

Supplementary Materials

**Preparation of Novel Cerium(IV)-Crosslinked
Carboxymethyl- β -Cyclodextrin for Efficient Adsorption of
Tetracycline Antibiotic**

Lin Li^{a,b}, Shikai Xue^{a,b}, Xin Li^{a,b}, Linqi Liu^b, Haiyan Wang^b, Qiujun Lu^b, Guoxing Yin^b, Ningli
Tang^{a*}, Fuyou Du^{a,b*}

^a College of Chemistry and Bioengineering, Guilin University of Technology, Guilin 541004,
China

^b College of Biological and Chemical Engineering, Changsha University, Changsha 410022,
China

* Corresponding author: F. Du, N. Tang

Tel.: +86-731-84261506

Fax.: +86-731-84261382

E. mail: tangnl@glut.edu.cn (N. Tang)

dufu2005@126.com (F. Du)

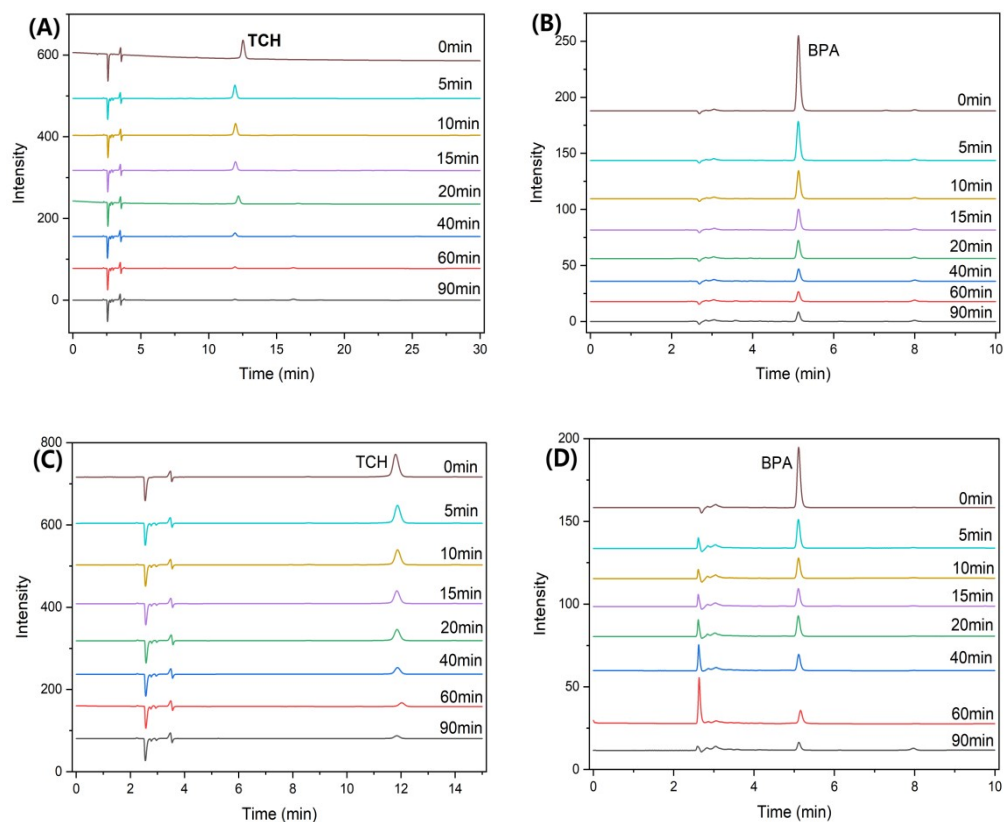


Figure S1. Typical Liquid chromatograms of TCH (A) and BPA (B) before and after adsorption with Ce/CM-β-CD in a unitary system; and typical Liquid chromatograms of TCH (C) and BPA (D) before and after adsorption with Ce/CM-β-CD in a binary system.

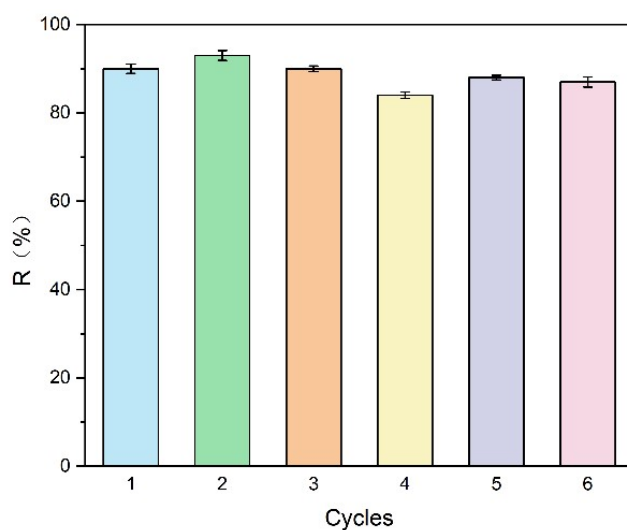


Figure S2. Experimental diagram of Ce/CM-β-CD desorption cycle

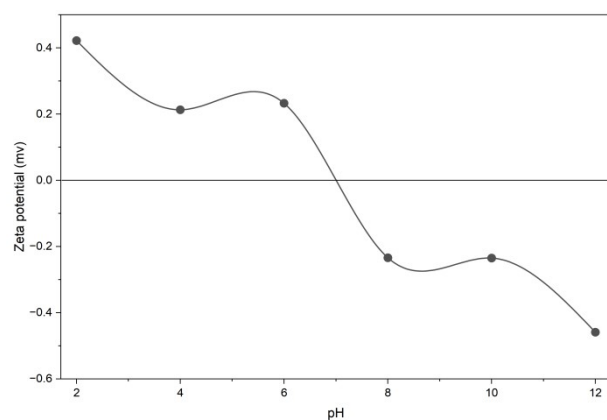


Figure S3 The zeta potential of Ce/CM- β -CD at different pH

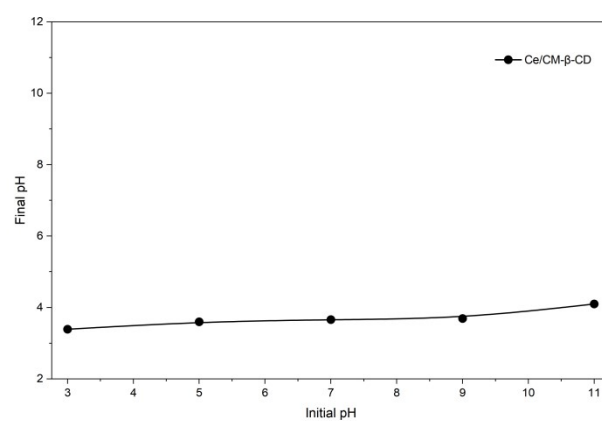


Figure S4 Equilibrium pH for Ce/CM- β -CD