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Carbohydrate
RESEARCH

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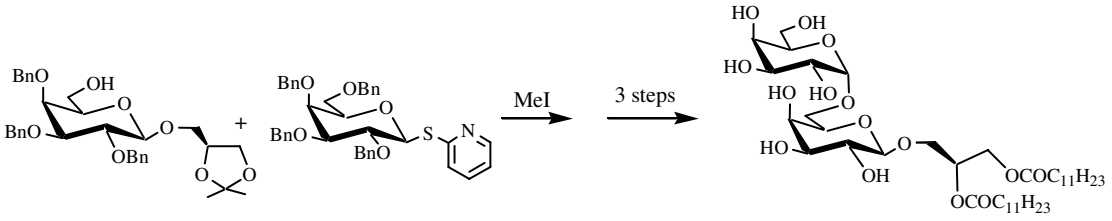
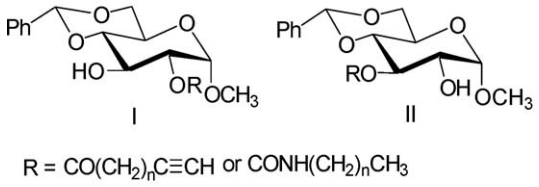
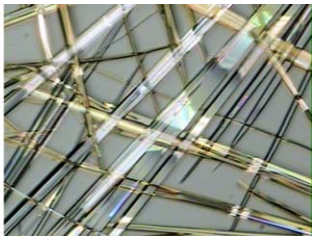
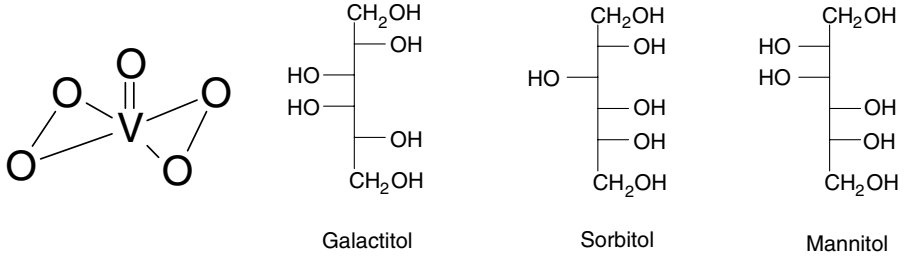
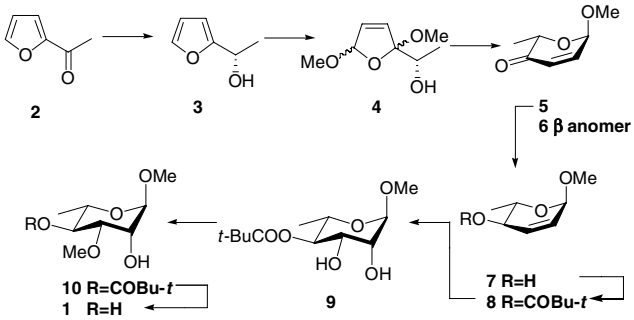


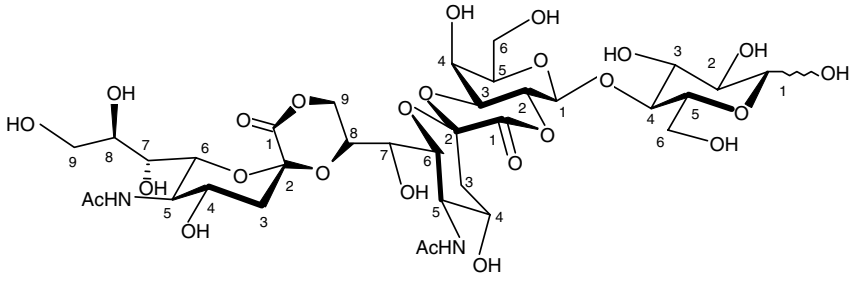


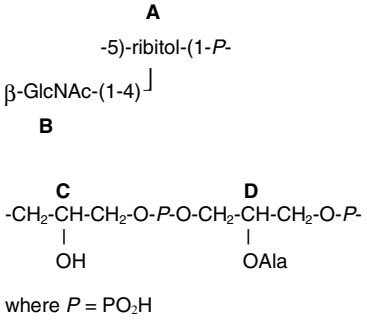


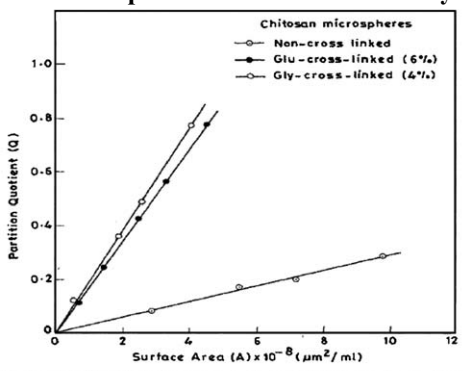
Short chain functionalized glucose derivatives I and II are excellent hydrogelators, they formed interesting self-assembling nanostructures.



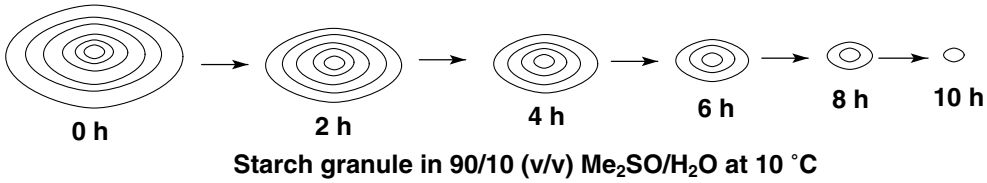


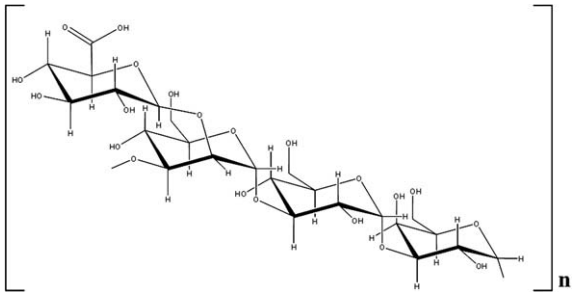




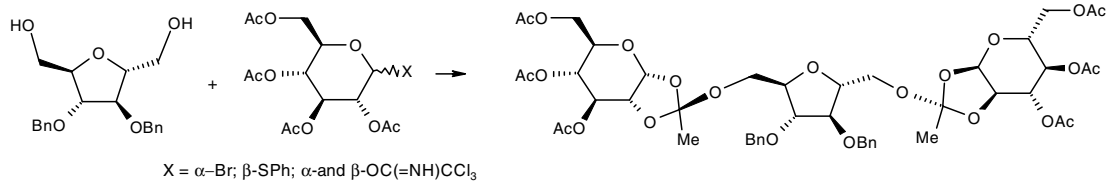


Hydrophobicity of chitosan and cross-linked chitosan microspheres





NOTES

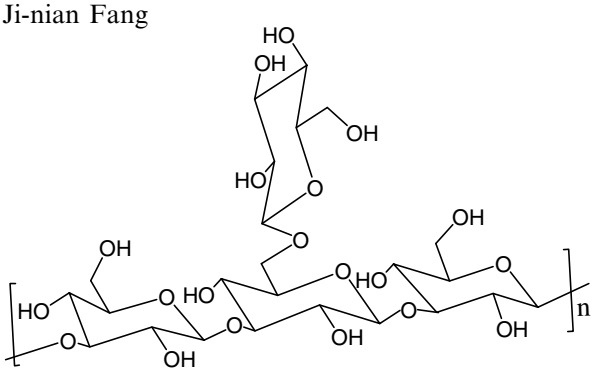


The degree of acetylation (DA) of a sample of chitosan can be calculated by the equation:

$$\mathrm{DA} = \frac{161.1 \cdot A \cdot V - 0.0218m}{3.3615m - 42.1 \cdot A \cdot V}$$

where m is the number of milligrams of chitosan, V is the volume of the solution in liters, and A is the UV absorbance of the solution.

$$[\rightarrow 4)\text{-}\beta\text{-D-Glc}p\text{A-}(1\rightarrow 4)\text{-}\beta\text{-D-Glc}p\text{A-}(1\rightarrow 3)\text{-}\alpha\text{-D-Fuc}p\text{NAc4N-}(1\rightarrow 2)\text{-}\beta\text{-D-Qui}p\text{4NFo-}(1\rightarrow 2)\text{-}\beta\text{-D-Rib}f\text{-}(1\rightarrow]_n$$



1. →1)-*sn*-Gro-(3-P→, 2. →1)-*sn*-Gro-(3-P→ and 3. →1)-*sn*-Gro-(3-P→

2) 2)
↑ ↑
α-D-Glc*p*NAc-(1 L-Glu-(1

OTHER CONTENT

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Image represents a key process of malaria parasites multiplying in, and rupturing from the human blood cell. The parasite surface is coated with glycosylphosphatidylinositols (GPIs), which have been identified as the malaria toxin by a collaborative effort between the research groups headed by Peter Seeberger (Swiss Federal Institute of Technology (ETH) Zürich, Switzerland) and Louis Schofield (Walter and Eliza Hall Institute of Medical Research, Australia). The space filling model represents the native GPI molecule from malaria parasite that has been chemically synthesized by the Seeberger group. Professor Peter Seeberger was presented with the Carbohydrate Research Award at the 13th European Carbohydrate Symposium (Bratislava, 2005).

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