CARBOHYDRATE RESEARCH, VOL. 125 (1984)

SUBJECT INDEX

- N-Acetylneuraminic acid, synthesis of trisaccharide containing, 47
- 6-O-Acetyl-2,3,4-trideoxy-α-DL-glycero-hex-2enopyranose, crystal and molecular structure of, 203
- Acid-catalyzed conversion of 2-O-(2-hydroxy-propyl)-D-glucose derivatives into 1,2-O-(1-methyl-1,2-ethanediyl)-D-glucose acetals. Studies related to O-(2-hydroxypropyl)cellulose, 265
- 3-Aminopropyl-bonded-phase silica, thin-layer chromatographic plates: their preparation, and application to sugar resolution, 1
- Amylose, complex with iodine, stability of the, 340
- Analysis of linkage positions in Saccharomyces cerevisiae D-mannans by the reductive-cleavage method, 301
- Anomeric position, synthesis of carbohydrates having phosphorus in the, C1
- Anomeric proton of carbohydrates, an n.m.r. spin-simulation study of the virtual long-range coupling of the, 161
- Antitumor activity and structure of an alkali-soluble polysaccharide from *Cordyceps ophioglos*soides, 107
- Antitumour polysaccharide from the brown seaweed Sargassum fulvellum, purification and chemical and physical characterisation of an, 97
- L-Ascorbic acid, dehydro-, synthesis and reactions of some hydrazones of, 77
- Attempt to derive the potential function for evaluation of the energy associated with the exo-anomeric effect, 155
- 2-Bromoethyl glycosides in glycoside synthesis: preparation of glycoproteins containing α -L-Fuc-(1 \rightarrow 2)-D-Gal and β -D-Gal-(1 \rightarrow 4)-D-GlcNAc, 237
- Brown seaweed Sargassum fulvellum, purification and chemical and physical characterisation of an antitumour polysaccharide from the, 97
- Carbohydrates having phosphorus in the anomeric position, synthesis of, C1
- Cassia renigera seed, investigations on partial structure of galactomannan "A" from, 336
- Cellulose, O-(2-hydroxypropyl)-, studies related to, 265

- Crystal and molecular structures of 6-*O*-acetyl-2,3,4-trideoxy-α-DL-*glycero*-hex-2-enopyranose and 3-*O*-(6-*O*-acetyl-2,3,4-trideoxy-α-L-*glycero*-hex-2-enopyranosyl)-1,2;5,6-di-*O*-isopropylidene-α-D-glucofuranose, 203
- Cycloamylose inclusion-complexes with *p*-substituted phenols, n.m.r. studies of, 65
- 2,4-Dideoxy-D-erythro-hexopyranose, synthesis of, 318
- 2,6-Dioxabicyclo[3.1.1]heptanes: 1,3-anhydro-2,4,6-tri-*O*-benzyl-2,3,6-tri-*O*-p-bromobenzyl-, and 2,4,6-tri-*O*-p-methylbenzyl-β-D-glucopyranose, improved synthesis of substituted, 165
- Effect of physical damage on the molecular structure of wheat starch, 117
- 3-β-D-Erythrofuranosyl-6,7-dimethyl-1-p-tolyl and -1-(p-chlorophenyl)-pyrazolo[3,4-b]quinoxaline C-nucleoside analogs, 85
- E.s.r. investigation of the oxidation of some polysaccharides by the hydroxyl radical, 217
- Exo-anomeric effect, an attempt to derive the potential function for evaluation of the energy associated with the, 155
- Fast-atom bombardment-mass spectrometry for the characterization of cello- and maltooligosaccharides, 309
- Fluoro derivatives of sucrose, synthesis of some, 247
- Fractionation and characterization of galactoxylomannan from Cryptococcus neoformans, 343
- Fucan from Lessonia nigrescens, structural studies of the water-soluble, 283
- Galactomannan "A" from Cassia renigera seed, investigations on partial structure of, 336
- Galactomannan, the system of, from the endosperm of the seed of *Gleditsia triacanthos*, 127
- Galactoxylomannan, from Cryptococcus neoformans, fractionation and characterization of, 343
- D-Glucofuranose, crystal and molecular structure of 3-O-(6-O-acetyl-2,3,4-trideoxy-α-L-glycero-hex-2-enopyranosyl)-1,2;5,6-di-O-isopropyl-idene-α-, 203

C10 SUBJECT INDEX

- β-D-Glucopyranose, 3-O-(6-O-acetyl-2,4-diazido-3-O-benzyl-2,4-dideoxy- α -D-glucopyranosyl)-1,6-anhydro-2,4-diazido-2,4-dideoxy-, a disaccharide having an unusual α -D-(1 \rightarrow 3) linkage, X-ray analysis of, 185
- Glucopyranose, improved synthesis of substituted 2,6-dioxabicyclo[3.1.1]heptanes: 1,3-anhydro-2,4,6-tri-*O*-benzyl-2,4,6-tri-*O*-p-bromobenzyl-, and 2,4,6-tri-*O*-p-methylbenzyl-β-D-glucopyranose, 165
- Glucopyranoside, methyl α and β -D-, 2,3:4,6-di-O-isopropylidene-, 329
- D-Glucose, 2-O-(2-hydroxypropyl)-, acidcatalyzed conversion of derivatives of, into 1.2-O-(1-methyl-1,2-ethanediyl)-D-glucose acetals, 265
- D-Glucose, 1.2-O-(1-methyl-1,2-ethanediyl)-, acid-catalyzed conversion of 2-O-(2-hydroxy-propyl)-D-glucose into acetals of, 265
- β-D-Glucuronic acid, crystalline, and its Na⁺, K⁺, and Rb⁺ salts, infrared spectra of, 13
- trans-Glycols, pyranoid, vicinal, preparative acetonation of, under kinetic control, 329
- Glycoproteins containing α -L-Fuc-(1 \rightarrow 2)-D-Gal and β -D-Gal-(1 \rightarrow 4)-D-GlcNAc, use of 2-bromoethyl glycosides in the synthesis of, 237 *N*-Glycoprotein sequences, synthesis of, 21
- Heparin, structural analysis of, by methylation and g.l.c.-m.s., preliminary results, 291
- D-erythro-Hexopyranose, 2,4-dideoxy-, synthesis of, 318
- Improved synthesis of substituted 2,6-dioxabicyclo[3.1.1]heptanes. 1,3-anhydro-2,4,6tri-*O*-benzyl-2,4,6-tri-*O*-*p*-bromobenzyl-, and 2,4,6-tri-*O*-*p*-methylbenzyl-β-D-glucopyranose, 165
- Inclusion-complexes with *p*-substituted phenols, n.m.r. studies of cycloamylose, 85
- Infrared spectra of crystalline β-D-glucuronic acid and its Na⁺, K⁺, and Rb⁺ salts, 13
- Intermediates in the L-type pentose phosphate cycle, a ¹³C-n.m.r. study of, 177
- Investigations on partial structure of galactomannan "A" from Cassia renigera seed, 336
- Lactosamine-containing oligosaccharides, synthesis of, 21
- Lactose, equilibrium of anomers of, 253
 Lactose, synthesis of myristoyl esters of, 253
 Lessonia nigrescens, structural studies of the water-soluble fucan from, 283
- D-Mannans, of Saccharomyces cerevisiae, analysis of linkage positions of, by the reductive-cleavage method, 301

Molecular structure of wheat starch, the effect of physical damage on the, 117

- 6-*O*-Mycoloyl and 6-*O*-corynomycolyl-α.α-trehalose, synthesis of, 323
- Myristoyl esters of lactose, synthesis of, 253
- α- and -β-NeuAc-(2 \rightarrow 6)-β-D-Galp-(1 \rightarrow 4)-GlcNAc, synthesis of, 47
- N.m.r. spin-simulation study of the virtual longrange coupling of the anomeric proton of carbohydrates, 161
- N m.r. studies of cycloamylose inclusion-complexes with *p*-substituted phenols, 65
- ¹³C-N.m r study of intermediates in the L-type pentose phosphate cycle, 177
- C-Nucleosides, analogs of, 85
- Oligosaccharides, cello- and malto-, fast-atom bombardment-mass spectrometry for the characterization of, 309
- Oxidation of some polysaccharides by the hydroxyl radical, an e.s.r. investigation of the, 217
- Pentose phosphate cycle, a ¹³C-n m.r study of intermediates in the I-type, 177
- Polysaccharide from *Cordyceps ophioglossoides*, structure and antitumor activity of an alkali-soluble, 107
- Polysaccharide, of mahua (Madhuca indica) flowers, structural studies on the, 145
- Polysaccharides, an e s r. investigation of the oxidation by the hydroxyl radical of some, 217
- Potential function for evaluation of the energy associated with the exo-anomeric effect, an attempt to derive the, 155
- Preparative acetonation of pyranoid, vicinal *trans*-glycols under kinetic control, methyl 2,3,4,6-di-*O*-isopropylidene-α- and -β-D-glucopyranoside, 329
- Purification and chemical and physical characterisation of an antitumour polysaccharide from the brown seaweed Sargassum fulvellum, 97
- Pyrazolo[3,4-*b*]quinoxaline, 3-*β*-D-erythrofuranosyl-6,7-dimethyl-1-*p*-tolyl-, 85
- Reductase, hydroxymethylglutaryl-coenzyme A, synthesis of intermediate of an inhibitor of, 318 D-Ribopyranose, 1,2,3,4-tetra-O-acctyl-5-deoxy-
- 5-C-[(R)- and (S)-isopropylphosphinyl]- α and - β -, synthesis of, 172
- Saccharides, penta- and octa-, synthesis of, 21 Stability of the amylose-iodine complex, 340
- Structural analysis of heparin by methylation and g.l.c.-m s : preliminary results, 291
- Structural studies of the water-soluble tucan from *Lessonia nigrescens*, 283

SUBJECT INDEX C11

- Structural studies on the polysacchande of mahua (Madhuca indica) flowers, 145
- Structure and antitumour activity of an alkali-soluble polysaccharide from Cordyceps ophioglossoides. 107
- Sucrose, synthesis of some fluoro derivatives of, 247
- Sugars, resolution of, on thin-layer chromatographic plates of 3-aminopropyl-bonded-phase silica, 1
- Synthesis and reactions of some hydrazones of dehydro-L-ascorbic acid, 77
- Synthesis of carbohydrates having phosphorus in the anomeric position, C1
- Synthesis of glycoproteins containing α -L-Fuc-(1 \rightarrow 2)-D-Gal and β -D-Gal-(1 \rightarrow 4)-D-GlcNAc, use of 2-bromoethyl glycosides in the, 237
- Synthesis of 6-O-mycoloyl and 6-Ocorynomycolyl-α,α-trehalose, 323
- Synthesis of some fluoro derivatives of sucrose,
- Synthesis of 1,2,3,4-tetra-O-acetyl-5-deoxy-5-C-[(R)-and (S)-isopropylphosphinyl]- α and - β -D-ribopyranose, 172

- Thin-layer chromatography, plates for, of 3aminopropyl-bonded-phase silica, preparation of, and application to sugar resolution, 1
- Trehalose, synthesis of 6-O-mycoloyl and 6-O-corynomycolyl-α,α-, 323
- Trisaccharides containing N-acetylneuraminic acid and N-acetyllactosamine, synthesis of, 47
- Virtual long-range coupling of the anomeric proton of carbohydrates: an n.m.r. spin-simulation study, 161
- Wheat starch, the effect of physical damage on the molecular structure of, 117
- X-ray analysis of 3-O-(6-O-acetyl-2,4-diazido-3-O-benzyl-2,4-dideoxy-α-D-glucopyranosyl)-1,6-anhydro-2,4-diazido-2,4-dideoxy-β-D-glucopyranose, a disaccharide having an unusual α-D-(1→3) linkage, 185