CARBOHYDRATE RESEARCH, VOL. 173 (1988)

SUBJECT INDEX

- Ab initio SCF energy calculations of the rotational orientation of each of the exocyclic groups of 6-O-methyl-β-D-tagatofuranose, 197
- O-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-β-D-galactopyranoside, 4-nitrophenyl, O-α-L-fucopyranosyl-(1→3)-, synthesis of, 297
- N-Acetylglucosaminyltransferase V, synthesis of selective acceptor for, 263
- 2-Acylamino-2,6-dideoxy-D-glucopyranose-6-sulphonates, syntheses of sodium, 33
- Affinity chromatography on chitosan-based materials, evaluation of, 285
- Anti-α-L-arabinofuranose antibodies: purification, immunochemical characterization and use in histochemical studies of plant cell-wall polysaccharides, 133
- Antibodies, anti-α-L-arabinofuranose, purification, immunochemical characterization, and use in histochemical studies of plant cell-wall polysaccharides, 133
- Borate ions, complexes with guar D-galacto-Dmannan of, 175
- The branched malto-oligosaccharides resulting from the action of *Bacillus macerans* cycloamylose glucanotransferase on 6-O-α-D-glucopyranosylcyclomaltohexaose plus D-glucose, 324
- Cellulose (3-chlorophenyl)urethane, formation of liquid-crystalline phases by, 75
- Celluloses I and II and related mono- and oligosaccharides, second derivative F.t.-i.r. spectra of, 185
- Characterization of rabbit antibodies that recognize determinants on naturally occurring glycoproteins, 169
- Chitosan-based, affinity-chromatography materials, synthesis and evaluation of, 285
- Conformational and X-ray investigations of 7,8dideoxy-1,2:3,4-di-O-isopropylidene-6-O-methyl-D-glycero-α-D-galacto-oct-7-ynopyranose, 151
- Conformational and X-ray investigations of methyl 2,6-di-O-acetyl-3,4-anhydro-α-DL-(6,6-2H₂)talopyranoside, 145

- Determination of the structure of the Escherichia coli K100 capsular polysaccharide, cross-reactive with the capsule from Type B Haemophilus influenzae, 65
- 1,2-Dideoxy-3-heptulose derivatives, synthesis of, 41
- Disaccharides, (1-4)- and (1-6)-linked, interaction of, with the Fenton reagent under physiological conditions, 89
- Enhancement of protonated molecular ions and ammonium Molecular ion complexes in direct liquid introduction-mass spectrometry of carbohydrates, 101
- Escherichia coli K18, K22, and K100, antigens, comparative structural elucidation of, as related ribosyl-ribitol phosphates, 243
- Ethers of myo-inositol, synthesis of some benzyl and methyl, 205
- Fenton reagent, interaction of the, with (1→4)and (1→6)-linked disaccharides, under physiological conditions, 89
- F.t.-i.r. spectra of cellulose I and II and related mono- and oligo-saccharides, second derivative. 185
- O-α-L-Fucopyranosyl-(1→3)-O-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-β-D-galactopyranoside, 4-nitrophenyl), synthesis of, 297
- G Group streptococcus, structure of the polysaccharide from, 255
- D-Galacto-D-mannan, from Melilotus officinalis seeds, 159
- D-Galacto-D-mannan, guar, complexes with borate ions of, 175
- β-D-Galactopyranoside, 4-nitrophenyl, O-α-L-fucopyranosyl-(1→3)-O-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-, synthesis of, 297
- Galactopyranosyluronate derivatives for oligosaccharide synthesis, preparation of, 306
- β -D-GlcpNAc-(1 \rightarrow 2)- α -D-Manp-(1 \rightarrow 6)- β -D-ManpO(CH₂)₈CO₂Me, synthesis of, 263
- D-Glucan, antitumor, water-soluble, from the carpophores of Tylopilus felleus, 316
- Glycoproteins, naturally occurring, characteriza-

C10 SUBJECT INDEX

- tion of rabbit antibodies that recognize determinants on, 169
- Group G streptococcal polysaccharide, structure of, 255
- Guar D-galacto-D-mannan, complexes with borate ions of, 175
- Heptulose, synthesis of derivatives of 1,2-dideoxy-, 41
- Heterocycles, synthesis of 4-thio-C-nucleoside analogues by dehydration of 4-thio-polyhydroxyalkyl, 17
- Heterocyclic compounds, synthesis of D-ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosylthioureas and their transformations into, 1
- A ²H-N.m.r. spectral method for determination of the degree of polymerization of reducing oligosaccharides, 292
- O-Hydroxypropyl)cellulose, phenylalkanoyl esters, formation of liquid-crystalline phases by, 75
- Inositol, synthesis of some benzyl and methyl ethers of myo, 205
- Interaction of (1→4)- and (1→6)-linked disaccharides with the Fenton reagent under physiological conditions, 89
- O-Isopropylidene-1,5-O-methylene derivative of β-D-ribofuranose, the 2,3-, 303
- Kinetics and subsite mapping of a D-xylobioseproducing Aspergillus niger Endo-(1→4)-β-Dxylanase, 273
- Liquid-crystalline phases, formation by two phenylalkanoyl esters of O-(hydroxypropyl) cellulose and cellulose (3-chlorophenyl)ure-thane. 75
- Location of the O-acetyl substituents of a nonasaccharide repeating unit of sycamore extracellular xyloglucan, 113
- Malto-oligosaccharides, the branched, resulting from the action of *Bacillus macerans* cycloamylose glucanotransferase of 6-O-α-D-glucopyranosylcyclomaltohexaose plus D-glucose, 324
- Mannan, a (1-3)-α-D-, from a water extract of Dictyophora indusiata Fisch., 332
- Mass spectrometry, direct liquid introduction, of carbohydrates, enhancement of protonated molecular ions and ammonium-molecular ion complexes in, 101
- 8-Methoxycarbonyloctyl glycoside, selective acceptor for N-acetylglucosaminyltransferase V, synthesis of, 263

Methyl (allyl 2,3-di-O-benzyl-β-D-galactopyranosid)uronate, synthesis, 306

- Methyl 2,6-di-O-acetyl-3,4-anhydro-α-DL-(6,6-²H₂)talopyranoside, X-ray and conformational investigations of, 145
- Methyl (2,3-di-O-benzyl-α- and -β-D-galactopyranosyl fluoride)uronate, synthesis, 306
- O-Methylene derivatives of β-D-ribofuranose, the 1,5- and the 2,3-O-isopropylidene-1,5-, 303
- Oct-7-ynopyranose, X-ray and conformational investigations of 7,8-dideoxy-1,2:3,4-di-O-isopropylidene-6-O-methyl-D-glycero-α-D-galacto-, 151
- Oligosaccharides, reducing, a ²H-n.m.r.-spectral method for determination of the degree of polymerization of, 292
- Polysaccharide, capsular, of Escherichia coli K100, determination of the structure of the, 65 Polysaccharide from Streptococcus pneumoniae type 18A, structural studies of the capsular, 227 Polysaccharide from Streptococcus pneumoniae type 18F, structural studies of the capsular, 217 Polysaccharides, capsular, of Escherichia coli K93 and K53, structural studies of the, 53
- Ribofuranose, the 2,3-O-isopropylidene-1,5-O-methylene and 1,5-O-methylene derivatives of β-D-, 303
- D-Ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosylthioureas, synthesis of, and their transformations into heterocyclic compounds. 1
- Ribosyl-ribitol phosphates, comparative structural elucidation of the *Escherichia coli* K18, K22, and K100 antigens as related, 243
- Second derivative F.t.-i.r. spectra of celluloses I and II and related mono- and oligo-saccharides, 185
- Seeds, of *Melilotus officinalis*, a D-galacto-D-mannan from, 159
- Sodium 2-acylamino-2,6-dideoxy-D-glucopyranose-6-sulphonates, syntheses of, 33
- Solanum neocardenassii Hawkes & Hjerting (PI 498129), type B glandular trichomes, 2,3,4,3'-tetra-O-acetylated sucrose esters from, 235
- Streptococcus, group G, polysaccharide, structure of, 255
- Streptococcus pneumoniae type 18A, structural studies of the capsular polysaccharide from, 227 Streptococcus pneumoniae type 18F, structural studies of the capsular polysaccharide from, 217
- Structural elucidation of the K18, K22, and K100 antigens of *Escherichia coli* as related ribosylribitol phosphates, comparative, 243
- Structural studies of the capsular polysaccharide

SUBJECT INDEX C11

from Streptococcus pneumoniae type 18A 227
Structural studies of the capsular polysaccharide
from Streptococcus pneumoniae type 18F 217

- Structural studies of the Escherichia coli K93 and K53 capsular polysaccharides, 53
- Sucrose esters, 2,3,4,3'-tetra-O-acelated, from the type B glandular trichomes of Solanum neocardenassi Hawkes & Hjerting (PI 498129), 235
- Syntheses of D-ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosylthioureas, and their transformations into heterocyclic compounds, 1
- Syntheses of sodium 2-acylamino-2,6-dideoxy-Dglucopyranose-6-sulphonates, 33
- Synthesis of 1,2-dideoxy-3-heptulose derivatives, 41
- Synthesis of some benzyl and methyl ethers of myo-inositol, 205
- Synthesis of 4-thio-C-nucleoside analogues by dehydration of 4-thiopolyhydroxyalkyl heterocycles, 17
- β-D-Tagatofuranose, 6-O-methyl-, ab initio SCF energy calculations of the rotational orientation of each of the exocyclic groups of, 197
- 4-Thio-C-nucleoside analogues, synthesis of, by dehydration of 4-thiopolyhydroxyalkyl heterocycles, 17

- 1-Thio-β-D-glucopyranosyl groups, synthesis of chitosan containing, 285
- Towards Better Carbohydrate Vaccines, (book review), c2
- Trichomes, type B glandular, of Solanum neocardenassi Hawkes & Hjerting (PI 498129), 2,3,4,3'-tetra-O-acylated sucrose esters from, 235
- Tylopilus felleous, structure of D-glucan from the carpophores of, 318
- Tylopylan, structure of, 318
- Wood and cellulosics: Industrial utilisation, biotechnology, structure and properties, (book review), C1
- X-ray and conformational investigations of 7,8-dideoxy-1,2:3,4-di-O-isopropylidene-6-O-methyl-D-glycero-α-D-galacto-oct-7-ynopyranose, 151
- X-Ray and conformational investigations of methyl 2,6-di-O-acetyl-3,4-anhydro-α-DL-(6,6-2H₂)talopyranoside, 145
- β-D-Xylanase, endo-(1→4)-, from Aspergillus niger, kinetics and subsite mapping of a Dxylobiose- and D-xylose-producing, 273
- Xyloglucan, sycamore extracellular, location of the O-acetyl substituents of a nonasaccharide repeating unit of, 113