

SUBJECT INDEX

- Acylated tri- and tetra-saccharides with one thioureylene group, synthesis, 137
- AIDS virus infection, synthesis of sulfated alkyl maltooligosaccharides with potent inhibitory effects on, 51
- Alginate block specificity of mannuronate lyase from *Haliotis*, a numerical model, 83
- D-Allonitrile, preparation from D-glucose of 2,5-anhydro-3,4,6-tri-O-benzoyl-, 145
- Amyloses and the fine structures of amylopectins of native starches, simultaneous determinations of the molecular weight distributions of, 99
- Anhydro-L-iditol, a facile isolation of 2,5-, 155
- 2,5-Anhydro-3,4,6-tri-O-benzoyl-D-allonitrile, preparation from D-glucose, 145
- Antigenic chain of the lipopolysaccharide of *Rhizobium trifolii* 4s, structure of the, 305
- endo-(1 → 5)- α -L-Arabinase (EC 3.2.1.99) activity measurement in column chromatography eluate, 131
- Azidophenylselenation, 319
- Bacillus circulans* OKUMZ 31B, purification and some properties of cycloinulo-oligosaccharide fructanotransferase from, 297
- Biological activities and synthesis of (4,6-di-O-phosphonato- β -D-mannopyranosyl)methylphosphonate as an analogue of 1L-myo-inositol 1,4,5-triphosphonate, 39
- Biosynthesis of N-linked oligosaccharides in *Dictyostelium discoidium*, synthesis of octyl 2-O- α -D-mannopyranosyl- α -D-mannopyranoside, its 6'-phosphate and the corresponding monomethyl phosphodiester: intermediate structure in the, 63
- Ceratozamia spinosa* mucilage, structural investigation, 259
- Cercidium praecox*, chemical and spectroscopic studies of, 17
- Charge-fractionated dermatan sulfate samples, structural analysis and physico-chemical properties of, 159
- Chemical and spectroscopic studies of *Cercidium praecox* gum exudate, 17
- Chitooligosaccharide derivatives possessing immunostimulating and antitumor activities, new glycolipids, 73
- Crystal structure, 27
- Crystal structure of a complex of α -cyclodextrin with 2-fluoro-4-nitrophenol \cdot 3H₂O, 169
- α -Cyclodextrin-(benzyl alcohol)₂-hexahydrate, 27
- α -Cyclodextrin, crystal structure of a complex with 2-fluoro-4-nitrophenol \cdot 3H₂O, 169
- Cycloinulo-oligosaccharide fructanotransferase from *Bacillus circulans* OKUMZ 31B, purification and some properties, 297
- Cyclomaltoheptaose (β -cyclodextrin, β -CD) and its methylated derivative, ¹³C NMR study on peracetylated derivatives of, 181
- Cyclomaltohexaose (α -cyclodextrin), 27
- Decycling maltodextrinase of *Flavobacterium* sp., studies of the degradation of pullulan by the, 119
- 3-Deoxy-D-glycero-D-galacto-non-2-ulosonic acid (KDN) derivatives, 233
- Deoxy sugar trisaccharides, one-pot synthesis of α -linked, 219
- Dermatan sulfate samples, structural analysis and physico-chemical properties of charge-fractionated, 159
- Di-(3-deoxy-D-glycero-pentulose) 1,2':2,1' dianhydride, an NMR, X-ray crystal structure, and molecular mechanics study of, 1
- Dictyostelium discoidium*, synthesis of octyl 2-O- α -D-mannopyranosyl- α -D-mannopyranoside, its 6'-phosphate and the corresponding monomethyl phosphodiester: intermediate

- structures in the biosynthesis of N-linked oligosaccharides in, 63
- L-Digitoxose, one-pot synthesis of trisaccharides composed of α -linked residues of, 219
- (4,6-Di-O-phosphonato- β -D-mannopyranosyl) methylphosphonate, synthesis and biological activities as an analogue of 1L-myo-inositol 1,4,5-triphosphate, 39
- Disaccharides, 319
- Facile isolation of 2,5-anhydro-L-iditol, 155
- Fluorocellulose, preparation of 6-deoxy-6-, 251
- 2-Fluoro-4-nitrophenol \cdot 3H₂O, crystal structure of a complex of α -cyclodextrin with, 169
- Fructanotransferase from *Bacillus ciculans* IKUMZ 31B, purification and some properties of cyclonulo-oligosaccharide, 297
- Ganglioside GQ1b, total synthesis of, C1
- Gelation properties of extruded lemon cell walls and their water-soluble pectins, 271
- Glycals, 319
- Glycolipids (chitooligosaccharide derivatives) possessing immunostimulating and antitumor activities, synthesis of new, 73
- Glyco-pyranoses and -furanoses oxidation to lactones with tetra-*n*-propyl ammonium tetra-oxoruthenate(VII), 243
- Gum exudate, chemical and spectroscopic studies of *Cercidium praecox*, 17
- Iditol, a facile isolation of 2,5-anhydro-L-, 155
- Immunostimulating and antitumor activities, new glycolipids (chitooligosaccharide derivatives) possessing, 73
- Inclusion complexes, 27
- 1L-myo-Inositol 1,4,5-triphosphate, synthesis and biological activities of (4,6-di-O-phosphonato- β -D-mannopyranosyl)methylphosphonate as an analogue of, 39
- Lactones from protected glyco-furanoses and -pyranoses by oxidation with tetra-*n*-propylammonium tetra-oxoruthenate, 243
- Lemon cell walls and their water-soluble pectins, gelation properties of extruded, 271
- Lemon cell walls, extraction and characterisation of very highly methylated pectins from, 283
- Lipopolysaccharide of *Rhizobium trifolii* 4s, structure of the O-antigenic chain of the, 305
- Maltodextrinase of *Flavobacterium* sp., studies of the degradation of pullulan by the decycling, 119
- Maltooligosaccharides with potent inhibitory effects on AIDS virus infection, synthesis of sulfated alkyl, 51
- α -D-Mannopyranoside, its 6'-phosphate and the corresponding monomethyl phosphodiester: intermediate structures in the biosynthesis of N-linked oligosaccharides in *Dictyostelium discoideum*, synthesis of octyl 2-O- α -D-mannopyranosyl-, 63
- α -D-Mannopyranoside, methyl 4,6-dideoxy-4-(3-deoxy-L-glycero-tetronamido), the methyl α -glycoside of the intracatenary repeating unit of the O-polysaccharide of *Vibrio cholerae* O:1, improved synthesis and crystal structure of, 203
- Mannuronate lyase from *Haliotis*, a numerical model for alginate block specificity of, 83
- Methylated pectins from lemon cell walls, extraction and characterisation of very highly, 283
- 3-O-Methyl- α -D-manno-, - α -D-galacto-, - α -L-rhamno-, and - α -L-fucopyranosides, methyl, single-step synthesis, 151
- Molecular weight distributions of amyloses and the fine structures of amylopectins of native starches, simultaneous determinations of the, 99
- Mucilage from *Ceratozamia spinosa*, structural investigation, 259
- NMR study on peracetylated derivatives of cyclomaltoheptaose (β -cyclodextrin, β -CD) and its methylated derivative, ¹³C, 181
- NMR, X-ray crystal structure, and molecular mechanics study of di-(3-deoxy-D-glycero-pentulose) 1,2':2,1' dianhydride, 1
- Numerical model for alginate block specificity of mannuronate lyase from *Haliotis*, 83
- Oligosaccharides, the use of 2-deoxy-2-trichloroacetamido-D-glucopyranose derivatives in syntheses of, 189
- Pectins from lemon cell walls, extraction and characterisation of very highly methylated, 283
- Pectins, gelation properties of extruded lemon cell walls and their water-soluble, 271
- Peracetylated derivatives of cyclomaltoheptaose (β -cyclodextrin, β -CD) and its methylated derivative, ¹³C NMR study on, 181

- Polysaccharide fraction from *Ceratozamia spinosa* mucilage, structural investigation, 259
- O-Polysaccharide of *Vibrio cholerae* O:1, improved synthesis of the methyl glycoside of the repeating unit, 203
- Preparation of 6-deoxy-6-fluorocellulose, 251
- Pullulan, studies of degradation by the decycling maltodextrinase of *Flavobacterium* sp., 119
- Selenoglycosides, 319
- Starches, simultaneous determinations of the molecular weight distributions of amyloses and the fine structures of amylopectins of native, 99
- Structural analysis and physico-chemical properties of charge-fractionated dermatan sulfate samples, 159
- Structure of the O-antigenic chain of the lipopolysaccharide of *Rhizobium trifolii* 4s, 305
- Syntheses of oligosaccharides, the use of 2-deoxy-2-trichloroacetamido-D-glucopyranose derivatives, 189
- Synthesis of sulfated alkyl maltooligosaccharides with potent inhibitory effects on AIDS virus infection, 51
- Tetra-*n*-propylammonium tetra-oxoruthenate-(VII) in the oxidation of protected glycopyranoses and glycofuranoses to lactones, 243
- Thioureylene group, synthesis of acetylated tri- and tetra-saccharides with one, 137
- α,α -Trehalose 6-phosphate and 6,6'-diphosphate, gram-scale synthesis, 323
- Tri- and tetra-saccharides with one thioureylene group, synthesis of acylated, 137
- N*-Trichloroacetyl derivatives of 2-amino-2-deoxy-D-glucose, use in syntheses of oligosaccharides, 189
- Trisaccharides composed of α -linked 2,6-dideoxy-L-*ribo*-hexose residues, one-pot synthesis of, 219
- Vibrio cholerae* O:1 O-polysaccharide, improved synthesis of the methyl glycoside of the repeating unit, 203
- X-ray crystal structure, and molecular mechanics study of di-(3-deoxy-D-*glycero*-pentulose) 1,2' : 2,1' dianhydride, an NMR, 1