

A Novel Assembly of Au NPs-beta-CDs-FL for Fluorescent Probing Cholesterol and Its Application in Blood Serum

5 Ning Zhang, Yuanyuan Liu, Lili Tong, Kehua Xu, Linhai Zhuo and Bo Tang*

College of Chemistry, Chemical Engineering and Materials Science, Engineering Research Center of Pesticide and Medicine Intermediate Clean Production, Ministry of Education, Key Laboratory of Molecular and Nano Probes, Ministry of Education, Shandong Normal University, Jinan 250014, P. R. China.

10 Fax: +86 531 861 80017; Tel: +86 531 861 80010; E-mail: tangb@sdu.edu.cn

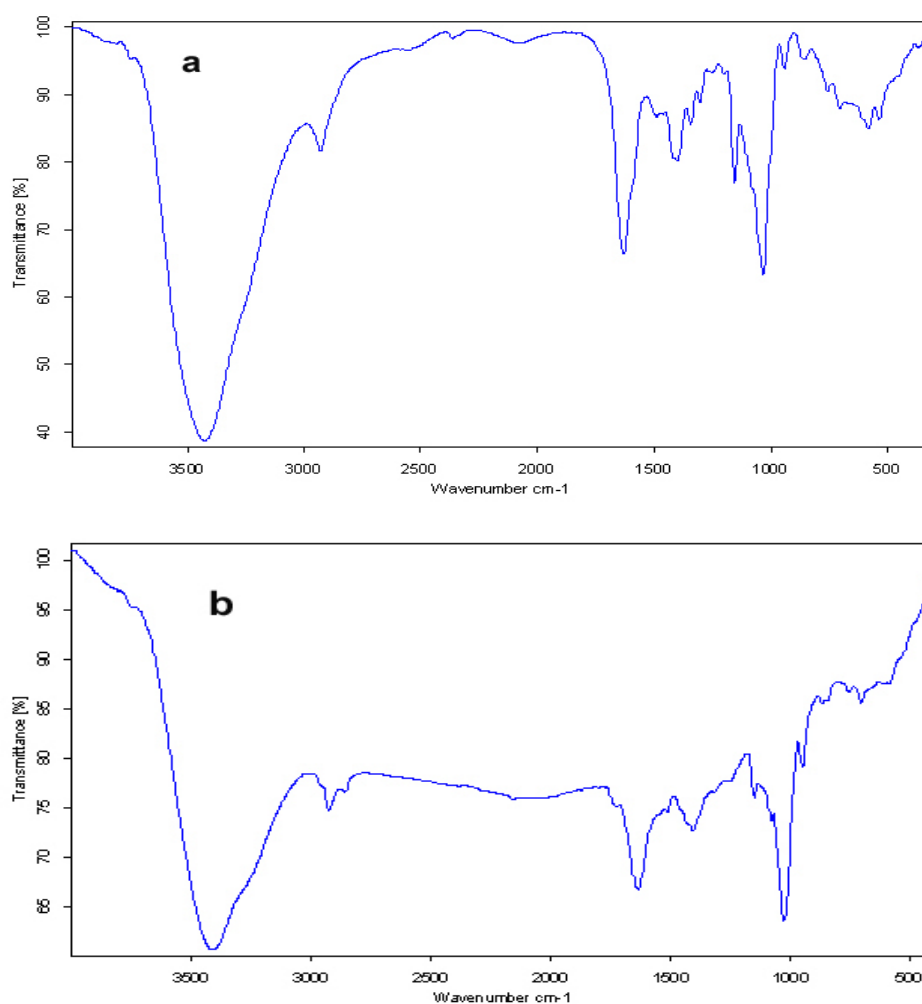


Figure S1. FT-IR spectra of (a) mono-6-thio-β-CD in a KBr pellet and (b) β-CD-modified Au NPs in a KBr pellet. The modified colloidal particles were dried under vacuum, and mixed with KBr for pellet preparation.

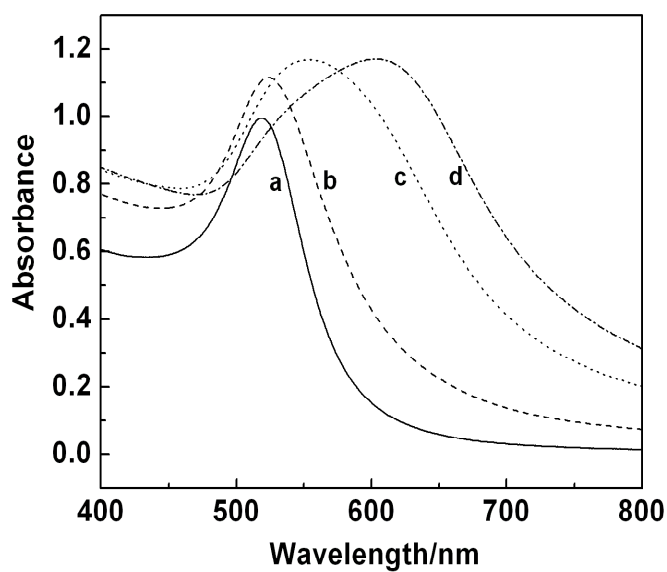


Figure S2. Electronic absorption spectra of aqueous solutions of Au NPs containing the following concentrations of β -SH-CDs during the modification process. (a) 0 mg/mL, 518 nm. (b) 0.2 mg/mL, 524 nm. (c) 0.4 mg/mL, 555 nm. (d) 0.6 mg/mL, 604 nm.