

## SUBJECT INDEX

- 2-Acetamido-2-deoxyaldonolactones from sugar formazans, 85
- Acetobacter methanolicus* MB 58 (IMET B346), structure of the capsular polysaccharide and the O-side-chain of the lipopolysaccharide, 309
- N-Acetylmuramic acid 1-phosphate, 107
- Aldonolactones, preparation from sugar formazans of 2-acetamido-2-deoxy-, 85
- Arabinogalactan isolated from Mongolian larchwood (*Larix dahurica* L.), structural and molecular properties, 317
- Benzylation of polyols by phase-transfer catalysis or supported reagent methods, solvent-free, 149
- Branched tetrasaccharide thioglycoside, synthesis and NMR spectra of a protected, a useful intermediate for the synthesis of branched oligosaccharides, 69
- 4-*tert*-Butylbenzoic acid, the crystal structure of the inclusion complex of cyclomaltoheptaose ( $\beta$ -cyclodextrin) with, 19
- Capsular polysaccharide of *Rhodococcus equi* serotype 7, structural elucidation of the specific, 223
- Capsular polysaccharide and the O-side-chain of the lipopolysaccharide from *Acetobacter methanolicus* MB 58 (IMET B346), 309
- Carrageenan from the tetrasporic stage of *Gigartina decipiens* (Gigartinaeae, Rhodophyta), 171
- Cell wall polymers from olive pulp (*Olea europaea*), isolation and characterisation, 245
- Conformational studies, synthesis of di- and trisaccharides with intramolecular NH-glycosidic linkages: molecules with flexible and rigid glycosidic bonds for, 159
- Conformational study of 12 pseudo-disaccharides (D-glucopyranosyl-5a-carba-D- and -L-glucopyranoses), an NMR spectroscopic and, 1
- Cortalcerone, a convenient laboratory procedure for the preparation of, 297
- Crystal structure, conformation, and synthesis of methyl 6-deoxy-2,3-O-isopropylidene- $\alpha$ -D-manno-heptofuranoside, 97
- Cyclodextrin, the crystal structure of the inclusion complex of 4-*tert*-butylbenzoic acid with  $\beta$ -, 19
- L-Dianose, a new monosaccharide from *Dianthus chinensis* L., 303
- Dianthus chinensis* L., L-dianose (a new monosaccharide) from, 303
- Differing rates of galactosylation of homologous spacer-modified disaccharides are an indication for two separate GlcNAc binding-sites in galactosyltransferase, 325
- Disaccharides (D-glucopyranosyl-5a-carba-D- and -L-glucopyranoses), an NMR spectroscopic and conformational study of 12 pseudo-, 1
- Effect of heat-moisture treatment on the structure and physicochemical properties of cereal, legume, and tuber starches, 33
- Enzymatic catalyzed process for the selective acylation of secondary hydroxyl groups of carbohydrates using oxime esters, 55
- Enzymatic corticalcerone preparation from D-glucose, 297
- D-Erythrofuransyl C-nucleosides of imidazole from 4(5)-(D-arabino-tetritol-1-yl)imidazole, synthesis of, 275
- Forsman pentasaccharide and terminal tetra-, tri-, and di-saccharide fragments, synthesis, 137
- Fructofuranoside, X-ray structure of methyl 1,6-di-O-(4-bromobenzoyl)-3,4-di-O-(4-methoxycinnamoyl)- $\beta$ -D-, 269
- Galactosylation of homologous spacer-modified disaccharides are an indication for two sepa-

- rate GlcNAc binding-sites in galactosyltransferase, differing rates of, 325
- Gaaglioside GD2, facile total synthesis, 283
- Gel formation in aqueous dimethyl sulfoxide, native ordered structure of welan polysaccharide: conformational transitions and, 209
- Globotetraose tetrasaccharide and terminal tri- and di-saccharide fragments, synthesis, 117
- $\beta$ -D-Glucosyluronic acid and 4-O-methyl  $\beta$ -D-glucosyluronic acid-containing oligosaccharides from the cell-wall pectic polysaccharide, rhamnogalacturonan I, isolation and structural characterization of, 235
- Glycerol component in poly(glycosylglycerol phosphates), determination of the absolute configuration of the, by GLC-MS, 263
- Heat-moisture treatment on the structure and physicochemical properties of cereal, legume, and tuber starches, effect of, 33
- Heptofuranoside, synthesis, crystal structure, and conformation of methyl 6-deoxy-2,3-O-isopropylidene- $\alpha$ -D-manno-, 97
- Hydroxy groups, sugar, oxidation of with triphenylphosphine-N-chlorosuccinimide-dimethyl sulfoxide, 291
- Imidazole, synthesis of D-erythrofuranosyl C-nucleosides from 4(5)-(D-arabino-tetritol-1-yl)imidazole, 275
- Immobilized enzyme preparation of cortalcosterone, 297
- Inclusion complex of cyclomaltoheptaose ( $\beta$ -cyclodextrin) with 4-tert-butylbenzoic acid, crystal structure, 19
- Intramolecular NH-glycosidic linkages: molecules with flexible and rigid glycosidic bonds for conformational studies, synthesis of di- and tri-saccharides with, 159
- Larchwood (*Larix dahurica* L.), structural and molecular properties of the arabinogalactan isolated from Mongolian, 317
- Lipopolysaccharide from *Acetobacter methanolicus* MB 58 (IMET B346), structure of the capsular polysaccharide and the O-side-chain, 309
- Methyl 6-deoxy-2,3-O-isopropylidene- $\alpha$ -D-manno-heptofuranoside, synthesis, crystal structure, and conformation, 97
- Methyl 1,6-di-O-(4-bromobenzoyl)-3,4-di-O-(4-methoxycinnamoyl)- $\beta$ -D-fructofuranoside, X-ray structure of, 269
- Native ordered structure of welan polysaccharide: conformational transitions and gel formation in aqueous dimethyl sulfoxide, 209
- C-Nucleosides of imidazole from 4(5)-(D-arabino-tetritol-1-yl)imidazole, synthesis of D-erythrofuranosyl, 275
- Olive pulp (*Olea europaea*), isolation and characterisation of cell wall polymers from, 245
- Oxidation of sugar hydroxy groups with triphenylphosphine-N-chlorosuccinimide-dimethyl sulfoxide, 291
- Oxime esters in the selective enzymatic catalyzed acylation of secondary hydroxyl groups of carbohydrates using oxime esters in an enzymatic catalyzed process, 55
- Pentasaccharide and terminal tetra-, tri-, and di-saccharide fragments, synthesis of the Forssman, 137
- Phase-transfer catalysis or supported reagent methods, solvent-free benzylation of polyols by, 149
- Poly(glycosylglycerol phosphates), determination of the absolute configuration of the glycerol component in, by GLC-MS, 263
- Polymers from olive pulp (*Olea europaea*), isolation and characterisation of cell wall, 245
- Polyols, solvent-free benzylation by phase-transfer catalysis or supported reagent methods, 149
- Polysaccharide of *Rhodococcus equi* serotype 7, structural elucidation of the specific capsular, 223
- Pseudo-disaccharides (D-glucopyranosyl-5a-carba-D- and -L-glucopyranoses), an NMR spectroscopic and conformational study, 1
- Rhamnogalacturonan I, isolation and structural characterization of  $\beta$ -D-glucosyluronic acid and 4-O-methyl  $\beta$ -D-glucosyluronic acid-containing oligosaccharides from the cell-wall pectic polysaccharide, 235
- Rhodococcus equi* serotype 7, structural elucidation of the specific capsular polysaccharide of, 223
- Selective acylation of secondary hydroxyl groups of carbohydrates using oxime esters in an enzymatic catalyzed process, 55
- Spacer-modified disaccharides are an indication for two separate GlcNAc binding-sites in galactosyltransferase, differing rates of galactosylation of homologous, 325

- Starches, effect of heat–moisture treatment on the structure and physicochemical properties of cereal, legume, and tuber, 33
- Structural and molecular properties of the arabinogalactan isolated from Mongolian larchwood (*Larix dahurica* L.), 317
- Structural roles of calcium ions and side chains in welan: an X-ray study, 183
- Sugar formazans, 2-acetamido-2-deoxyaldono-lactones from, 85
- Synthesis of di- and tri-saccharides with intramolecular NH–glycosidic linkages: molecules with flexible and rigid glycosidic bonds for conformational studies, 159
- Synthesis of the Forssman pentasaccharide and terminal tetra-, tri-, and di-saccharide fragments, 137
- Synthesis of the globotetraose tetrasaccharide and terminal tri- and di-saccharide fragments, 117
- Tetrasaccharide and terminal tri- and di-saccharide fragments, synthesis of the globotetraose, 117
- Tetrasaccharide thioglycoside, synthesis and NMR spectra of a protected branched, a useful intermediate for the synthesis of branched oligosaccharides, 69
- Thioglycoside, synthesis and NMR spectra of a protected branched tetrasaccharide, a useful intermediate for the synthesis of branched oligosaccharides, 69
- UDP-*N*-Acetylmuramic acid, synthesis of  $\alpha$  and  $\beta$  anomers, 107
- Welan polysaccharide: conformational transitions and gel formation in aqueous dimethyl sulfoxide, native ordered structure of, 209
- Welan: an X-ray study, structural roles of calcium ions and side chains in, 183
- X-ray structure of methyl 1,6-di-*O*-(4-bromobenzoyl)-3,4-di-*O*-(4-methoxycinnamoyl)- $\beta$ -D-fructofuranoside, 269
- X-ray study, structural roles of calcium ions and side chains in welan: an, 183