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Carbohydrate
RESEARCH

Carbohydrate Research Vol. 343, No. 5, 2008

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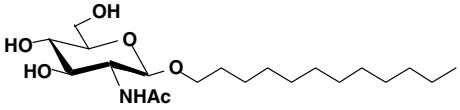
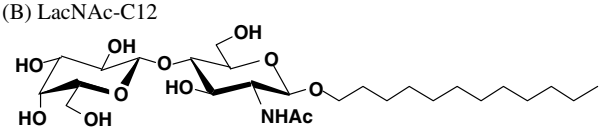
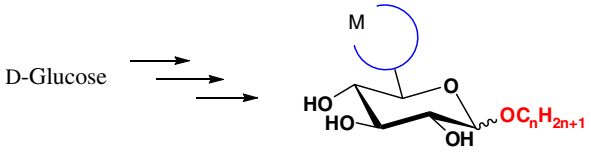
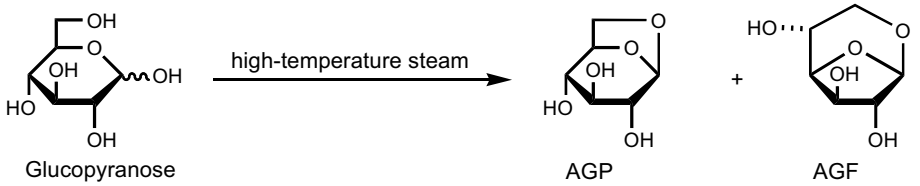
(A) GlcNAc-C12

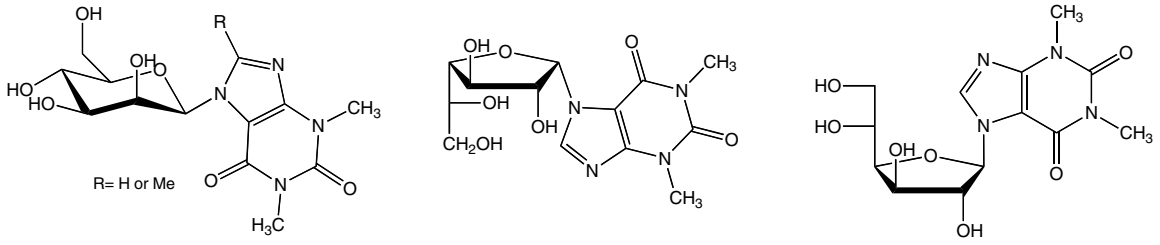


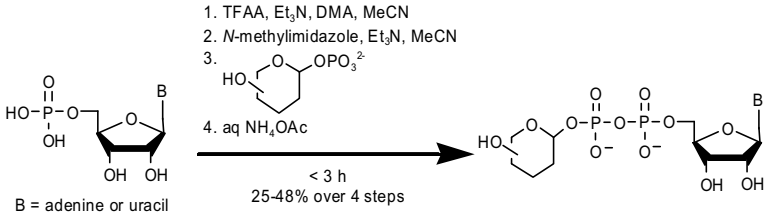
(B) LacNAc-C12

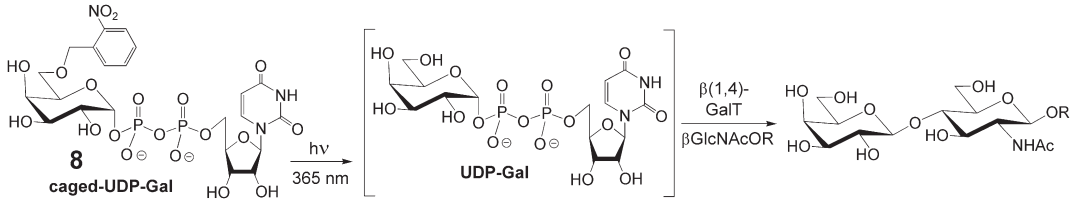


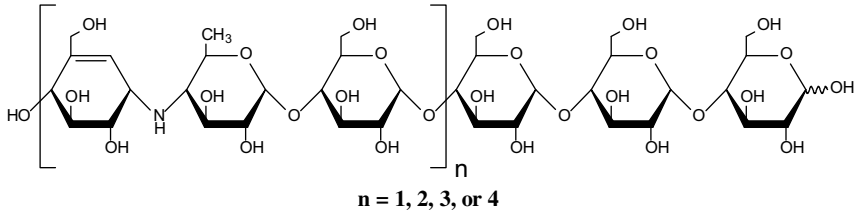


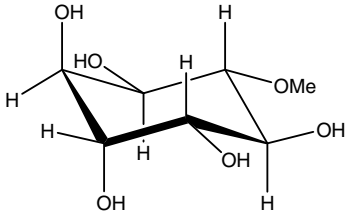






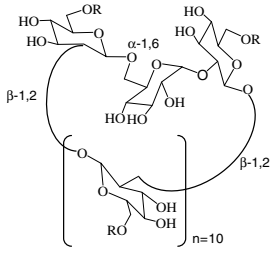






pinitol

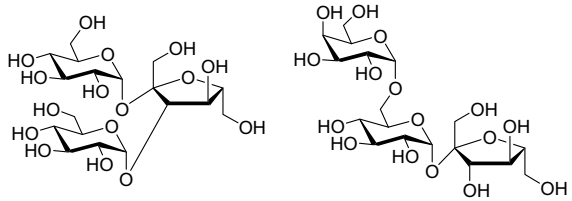
We developed a method for the direct identification and quantification of carbohydrates in raw vegetable extracts using ^{13}C NMR spectroscopy. Carbohydrates represented from 15% to 35% of the crude extracts and pinitol was the principal constituent.

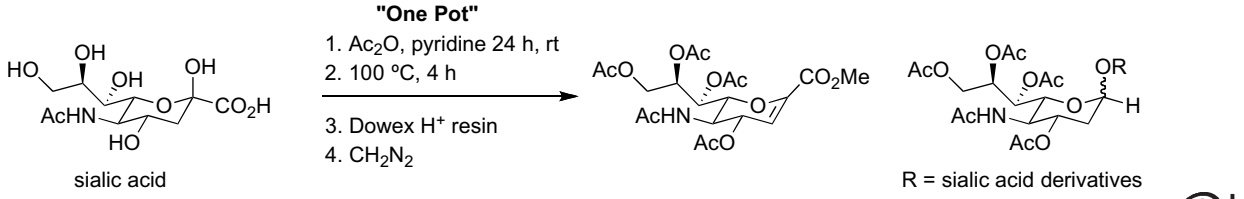


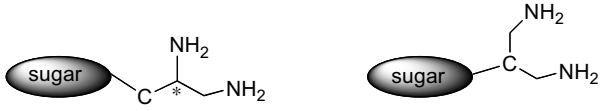
R=H or Ac (1–2/molecule)

Novel acetylated α-cyclosophorotridecaose (α-C13)

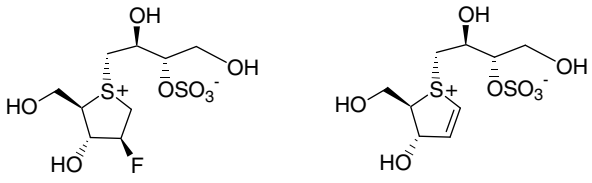
NOTES

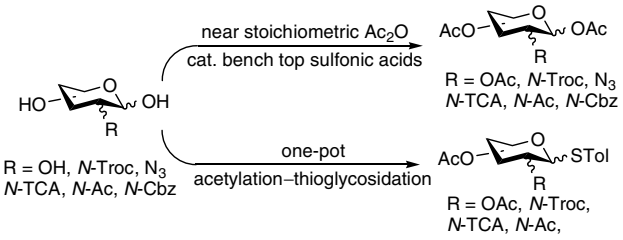


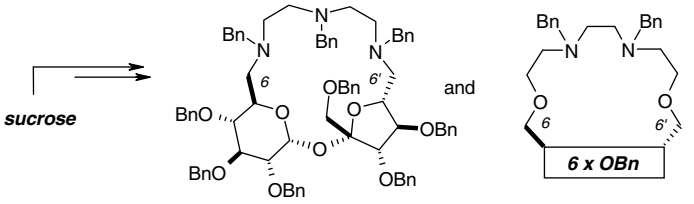




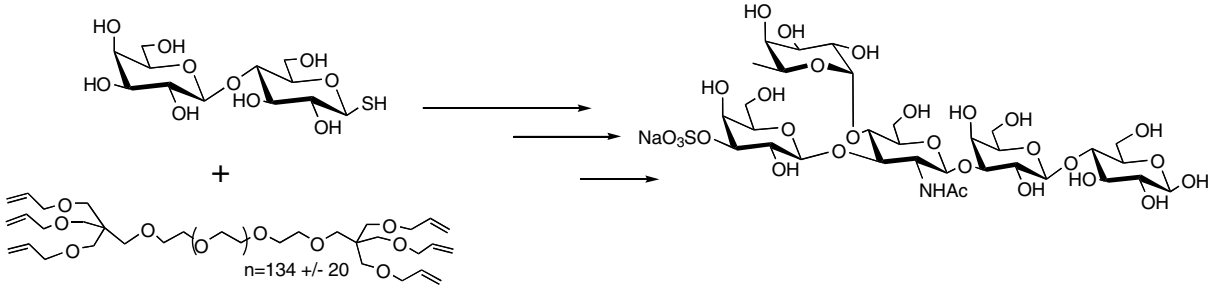
Practical and convenient preparations of *C*-glycosyl 1,2- and 1,3-alkanediamines are described. The methods reported here serve as general routes to access carbohydrate–diamine conjugates with *C*-glycosyl linkages.



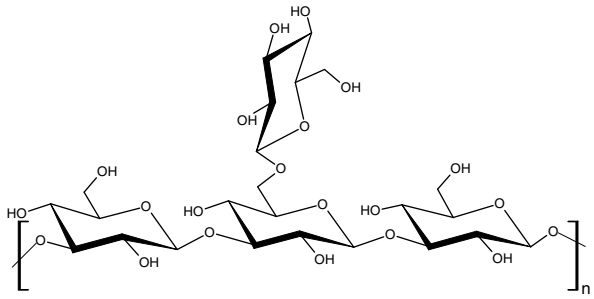




The aza-coronand analogues with the sucrose scaffold were prepared and their complexation ability towards ammonium cation were determined.



β-D-Glc*p*NAc4,6(*S*)Pyr
1
↓
3
→4)-α-D-Gal*p*NAc-(1→4)-α-D-Glc*p*-(1→4)-β-D-Gal*p*-(1→3)-β-D-Gal*p*NAc-(1→



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

The graphic represents a molecular dynamics simulation of water density around the disaccharide α-D-Ara*f*-(1→5)-α-D-Ara*f*-OCH_3, highlighting the interglycosidic linkage. The red clouds represent regions where the probability of finding an oxygen atom is high while the gray clouds are for hydrogen atoms. This work is the result of a collaboration in the Alberta Ingenuity Centre for Carbohydrate Science and Department of Chemistry at the University of Alberta between the groups of Pierre-Nicolas Roy and Todd L. Lowary (Castillo, N.; Roy, P. N.; Lowary, T. L. Manuscript in Preparation).

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