SUBJECT INDEX

- 2-Acetamido-2-deoxy-D-glucopyranosyl oligosaccharides, preparation from chitin of, 57
- Acetamido derivatives, chemical modification of melibiose: syntheses of 6'-, 218
- Acetoacetylation of O-(hydroxypropyl)cellulose by 2,2,6-trimethyl-4H-1,3-dioxin-4-one, 232
- Acidic polysaccharides in solution, assay with poly (hexamethylenebiguanidium chloride) of, 79
- Alcaligenes ATCC 31961, structural studies of a polysaccharide (S-194) elaborated by, 157
- 4'-Amino-4'-deoxy- and 4'-amino-4',6-dideoxycellobiose, synthesis of N-[(1R)-(1,5/4,6)-4,5,6trihydroxy-3-hydroxymethyl-2-cyclohexenyl] derivativesof,264
- Amino-2,3-dideoxyinositol (an intermediate in the biosynthesis of 2-deoxystreptamine) and its D-epi stereoisomer, chemical synthesis of D-myo-3-, 247
- A minor, protein-containing galactomannan from a sodium carbonate extract of *Cordyceps* sinensis, 189
- Analysis of the chain length of oligomers and polymers of sialic acid isolated from Neisseria meningitidis group B and C and Escherichia coli K1 and K92. 123
- Antigenic lipopolysaccharide O-chains produced by Salmonella urbana and Salmonella godesberg, the structure of the, 107
- Assay of acidic polysaccharides in solution with poly(hexamethylenebiguanidium chloride), 79
- Benzoyl derivatives of cellobiose, lactose, and maltose, ¹³C-n.m.r. spectra of, 207
- Bovine serum albumin, O-(3,6-di-O-methyl-β-D-glucopyranosyl)-(1→4)-O-(2,3-di-O methyl-α-L-rhamnopyranosyl)-(1→9)-oxynonanoyl-, chemical synthesis and seroreactivity of, 39
- Branched-chain deoxyinositol, DL-1-C-hydroxymethyl-1,2,3,4,5-cyclohexanepentol, synthesis of five diastereoisomers of the, 273
- Cellobiose, benzoyl derivative, ¹³C-n.m.r. spectra of, 207
- Cellulose by 2,2,6-trimethyl-4H-1,3-dioxin-4-one, acetoacetylation of O-(hydroxypropyl), 232
- Chemical modification of melibiose: syntheses of 6'-acetamido derivatives, 218
- Chemical synthesis and seroreactivity of O-(3,6-di-O-methyl-β-D-glucopyranosyl)-(1-4)-O-(2,3-di-O-methyl-α-L-rhamnopyranosyl)-(1-9)-oxynonanoyl-bovine serum albumin the

- leprosy-specific natural disaccharide-octyl-neoglycoprotein, 39
- Chemical synthesis of D-myo-3-amino-2,3-dideoxyinositol (an intermediate in the biosynthesis of 2-deoxystreptamine) and its D-epi stereoisomer, 247
- Chitin, fluorohydrolysis, 57
- Chitin, heparinoids on the hydrolytic activity of thrombin, inhibitory action of, 286
- Conformational analysis of "bisected" pentasaccharide of glycoprotein core, 87
- Convenient and high-yielding synthesis of 1,2,3,4,6-penta-O-acetyl-β-D-[1-2H] gluco-pyranose, 282
- 3-Cyano-Δ²- and -Δ³-dihydro-pyran and -thiopyran derivatives, synthesis of, 9
- 1-O-Deacetylation, regioselective, with sodium methoxide, a facile procedure for, of fully acylated sugars, 241
- 2-Deoxy-D-arabino-hexitol and its oxidation to 5deoxy-D-threo-hexulose ("5-deoxy-D-fructose") using immobilized cells of Gluconobacter oxydans, a synthesis of, 19
- 5-Deoxy-D-threo-hexulose ("5-deoxy-D-fructose") using immobilized cells of Gluconobacter oxydans, a synthesis of 2-deoxy-D-arabino-hexitol and its oxidation to, 19
- 2-Deoxystreptamine) and its D-epi stereoisomer, chemical synthesis of D-myo-3-amino-2,3-dideoxyinositol (an intermediate in the biosynthesis of, 247
- Dextrans, NRRL, methylation analyses of, by capillary gas-liquid chromatography, 199
- 1,4-Diamino-1,4-dideoxy-D-galactitol and 1,5-diamino-1,5-dideoxy-L-altritol, synthesis of, 25
- Dihydro-pyran and -thiopyran derivatives, synthesis of 3-cyano- Δ^2 and - Δ^3 -, 9
- Disaccharide-octyl-neoglycoprotein, the leprosyspecific natural, 39
- Enantiospecific synthesis of (+)-exo-brevicomin from p-xylose, 236
- (+)-exo- Brevicomin, enantiospecific synthesis from p-xylose of, 236
- Facile procedure for regioselective 1-O-deacylation of fully acylated sugars with sodium methoxide, 241
- Fluorohydrolysis of chitin, 57

c10 SUBJECT INDEX

- α-D-Galactofuranoside, 8-methoxycarbonyloctyl, synthesis of, 1
- 3-O-α-D-Galactofuranosyl-α-D-mannopyranoside, 8-methoxycarbonyloctyl, synthesis of, 1
- Galactomannan, a minor protein-containing, from a sodium carbonate extract of Cordyceps sinensis, 189
- Gangliosides GM₁ and GM₂, total synthesis of, c1 Gellan gum, identification and location of L-glycerate in, 173
- Glucan produced by a cariogenic oral Streptococcus, structural elucidation of a water-insoluble, 69
- β-D-[1-2H]-Glucopyranose, 1,2,3,4,6-penta-Oacetyl-, a convenient and high-yielding synthesis of, 282
- L-Glycerate, an unusual acyl substituent in gellan gum, identification and location of, 173
- Glycoprotein core, conformational analysis of "bisected" pentasaccharide of, 87
- Heparinoids on the hydrolytic activity of thrombin, inhibitory action of, 286
- DL-1-C-Hydroxymethyl-1,2,3,4,5-cyclohexanepentol, synthesis of five diastereoisomers of, 273
- (Hydroxypropyl)cellulose by 2,2,6-trimethyl-4*H*-1,3-dioxin-4-one, acetoacetylation of *O*-, 232
- Identification and location of L-glycerate, an unusual acyl substituent in gellan gum, 173
- Inhibitory action of chitin heparinoids on the hydrolytic activity of thrombin, 286
- Ketonucleosides, synthesis of unsaturated, and their coupling with cancer-specific proteins, 256
- Lactose, benzoyl derivative, ¹³C-n.m.r. spectra of, 207
- Levoglucosenone, Michael additions of thiols to, 225
- Maltose, benzoyl derivative, ¹³C-n.m.r. spectra of, 207
- α-D-Mannopyranoside and 2-O-α-D-mannopyranoside, 8-methoxycarbonyloctyl, synthesis of, 1
- Melibiose: syntheses of 6'-acetamido derivatives, chemical modification of, 218
- 8-Methoxycarbonyloctyl glycosides, synthesis of,
- Methylation analyses of NRRL dextrans by capillary gas-liquid chromatography, 199
- Methyl 2-O-α-L-rhamnopyranosyl-α-L-rhamnopyranoside and two analogues thereof, synthesis of, 214
- Michael additions of thiols to levoglucosenone, 225

Oligomers and polymers of sialic acid isolated from *Neisseria meningitidis* group B and C and *Escherichia Coli* K1 and K92, analysis of the chain length of, 123

- Pentasaccharide of glycoprotein core, "bisected" conformational analysis of, 87
- Plantago asiatica, relationship between chemical structure and activating potencies of complement by an acidic polysaccharide from the seed of, 137
- Polysaccharide (S-194) elaborated by *Alcaligenes* ATCC 31961, structural studies of a, 157
- Polysaccharide (S-88) elaborated by Pseudomonas ATCC 31554, structural studies of a, 165
- Polysaccharide from the seed of *Plantago asiatica*, relationship between chemical structure and activating potencies of complement by an acidic, 137
- Polysaccharides in solution, assay with poly(hexamethylenebiguanidinium chloride) of acidic, 79
- Pseudomonas ATCC 31554, structural studies of a polysaccharide (S-88) elaborated by, 165
- Pseudo-trisaccharide analogues of adiposin-1 and amylostatin XG, synthesis of, 264
- Relationship between chemical structure and activating potencies of complement by an acidic polysaccharide from the seed of *Plantago asiatica*, 137
- Salmonella godesburg, the structure of the antigenic lipopolysaccharide O-chains produced by Salmonella urbana and, 107
- Salmonella urbana and Salmonella godesberg, the structure of the antigenic lipopolysaccharide Ochains produced by, 107
- Sialic acid isolated from N. meningitidis group B and C and E. coli K1 and K92, analysis of the chain length of oligomers and polymers of, 123
- Streptococcus agalactaie type III, structural studies of a teichoic acid from, 147
- Streptococcus, structural elucidation of a water-insoluble glucan produced by a cariogenic oral, 69
- Structural elucidation of a water-insoluble glucan produced by a cariogenic oral *Streptococcus*, 69
- Structural studies of a polysaccharide (S-194) elaborated by *Alcaligenes* ATTC 31961, 157
- Structural studies of a polysaccharide (S-88) elaborated by *Pseudomonas ATCC* 31554, 165
- Structural studies of a teichoic acid from Streptococcus agalactaie type III, 147
- Synthesis of 7-[6-O-(5-carboxypentyl)-3,4-dideoxy- and 3,4-dideoxy-6-O-(6-hydroxyhexyl)-β-D-glycero-hex-3-enopyranosyl-2-ulose]theophyllines and their coupling with cancer-specific proteins, 256

SUBJECT INDEX C11

- Synthesis of 3-cyano- Δ^2 and - Δ^3 -dihydro-pyran and -thiopyran derivatives, 9
- Synthesis of 2-deoxy-D-arabino-hexitol and its oxidation to 5-deoxy-D-threo-hexulose ("5-deoxy-D-frucose") using immobilized cells of Gluconobacter oxydans, 19
- Synthesis of 1,4-diamino-1,4-dideoxy-D-galactitol and 1,5-diamino-1,5-dideoxy-L-altritol, 25
- Synthesis of five diastereoisomers of the branched-chain deoxyinositol, DL-1-C-hydroxymethyl-1,2,3,4,5-cyclohexanepentol, 273
- Synthesis of methyl 2-O-α-L-rhamnopyranosyl-α-L-rhamnopyranoside and two analogues thereof, 214
- Synthesis of N-[(1R)-(1,5/4,6)-4,5,6-trihydroxy-3-

- hydroxymethyl-2-cyclohexenyl] derivatives of 4'-amino-4'-deoxy- and 4'-amino-4'-,6'-dideoxy-cellobiose, 264
- Teichoic acid from Streptococcus agalactaie type III, structural studies of a, 147
- Thiols, Michael additions of, to levoglucosenone, 225
- Total synthesis of gangliosides GM₁ and GM₂, c1
- Unsaturated ketonucleosides and their coupling with cancer-specific proteins, synthesis of, 256
- D-Xylose, enantiospecific synthesis of (+)-exobrevicomin from, 236