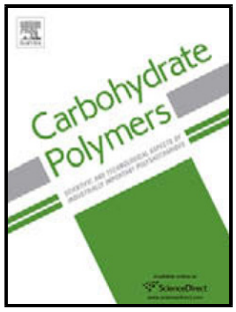

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Colloid Properties of Hydrophobic Modified Alginate: Surface Tension, ζ-potential, Viscosity and Emulsification

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Highlights

- The dispersion medium markedly affected the micelle properties of HM-alginate.
- Anions effect on the HM-alginate follows the order CH_3COO^-<Br^-<NO_3^-<Cl^-< SO_4^{2-}.
- HM-alginate can be used as an effective emulsifier to stabilize O/W emulsions.

Abstract

Micelle properties of hydrophobic modified alginate (HM-alginate) in various dispersion media have been studied by surface tension, ζ-potential, and viscosity measurements. Effect of salt on micelle properties showed that the presence of