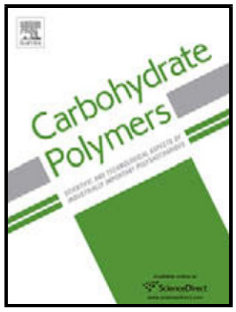

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Chemico-physical and pharmacodynamic properties of extracellular *Dictyosphaerium chlorelloides* biopolymer

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Highlights

- The highly viscous extracellular proteoglycan was produced by *D. chlorelloides.*
- The biopolymer was rich in galactose and its 2-*O*-methyl derivative.
- The biopolymer showed a very complex structure with high sugar binding variability.
- Pharmacodynamic tests showed a significant antitussive effect of the biopolymer.