

## SUBJECT INDEX

- N*-Acetylneuraminic acid and analogues, configurational assignment *via* the vicinal C,H coupling constants, 345
- N*-Acetylneuraminic acid, unsaturated derivatives, inhibition kinetics of mammalian sialidases with, 315
- Acidic glycan present in the lipopolysaccharide extract from the reference strain for *Serratia marcescens* serogroup O18, structure of an, 293
- 1,6-Anhydrolactose and its hexa-acetate, conformation in solution, 239
- Anion-exchange chromatographic determination of saccharides in dairy products using pulsed amperometric detection, selectivity control in the, 39
- Anion-exchange chromatography, high performance, of sugars and sugar alcohols on quaternary ammonium resins under alkaline conditions, 1
- Anion-exchange chromatography, high-performance, with pulsed amperometric detection, of linear and branched glucose oligosaccharides, 179
- Anion-exchange chromatography, high-pH; separation of high-mannose isomers from yeast and mammalian sources using, 211
- Capillary zone electrophoresis of reducing mono- and di-saccharides as the borate complexes of their 3-methyl-1-phenyl-2-pyrazolin-5-one derivatives, 193
- Carbon column, a graphitized, high-performance liquid chromatography of mono- and oligo-saccharides on, 67
- Cation-exchange resin in the lanthanum form, chromatography of 1-deoxy-1-nitroalditols on a, 199
- Chair-to-chair interconversion of *cis*-inositol, rate constants and activation energy for, determination by n.m.r. spectroscopy, 351
- Chromatography of 1-deoxy-1-nitroalditols on a cation-exchange resin in the lanthanum form, 199
- Chromatography, high-performance anion-exchange, of sugars and sugar alcohols on quaternary ammonium resins under alkaline conditions, 1
- Chromatography, high-performance anion-exchange with pulsed amperometric detection, of linear and branched glucose oligosaccharides, 179
- Chromatography, high-performance liquid, of mono- and oligo-saccharides on a graphitized carbon column, 67
- Chromatography, reserved-phase ion-pair liquid, kinetic comparisons of trimer-generating pectate and alginate lyases by, 147
- Complexing of sugars and sugar alcohols with metal ions: a comparative study by ion-exchange chromatography, 357
- Configurational assignment of *N*-acetylneuraminic acid and analogues *via* the vicinal C,H coupling constants, 345
- Conformation of 1,6-anhydrolactose and its hexa-acetate in solution, 239
- $\beta$ -Cyclodextrin (cyclomaltoheptaose,  $\beta$ CD) having degree of polymerization (d.p.) = 9, characterization of five isomers of branched, a reinvestigation of three positional isomers of diglycosyl- $\beta$ -CD, 127
- Cyclomaltoheptaose ( $\beta$ CD) having degree of polymerization (d.p.) = 9, characterization of five isomers of branched, a reinvestigation of three positional isomers of diglycosyl- $\beta$ -CD, 127
- Cyclomaltohexaose ( $\alpha$ -cyclodextrin) in complexes with guest molecules, a molecular modelling study of the distortion of, 251
- Dairy products, selectivity control in the anion-exchange chromatographic determination of saccharides in, using pulsed amperometric detection, 39
- 1-Deoxy-1-nitroalditols, chromatography on a cation-exchange resin in the lanthanum form, 199
- Disaccharide unit of the lipopolysaccharide of *Escherichia coli* K-12, synthesis of a heptose-containing, 337
- Disaccharides of D-glucose,  $\alpha$ -linked, analyses of, by high-performance liquid chromatography, 203
- Disaccharides with (1 $\rightarrow$ 4)- $\beta$  glycosidic linkages related to the 4- and 6-sulfates and the 4,6-disulfates of chondroitin, syntheses of, 261
- Disaccharides with 4- and 6-sulfate and 4,6-disulfate groups, synthesis of  $\beta$ -D-GlcA-(1 $\rightarrow$ 3)- $\beta$ -D-Gal, 279
- Distortion of  $\alpha$ -cyclodextrin (cyclomaltohexaose) in complexes with guest molecules, a molecular modelling study of the, 251

- E.s.r. spectroscopy, molecular motion in glassy water-malto-oligosaccharide mixtures as studied by conventional and saturation-transfer spin-probe, 229
- Electrophoresis, capillary zone, of reducing mono- and di-saccharides as the borate complexes of their 3-methyl-1-phenyl-2-pyrazolin-5-one derivatives, 193
- ELISA detection and high-performance size-exclusion chromatography of extracellular polysaccharides from *Mucorales*, 47
- Extracellular polysaccharides from *Mucorales*, high-performance size-exclusion chromatography and ELISA detection of, 47
- Furosine, determination of, in biomedical samples employing an improved hydrolysis and high-performance liquid chromatographic technique, 117
- Glycogens, an h.p.l.c. method for determining chain-length distribution in some, 59
- Glycosylation of alkyl (aryl) 1-thioglycosides, regulation of stereoselectivity and reactivity in the iodonium ion-assisted, c1
- Heptopyranosyl-D-glucopyranose, synthesis and characterisation of 6-O-1-*glycero- $\alpha$ -D-manno*, 337
- Heptose, hexose region of the lipopolysaccharide from *Escherichia coli* K-12 strain W3100, structural analysis of the, 323
- High-mannose isomers from yeast and mammalian sources, separation of, using high-pH anion-exchange chromatography, 211
- High-performance anion-exchange chromatography, with pulsed amperometric detection, of linear and branched glucose oligosaccharides, 179
- High-performance liquid chromatography, analyses of  $\alpha$ -linked disaccharides of D-glucose by, 203
- High-performance liquid chromatography, kinetic analysis of pectate lyases by, 137
- High-performance reversed-phase chromatographic mapping of 2-pyridylamino derivatives of xyloglucan oligosaccharides, 15
- High-performance size-exclusion chromatography and ELISA detection of extracellular polysaccharides from *Mucorales*, 47
- H.p.l.c. method for determining chain-length distribution in some H glycogens, an, 59
- H.p.l.c. of 4-nitrophenyl- $\alpha$ -malto-oligosaccharides, 15
- H.p.l.c., preparative, isolation of oligogalacturonic acids in gram quantities by, 81
- H.p.l.c., reversed-phase ion-pair, analysis of oligouronates by: role of the mobile phase, 105
- ch*-Inositol, rate constants and activation energy for the chair-to-chair interconversion of, determination by n.m.r. spectroscopy, 351
- Iodonium ion-assisted glycosylation of alkyl 1-thioglycosides, regulation of stereoselectivity and reactivity, c1
- Ion-pair reversed-phase h.p.l.c., analysis of oligouronates by: role of the mobile phase, 105
- Kinetic analysis of pectate lyases by high-performance liquid chromatography, 137
- Lactose, conformation in solution of 1,6-anhydro-, and its hexa-acetate, 239
- Lipopolysaccharide from *Escherichia coli* K12 strain W3100, structural analysis of the heptose hexose region of the, 323
- Liquid chromatography, high-performance, analyses of  $\alpha$ -linked disaccharides of D-glucose by, 203
- Lyases, trimer-generating pectate and alginate, kinetic comparisons of, by reversed-phase ion-pair liquid chromatography, 147
- $\alpha$ -Malto-oligosaccharides, 4-nitrophenyl-, h.p.l.c. of, 15
- Mammalian sialidases, inhibition kinetics with unsaturated derivatives of *N*-acetylneuraminic acid, 315
- Metal ions, a comparative study by ion-exchange chromatography of the complexing of sugars and sugar alcohols with, 337
- Molecular modeling study of the distortion of  $\alpha$ -cyclodextrin (cyclomaltohexaose) in complexes with guest molecules, 251
- Molecular motion in glassy water-malto-oligosaccharide mixtures as studied by conventional and saturation-transfer spin-probe e.s.r. spectroscopy, 229
- Molecular weight and intrinsic viscosity of pectin components, 91
- N.m.r. spectroscopic assignment of the configuration of *N*-acetylneuraminic acid and analogues, 345
- Oligogalacturonic acids, isolation of, in gram quantities by preparative h.p.l.c., 81
- Oligosaccharides, linear and branched glucose, high-performance anion-exchange chromatography with pulsed amperometric detection, of, 179
- Oligouronates, analysis of, by reversed-phase ion-pair h.p.l.c.: Role of the mobile phase, 105
- Pectate lyases by high-performance liquid chromatography, kinetic analysis of, 137
- Pectic fragments, problems encountered during

- the extraction, purification, and chromatography of, and some solutions to them, 219
- Pectin components, intrinsic viscosity and molecular weight of, 91
- Polysaccharide from *Vibrio cholerae*: O:3, structural studies of the O-antigen, 303
- Polysaccharides, extracellular, from *Mucorales*, high-performance size-exclusion chromatography and ELISA detection of, 47
- Preparative h.p.l.c., isolation of oligogalacturonic acids in gram quantities by, 81
- Pulsed amperometric detection (p.a.d.) of carbohydrates following separation by liquid chromatography, optimization of waveforms for, 159
- Pulsed amperometric detection, selectivity control in the anion-exchange chromatographic determination of saccharides in dairy products, using, 39
- 2-Pyridylamino derivatives of xyloglucan oligosaccharides, high-performance reversed-phase chromatographic mapping of, 15
- Reversed-phase ion-pair h.p.l.c., analysis of oliguronates by; role of the mobile phase, 105
- Reversed-phase ion-pair liquid chromatography, kinetic comparisons of trimer-generated pectate and alginate lyases by, 147
- Saccharides in dairy products, selectivity control in the anion-exchange chromatographic determination of, using pulsed amperometric detection, 39
- Serratia marcescens* serogroup O18, structure of an acidic glycan present in the lipopolysaccharide extract from the reference strain for, 293
- Stalldases; mammalian, inhibition kinetics with novel derivatives of unsaturated *N*-acetylneuraminic acid of, 315
- Structural analysis of the heptose/hexose region of the lipopolysaccharide from *Escherichia coli* K-12 strain W3100, 323
- Structural studies of the *Vibrio cholerae* O:3 O-antigen polysaccharide, 303
- Structure of an acidic glycan present in the lipopolysaccharide extract from the reference strain for *Serratia marcescens* serogroup O18, 293
- Sugars and sugar alcohols, a comparative study by ion-exchange chromatography of complexing with metal ions, 357
- Sulfates, 4- and 6-, and the 4,6-disulfates of chondroitin, syntheses of disaccharides with (1→4)- $\beta$  glycosidic linkages related to the, 261
- Syntheses of disaccharides with (1→4)- $\beta$  glycosidic linkages related to the 4- and 6-sulfates and the 4,6-disulfates of chondroitin, 261
- Synthesis and characterisation of 6-*O*-L-glycero- $\alpha$ -D-manno-heptopyranosyl-D-glucopyranose, 337
- Synthesis of  $\beta$ -D-GlcA-(1→3)- $\beta$ -D-Gal disaccharides with 4- and 6-sulfate and 4,6-disulfate groups, 279
- I-Thioglycosides, regulation of stereoselectivity and reactivity in the iodonium-ion assisted glycosylation of alkyl (aryl), C1
- Vibrio cholerae* O:3, structural studies of the O-antigen polysaccharide, 303
- Viscosity, intrinsic, and molecular weight of pectin components, 91
- Water-malto-oligosaccharide mixtures, molecular motion in glassy, as studied by conventional and saturation-transfer spin-probe e.s.r. spectroscopy, 229