

**Title: A Lignocellulolytic *Colletotrichum* sp. OH with Broad-Spectrum Tolerance to Lignocellulosic Pretreatment Compounds and Derivatives and the Efficiency to Produce Hydrogen Peroxide and 5-Hydroxymethylfurfural Tolerant Cellulases**

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**Figure S1:** Uncompressed Rooted Maximum-likelihood phylogenetic tree using s ITS gene sequences

**Figure S2:** Rooted Neighbor-joining phylogenetic tree based on sequences of LSU gene

**Figure S3:** Growth of *Colletotrichum* sp. OH on different carbon sources

**Figure S4:** The growth patterns of *Colletotrichum* sp. OH in different pH (4-13) at 30°C

**Figure S5:** Cell wall stress-tolerant capability of *Colletotrichum* sp. OH

**Figure S6:** Growth profile of *Colletotrichum* sp. OH on commercial media and agro-waste at 30°C

**Figure S7:** Pectinase activity of *Colletotrichum* sp. OH in the presence of 1% citrus pectin

**Figure S8:** Relative Enzyme activity of Endoglucanases (EnG),  $\beta$ -glucosidases (BGL), and Xylanases (XLN) in the presence of lignocellulose-derived inhibitor combinations

**Figure S9:** Relative Enzyme Activity of Laccases (Lac), Lignin peroxidases (LiP), and Manganese peroxidases (MnP) in the presence of lignocellulose-derived inhibitor combinations.