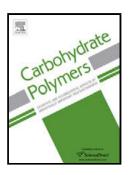
## Accepted Manuscript

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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.

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