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Carbohydrate
RESEARCH

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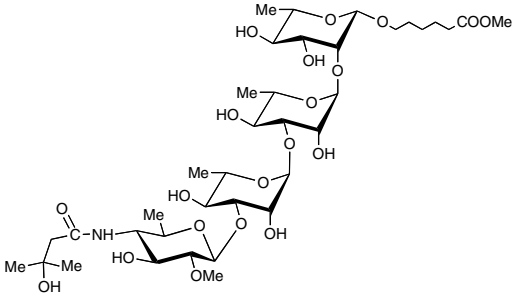
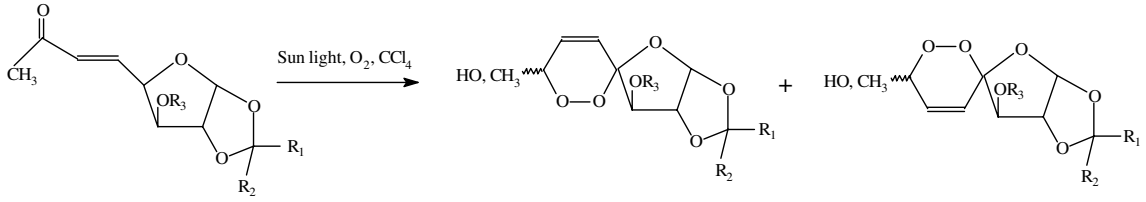
Contents

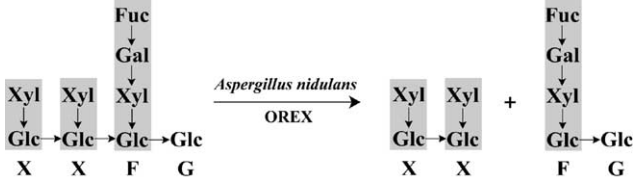
RAPID COMMUNICATION

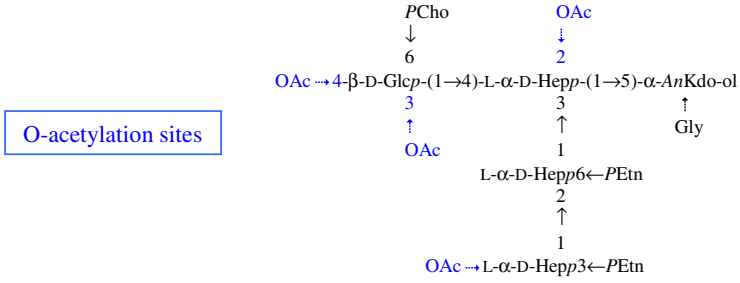


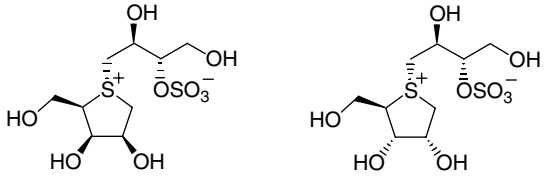
Synthesis of the tetrasaccharide side chain of the major glycoprotein of the *Bacillus anthracis* exosporium.

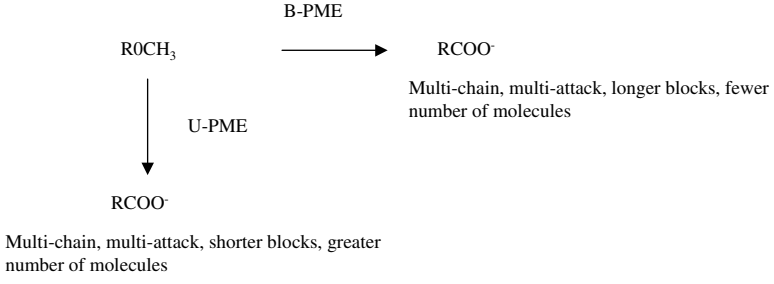
FULL PAPERS





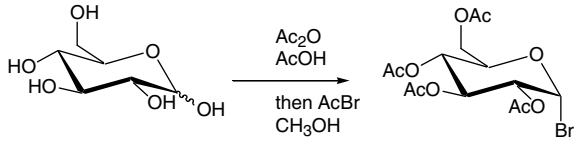


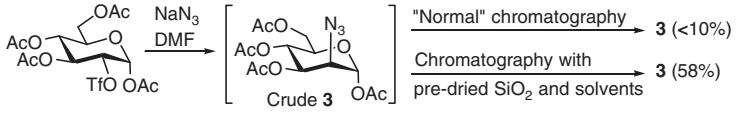


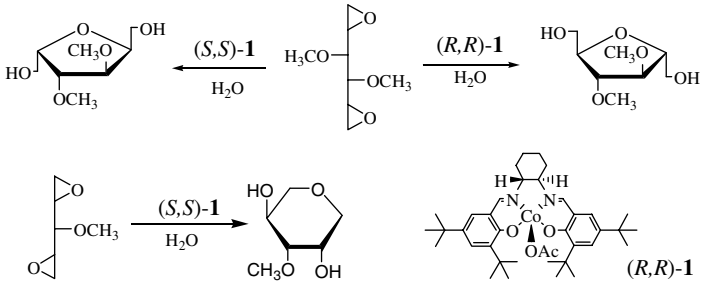


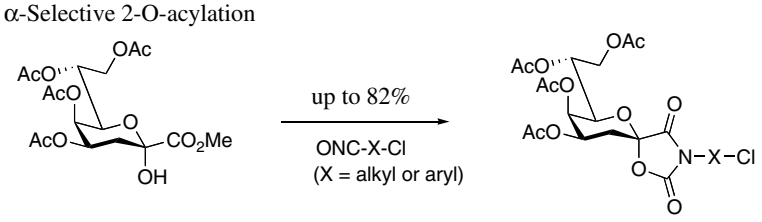
Pure chitosan, glutaraldehyde crosslinked chitosan, and a blend of chitosan with poly(ethylene oxide) (PEO) membranes were prepared and characterized in terms of their swelling capacity and permeability to a drug model (sulfamerazine sodium salt).

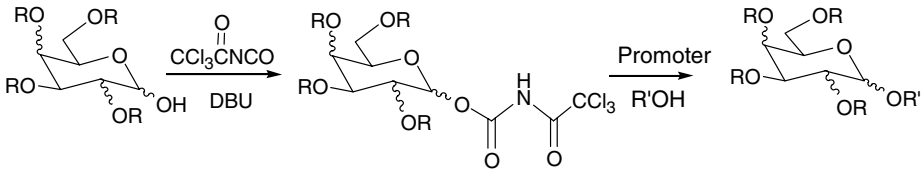
NOTES











←2)-α-Col*p*-(1→4)-β-D-Glc*p*NAc-(1→4)-β-D-Glc*p*A-(1→3)-β-D-Gal*p*NAc-(1→
α-Col*p*-(1→2)-β-D-Gal*p*-(1→3)┘

Distribution of reaction products as compound **1** equivalents, based on peak area in GLC-FID analyses

	Compound	Relative amount (%)		Compound	Relative amount (%)
1	Galactosylgluconic acid	100.0	**10**	Lyxonic acid	0.9
2	Galactosylerythronic acid	2.9	**11**	Arabinonic acid	1.4
3	Galactosylarabinonic acid	7.5	**12**	Xylonic acid	0.5
4	Galacturonosylarabinonic acid	0.4	**13**	Threonic acid	1.0
5	Galactosylarabinaric acid	0.5	**14**	Erythronic acid	0.4
6	Galactosylglucaric acid	0.2	**15**	Tartaric acid	3.7
7	Galactose	2.5	**16**	Glyceric acid	0.6
8	Gluconic acid	3.2	**17**	Oxalic acid	0.6
9	Galactonic acid	2.3			

*Corresponding author
Supplementary data available via ScienceDirect

COVER

Model of blood group A trisaccharide in the binding site of the *Dolichos biflorus* lectin as established by a combination of theoretical and experimental approaches. Molecular modeling of the oligosaccharide demonstrated that two different conformations could be adopted by the trisaccharide in the binding site. NMR experiments using transferred nuclear Overhauser effects (TRNOE) displayed intermolecular contacts (blue arrows) corresponding to only one of the two theoretical conformations. This work is a collaboration between Anne Imberty (CERMAV, Grenoble) and Thomas Peters (University of Lübeck) and was presented during the XXIInd International Carbohydrate Symposium (Glasgow, 2004) on the occasion of the Whistler award.

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