

Contents

iii	Announcement
v	Graphical Abstracts

Regular papers

P. Cescutti (Trieste, Italy), D. Garozzo (Catania, Italy) and R. Rizzo (Trieste, Italy)	1	Effect of methylation of β -cyclodextrin on the formation of inclusion complexes with aromatic compounds. An ionspray mass spectrometry investigation
K.R. Holme and A.S. Perlin (Montreal, Canada)	7	Chitosan <i>N</i> -sulfate. A water-soluble polyelectrolyte
V. Petrović, S. Tomić, Đ. Ljevaković and J. Tomašić (Zagreb, Croatia)	13	Synthesis of acylated methyl β -D-xylopyranosides and their enzymic deacylations by rabbit serum esterases
P.T. Larsson, K. Wickholm and T. Iversen (Stockholm, Sweden)	19	A CP/MAS ^{13}C NMR investigation of molecular ordering in celluloses
E. Tarelli (London, UK), X. Lemerminier and S. Wheeler (Potters Bar, UK)	27	Direct preparation of cyclodextrin monophosphates
E. Samain, S. Drouillard, A. Heyraud, H. Driguez and R.A. Geremia (Grenoble, France)	35	Gram-scale synthesis of recombinant chitoooligosaccharides in <i>Escherichia coli</i>
I.D. Spiers, C.H. Schwalbe (Birmingham, UK), A.J. Blake (Edinburgh, UK), K.R.H. Solomons and S. Freeman (Manchester, UK)	43	Structure of ($\pm$)-1,2,4,5-di- <i>O</i> -cyclohexylidene <i>myo</i> -inositol and synthesis of <i>myo</i> -inositol 3-phosphate via its phosphorylation with (2 <i>R</i> ,4 <i>S</i> ,5 <i>R</i>)-2-chloro-3,4-dimethyl-5-phenyl-1,3,2-oxazaphospholidin-2-one
J.-Y. Le Questel, N. Mouhous-Riou (Nantes, France), B. Boubia, S. Samreth, V. Barberousse (Daix, France) and S. Pérez (Nantes, France)	53	The crystal and molecular structures of 4-cyanophenyl 1,5-dithio- β -D-xylopyranoside S-5 oxide and 4-ethyl-2-oxo-2 <i>H</i> -1-benzopyran-7-yl 5-thio- β -D-xylopyranoside S-5 oxide
C. Delay (Montpellier, France), J.A. Gavin (La Laguna, Spain), A. Aumelas, P.-A. Bonnet and C. Roumestand (Montpellier, France)	67	Isolation and structure elucidation of a highly haemolytic saponin from the Merck saponin extract using high-field gradient-enhanced NMR techniques
R. Stenutz, B. Erbing, G. Widmalm (Stockholm, Sweden), P.-E. Jansson (Huddinge, Sweden) and W. Nimmich (Rostock, Germany)	79	The structure of the capsular polysaccharide from <i>Klebsiella</i> type 52, using the computerised approach CASPER and NMR spectroscopy
S. Engelmann and R. Schwartz-Albiez (Heidelberg, Germany)	85	Differential release of proteoglycans during human B lymphocyte maturation
H. Zheng (Xinxiang Henan, People's Republic of China)	97	Interaction mechanism in sol–gel transition of alginate solutions by addition of divalent cations
Notes		
F. Santini, A. Bisio, M. Guerrini and E.A. Yates (Milan, Italy)	103	Modifications under basic conditions of the minor sequences of heparin containing 2,3 or 2,3,6 sulfated D-glucosamine residues
H. Stampe Jensen, G. Limberg and C. Pedersen (Lyngby, Denmark)	109	Benzylation of aldonolactones with benzyl trichloroacetimidate
A.B. Roy and M.J.E. Hewlins (Cardiff, UK)	113	Sulfoquinovose and its aldonic acid: their preparation and oxidation to 2-sulfoacetaldehyde by periodate
119	Book reviews	
iii	Graphical Abstracts	

Regular papers

- V. Martichonok and G.M. Whitesides (Cambridge, MA, USA) 123 Studies on α -sialylation using sialyl donors with an auxiliary 3-thiophenyl group
- S.B. Etcheverry, P.A.M. Williams and E.J. Baran (La Plata, Argentina) 131 Synthesis and characterization of oxovanadium(IV) complexes with saccharides
- M. Masuda and T. Shimizu (Ibaraki, Japan) 139 Non-mesogenic crystal structure of a synthetic 1-D-glucosamide bolaamphiphile
- É. Bozó, S. Boros and J. Kuszmann (Budapest, Hungary) 149 Synthesis of 4-cyanophenyl 4-azido-4-deoxy-1,5-dithio- β -D-xylopyranoside
- C. Blum (Illkirch, France), N. Rehnberg (Perstorp, Sweden), B. Spiess and G. Schlewer (Illkirch, France) 163 Synthesis of optically active *myo*-inositol derivatives starting from phytic acid
- L. Vachoud, N. Zydowicz and A. Domard (Villeurbanne, France) 169 Formation and characterisation of a physical chitin gel
- D. Florea (Bucarest, Romania), E. Maes and G. Strecker (Villeneuve d'Ascq, France) 179 Primary structure of seven sulfated oligosaccharide-alditols released by reductive β -elimination from oviducal mucins of *Rana temporaria*. Characterization of the sequence HSO₃(3) GlcA(β 1-3)Gal
- P. Christakopoulos (Athens, Greece; Gent, Belgium), W. Nerinckx (Gent, Belgium), D. Kekos, B. Macris (Athens, Greece) and M. Claeysens (Gent, Belgium) 191 The alkaline xylanase III from *Fusarium oxysporum* F3 belongs to family F/10
- F. Stingle (Lausanne, Switzerland), J. Lemoine (Villeneuve d'Ascq, France) and J.-R. Neeser (Lausanne, Switzerland) 197 *Lactobacillus helveticus* Lh59 secretes an exopolysaccharide that is identical to the one produced by *Lactobacillus helveticus* TN-4, a presumed spontaneous mutant of *Lactobacillus helveticus* TY1-2
- D.L. Verraest, J.A. Peters (Delft, The Netherlands), H.C. Kuzee, H.W.C. Raaijmakers (Roosendaal, The Netherlands) and H. Van Bakkum (Delft, The Netherlands) 203 Distribution of substituents in *O*-carboxymethyl and *O*-cyanoethyl ethers of inulin
- J. Li and G. Gellerstedt (Stockholm, Sweden) 213 The contribution to kappa number from hexeneuronic acid groups in pulp xylan

Notes

- K. Ogawa, T. Watanabe (Fukushima, Japan), Y. Ikeda and S. Kondo (Tokyo, Japan) 219 A new glycoside, 1D-2-*O*- α -D-galactopyranosyl-*chiro*-inositol from jojoba beans
- H. Ishida, Y. Ito, E. Tanahashi (Gifu, Japan), Y.-T. Li (New Orleans, USA), M. Kiso and A. Hasegawa (Gifu, Japan) 223 Synthesis of 6'-GM2, a regioisomer of ganglioside GM2, for studying the mechanism of action of GM2 activator
- Z. Györgydeák (Debrecen, Hungary), W. Holzer (Wien, Austria) and J. Thiem (Hamburg, Germany) 229 Cyclization reactions of *N*¹-(glycopyranosylamino)guanidines
- G.B. Kok and M. von Itzstein (Parkville, Australia) 237 A regio- and stereo-selective introduction of azide at C-4 of 2,3-unsaturated *N*-acetylneuraminic acids
- I. Molina Pinilla, M. Bueno Martínez and J.A. Galbis (Sevilla, Espagne) 241 Synthesis and condensation reactions of 1-amino-1-deoxy-2,3,4-tri-*O*-methyl-5-*O*-[(pentachlorophenoxy)phthaloyl]-L-arabinitol
- Z. Hameršak, N. Pavlović, V. Delić and V. Šunjić (Zagreb, Croatia) 245 Regio- and stereo-selectivity in homogeneous catalytic hydrogenation of 2,5-diketo-D-*threo*-hexonic acid
- 251 Book review
- 253 Announcements
- I Author index
- III Subject index
- VII Contents