CARBOHYDRATE RESEARCH, VOL. 180 (1988)

SUBJECT INDEX

- Acceptor galactosides, galactosidase-catalysed syntheses of, for use in enzymic syntheses of disaccharide glycosides, 53
- 2-Acetamido-2-deoxy-D-glucopyranosylamine, 4'-substituted 1-N-phenyl, e.i.m.s. spectra of, 156 Agarose, gelation mechanism of, 277
- Antigen from Vibrio cholerae O:2, structural studies of the O-, 285
- D-Arabinopyranosyl azide, 2,3,4-tri-O-acetyl- α -and - β -, conformational calculations for, 129
- β-L-Arabinose, 1,2:3,4-disulfite, synthesis and reactivity of, 223
- Artocarpus lakoocha lectin (artocarpin) purified using rivanol, further characterization of, 97
- N-(L-Aspart-4-oyl)-β-D-xylopyranosylamine derivatives, synthesis and structure of some, 147
- Benzyl groups, selective removal from methyl 2,3di-O-benzyl-4,6-O-benzylidene-α-D-glucopyranoside, 152
- Blood group oligosaccharides in non-aqueous solvents ¹H-n.m.r. spectra of, 111
- Carbohydrates, molecular mechanics studies of, a revised potential-energy surface for, 207
- Carboxymethyl derivatives of p-nitrophenyl αmaltopentaoside, preparations of, 137
- Carboxymethylcellulose, identification of the products of hydrolysis of, 43
- Cats with α -mannosidosis, accumulation of oligosaccharides in tissues and body fluids of, 325
- Cellulose, silver labeling of the reducing ends of bacterial, 345
- Characterization of Artocarpus lakoocha lectin (artocarpin) purified using rivanol, 97
- Chitin-lithium chloride-N,N-dimethylacetamide system, solution studies of the, 73
- Citrobacter PCM 1487, elucidation of the structure by ¹H-n.m.r. spectroscopy of the core octasaccharide of, 163
- Concanavalin A, estimation and fractionation of the amylose and amylopectin components of starches with, 301
- Copolymers of polyacrylamide containing KDO disaccharides. 19
- Core octasaccharide from *Citrobacter* PCM 1487, elucidation of the structure by ¹H-n.m.r. spectroscopy of, 163

- Crystal and molecular structure of potassium β -D-glucopyranose 6-sulphate, 183
- Crystal and molecular structure of 4,1',6'-trichloro-4,1',6'-trideoxy-galacto-sucrose, 175
- Disaccharide glycosides and acceptor galactosides, enzymic syntheses of, 53
- Disaccharides, enzymic synthesis of, by use of the reversed hydrolysis activity of β-D-galactosidases, 35
- 1,2:3,4-Disulfite of β-L-arabinose, synthesis and reactivity of, 223
- Effect of pressure on the rates of oxidation of monosaccharides with vanadium(V), 29
- Enzymic synthesis of disaccharides by use of the reversed hydrolysis activity of β-D-galactosidases, 35
- Estimation and fractionation of the essentially unbranched (amylose) and branched (amylopectin) components of starches with concanavalin A, 301
- Fourier-transform infrared study of wheat starch gels, 339
- D-Galactose phenylhydrazone, synthesis of pentahydroxypentylpyrazoles by reaction of nitroalkenes with, 1
- Galactosidase-catalysed syntheses of galactosides and disaccharide glycosides, 53
- Gelation mechanism of agarose, 277
- Glucofructofuranan, from the New Zealand cabbage tree *Cordyline australis*, a study of the, 301
- β-p-Glucopyranose 6-sulphate, crystal and molecular structure of potassium, 183
- α-D-Glucopyranoside, 2,3-di-O-benzyl-4,6-O-benzylidene-, methyl, selective deprotection of, 152
- D-Glucopyranosiduronates, stereoselective synthesis of acetal (1-alkoxyalkyl)- α and - β -, 253
- Glycopyranosylamines, 4'-substituted 1-N-phenyl-, e.i.m.s. spectra of, 156
- Hydrogen bonding, intra- and inter-molecular in agarose, 277
- Hydrolysis of carboxymethylcellulose, identification of the products of, 43

c12 SUBJECT INDEX

- Identification of the products of hydrolysis of carboxymethylcellulose, 43
- Infrared study of wheat starch gels, a Fouriertransform, 339
- by physical methods, 87
- KDO disaccharides, synthesis of polyacrylamide copolymers with, 19
- (L.d.i.-F.t.-i.c.r.) mass spectrometry on bacterial capsular polysaccharides, structural information obtained by negative-ion laser desorption ionization Fourier transform ion cyclotron resonance, c1
- Lectin, further characterization of Artocarpus lakoocha, purified using rivanol, 97
- Lithium chloride-N,N-dimethylacetamide, structural studies of the dissolution of chitin in, 73
- α -Maltopentaoside, p-nitrophenyl, preparations of carboxymethyl derivatives of, 137
- α-Mannosidosis in cats: accumulation of oligosaccharides in tissues and body fluids, 325
- Methyl 2,3-di-O-benzyl-4,6-O-benzylidene- α -Dglucopyranoside, selective deprotection of, 152
- 3-[3-(2-O- α -L-rhamnopyranosyl- α -Lrhamnopyranosyloxy)decanoyloxy]decanoate, synthesis of, 195
- Methyl 2-O-, 3-O-, and 5-O- β -D-ribofuranosyl- β -D-ribofuranoside, synthesis of, 243
- Molecular mechanics studies, of carbohydrates, a revised potential-energy surface for, 207
- 5-Nitro-6-(penta-O-acetylpentitol-1-yl)-norbornenes, synthesis and structural study of, 263
- p-Nitrophenyl α -maltopentaoside, preparations of carboxymethyl derivatives of, 137
- ¹H-N.m.r. spectra of blood group oligosaccharides in non-aqueous solvents, 111
- Non-aqueous solvents, ¹H-n.m.r. spectra of blood group oligosaccharides in, 111
- Norbornenes, synthesis and structural study of 5nitro-6-(penta-O-acetylpentitol-1-yl)-, 263
- Nucleosides, pyrimidine, unprotected at O-2, synthesis of, 233
- Octasaccharide from Citrobacter PCM 1487 core, elucidation of the structure by H-n.m.r. spectroscopy of, 163
- Oligosaccharides in tissues and body fluids of cats with α -mannosidosis, 325
- Oxidation of monosaccharides with vanadium(V), effect of pressure on the rates of, 29
- Pentahydroxypentylpyrazoles, synthesis of, by reaction of D-galactose phenylhydrazone with nitroalkenes, 1

- Pentopyranosylazide, 2,3,4-trideoxy- α and $-\beta$ -, conformational calculations for, 129
- 1-N-Phenylglycopyranosylamines, 4'-substituted, e.i.m.s. spectra of, 156
- Inulin, determination of molecular size and shape. Polyacrylamide copolymers of KDO disaccharides, synthesis of, 19
 - Polysaccharide from Streptococcus pneumoniae type 37, structural studies of the capsular, 295
 - Polysaccharides, structural information obtained by negative-ion laser desorption ionization Fourier transform ion cyclotron resonance (l.d.i.-F.t.-i.c.r.) mass spectrometry bacterial capsular, c1
 - Potassium β -D-glucopyranose 6-sulphate, crystal and molecular structure of, 183
 - Pressure, effect of, on the rates of oxidation of monosaccharides with vanadium(V), 29
 - Pyrimidine nucleosides unprotected at O-2, synthesis of, 233
 - Reaction of D-galactose phenylhydrazone with nitroalkenes, synthesis of pentahydroxypentylpyrazoles by, 1
 - Reducing ends of bacterial cellulose, silver labeling of the, 345
 - Rhamnolipid from *Pseudomonas aeruginosa*, synof methyl $3-[3-(2-O-\alpha-L-rhamno$ pyranosyl- α -L-rhamnopyranosyloxy)decanoyloxy]decanoate, a, 195
 - Ribofuranoside, methyl 2-O-, 3-O-, 5-O-β-D-ribofuranosyl-, synthesis of, 243
 - 2-O-, 3-O-, and 5-O-β-D-Ribofuranosyl-β-D-ribofuranoside, methyl, synthesis of, 243
 - Silver-labeling of the reducing ends of bacterial cellulose, 345
 - Sinistrin, determination of molecular size and shape by physical methods, 87
 - Solution studies of the chitin-lithium chloride-N, N-dimethylacetamide system, 73
 - Starch gels, a Fourier-transform infrared study of wheat, 339
 - Starches, estimation and fractionation with concanavalin A of the amylose and amylopectin components of, 301
 - Stereoselective synthesis of acetal (1-alkoxyalkyl)- α - and - β -D-glucopyranosiduronates: a new approach to specific cytostatics for the treatment of cancer, 253
 - Streptococcus pneumoniae type 37, structural studies of the capsular polysaccharide from, 295
 - Structural features of the water-insoluble p-xylans of sugar cane (Saccharum officinarum), 61
 - Structural information obtained by negative-ion laser desorption ionization Fourier transform ion cyclotron resonance (l.d.i.-F.t.-i.c.r.) mass spectrometry on bacterial capsular polysaccharides, c1

- Structural studies of the O-antigen from Vibrio cholerae O:2, 285
- Structural studies of the capsular polysaccharide from *Streptococcus pneumoniae* type 37, 295
- Study of the glucofructofuranan from the New Zealand cabbage tree Cordyline australis, 301
- Sucrose, the crystal and molecular structure of 4,1',6'-trichloro-4,1',6'-trideoxysucrose, 175
- Sugar cane (Saccharum officinarum), structural features of the water-insoluble p-xylans of, 61 Sulfite, 3.4-mono- and 1.2:3.4-di-, of B-L-ara-
- Sulfite, 3,4-mono- and 1,2:3,4-di-, of β-L-arabinose, 223
- 1,2-Sulfites, synthesis of pyrimidine nucleosides from, 233
- Surface, a revised potential-energy, for molecular mechanics studies of carbohydrates, 207
- Synthesis and structural study of 5-nitro-6-(penta-O-acetylpentitol-1-yl)-norbornenes, 263
- Synthesis and structure of some N-(L-aspart-4oyl)-β-D-xylopyranosylamine derivatives, 147

- Synthesis of acetal (1-alkoxyalkyl)-α- and -β-D-glucopyranosiduronates, stereoselective, 253
- Synthesis of methyl 3-[3-(2-O-α-L-rhamnopyrano-syl-α-L-rhamnopyranosyloxy)decanoyloxy]decanoate, a rhamnolipid from *Pseudomonas aeruginosa*, 183
- 2,3,4-Tri-O-acetyl-α- and -β-D-arabinopyranosylazide, conformational calculations for, 129
- 4,1',6'-Trichloro-4,1',6'-trideoxy-galacto-sucrose, the crystal and molecular structure of, 175
- Vibrio cholerae O:2, structural studies of the Oantigen from, 285
- D-Xylans of sugar cane (Saccharum officinarum), structural features of the water-insoluble, 61
- β-D-Xylopyranosylamine derivatives, synthesis and structure of some N-(L-aspart-4-oyl)-, 147
- D-Xylopyranosylamines, 4'-substituted 1-N-phenyl-, e.i.m.s. spectra of, 156