

Structure and solution equilibria of D-glucose and D-mannose sulfite adducts

Carbohydr. Res. **2001**, *335*, 1

Edward R. Cole, Donald C. Craig, Lyn J. Fitzpatrick, D. Brynn Hibbert, John D. Stevens

School of Chemistry, University of New South Wales, Sydney 2052, Australia

X-Ray structures and NMR spectra have been used to determine the solid-state structures, solution-state structures and conformations of sulfite adducts.

Cloning, sequence analysis and expression of *Pseudoalteromonas elyakovii* IAM 14594 gene (*alyPEEC*) encoding the extracellular alginate lyase

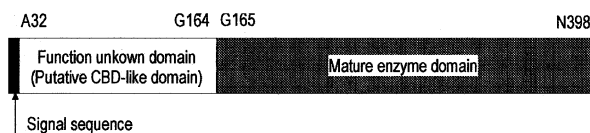
Carbohydr. Res. **2001**, *335*, 11

Tomoo Sawabe,^a Hiromasa Takahashi,^a Yoshio Ezura,^a Peter Gacesa^b

^a*Laboratory of Microbiology, Graduate School of Fisheries Sciences, Hokkaido University, 3-1-1 Minato-cho, Hakodate 041-8611, Japan*

^b*Faculty of Science and Engineering, The Manchester Metropolitan University, John Dalton Building, Chester Street, Manchester M1 5GD, UK*

The putative domain structure of the gene *alyPEEC* encoding the novel extracellular alginate lyase with broad substrate specificity of *Pseudoalteromonas elyakovii* was proposed to be comprised of three parts: (1) signal sequence; (2) function unknown-chitin binding domain-like domain A32-G164; (3) mature enzyme domain, G165-N398.



(Chemo)enzymatic synthesis of dTDP-activated 2,6-dideoxysugars as building blocks of polyketide antibiotics

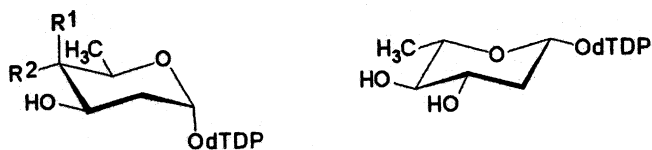
Carbohydr. Res. **2001**, *335*, 23

Stefan Amann,^a Gerald Dräger,^b Carsten Rupprath,^a Andreas Kirschning,^b Lothar Elling^a

^a*Institute of Enzyme Technology, Heinrich-Heine-University, Düsseldorf Research Center Jülich, D-52426 Jülich, Germany*

^b*Institute of Organic Chemistry, University of Hannover, D-30167 Hannover, Germany*

The enzymes from the dTDP-β-L-rhamnose pathway yielded valuable dTDP-activated 2,6-dideoxyhexoses.



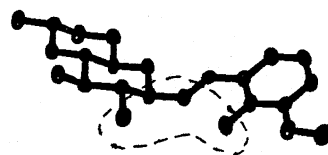
Synthesis, characterisation and crystal structures of Schiff bases from the reaction of 4,6-O-ethylidene-β-D-glucopyranosylamine with substituted salicylaldehydes

Carbohydr. Res. **2001**, *335*, 33

Ajay K. Sah,^a Chebrolu P. Rao,^a Pauli K. Saarenketo,^b Erkki Kolehmainen,^b Kari Rissanen^b

^a*Bioinorganic Laboratory, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400 076, India*

^b*Department of Chemistry, University of Jyväskylä, Jyväskylä Fin 40351, Finland*



The structure of a polysaccharide from infectious strains of *Burkholderia cepacia*

Carbohydr. Res. **2001**, *335*, 45

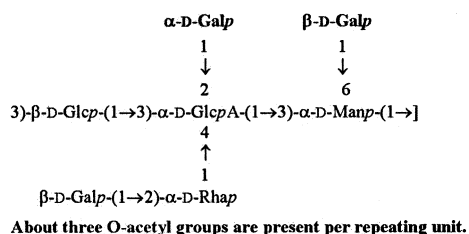
Alfred Linker,^{a,b} Leigh R. Evans,^a Giuseppe Impallomeni^c

^aVeterans Affairs (VA), Salt Lake City Health Care System, 500 Foothill Boulevard (151E), Salt Lake City, UT 84124, USA

^bDepartments of Pathology and Biochemistry, University of Utah, Salt Lake City, UT 84148, USA

^cIstituto per la Chimica e la Tecnologia dei Materiali Polimerici, Consiglio Nazionale delle Ricerche, Viale A. Doria 6, I-95125 Catania, Italy

About three *O*-acetyl groups are present per repeating unit.

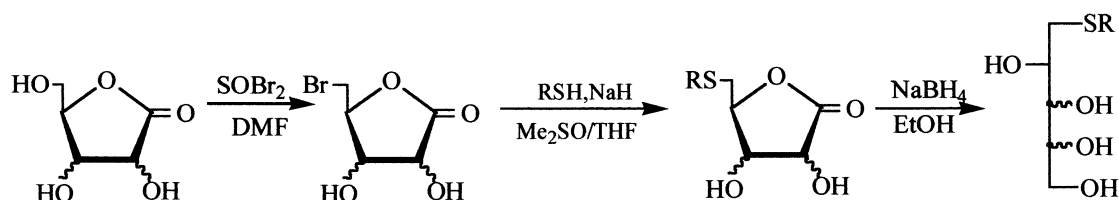


Efficient syntheses of 1-*S*-alkyl-1-thio-L-ribitols, D-lyxitols and L-xylitols from D-pentono-1,4-lactones

Carbohydr. Res. **2001**, *335*, 55

Jérôme Lalot, Gaëtane Manier, Imane Stasik, Gilles Demailly, Daniel Beaupère

Laboratoire des Glucides, Université de Picardie Jules Verne, 33 rue Saint-Leu, F-80039 Amiens, France



DIBALH mediated reduction of the acetal moiety on perhydrofuro[2,3-*b*]pyran derivatives

Carbohydr. Res. **2001**, *335*, 63

José Marco-Contelles, Juliana Ruiz-Caro

Laboratorio de Radicales Libres, Instituto de Química Organica General, CSIC, C/Juan de la Cierva 3, ES-28006 Madrid, Spain

