

Glycosidase Activity Profile Using Coumarin-Conjugated Carbohydrate Derivatives

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To date, several hundred genes encoding glycosidases in genomes have been identified. Since glycan formed by action of glycosidases are involved various biological processes and endoglycosidases are frequently used as tools for structural analysis of oligosaccharides, characterization of catalytic activity of glycosidases is of great importance. Catalytic activity of these enzymes is mostly assessed by measuring enzymes with a series of carbohydrate-based substrates in parallel, which is slow, inconvenient and time consuming. Thus, it is necessary to develop a rapid, reliable and convenient method for glycosidase activity profile. Herein we describe a simple and rapid method to obtain glycosidase activity profile using a mixture of coumarin conjugate carbohydrates