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Purification, properties of genetically reconstructed endo-inulinase from *Xanthomonas oryzae* MGL21 exo-inulinase

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Previously we reported the cloning and sequencing of a exo-inulinase gene and CFTase gene from *Xanthomonas oryzae* MGL21. A pUC18-derived plasmid was genetically reconstructed that coded for a chimeric enzyme with the ED region(residues 393 to 653) of CFTase at its N-terminus joined to the exo-inulinase. The enzyme was produced fructooligosaccharide from inulin. The main products were F2, F3, F4. The enzyme was purified and charactered enzymatically. The molecular weight of the enzyme was about 83KDa by SDS-PAGE. The pH and temperature optima of enzyme were pH 6.5, 35℃, respectively.