

Recombinant (2 → 3)- α -sialyltransferase immobilized on nickel-Agarose for preparative synthesis of sialyl Lewis^x and Lewis^a precursor oligosaccharides

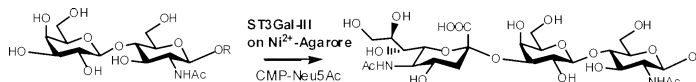
Carbohydr. Res. **2003**, 338, 1153

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^cUnité de Glycobiologie Structurale et Fonctionnelle, UMR CNRS-USTL 8576 Université des Sciences et Technologies de Lille, F-59655, Villeneuve d'Ascq, France

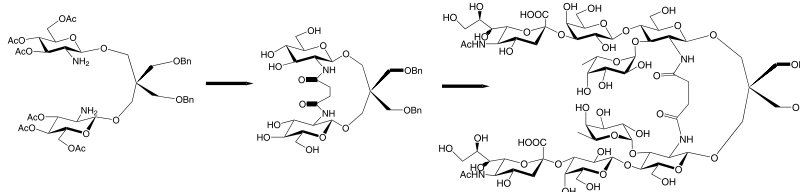


Chemo-enzymatic synthesis of a divalent sialyl Lewis^x ligand with restricted flexibility

Carbohydr. Res. **2003**, 338, 1163

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A new mannoheptaose containing α and β -(1 → 2) linkages isolated from the mannan of *Torulaspora delbrueckii*: ELISA inhibition studies

Carbohydr. Res. **2003**, 338, 1175

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Dextran molecular size and degree of branching as a function of sucrose concentration, pH, and temperature of reaction of *Leuconostoc mesenteroides* B-512FMCM dextranase

Carbohydr. Res. **2003**, 338, 1183

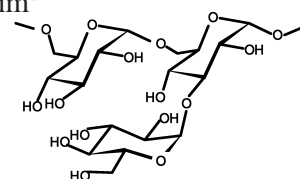
Doman Kim,^{a,c} John F. Robyt,^b So-Young Lee,^c Jin-Ha Lee,^a Young-Min Kim^d

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Dextran segment with one α -(1 → 3) branched glucose unit

Variations in the size distributions and the degrees of branching of dextran synthesized by dextranase was studied using different sucrose concentrations at different pHs and temperatures.

Structural and serological studies of the O-antigen of *Proteus mirabilis* O-9

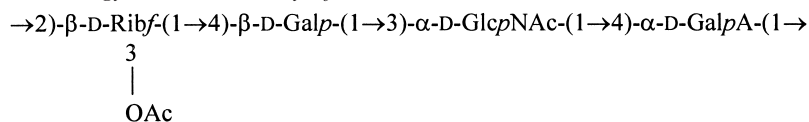
Carbohydr. Res. **2003**, *338*, 1191

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where the degree of O-acetylation is ~70%.

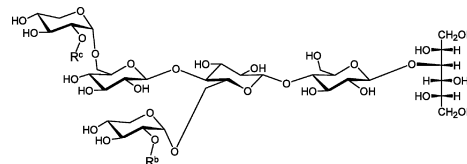
Structure of the xyloglucan produced by suspension-cultured tomato cells

Carbohydr. Res. **2003**, *338*, 1197

Zhonghua Jia, Qiang Qin, Alan G. Darvill, William S. York

Complex Carbohydrate Research Center and Department of Biochemistry and Molecular Biology, University of Georgia, 220 Riverbend Road, Athens, GA 30602-4712, USA

Core of XXGG-type oligoglycosyl alditols from tomato cells.



Alkaline degradation kinetics and CE-separation of cello- and xylooligomers. Part I

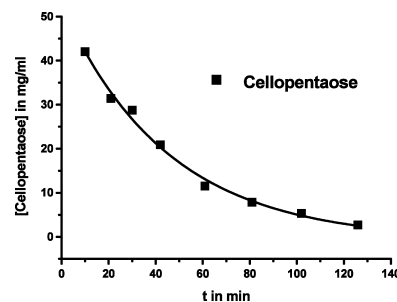
Carbohydr. Res. **2003**, *338*, 1209

Jürgen Sartori,^a Antje Potthast,^a Alois Ecker,^b Herbert Sixta,^b Thomas Rosenau,^a Paul Kosma^a

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^b*Research & Development, Lenzing AG, Lenzing, Austria*

The kinetics of the alkaline degradation of cello- and xylooligosaccharides was studied, activation parameters were determined, and the system was modeled mathematically.

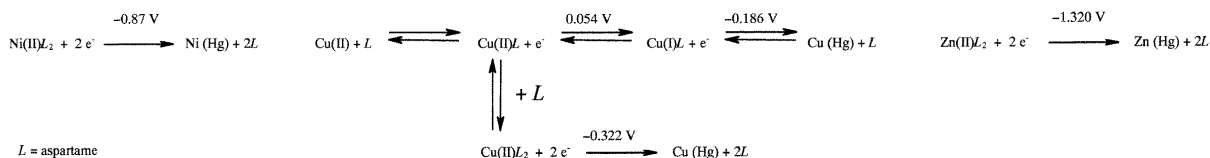


Electrochemical study of the complexes of aspartame with Cu(II), Ni(II) and Zn(II) ions in the aqueous medium

Carbohydr. Res. **2003**, *338*, 1217

Semiha Çakir, Emine Coskun, Ender Biçer, Osman Çakir

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Structural analysis of the lipooligosaccharide from the commensal *Haemophilus somnus* strain 1P

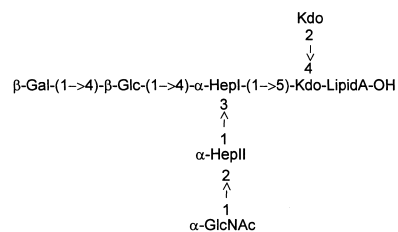
Carbohydr. Res. **2003**, 338, 1223

Andrew D. Cox,^a Michael D. Howard,^b Thomas J. Inzana^b

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^b*Center for Molecular Medicine and Infectious Diseases, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0342, USA*

The structure of the lipooligosaccharide (LOS) from the commensal *Haemophilus somnus* strain 1P was elucidated as:



Two different molecular conformations found in chitosan type II salts

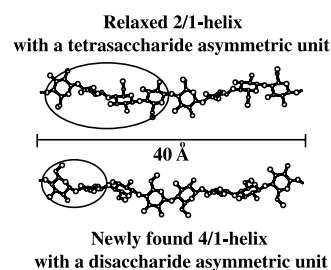
Carbohydr. Res. **2003**, 338, 1229

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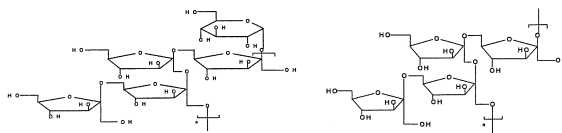
Structural elucidation and antitumor activity of a fructan from *Cyathula officinalis* Kuan

Carbohydr. Res. **2003**, 338, 1235

Xiao-Ming Chen, Geng-Yuan Tian

State Key Laboratory of Bio-organic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Academia Sinica, Shanghai 200032, PR China

A fructan named CoPS3 was isolated from *Cyathula officinalis* Kuan. Bioassay showed that the fructan could inhibit growth of Lewis pulmonary carcinoma implanted in mice. The structures of CoPS3 are shown as follows.



Efficient nitrogen alkylation with carbohydrate

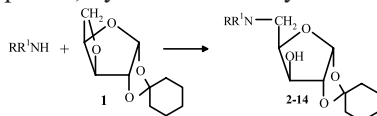
Carbohydr. Res. **2003**, 338, 1243

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^b*Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, 11000 Belgrade, Serbia and Montenegro, Yugoslavia*

RR¹NH: primary or secondary aliphatic, cyclic or heterocyclic amine or alkaloid.



Structural determination of the O-specific chain of the lipopolysaccharide from the mushrooms pathogenic bacterium *Pseudomonas tolaasii*

Antonio Molinaro,^a Emiliano Bedini,^a Renata Ferrara,^a Rosa Lanzetta,^a Michelangelo Parrilli,^a Antonio Evidente,^b Pietro Lo Cantore,^c Nicola Sante Iacobellis^c

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^bDipartimento di Scienze del Suolo, della Pianta e dell'Ambiente, Università di Napoli "Federico II", Via Università 100, 80055 Portici, Italy

^cDipartimento di Biologia, Difesa e Biotecnologie Agro Forestali, Università degli Studi della Basilicata, C. da Macchia Romana, 85100 Potenza, Italy

→4)-α-L-GulpNAc3AcAN-(1→3)-β-D-QuipNAc-(1→4)-α-L-GulpNAcAN-(1→3)-β-D-QuipNAc-(1→