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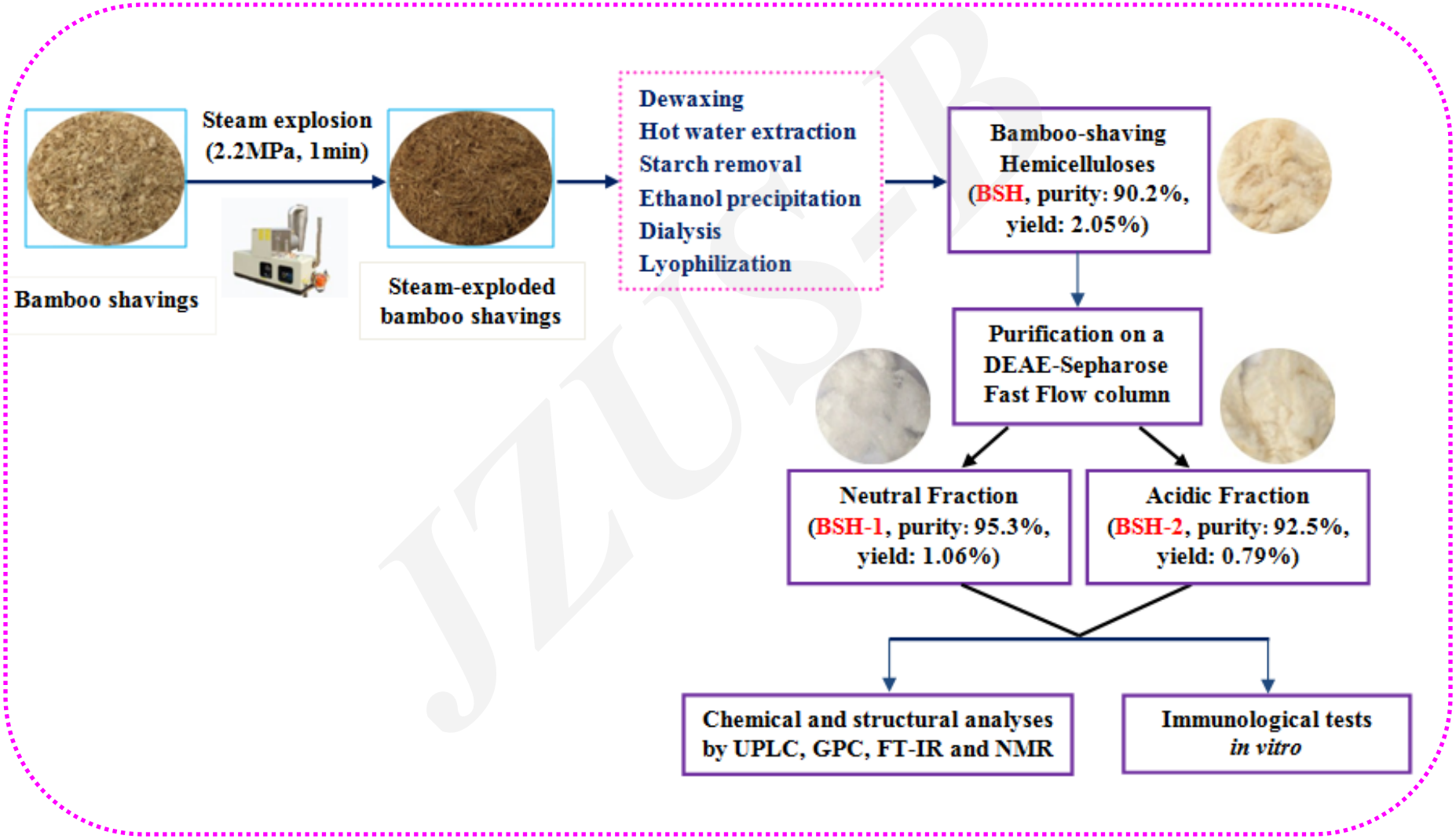
Isolation, Chemical Characterization and Immunomodulatory Activity of Naturally Acetylated Hemicelluloses from Bamboo Shavings

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

Graphical Abstract

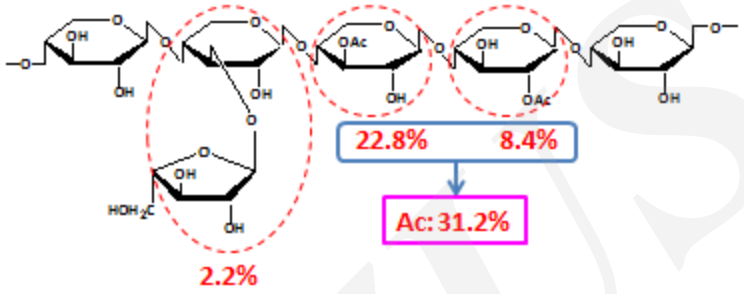


JZUSR

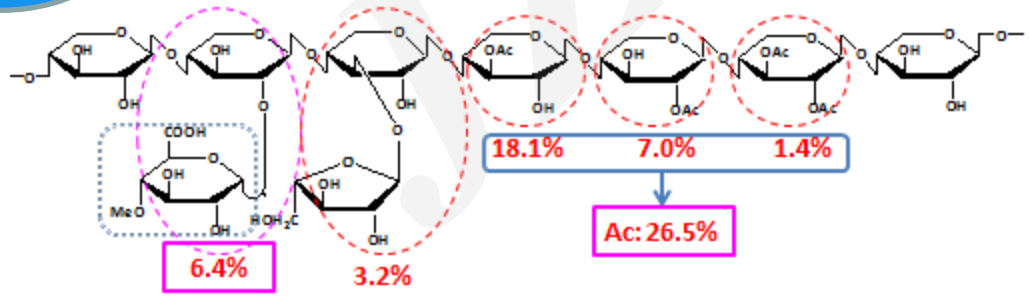
Innovation Points

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

Naturally Acetylated



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



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

BSH, BSH-1 and BSH-2

Immuno-active

