

SUBJECT INDEX

- N*-Acetylation, determination of chitin–chitosan samples of the degree of, 1
- α -*N*-Acetylneuraminic acid, structure of the polysaccharide component of the O56 antigen of *Escherichia coli* which contains 7-substituted, 261
- Acceptor for *N*-acetylglucosaminyltransferase-III, use of a synthetic dideoxygenated pentasaccharide as a specific, 339
- 2,3-Anhydro-4,6-*O*-benzylidene- α -D-allopyranoside, an alternative synthesis of methyl, using carbonate esters, 185
- 1,3-Anhydro- β -D-xylo-hexulofuranoside, α -D-glucopyranosyl, an intermediate in the alkaline hydrolysis of α -D-glucopyranosyl 3,4-anhydro- β -D-lyxo-hexulofuranoside, 321
- 6-*O*-Alkylcelluloses, preparation, 231
- Alkaline hydrolysis of α -D-glucopyranosyl 3,4-anhydro- β -D-lyxo-hexulofuranoside, formation of α -D-glucopyranosyl 1,3-anhydro- β -D-xylo-hexulofuranoside as an intermediate in the, 321
- Amylase, synthesis of modified 2-chloro-4-nitrophenyl β -maltopentaosides as useful substrates for assay of human alpha, 109
- Amylases, syntheses of subtractively modified 2-chloro-4-nitrophenyl β -maltopentaosides, and their application to the differential assay of human, alpha-, 193
- Antigen of *Escherichia coli*, structure of the neuraminic acid-containing O24 polysaccharide, 335
- Antigen of *Escherichia coli*, structure of the O56 polysaccharide that contains 7-substituted α -*N*-acetylneuraminic acid, 261
- Building block that is part of xylose-containing carbohydrate chains from N-glycoproteins, synthesis of a selectively protected trisaccharide, 135
- Carbonate esters, an alternative synthesis of methyl 2,3-anhydro-4,6-*O*-benzylidene- α -D-allopyranoside using, 185
- Carrageenans from *Gigartina skottsbergii*, determination of the structures of cystocarpic, by methylation analysis and NMR spectroscopy, 241
- Celluloses, 6-*O*-alkyl (ethyl, methyl), preparation, 231
- Chitin, determination of the degree of *N*-acetylation of, 1
- Chitosan, determination of the degree of *N*-acetylation of, 1
- Chitosan via coupled size-exclusion chromatography and multiple-angle laser light-scattering technique, characterization of, 16
- Conformational analysis of saccharides using a Monte Carlo method, 49
- Copolymers of poly(acrylamide) and modified Kdo residues, synthesis and immunoreactivity of, 93
- Crystal and molecular structure of deca-*O*-acetyl-1-*galacto*-1-*gulo*-decitol, 313
- Crystal and molecular structure of octa-*O*-acetyl-1-*threo*-D-*galacto*-octitol, 317
- Cyclomalto-oligosaccharides having β -D-galactosyl residue(s) on the side chain, preparation, isolation, and characterization of novel heterogeneous branched, 75
- Decitol, crystal and molecular structure of deca-*O*-acetyl-1-*galacto*-1-*gulo*-, 313
- Dideoxygenated pentasaccharide as a specific acceptor for *N*-acetylglucosaminyltransferase-III, use of a synthetic, 339
- Encephalartos longifolius*, further hydrolytic studies of the gum exudate of, 249
- Enzymic *de novo* synthesis of D-tagatose 1,6-bisphosphate, 287
- Fluoro- and 5-deoxy-5,5-difluoro-netilmicin, synthesis of 5- deoxy-5-, 147
- Galacturonic regions in pectins, studies by acid hydrolysis of the length of homo-, 271

- α -D-Glucopyranosyl 1,3-anhydro- β -D-xylo-hexulofuranoside, an intermediate in the alkaline hydrolysis of α -D-glucopyranosyl 3,4-anhydro- β -D-lyxo-hexulofuranoside, 321
- D-Glucose derivatives, esterification of, by oxolinic acid, 327
- Glycopyranosides and of their conjugates with poly(L-glutamic acid) having a 2-(4-hydroxyphenyl)ethylamino group for radiolabeling, synthesis of 8-aminoctyl, 163
- Gum exudate of *Encephalartos longifolius*, further hydrolytic studies, 249
- High-performance anion-exchange chromatography of saturated and unsaturated oligogalacturonic acids, 307
- Homogalacturonic regions in pectins, studies of the length by acid hydrolysis, 271
- Hydrolytic studies of the gum exudate of *Encephalartos longifolius*, further, 249
- Kdo residues, modified, synthesis and immunoreactivity of poly(acrylamide) copolymers containing, 93
- Light-scattering technique, characterization of chitosan via coupled size-exclusion chromatography and multiple-angle laser, 16
- Low molecular weight carbohydrates, melting and glass transitions of, 39
- β -Maltopentaosides as useful substrates for assay of human alpha amylase, synthesis of modified 2-chloro-4-nitrophenyl, 109
- β -Maltopentaosides, syntheses of subtractively modified 2-chloro-4-nitrophenyl, and their application to the differential assay of human alpha-amylases, 193
- Melting and glass transitions of low molecular weight carbohydrates, 39
- Methyl 2,3-anhydro-4,6-O-benzylidene- α -D-allypyranoside, an alternative synthesis of methyl, using carbonate esters, 185
- Methylation analysis and NMR spectroscopy, determination of the structures of cystocarpic carrageenans from *Gigartina skottsbergii* by, 241
- Molecular and crystal structure of deca-O-acetyl-L-galacto-L-gulo-decitol, 313
- Molecular and crystal structure of octa-O-acetyl-L-threo-D-galacto-octitol, 317
- Monte Carlo method for conformational analysis of saccharides, 49
- Netilmicin, synthesis of 5-deoxy-5-fluoro- and 5-deoxy-5,5-difluoro-, 147
- Neuraminic acid-containing polysaccharide, structure of the O24 antigen of *Escherichia coli*, 335
- NMR and rheological studies of the agarose-carob galactomannan blend, 27
- NMR spectroscopy and methylation analysis, determination of the structures of cystocarpic carrageenans from *Gigartina skottsbergii* by, 241
- Octitol, crystal and molecular structure of octa-O-acetyl-L-threo-D-galacto-, 317
- Oligogalacturonic acids, saturated and unsaturated, high-performance anion-exchange chromatography of, 307
- Oxolinic acid, esterification of D-glucose derivatives by, 327
- Palmitic acid, 2,3- and 2,3'-diesters with α,α -trehalose, synthesis, 215
- Pectins, studies of the length of homogalacturonic regions by acid hydrolysis, 271
- Poly(acrylamide) copolymers containing modified Kdo residues, 93
- Poly(L-glutamic acid) having a 2-(4-hydroxyphenyl)ethylamino group for radiolabeling, synthesis of 8-aminoctyl glycopyranosides and of their conjugates with, 163
- Polysaccharide containing neuraminic acid, structure of the O24 antigen of *Escherichia coli*, 335
- Polysaccharide containing 7-substituted α -N-acetylneuraminic acid, a component of the O56 antigen of *Escherichia coli*, 261
- Size-exclusion chromatography and multiple-angle laser light-scattering technique, characterization of chitosan via coupled, 16
- Stearic acid, 2,3- and 2,3'-diesters with α,α -trehalose, synthesis, 215
- Subtractively modified 2-chloro-4-nitrophenyl β -maltopentaosides and their application to the differential assay of human alpha-amylases, syntheses of, 193
- Synergy of the agarose carob galactomannan blend, 27
- Synthesis of 8-aminoctyl glycopyranosides and of their conjugates with poly(L-glutamic acid) having a 2-(4-hydroxyphenyl)ethylamino group for radiolabeling, 163
- Synthesis of 5-deoxy-5-fluoro- and 5-deoxy-5,5-difluoro-netilmicin, 147
- Synthesis of modified 2-chloro-4-nitrophenyl β -maltopentaosides as useful substrates for assay of human alpha amylase, 109

- D-Tagatose 1,6-bisphosphate, facile enzymic *de novo* synthesis and NMR spectroscopic characterization, 287
- Transitions of low molecular weight carbohydrates, melting and glass, 39
- α,α -Trehalose 2,3- and 2,3'-diesters with palmitic and stearic acid: potential immunoreactants for the serodiagnosis of tuberculosis, synthesis of, 215
- Trisaccharides building block that is part of xylose-containing carbohydrate chains from N-glycoproteins, synthesis of a selectively protected, 135
- Tuberculosis, potential immunoreactants for the serodiagnosis of, 215
- Xylose-containing carbohydrate chains from N-glycoproteins, synthesis of a selectively protected trisaccharide building block that is part of, 135