

Accepted Manuscript

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PII: S0144-8617(17)31208-0
DOI: <https://doi.org/10.1016/j.carbpol.2017.10.052>
Reference: CARP 12901

To appear in:

Received date: 9-6-2017
Revised date: 12-10-2017
Accepted date: 13-10-2017

Please cite this article as: Wu, Zongmei., Wu, Jie., Zhang, Ruling., Yuan, Shichao., Lu, Qingliang., & Yu, Yueqin., Colloid Properties of Hydrophobic Modified Alginate: Surface Tension, ζ -potential, Viscosity and Emulsification. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2017.10.052>

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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 $\text{CH}_3\text{COO}^- < \text{Br}^- < \text{NO}_3^- < \text{Cl}^- < \text{SO}_4^{2-}$.
- 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

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