CHEMISTRY
A EUROPEAN JOURNAL

Supporting Information

A New Journey for the Considerable Enhancement of Glucose Oxidase (GOx) Activity: the Simple Assembling of CdTe Quantum Dots and GOx Complex, and Its Glucose Sensing

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Optimal Experimental Conditions for Glucose Sensing: In order to improve the sensitivity of the assembled CdTe QDs-GOx complex as a nanosensor for glucose sensing, the experimental conditions including pH of the solution and amounts of the sensing solution were optimized, respectively, which were shown in figures S1, S2. Besides, the temperature of 40 °C was chosen as the optimal reaction temperature according to the experiment on thermal stability of CdTe QDs-GOx (Figure 9). Finally, we obtain the pH of 7.4, 200 μL of the sensing solution and the reaction temperature of 40 ℃ as optimal experimental conditions.

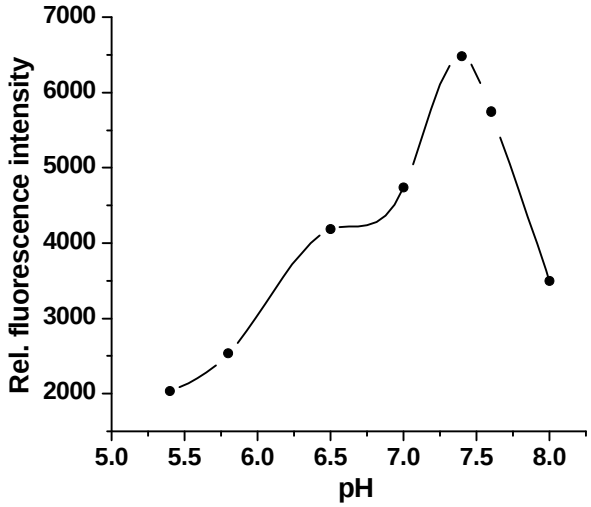

Figure S1. The change of fluorescence intensity at different pH values.

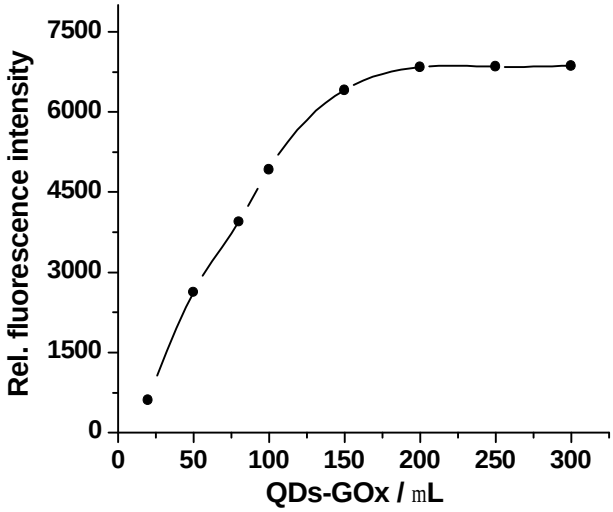

Figure S2. The change of fluorescence intensity after 0.50 mM of glucose was added into different volumes of the CdTe QDs-GOx sensing solution.