



## Carbohydrate Research 257 (1994) C15-C17

## SUBJECT INDEX

- Acetal-linked pyruvate substituents in polysaccharides, configurational stability and molecular dynamics of, 227
- Acetolysis of a 2,4-O-benzylidene-L-ribo-hex-5enitol derivative, 217
- N-Acetyllactosamine on a soluble, light-sensitive polymer, enzymic synthesis of, C1
- Acylating properties of N-substituted 2-C:1-N-carbonyl-2-deoxyglycopyranosylamines, 137
- D-Allose and L-gulose, transformation into cyclic carbamates with potassium cyanate, 97
- Allyl  $\beta$ -D-fructopyranoside, aspects of the synthesis of, 293
- 3-Amino-3-deoxy-L-talose and derivatives, total asymmetric synthesis, 175
- Amino sugars and derivatives, structure-activity relationships in the induction of single-strand breakage in plasmid pBR322 DNA by amino sugars and derivatives, 285
- Amylase isozymes, models for the action on linear substrates of barley alpha-, 249
- α-Amylases of *B. amyloliquefaciens* and barleymalt, effect of modifying histidine residues on the action of, 155
- Barley alpha-amylase isozymes, models for the action on linear substrates, 249
- (+)-Biotin and methyl 5-thio-β-D-arabinopyranoside, new syntheses, 299
- 2,4-O-Benzylidene-L-ribo-hex-5-enitol, acetolysis of a derivative of, 217
- Capsular polysaccharide from *Klebsiella* K43, structure, 107
- Carbamates, transformation of p-allose and L-gulose into cyclic, with potassium cyanate, 97 2-C:1-N-Carbonyl-2-deoxyglycopyranosylamines,
- acylating properties of N-substituted, 137
- Cell-wall polysaccharides of *Penicillium expan*sum strains, structural investigations of two, 239

- Configurational stability and molecular dynamics of acetal-linked pyruvate substituents in polysaccharides, 227
- Conformational and X-ray investigation of two 11-carbon sugars composed of hexopyranose and pentofuranose units, 25
- Crystal and molecular structure of methyl  $\alpha$ -D-galactopyranoside 3-(sodium sulfate) monohydrate, 1
- Cyclic carbamates, transformation of D-allose and L-gulose with potassium cyanate, 97
- Deoxy-I-fucose, synthesis of the methyl thioglycosides of 2-, 3-, and 4-, 55
- Deoxy-L-fucose-containing sialyl Lewis X ganglioside analogues, synthesis, 67
- 1-Deoxy-1-isothiocyanato-D-fructose as intermediate in syntheses of 1,3-O(S),N-heterocycles, 127
- 2,6-Dideoxy-2-(N-methylacetamido)-D-galactose and derivatives suitable for 3-O- or 4-O-glycosylation, synthesis of, 145
- N-(2,2-Diethoxycarbonylvinyl)-2,3-O-isopropylidene-α-p-ribofuranosylamine as glycosyl acceptor, 305
- Disaccharide methyl glycosides, NMR studies of some  $(1 \rightarrow 6)$ -linked, 163
- DNA of plasmid pBR322, induction by amino sugars and derivatives of single-strand breakage in, structure-activity relationships, 285
- Double bonds, synthesis of C-glycosyl compounds containing, without the use of protecting groups, 81
- Eleven-carbon sugars composed of hexopyranose and pentofuranose units, X-ray and conformational investigation, 25
- Enzymic synthesis of N-acetyllactosamine on a soluble, light-sensitive polymer, C1

- Forssman antigen pentasaccharide and overlapping di-, tri-, and tetra-saccharide sequences, NMR and conformational investigations, 35
- Fructopyranoside, aspects of the synthesis of allyl  $\beta$ -D-, 293
- D-Fructose, 1-deoxy-1-isothiocyanato-, as intermediate in syntheses of 1,3-O(S),N-heterocycles, 127
- D-Fucosamine, synthesis of N-acetyl-N-methyl-, and derivatives suitable for 3-O- or 4-O-glycosylation, 145
- L-Fucose, synthesis of the methyl thioglycosides of 2-, 3-, and 4-deoxy-, 55
- Galactopyranoside 3-(sodium sulfate) monohydrate, crystal and molecular structure of methyl α-D-, 1
- Galactosyl phosphate diester derivatives of nucleosides, synthesis of, 323
- Gelation of sodium alginate with calcium ions studied by magnetic resonance imaging, 117
- Glycopyranosylamines, acylating properties of N-substituted 2-C:1-N-carbonyl-2-deoxy-, 137
- Glycosyl acceptor, a D-ribofuranosylenamine as, 305
- C-Glycosyl compounds containing double bonds, synthesis without the use of protecting groups, 81
- Heterocycles, 1-deoxy-1-isothiocyanato-D-fructose as intermediate in syntheses of 1,3-O(S),N-heterocycles, 127
- Hex-5-enitol derivative, acetolysis of a 2,4-O-benzylidene-L-ribo-, 217
- Hexa-saccharide fragment of the O-specific polysaccharide of *Shigella dysenteriae* type 1, synthesis and two-dimensional NMR analysis of a tetra- and a, 189
- Histidine residues of *B. amyuloliquefaciens* and barley-malt  $\alpha$ -amylases, effect of modification, 155
- Klebsiella K43, structure of the capsular polysaccharide, 107
- Light-sensitive polymer, enzymic synthesis of N-acetyllactosamine on a soluble, C1
- (1 → 6)-Linked disaccharide methyl glycosides, NMR studies of some, 163
- Lipopolysaccharide of *Moraxella (Branhamella)* catarrhalis serotype A, structural studies of the O-polysaccharide, 269
- Magnetic resonance imaging (MRI), study of gelation of sodium alginate with calcium ions, 117

- 1,2-O-(1-Methoxyethylidene)-β-L-rhamnopyranose in the synthesis of 3- and 4-deoxy derivatives of L-rhamnose, 317
- 2-(N-Methylacetamido)-p-galactose, synthesis of 2,6-dideoxy-, and derivatives suitable for 3-Oor 4-O-glycosylation, 145
- Methyl α-D-galactopyranoside 3-(sodium sulfate) monohydrate, crystal and molecular structure, 1
- Methyl 5-thio-β-D-arabinopyranoside and (+)biotin, new syntheses, 299
- Models for the action of barley alpha-amylase isozymes on linear substrates, 249
- Moraxella (Branhamella) catarrhalis serotype A, structural studies of the O-polysaccharide from the lipopolysaccharide, 269
- NMR and conformational investigations of the pentasaccharide of the Forssman antigen and overlapping di-, tri-, and tetra-saccharide sequences, 35
- NMR studies of some  $(1 \rightarrow 6)$ -linked disaccharide methyl glycosides, 163
- Nucleosides, synthesis of galactosyl phosphate diester derivatives of, 323
- Optical activity of D-glucose vibrational Raman study, 11
- Penicillium expansum strains, structural investigations of two cell-wall polysaccharides of, 239
- Pentasaccharide of the Forssman antigen and overlapping di-, tri-, and tetra-saccharide sequences, NMR and conformational investigations, 35
- Plasmid pBR322 DNA, induction by amino sugars and derivatives of single-strand breakage in, structure-activity relationships, 285
- Polysaccharide from *Klebsiella* K43, structure of the capsular, 107
- Polysaccharide from the lipopolysaccharide of Moraxella (Branhamella) catarrhalis serotype A, structural studies of the O-, 269
- Polysaccharides of *Penicillium expansum* strains, structural investigations of two cell-wall, 239
- Pyruvate substituents in polysaccharides, configurational stability and molecular dynamics of acetal-linked, 227
- Raman optical activity study of D-glucose, vibrational, 11
- Rhamnose orthoester protecting group in the synthesis of deoxy derivatives of L-rhamnose, 317

- p-Ribofuranosylenamine as glycosyl acceptor, a substituted, 305
- Sialyl Lewis X ganglioside analogues, deoxy-Lfucose containing, synthesis, 67
- Sodium alginate, gelation with calcium ions, studied by magnetic resonance imaging, 117
- O-Specific polysaccharide of Shigella dysenteriae type 1, synthesis and two-dimensional NMR analysis of a tetra- and a hexa-saccharide fragment of the, 189
- Synthesis and two-dimensional NMR analysis of a tetra- and a hexa-saccharide fragment of the O-specific polysaccharide of *Shigella* dysenteriae type 1, 189
- Synthesis of 3- and 4-deoxy derivatives of L-rhamnose from 1,2-O-(1-methoxyethyl-idene)-β-L-rhamnopyranose, 317

- Synthesis of galactosyl phosphate diester derivatives of nucleosides, 323
- Synthesis of C-glycosyl compounds containing double bonds without the use of protecting groups, 81
- Synthesis of allyl  $\beta$ -D-fructopyranoside, aspects of the, 293
- 5-Thio-β-D-arabinopyranoside, new syntheses of (+)-biotin and methyl, 299
- Total asymmetric synthesis of 3-amino-3-deoxy-L-talose and derivatives, 175
- Vibrational Raman optical activity study of pglucose, 11
- X-ray and conformational investigation of two 11-carbon sugars composed of hexopyranose and pentofuranose units, 25