Supplementary Information (SI)

For

The access of *Trichoderma reesei* 6A to cellulose is blocked by isolated hemicelluloses and their derivatives in biomass hydrolysis

Donglin Xin, Ming Yang, Xiang Chen and Junhua Zhang*

College of Forestry, Northwest A&F University, Yangling 712100, Shaanxi, China

*Corresponding author

E-mail: junhuazhang@nwsuaf.edu.cn (J. Zhang)
The cellulose crystallinity index (CI) of the samples was measured by XRD using a Rigaku D/max–3C generator (Rigaku Corporation, Japan). The dried samples were scanned in 2θ range from 5° to 50° using the steps of 0.02° in width, and using Cu/Kα radiation (1.54 Å) generated at 35 kV and 35 mA. The CI of cellulose was calculated from the XRD spectra as follows:

\[ \text{CI} = \frac{I_{002} - I_{am}}{I_{002}} \times 100 \]

In which \( I_{002} \) is the maximum intensity of the (002) lattice diffraction, and \( I_{am} \) is the peak of the amorphous portion evaluated as the minimum intensity between the (101) and (002) lattice planes.

**Figure S1.** XRD analysis of Avicel and phosphoric acid swollen cellulose (PASC).