Graphical Abstracts

Carbohydr. Res. **2003,** *338*, 2163

Synthesis of an octamannosyled glycan chain, the key oligosaccharide structure in ER-associated degradation

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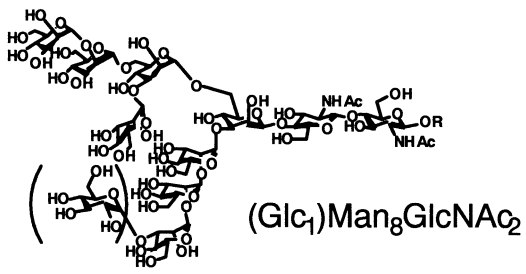

Carbohydr. Res. **2003,** *338*, 2169

A practical synthesis of α-D-Man*p*-(1→3)-α-D-Man*p*-(1→2)-[α-D-Glc*p*-(1→3)]-α-D-Man*p*-(1→2)-α-D-Man*p*-(1→2)-α-D-Man*p*, an O-specific heterohexasaccharide fragment of *Citrobacter braakii* O7a, 3b, 1c

Langqiu Chen, Fanzuo Kong

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α-D-Man*p*-(1→3)-α-D-Man*p*-(1→2)-[α-D-Glc*p*-(1→3)]-α-D-Man*p*-(1→2)-α-D-Man*p*-(1→2)-α-D-Man*p*-1-OMe.

Carbohydr. Res. **2003,** *338*, 2177

Neighboring-group participation in benzylidene acetal ring-opening of a 2-cyano-2-deoxypyranoside derivative by diethylaluminum cyanide

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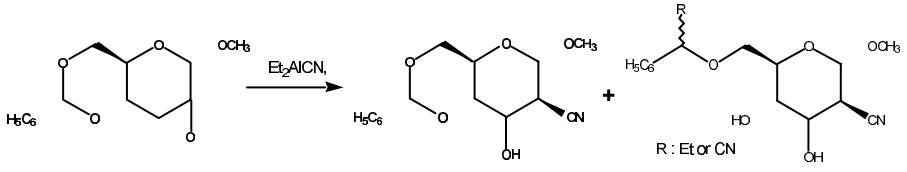

Carbohydr. Res. **2003,** *338*, 2185

Synthesis and characterisation of sulfated amphiphilic α-, β- and γ-cyclodextrins: application to the complexation of acyclovir

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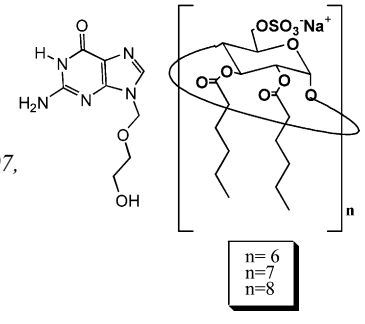

Carbohydr. Res. **2003,** *338*, 2195

FTIR study of state and phase transitions of low moisture sucrose and lactose

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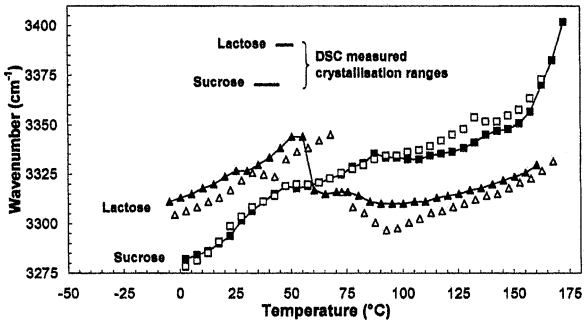

Carbohydr. Res. **2003,** *338*, 2203

Synthesis of β-(1→6)-branched (1→3)-glucododecaose and -glucopentadecaose with alternate β- and α-bonds in the backbone

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β-Glc*p*-(1→3)-[β-Glc*p*-(1→6)]-α-Glc*p*-(1→3)-{β-Glc*p*-(1→3)-[β-Glc*p*-(1→6)]-α-Glc*p*-(1→3)}$_{2-3}$-β-Glc*p*-(1→3)-[β-Glc*p*-(1→6)]-β-Glc*p*1-MP

Carbohydr. Res. **2003,** *338*, 2213

A synergistic reaction mechanism of a cycloalternan-forming enzyme and a D-glucosyltransferase for the production of cycloalternan in *Bacillus* sp. NRRL B-21195

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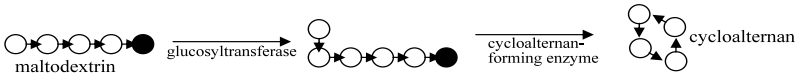

Carbohydr. Res. **2003,** *338*, 2221

Preparation and reactivity of a novel disaccharide, glucosyl 1,5-anhydro-D-fructose (1,5-anhydro-3-*O*-α-glucopyranosyl-D-fructose)

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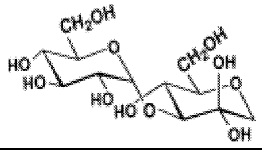

Carbohydr. Res. **2003,** *338*, 2227

Imazalil–cyclomaltoheptaose (β-cyclodextrin) inclusion complex: preparation by supercritical carbon dioxide and ^{13}C CPMAS and ^{1}H NMR characterization

Simona Lai, Emanuela Locci, Alessandra Piras, Silvia Porcedda, Adolfo Lai, Bruno Marongiu

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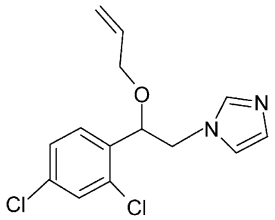
The β-cyclodextrin–imazalil inclusion complex was prepared using supercritical carbon dioxide. The characterization of the structural and dynamic properties of the complex was performed by ^{1}H NMR spectroscopy in solution and by ^{13}C CPMAS NMR in the solid state.

Imazalil



Carbohydr. Res. **2003,** *338*, 2233

Förster energy-transfer studies between Trp residues of α_1-acid glycoprotein (orosomucoid) and the glycosylation site of the protein

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Energy-transfer experiments between Trp residues of α_1-acid glycoprotein and Calcofluor White were performed. Efficiency (E) of Trp fluorescence quenching (45%) and the Förster distance R_o (17 Å) indicate a very weak energy transfer.

Carbohydr. Res. **2003,** *338*, 2237

A mild and convenient indium(III) chloride-catalyzed synthesis of thioglycosides

Saibal Kumar Das, Joyita Roy, Kalusani Anantha Reddy, Chandrasekhar Abbineni

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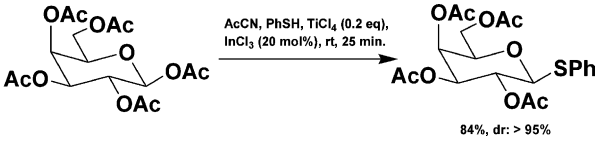
A convenient and high yielding stereoselective preparation of sugar thioglycosides is being presented here.



Carbohydr. Res. **2003,** *338*, 2241

Efficient synthesis of 5-thio-D-arabinopyranose and 5-thio-D-xylopyranose from the corresponding D-pentono-1,4-lactones

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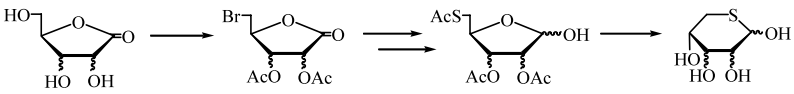

Carbohydr. Res. **2003,** *338*, 2247

Alkaline chitosan solutions

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[b]*Department of Materials Sciences, Faculty of Engineering, Polytechnic University of Marche, Via Brecce Bianche, IT-60100 Ancona, Italy*
[c]*Department of Physics and Engineering of Materials and Territory and National Institute for the Physics of Matter, INFM, Polytechnic University of Marche, Via Brecce Bianche, IT-60100 Ancona, Italy*

$$\text{Chit-NH}_2 + \text{NH}_4\text{HCO}_3 \rightarrow \text{Chit-NHCO}_2^- \text{NH}_4^+ + \text{H}_2\text{O} \rightarrow \text{Chit-NH}_2 + \text{CO}_2 + \text{NH}_3 + \text{H}_2\text{O}$$