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Carbohydrate
RESEARCH

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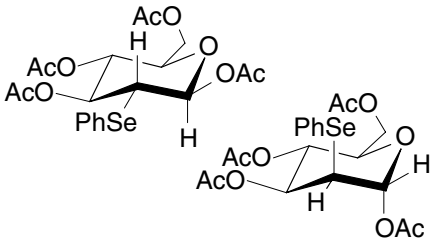
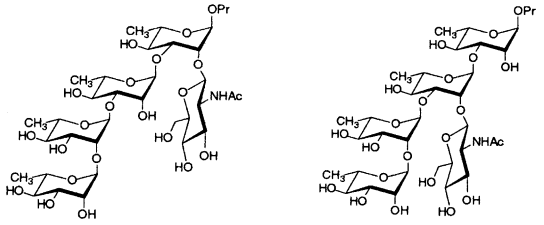
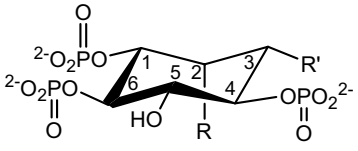
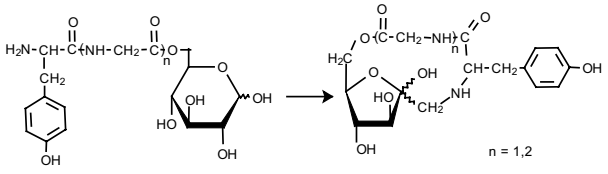
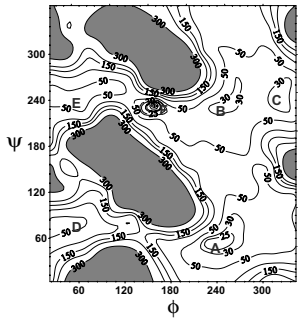




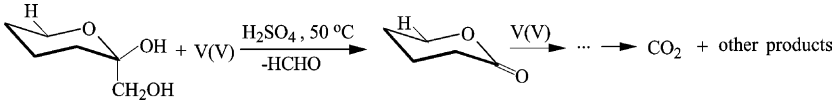


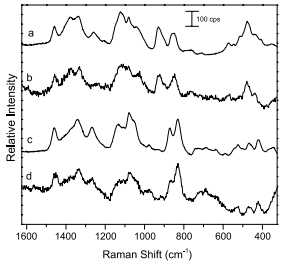
6 R = H, R' = OH
7 R = H, R' = OMe
8 R = OH, R' = OMe
9 R = OH, R' = $O(CH_2)_2OH$
10 R = OH, R' = $O(CH_2)_3OH$
11 R = OH, R' = $O(CH_2)_4OH$





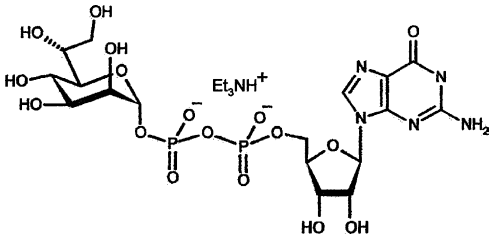
The spines of *Opuntia* cactus are made up of a compact parallel arrangement of fibers composed of two polysaccharides, cellulose and arabinan (1:1), intimately associated inside the fibers, forming a natural and complex composite of cellulose microfibrils embedded in an α-L-arabinofuranan matrix.

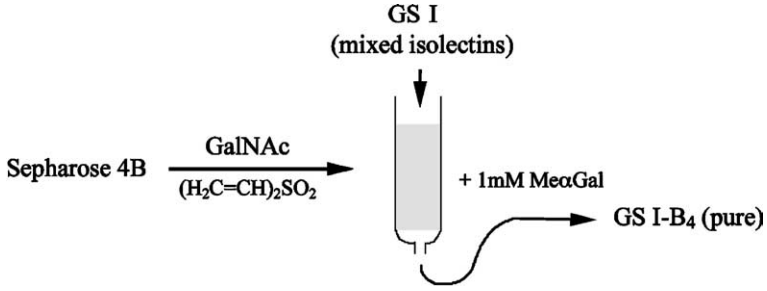




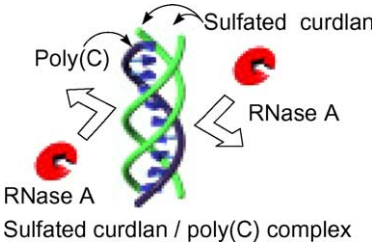
Normal Raman and SERS spectra of maltotetraose (a, b) and stachyose (c, d). SERS spectra were collected after deposition on an electrochemically roughened silver substrate.

NOTES





β-L-Xyl*p*-(1→2)┐
→3)-β-D-Rha*p*-(1→3)-α-D-Rha*p*4NAc-(1→



OTHER CONTENTS

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COVER

Well-defined glycoforms of glycoproteins can easily be obtained by oxidative coupling of synthetic thioaldoses with proteins that have a cysteine moiety in lieu of an asparagine residue carrying natural N-linked oligosaccharides. In vitro glycosylation offers several advantages such as quantitative conjugation, incorporation of oligosaccharides that display high bioactivities and the possibility of using convenient bacterial or yeast protein expression systems. The figure is related to Geert-Jan Boons' *Carbohydrate Research Award* paper, which will be published in a forthcoming issue.

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