

## Accepted Manuscript

Title: Fluorescence Probe Based Carboxymethyl Cellulose/Tb(III) Nanocomposites for Detection of  $Mn^{2+}$  with Simplicity, Rapidness and High Sensitivity

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PII: S0144-8617(18)30190-5

DOI: <https://doi.org/10.1016/j.carbpol.2018.02.042>

Reference: CARP 13304

To appear in:

Received date: 6-11-2017

Revised date: 9-2-2018

Accepted date: 14-2-2018



Please cite this article as: Ye, Jun., Zhang, Mingming., & Xiong, Jian., Fluorescence Probe Based Carboxymethyl Cellulose/Tb(III) Nanocomposites for Detection of  $Mn^{2+}$  with Simplicity, Rapidness and High Sensitivity. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2018.02.042>

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# Fluorescence Probe Based Carboxymethyl Cellulose/Tb(III) Nanocomposites for Detection of $\text{Mn}^{2+}$ with Simplesness, Rapidness and High Sensitivity

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## Highlights

- A novel CMC/Tb(III) nanocomplex probe for detection of  $\text{Mn}^{2+}$  in aqueous solution
- high sensitivity and selectivity fluorescence probe for detecting  $\text{Mn}^{2+}$  in tap water
- Syntheses of the probe for detection  $\text{Mn}^{2+}$  under mild and eco-friendly condition

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