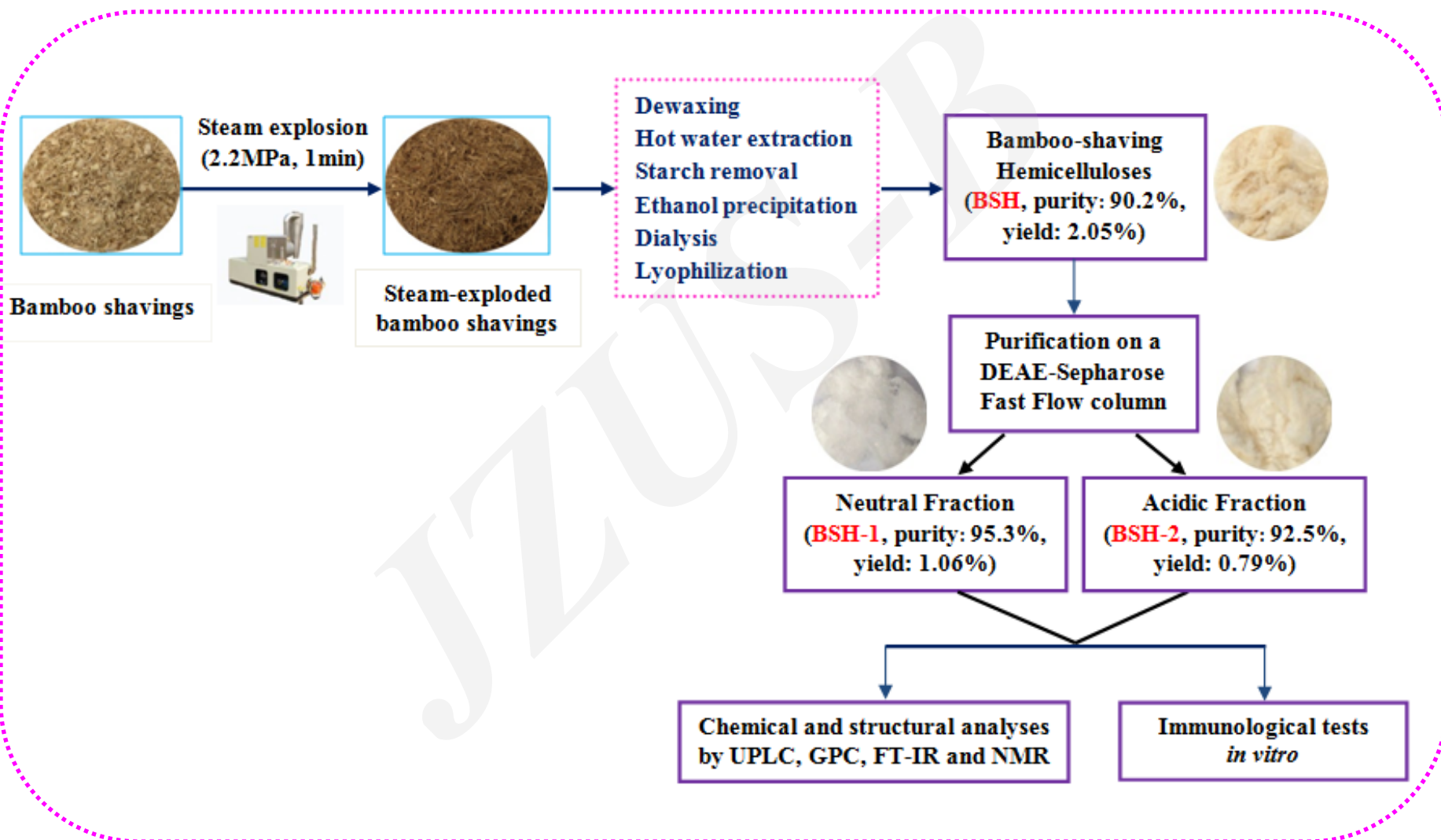


Cite this as: Ju-qing HUANG, Rui-ting QI, Mei-rong PANG, Cong LIU, Guang-yu LI, Ying ZHANG, 2017. Isolation, chemical characterization, and immunomodulatory activity of naturally acetylated hemicelluloses from bamboo shavings. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 18(2):138-151.
<http://dx.doi.org/10.1631/jzus.B1500274>

Isolation, Chemical Characterization and Immunomodulatory Activity of Naturally Acetylated Hemicelluloses from Bamboo Shavings

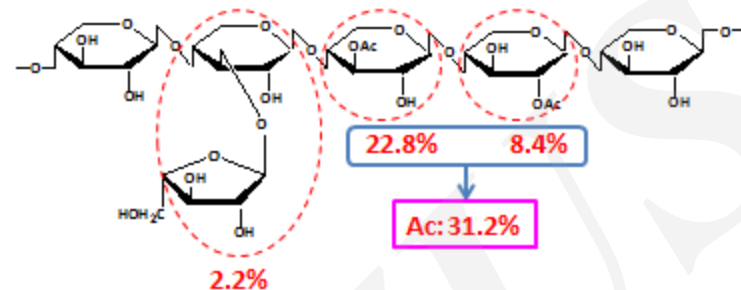
Key words: Bamboo shavings, Steam explosion pretreatment, Naturally acetylated hemicelluloses, Isolation, Chemical characterization, Immunomodulatory activity

Graphical Abstract



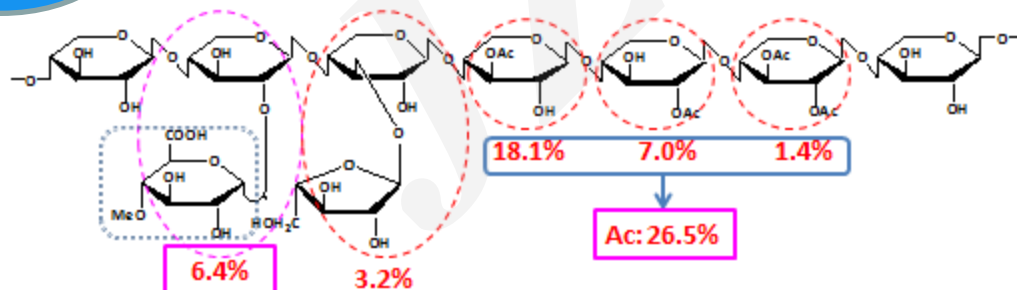
Innovation Points

- ◆ The water-extractable hemicelluloses from steam-exploded bamboo shavings are **naturally acetylated** and **immuno-active**.



BSH-1: *O*-acetylated arabinoxylan (Mw: 12,800 g/mol)

Naturally
Acetylated



BSH-2: *O*-acetylated-(4-*O*-methylglucurono)-arabinoxylan (Mw: 11,300 g/mol)

BSH, BSH-1 and BSH-2

Immuno-active

