

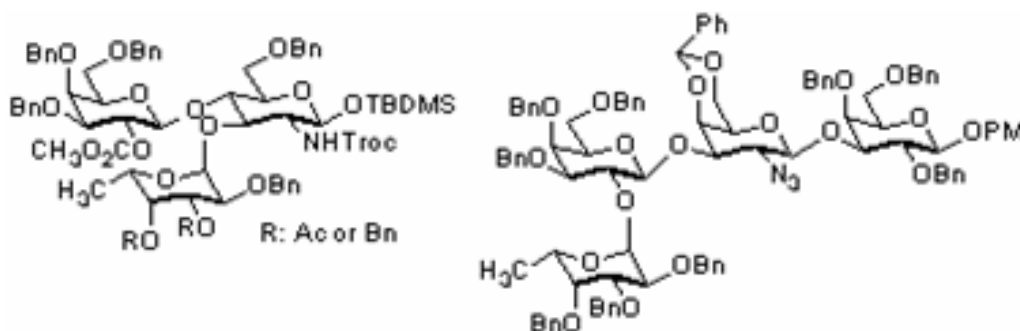
ACID WASHED MOLECULAR SIEVES AND YTTERBIUM(III) TRIFLATE: NEW MILD PROMOTERS FOR THE SYNTHESIS OF OLIGOSACCHARIDES

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The most adopted glycosidation approaches are based on strongly acid promoters which are corrosive, moisture sensitive or hygroscopic. Special precaution is thereby required in their handling and storage. In addition, use of these agents may be not tolerated by acid labile functional groups. In the last years we have disclosed that both glycosyl trichloroacetimidates [1] and *N*-phenyl trifluoroacetimidates [2] can be activated by moisture stable and mild promoters such as Ytterbium(III) triflate [3] or acid washed molecular sieves [4].

In this communication the scope of both these approaches (activation of armed or disarmed donors, stereocontrol, etc) will be discussed. In addition, the useful application of these promoters will be demonstrated in the assemblage of biologically relevant sequences such as the Lewis X trisaccharide and the tetrasaccharide non reducing terminus of Globo H (Fig).



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