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Characterization of bioactive chitosan and sulfated chitosan from *Doryteuthis singhalensis* (Ortmann, 1891)

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HIGHLIGHTS

- Chitosan was synthesized from the pen of *Doryteuthis singhalensis*
- Further, chitosan was sulfated with chlorosulfonic acid to get sulfated chitosan
- The structural and physiochemical characters were analyzed by various techniques
- Chitosan possess potent antioxidant property
- Sulfated chitosan have good anticoagulant potentials

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