

1 2 3 4 5 6 7

**S1 Figure. SDS-PAGE analysis of the three LPMO regioselectivity representatives**. Lane 1: *Hypocrea jecorina* LPMO9A native enzyme; lane 2: *Phanerochaete chrysosporium* LPMO9D native enzyme; lane 3: *Neurospora crassa* LPMO9C native enzyme; lane 4: PageRuler prestained protein ladder (Thermo Scientific); lane 5: histag purified *Hj*LPMO9A; lane 6: histag purified *Hj*LPMO9A variant Y24A; lane 7: *Hj*LPMO9A variant Y211A.