

Studies on the Yield and Infrared Spectra of Phycocolloids from *Chondrococcus hornemannii* (Lyngbye) Schmitz and *Sarconema filiforme* (Sonder) Kylin from Tanzania

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Abstract

Phycocolloids from *Chondrococcus hornemannii* and *Sarconema filiforme* have been investigated and found to be carrageenans. Yields of 45.1 ± 0.1 and $35.7 \pm 2.8\%$ (of the dry weight) were obtained in the two species, respectively.

The phycocolloid from *S. filiforme* showed a total sulphate of $18.3 \pm 0.5\%$ and IR absorption peaks characteristic of κ -carrageenan. That of *C. hornemannii* showed a sulphate content of $24.7 \pm 0.3\%$ and IR spectra and solubility properties akin to those of γ -carrageenan. The economic potential of the seaweeds is discussed.