Supplementary material for:

Characterization of *Zalaria obscura* Y1223 hydrolases: Implications for lignocellulose conversion

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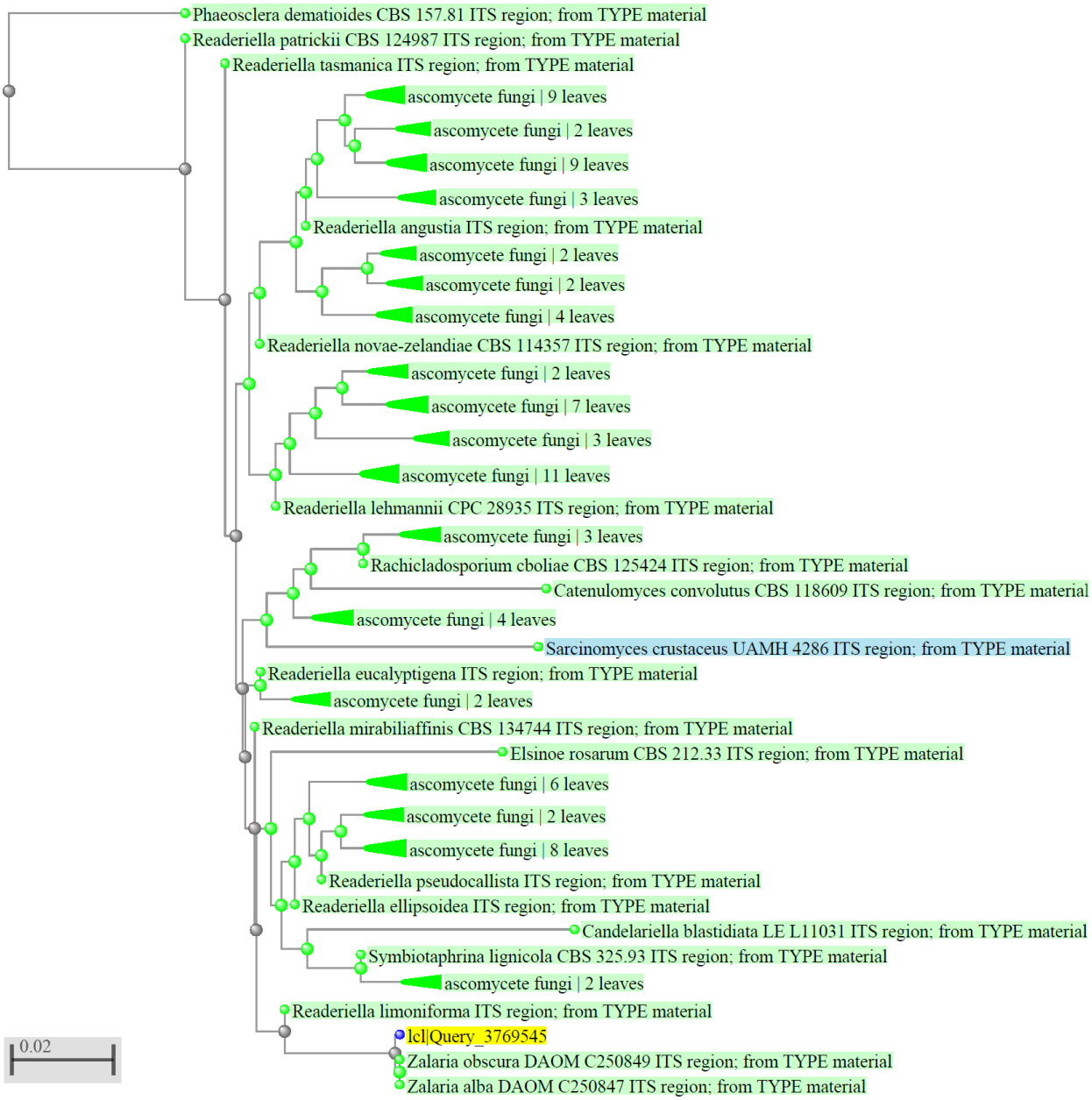

Fig. S1. Phylogenetic tree comparing ribosomal ITS sequences, to confirm taxonomic classification of *Z. obscura* Y1223 strain

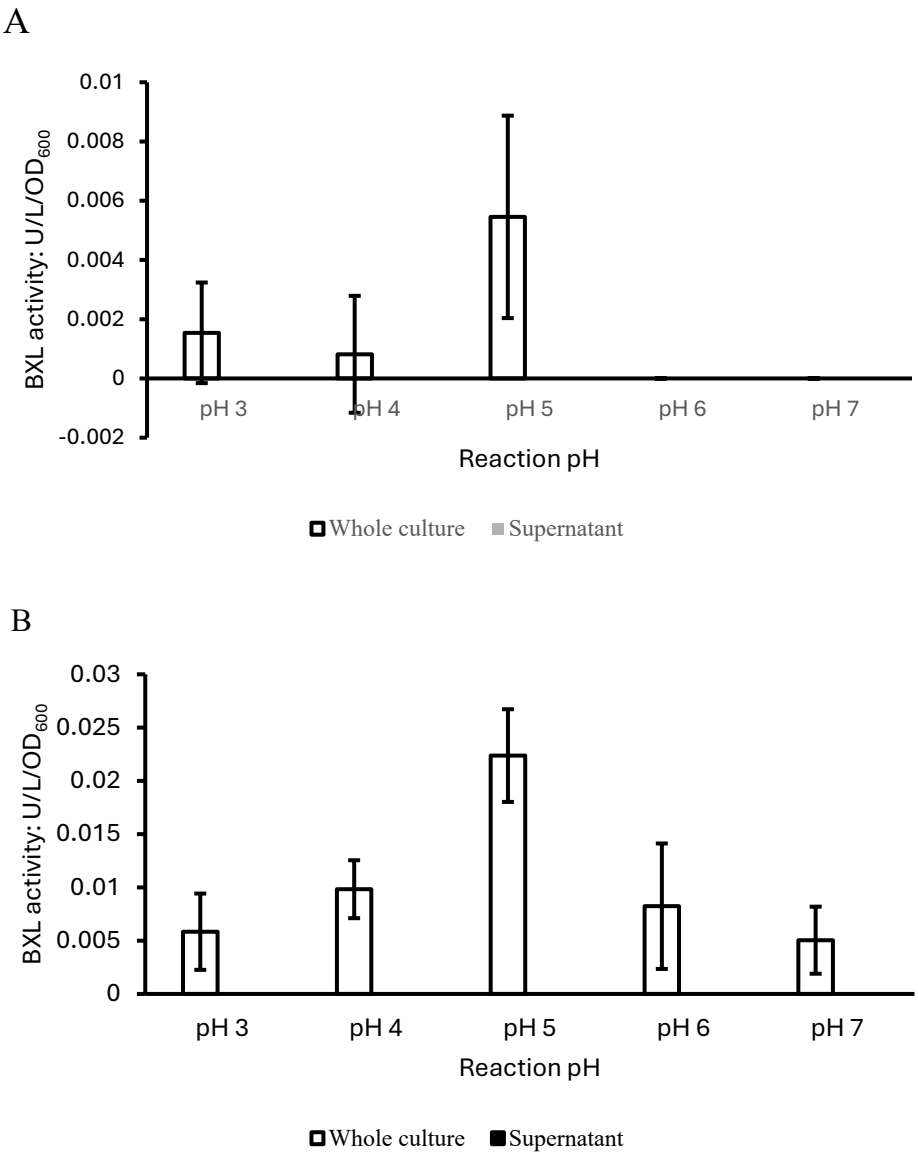

Fig. S2: *p*-Nitrophenyl (pNP) based activity assays performed at variable pH levels using citric-phophate buffer pH 3-7. **A.** *β*-glucosidase (BGL) activity of *Z. obscura* Y1223 at variable pH levels. **B.** *β*-xylosidase (BXL) activity of *Z. obscura* Y1223 at variable pH levels.

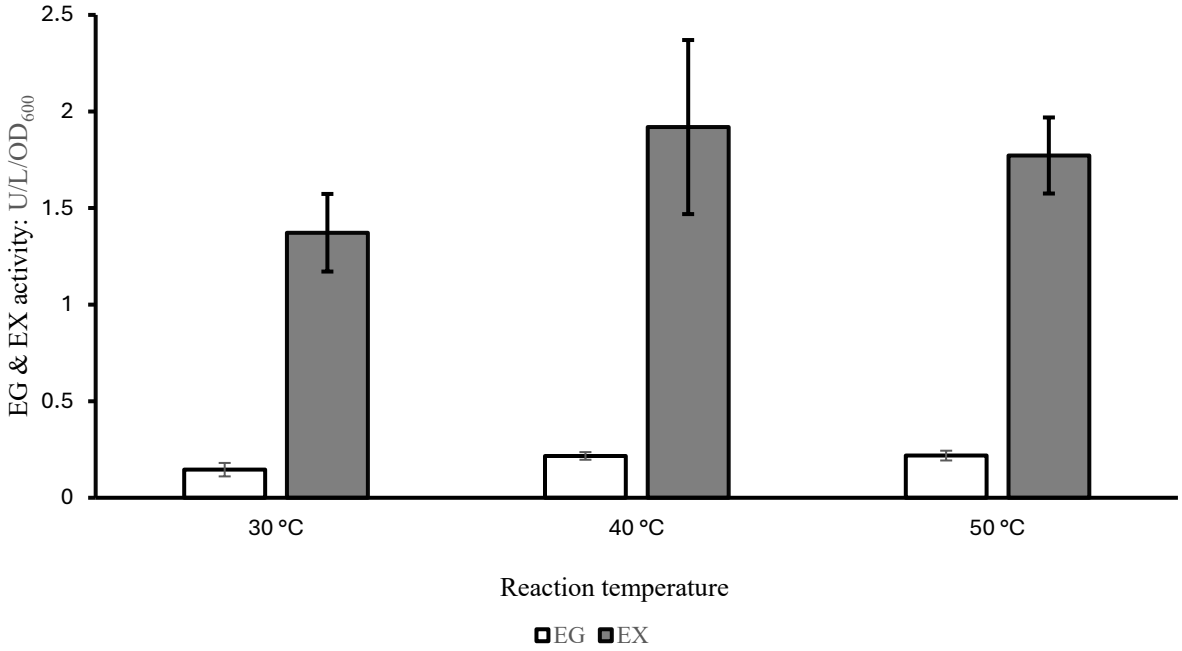

Fig. S3: Endoglucanase (EG) and endoxylanase (EX) activity of *Z. obscura* Y1223 cell free supernatant extracted from SC media supplemented with oat bran. EG and EX activity is shown using variable reaction temperatures of 30 – 50 °C.

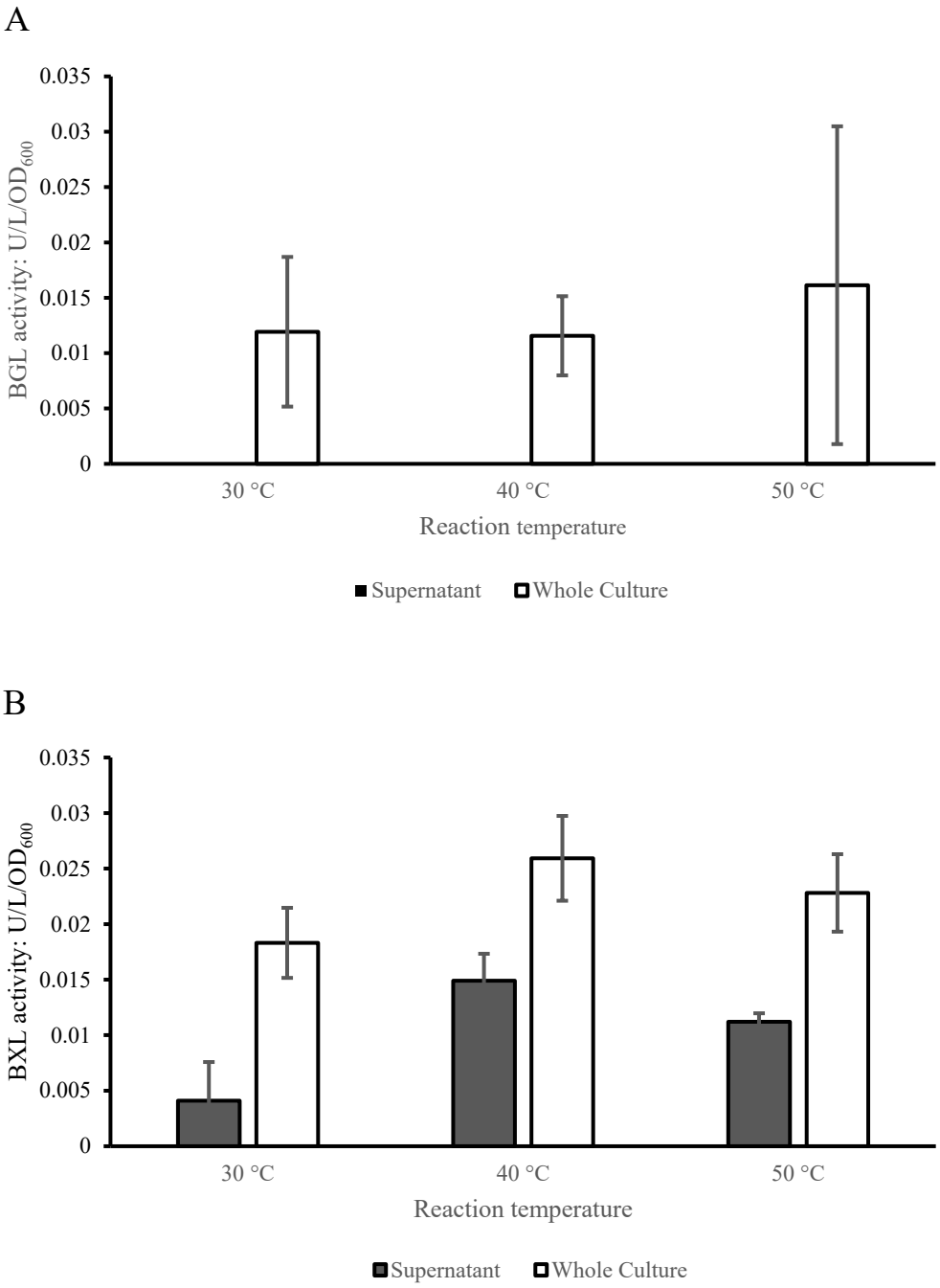

Fig. S4: *p*-Nitrophenyl (pNP) based activity assays performed at pH 5 and variable temperatures. **A.** *β*-glucosidase (BGL) activity of *Z. obscura* Y1223 at variable temperature. **B.** *β*-xylosidase (BXL) activity of *Z. obscura* Y1223 at variable temperature.