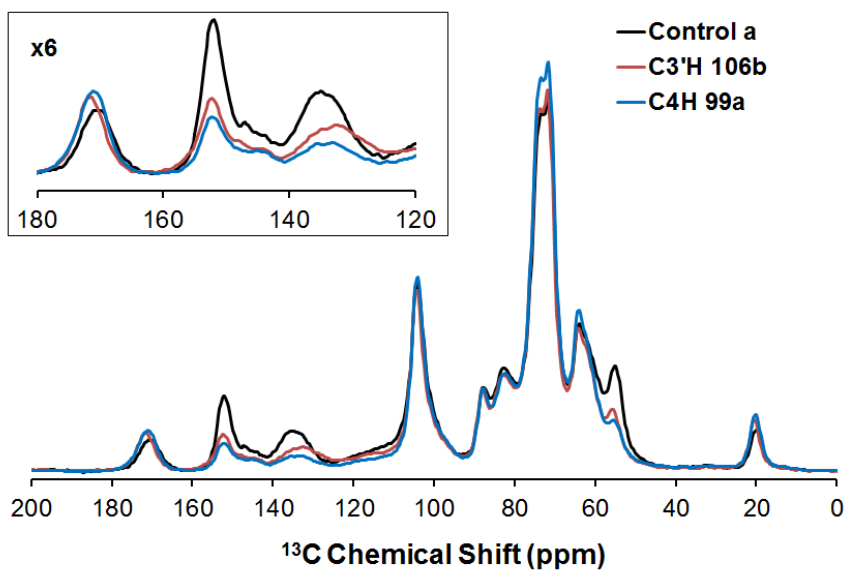


Fig. S2 ^{13}C CP/MAS NMR spectra from Control a, C3'H 106b, and C4H 99a downregulated eucalyptus. Unextracted (—) and, Toluene:Ethanol (—), 0.1 M NaOH (—) and 2.0 M NaOH (—) extracted biomass.

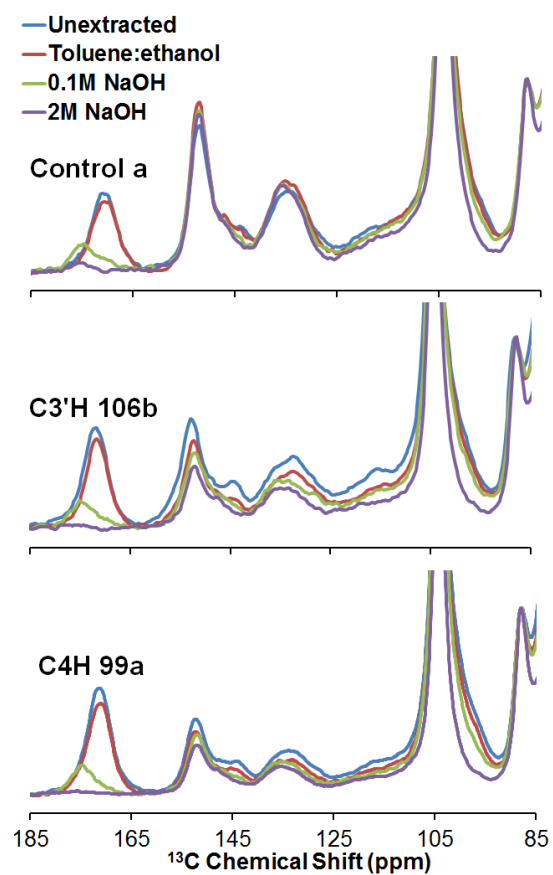


Fig. S3 HSQC NMR spectra of milled wood lignins for control a, C3'H 106b, and C4H 99a.

