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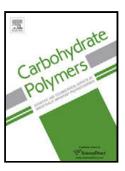
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### ACCEPTED MANUSCRIPT

# 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<sub>3</sub>COO<sup>-</sup><Br<sup>-</sup><NO<sub>3</sub><sup>-</sup><Cl<sup>-</sup><SO<sub>4</sub><sup>2-</sup>.
- 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,  $\zeta$ -potential, and viscosity measurements. Effect of salt on micelle properties showed that the presence of

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