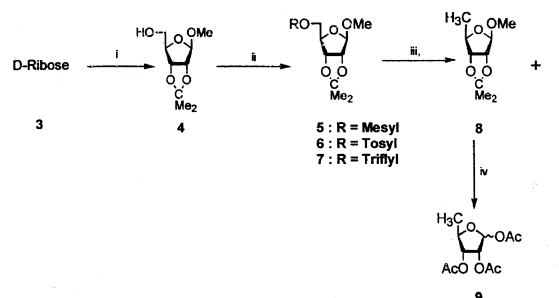


Synthesis of 1,2,3-tri-*O*-acetyl-5-deoxy-D-ribofuranose from D-ribose

Pothukuchi Sairam, Ramachandra Puranik,
Bhatraju Sreenivasa Rao, Ponnappalli Veerabhadra
Swamy, Sharad Chandra

Critical Care Division, Dr Reddy's Laboratories Ltd., IDA Bollaram,
Hyderabad, Andhra Pradesh 500 016, India

Carbohydr. Res. **2003**, 338, 303

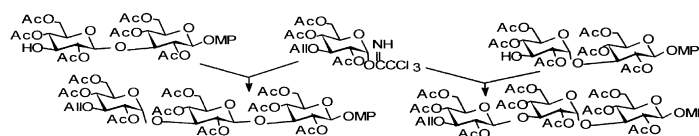


Remote control of α - or β -stereoselectivity in (1 $\rightarrow$ 3)-glucosylations in the presence of a C-2 ester capable of neighboring-group participation

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Carbohydr. Res. **2003**, 338, 307



Enzymatic synthesis of β -xylanase substrates: transglycosylation reactions of the β -xylosidase from *Aspergillus* sp.

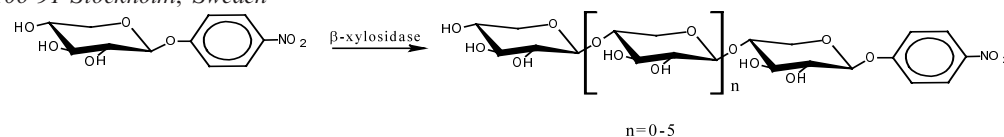
Elena V. Eneyskaya,^a Harry Brumer III,^b Leon V. Backinowsky,^c Dina R. Ivanen,^a
Anna A. Kulminskaya,^a Konstantin A. Shabalin,^a Kirill N. Neustroev^a

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Carbohydr. Res. **2003**, 338, 313



Structure of the O-specific polysaccharide of *Proteus vulgaris* O45 containing 3-acetamido-3,6-dideoxy-D-galactose

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Antoni Rozalski,^b Yuriy A. Knirel^a

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^bDepartment of Immunobiology of Bacteria, Institute of Microbiology and Immunology, University of Lodz, Banacha 12/16, 90-237 Lodz, Poland

The following structure of the pentasaccharide repeating unit of the polysaccharide was established:



where Fuc3NAc4Ac is 3-acetamido-4-*O*-acetyl-3,6-dideoxygalactose. A cross-reactivity of anti-*P. vulgaris* O45 serum was observed with several other *Proteus* lipopolysaccharides, which contains Fuc3N derivatives.

Carbohydr. Res. **2003**, 338, 327

Relationships between the molecular structure and moisture-absorption and moisture-retention abilities of carboxymethyl chitosan
II. Effect of degree of deacetylation and carboxymethylation

Lingyun Chen, Yumin Du, Xiaoqing Zeng

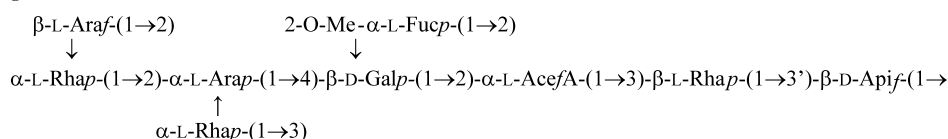
Department of Environmental Science, Wuhan University, Wuhan 430072, China

Synthesis, structural analysis and determination of moisture-absorption and moisture-retention abilities of carboxymethyl chitosans of different degree of deacetylation and substitution were carried out.

Primary structure of the 2-O-methyl- α -L-fucose-containing side chain of the pectic polysaccharide, rhamnogalacturonan II

John N. Glushka, Mark Terrell, William S. York, Malcolm A. O'Neill, Angela Gucwa, Alan G. Darvill, Peter Albersheim, James H. Prestegard

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Crystallographic analysis of the thermal motion of the inclusion complex of cyclomaltoheptaose (β -cyclodextrin) with hexamethylenetetramine

Kazuaki Harata

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The crystal structure of the inclusion complex of cyclomaltoheptaose (β -cyclodextrin) with hexamethylenetetramine was determined at temperatures of 123, 173, 223, and 293 K.

Dissolution of sucrose crystals in the anhydrous sorbitol melt

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^b*Department of Food Science, Food Technology and Nutrition, University College, Cork, Ireland*

The dissolution of a sugar (sucrose as a model) with higher melting point was studied in a molten food polyol (sorbitol as a model) with lower melting point, both in anhydrous state. A DSC and optical examination revealed the dissolution of anhydrous sucrose crystals (mp 192 °C) in anhydrous sorbitol (mp 99 °C) liquid melt.

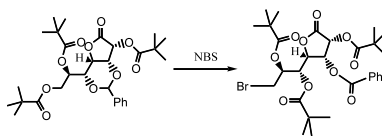
Remote site bromination via a cascade rearrangement involving two bridging dioxonium species during oxidative cleavage of a benzylidene acetal

Carbohydr. Res. **2003**, 338, 369

Xuezheng Song,^a Rawle I. Hollingsworth^{a,b}

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β -Anomeric selectivity in the glycosidation of D-mannofuranurono-6,3-lactone catalyzed by boron trifluoride diethyl etherate

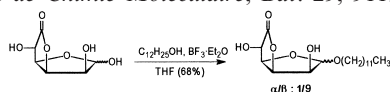
Carbohydr. Res. **2003**, 338, 375

Myriam Roussel,^{a,b} Stéphane Moutard,^c Bruno Perly,^c Martine Lefevre,^a Thierry Benvegna,^a Daniel Plusquellec^a

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Rapid quantification of O-acetyl and O-methyl residues in pectin extracts

Carbohydr. Res. **2003**, 338, 379

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Dept. de Biologie Appliquée, Laboratoire des Polysaccharides Microbiens et Végétaux, Université de Picardie Jules Verne, IUT/GB, Avenue des Facultés/le Bailly, F-80025 Amiens, France

The method is based on pectins saponification during ¹H NMR studies. MeOH and AcOH formed are quantified relative to H-4 of the GalpA residues.

The structure of the O-specific polysaccharide chain of the *Shewanella* algae BrY lipopolysaccharide

Carbohydr. Res. **2003**, 338, 385

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