



ELSEVIER

CARBOHYDRATE
RESEARCH

Carbohydrate Research 278 (1995) C11–C13

CONTENTS

Regular papers

- High-performance liquid chromatographic separation of oligogalacturonic acids on a cyclomaltoheptaose (β -cyclodextrin) bonded-phase column
P.J. Simms, A.T. Hotchkiss, Jr, P.L. Irwin and K.B. Hicks (Philadelphia, PA, USA) 1
- The dependence of glucan conformational dynamics on linkage position and stereochemistry
D.A. Brant, H.-S. Liu and Z.S. Zhu (Irvine, CA, USA) 11
- Hydration of α -maltose and amylose: molecular modelling and thermodynamics study
C. Fringant (Grenoble, France), I. Tvaroska (Bratislava, Slovak Republic), K. Mazeau, M. Rinaudo and J. Desbrieres (Grenoble, France) 27
- 4,6-*O*-Benzylidene-D-glucopyranose and its sodium salt: new data on their preparation and properties
P.L. Barili, G. Berti, G. Catelani, C. Cini, F. D'Andrea and E. Mastrorilli (Pisa, Italy) 43
- Conversion of D-glucose to D-erythro-hexos-2,3-diulose (2,3-diketo-D-glucose) by enzyme preparations from the basidiomycete *Oudemansiella mucida*
J. Volc, P. Sedmera, V. Havlíček, V. Přikrylová (Prague, Czech Republic) and G. Daniel (Uppsala, Sweden) 59
- Oxidation–reduction sequence for the synthesis of peracylated fluorodeoxy pentofuranosides
I.A. Mikhailopulo, G.G. Sivets, N.E. Poopeiko and N.B. Khripach (Minsk, Byelorussia) 71
- Synthesis and surface-active properties of some alkyl 2-amino-2-deoxy- β -D-glucopyranosides
P. Boullanger (Villeurbanne, France), Y. Chevalier (Vernaison, France), M.-C. Croizier, D. Lafont and M.-R. Sancho (Villeurbanne, France) 91
- Synthesis of the tetrasaccharide repeating unit of the antigen from *Klebsiella* type 2
A.K. Misra and N. Roy (Calcutta, India) 103
- Larch arabinogalactan for hepatic drug delivery: isolation and characterization of a 9 kDa arabinogalactan fragment
J.H. Prescott, P. Enriquez, C. Jung, E. Menz and E.V. Groman (Cambridge, MA, USA) 113
- Isolation and characterization of novel heterogeneous branched cyclomalto-oligosaccharides (cyclodextrins) produced by transgalactosylation with α -galactosidase from coffee bean
K. Koizumi, T. Tanimoto, Y. Okada (Nishinomiya, Japan), K. Hara, K. Fujita, H. Hashimoto (Yokohama, Japan) and S. Kitahata (Osaka, Japan) 129
- Structural studies of the extracellular polysaccharide from *Butyrvibrio fibrisolvens* strain 49
F. Ferreira (Montevideo, Uruguay), M. Andersson (Södertälje, Sweden), L. Kenne (Uppsala, Sweden), M.A. Cotta (Peoria, IL, USA) and R.J. Stack (Alameda, CA, USA) 143

NMR investigation of the 6-deoxy-L-talose-containing O45, O45-related (O45rel), and O66 polysaccharides of <i>Escherichia coli</i> B. Jann, A. Shashkov, V. Torgov, H. Kochanowski (Freiburg, Germany), G. Seltmann (Wernigerode, Germany) and K. Jann (Freiburg, Germany)	155
Analogues of disaccharides and glycosides containing a cyclic guanidinium structure show varying inhibitory effects on glycoside hydrolases J. Lehmann, B. Rob and H.-A. Wagenknecht (Freiburg, Germany)	167
<i>Note</i>	
A reinvestigation of the derivatization of monosaccharides as aldononitrile peracetates I.B. Niederer, G.G.G. Manzardo and R. Amadò (Zurich, Switzerland).	181
<i>Information for authors</i>	C1
<i>Regular papers</i>	
Molecular and crystal structures of two 1,6-anhydro- β -maltotriose derivatives S. Kamitori, K. Itazu, K. Noguchi, K. Okuyama (Tokyo, Japan), S. Kitamura, K. Takeo (Kyoto, Japan) and S. Ohno (Kobe, Japan)	195
A conformational model for cyclic β -(1 $\rightarrow$ 2)-linked glucans based on NMR analysis of the β -glucans produced by <i>Xanthomonas campestris</i> W.S. York (Athens, GA, USA)	205
A ^{13}C and ^{183}W NMR study of D-glycero-D-gulo-heptonic acid as a multisite ligand in tungstate complexes M. Hlaïbi (Mont-Saint-Aignan, France), M. Benaïssa (Casablanca, Morocco), C. Busatto, J.-F. Verchère and S. Chapelle (Mont-Saint-Aignan, France)	227
Multinuclear magnetic resonance studies of the interaction of inorganic cations with heparin D.L. Rabenstein, J.M. Robert and J. Peng (Riverside, CA, USA)	239
Synthesis of deoxy derivatives of the glucosinolates glucotropaeolin and glucobrassicin H. Streicher (Hamburg, Germany), L. Latxague (Orléans, France), T. Wiemann (Hamburg, Germany), P. Rollin (Orléans, France) and J. Thiem (Hamburg, Germany)	257
Syntheses of deoxy analogues of methyl 3,6-di-O- α -D-mannopyranosyl- α -D-mannopyranoside for studies of the binding site of Concanavalin A S. Oscarson and U. Tedebark (Stockholm, Sweden)	271
Synthesis of 2-(4-aminophenyl)ethyl 3-deoxy-5-O-(3,4,6-tri-O- β -D-glucopyranosyl- α -D-glucopyranosyl)- α -D-manno-oct-2-ulopyranosidonic acid, a highly branched pentasaccharide corresponding to structures found in lipopolysaccharides from <i>Moraxella catarrhalis</i> K. Ekelöf and S. Oscarson (Stockholm, Sweden)	289
Synthesis of (1 $\rightarrow$ 4)- β -D-xylo-oligosaccharides of dp 4–10 by a blockwise approach K. Takeo, Y. Ohguchi, R. Hasegawa and S. Kitamura (Kyoto, Japan)	301
Complexes of Co(III) with L-sorbose and phenanthroline A. Blaskó, C.A. Bunton (Santa Barbara, CA, USA), E. Moraga, S. Bunel and C. Ibarra (Santiago, Chile)	315
Reductive cleavage of glycosides with borane complexes in the presence of boron trifluoride etherate I.H. Oh and G.R. Gray (Minneapolis, MN, USA)	329

Notes

Determination of the cellulose I α allomorph content in a tunicate cellulose by CP/MAS ^{13}C -NMR spectroscopy

P.T. Larsson, U. Westermark and T. Iversen (Stockholm, Sweden) 339

Carbohydrate *N*-phosphinyl imine derivatives: synthesis and conversion to amino sugars

R.M. Giuliano, V.E. Manetta and G.R. Smith (Villanova, PA, USA) 345

Synthesis of 2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 $\rightarrow$ 2)- α -D-mannopyranosyl-(1 $\rightarrow$ 6)- β -D-mannopyranosyl-(1 $\rightarrow$ 4)-2-acetamido-2-deoxy-D-glucopyranose. Acceptor-substrate recognition by *N*-acetylglucosaminyltransferase-V (GnT-V)

S.H. Khan and K.L. Matta (Buffalo, NY, USA) 351

Thermal transfer of fructosyl residues to amylopectin and soluble starch during the melt thermolysis of sucrose

M. Manley-Harris and G.N. Richards (Missoula, MT, USA) 363

Author index C3

Subject index C5

Contents C11