Electronic Supplementary Material (ESI) for RSC Advances.
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Supplementary Information 1

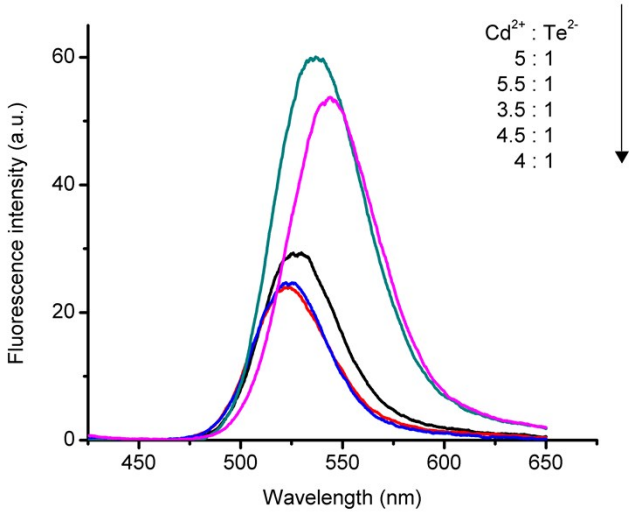

Fig. 1.1 Effect of ratios of [Cd^{2+}]/ [Te^{2-}] on the fluorescence intensity of CdTe: Zn QDs

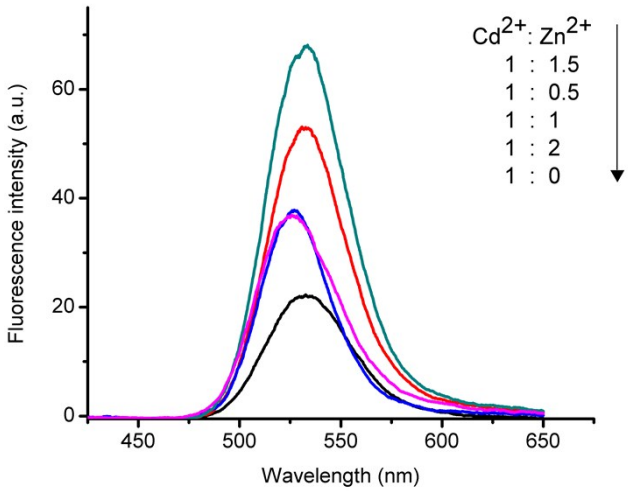

Fig. 1.2 Effect of ratios of [Cd^{2+}]/ [Zn^{2+}] on the fluorescence intensity of CdTe: Zn QDs

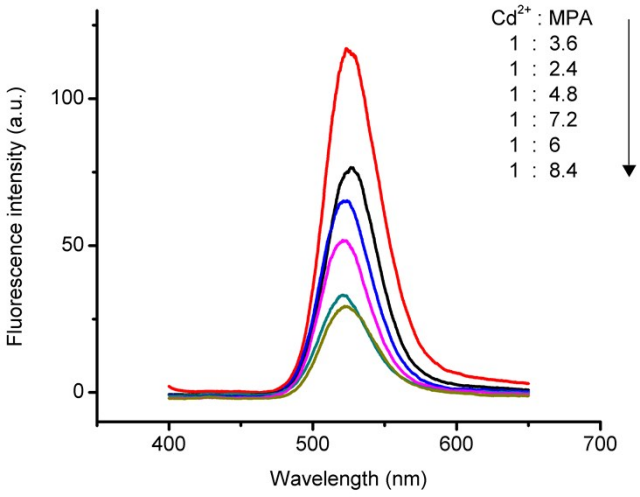

Fig. 1.3 Effect of datios of [MPA]/ [Cd^{2+}] on the fluorescence intensity of CdTe: Zn QDs

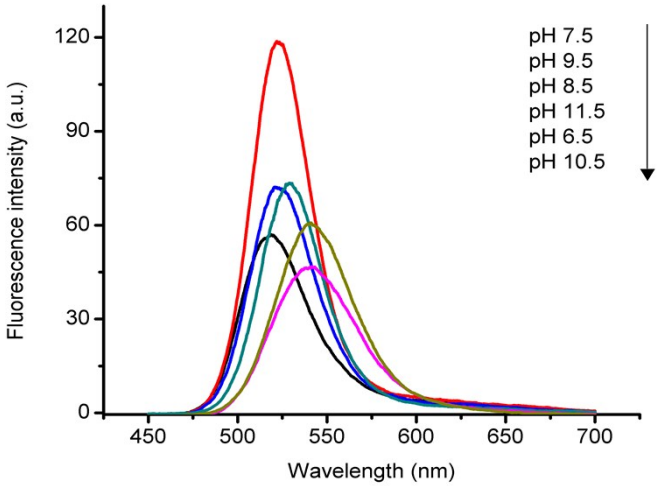

Fig. 1.4 Effect of pH on the fluorescence intensity of CdTe: Zn QDs

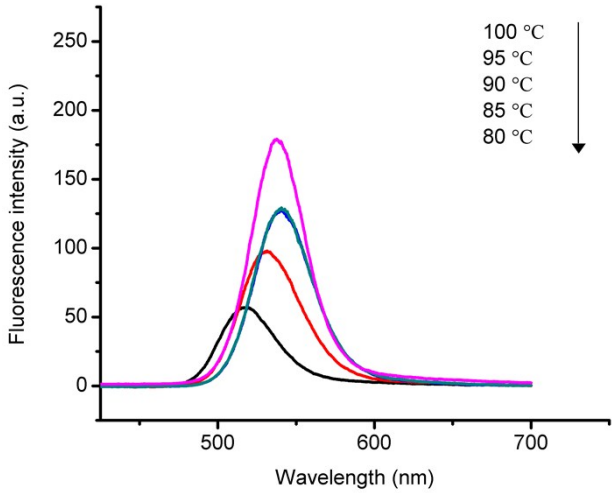

Fig. 1.5 Effect of reaction temperature on the fluorescence intensity of CdTe: Zn QDs

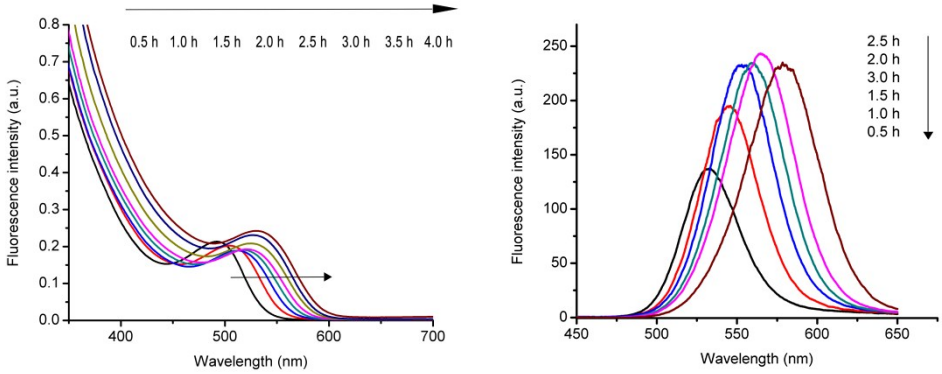

Fig. 1.6 Absorption spectra (left) and fluorescence emission spectra (right) of CdTe: Zn QDs under different reflux reaction time

Supplementary Information 2

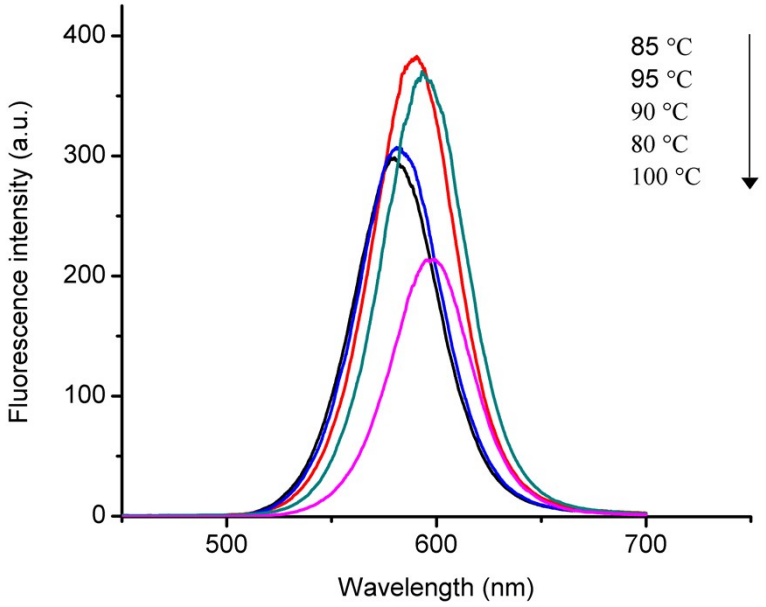

Fig. 2.1 Effect of reflux reaction temperature on the fluorescence intensity of CdTe: Zn/ ZnS QDs

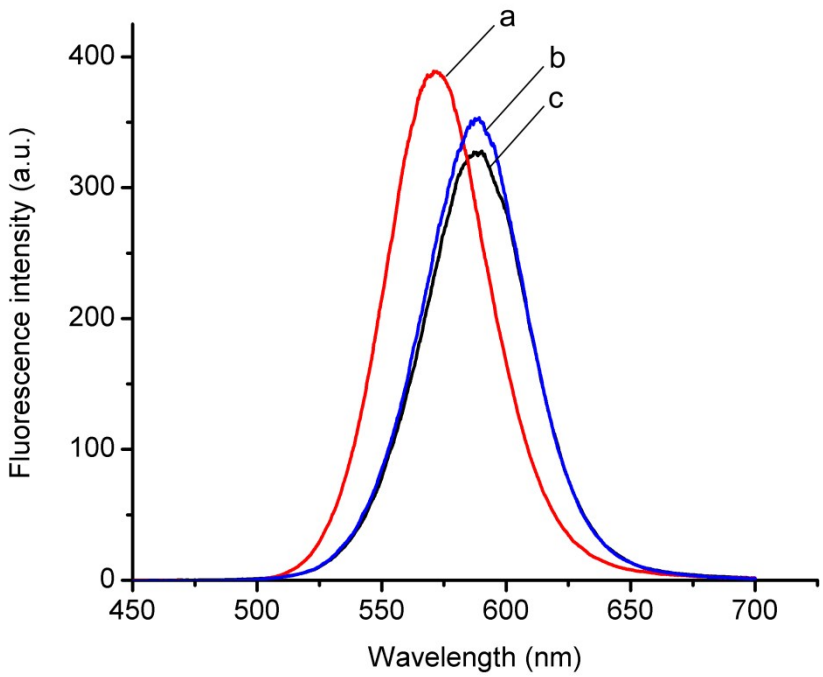

Fig. 2.2 Effect of addition styles of zinc precursor and sulfur precursor on the fluorescence intensity of CdTe: Zn/ZnS QDs

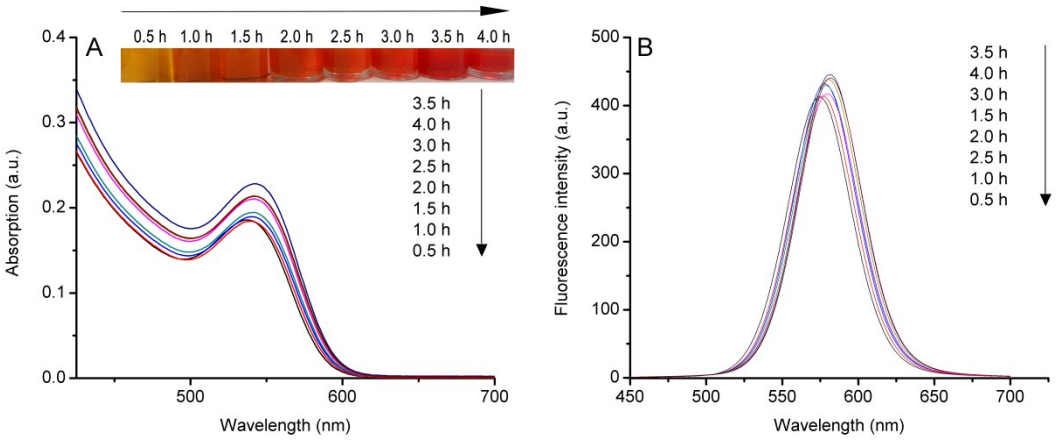

Fig. 2.3 Effect of reflux reaction time on the absorption spectra (A) and fluorescence emission spectra (B) of CdTe: Zn/ZnS QDs

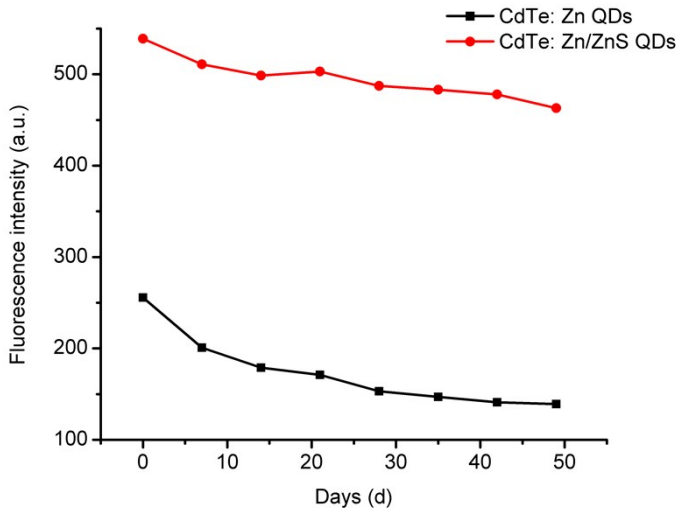

Fig. 2.4 Comparisons of stability between CdTe: Zn/ZnS QDs and CdTe: Zn QDs

Supplementary Information 3

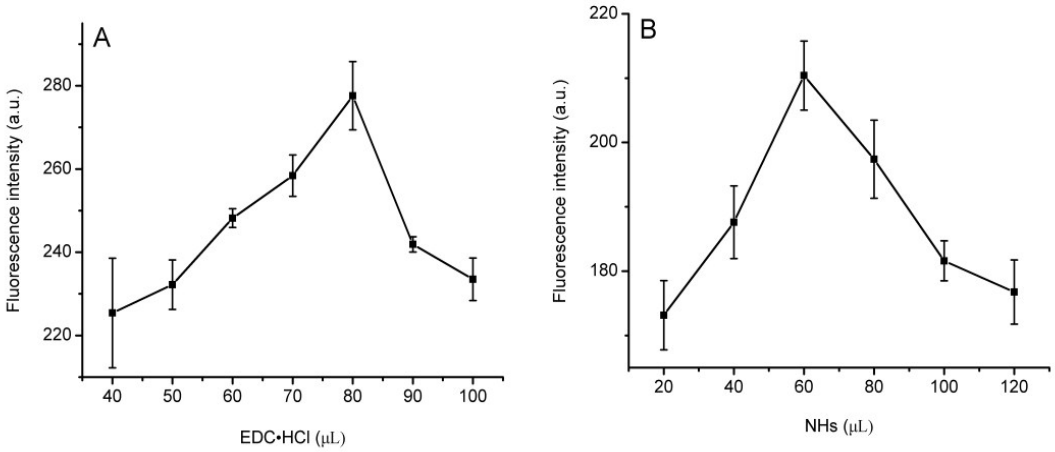

Fig. 3.1 Impacts of amount of EDC·HCl (A) and NHs (B) on the fluorescence intensity of CdTe: Zn/ZnS QDs-antibody conjugation

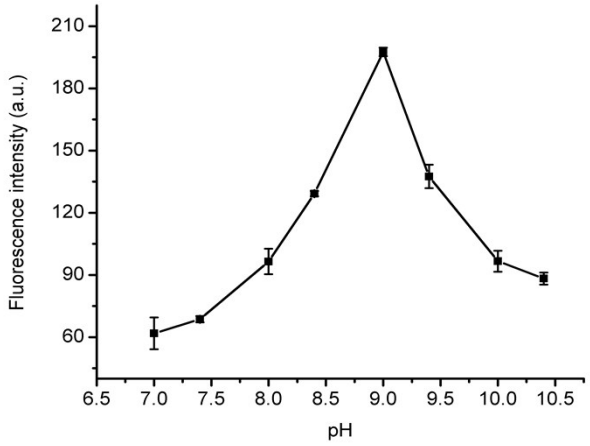

Fig. 3.2 Impacts of pH value on the fluorescence intensity of CdTe: Zn/ZnS QDs-antibody

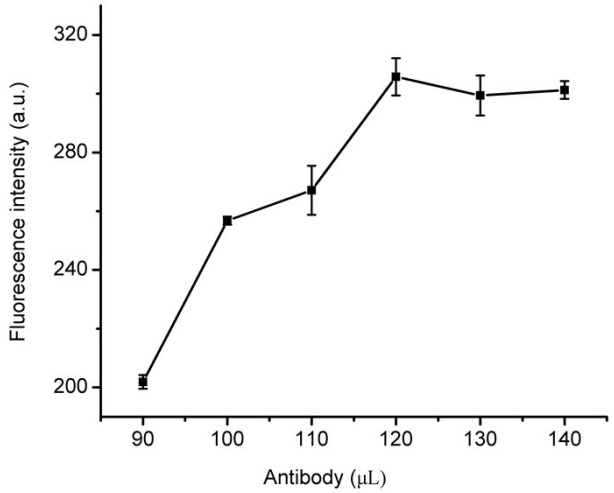

Fig. 3.3 Effect of the amount of antibody on the fluorescence intensity of CdTe: Zn/ZnS QDs-antibody conjugations

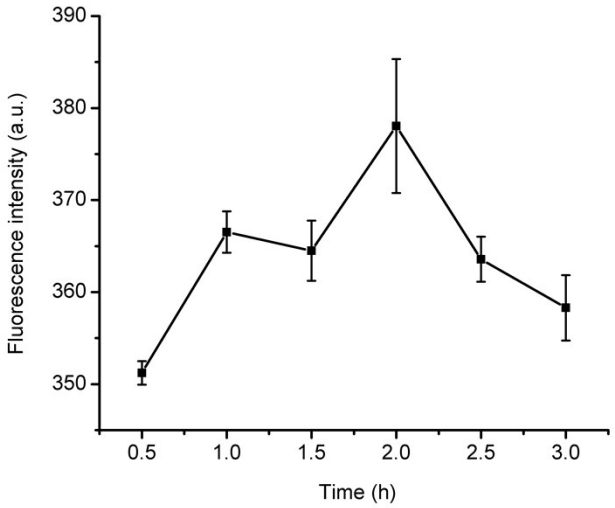

Fig. 3.4 Impact of react time on the fluorescence intensity of CdTe: Zn/ZnS QDs-antibody conjugations

Supplementary Information 4

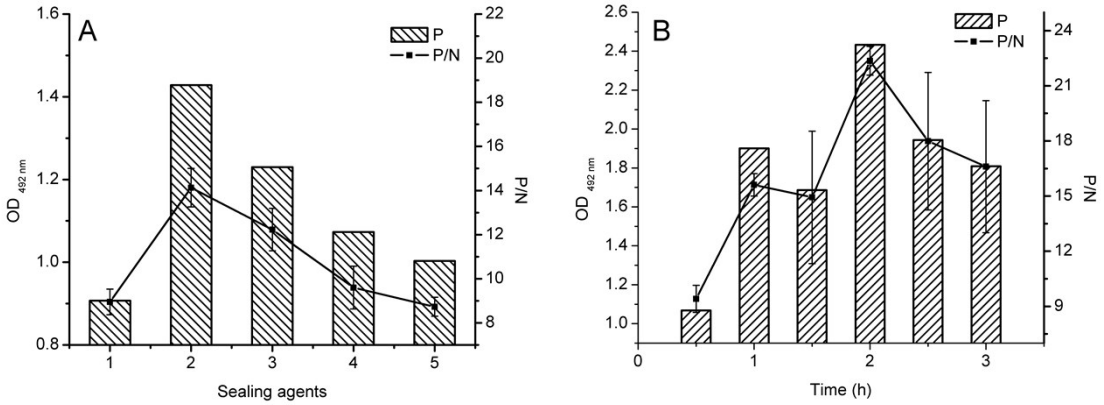

Fig. 4.1 Sealing agents (A) and Sealing time (B)

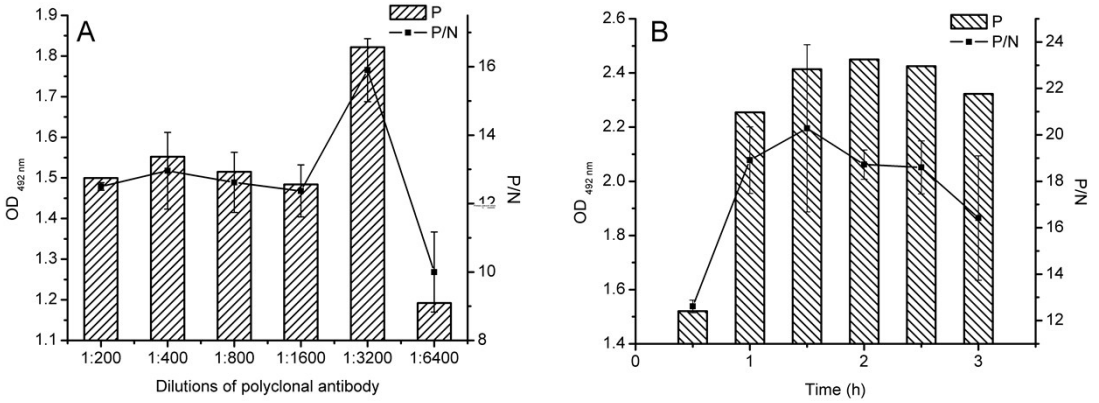

Fig. 4.2 Concentrations of protein of serum (A) and reaction time (B)

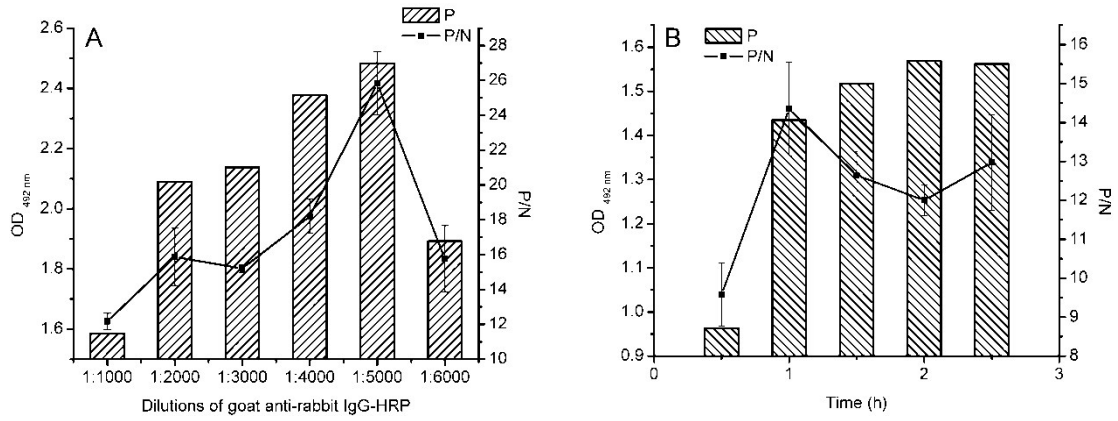

Fig. 4.3 The addition of goat anti-rabbit IgG-CdTe: Zn/ZnS QDs (A) and reaction time (B)

Supplementary information 5

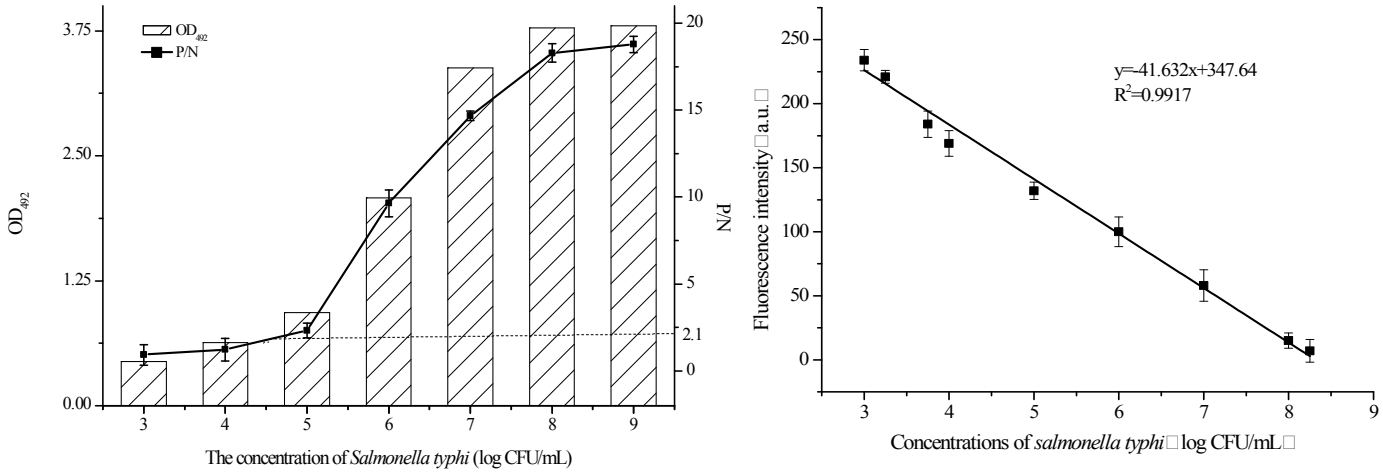

Fig. 5.1 Detection limits of ELISA (left) and FLISA (right) detected *Salmonella typhi*, respectively

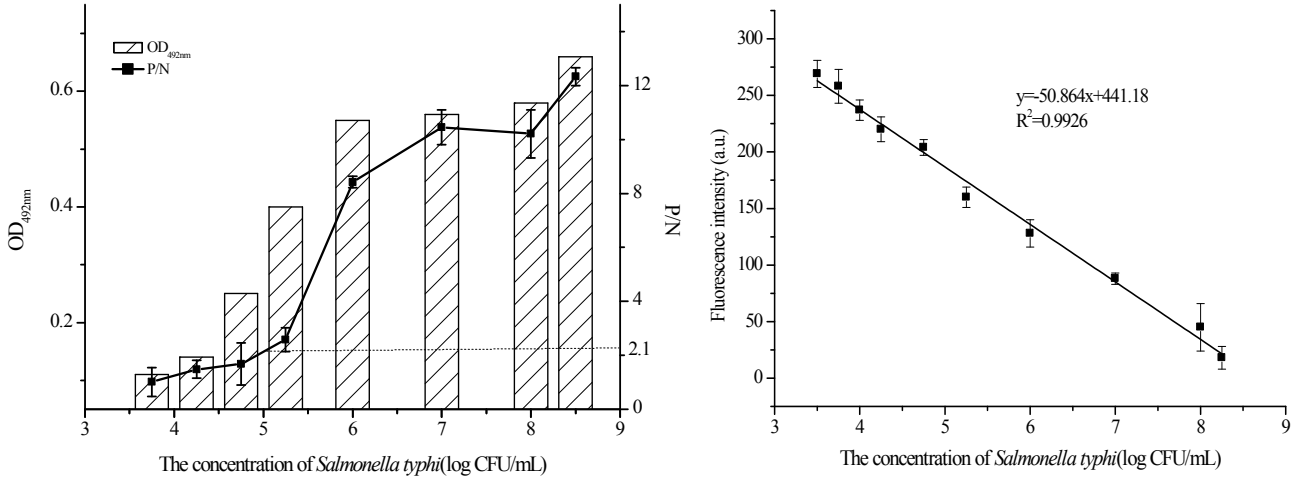

Fig. 5.2 ELISA (left) and FLISA (right) detected *Salmonella typhi* in artificial contamination test

Supplementary information 6

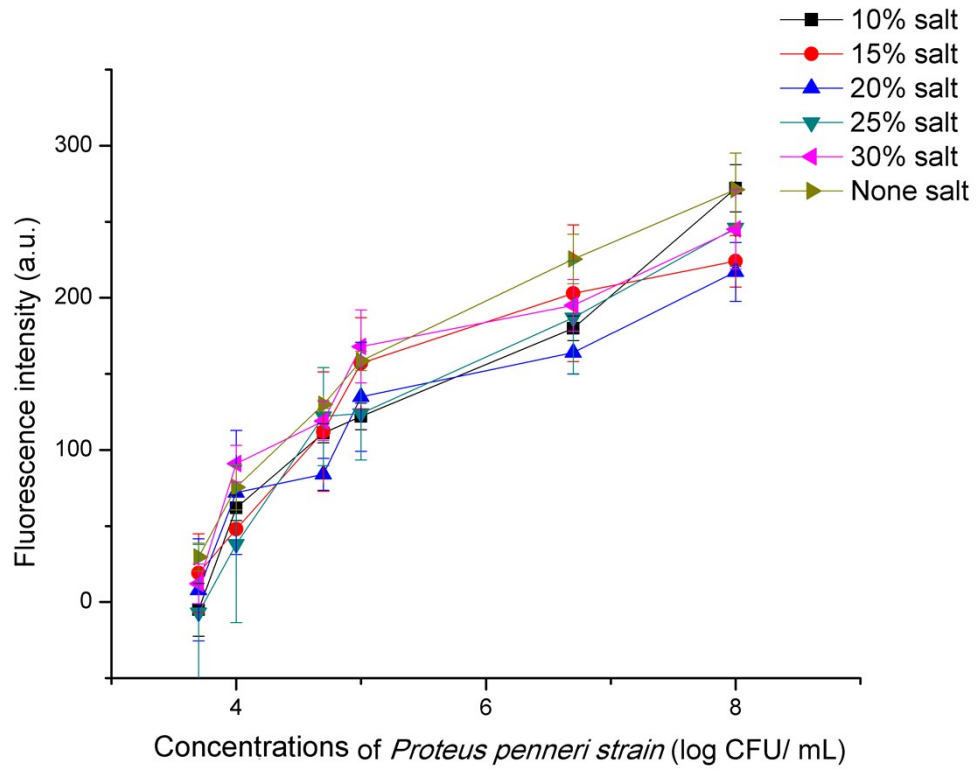

Fig. 6.1 Effect of salt (NaCl) on the detection of *Proteus penneri strain* of FLISA

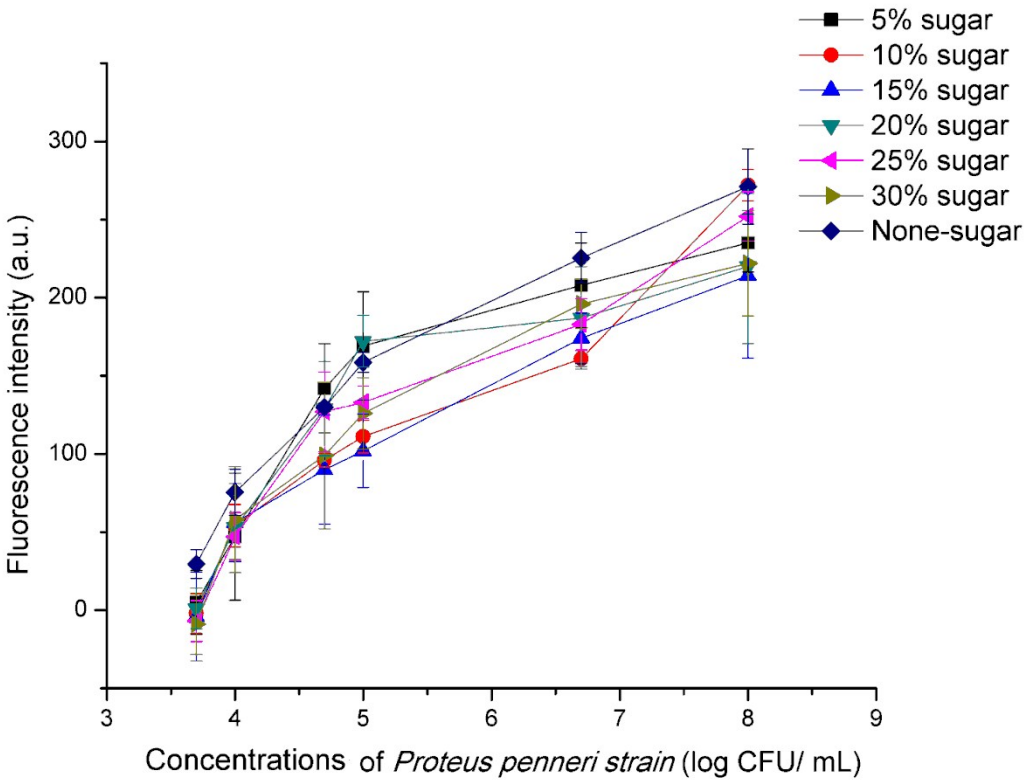

Fig. 6.2 Effect of sugar (glucose) on the detection of *Proteus penneri strain* of FLISA

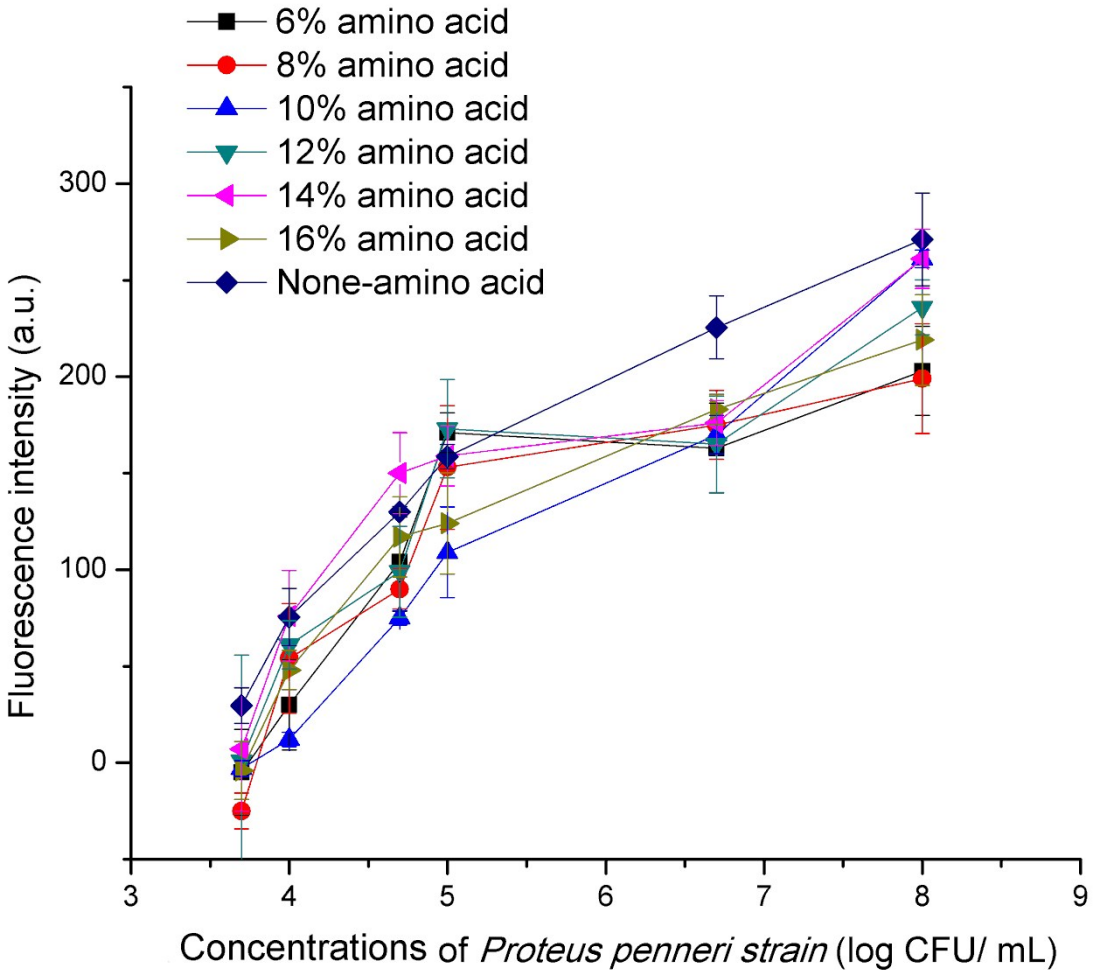

Fig. 6.3 Effect of amino acid (L-Met) on the detection of *Proteus penneri strain* of FLISA

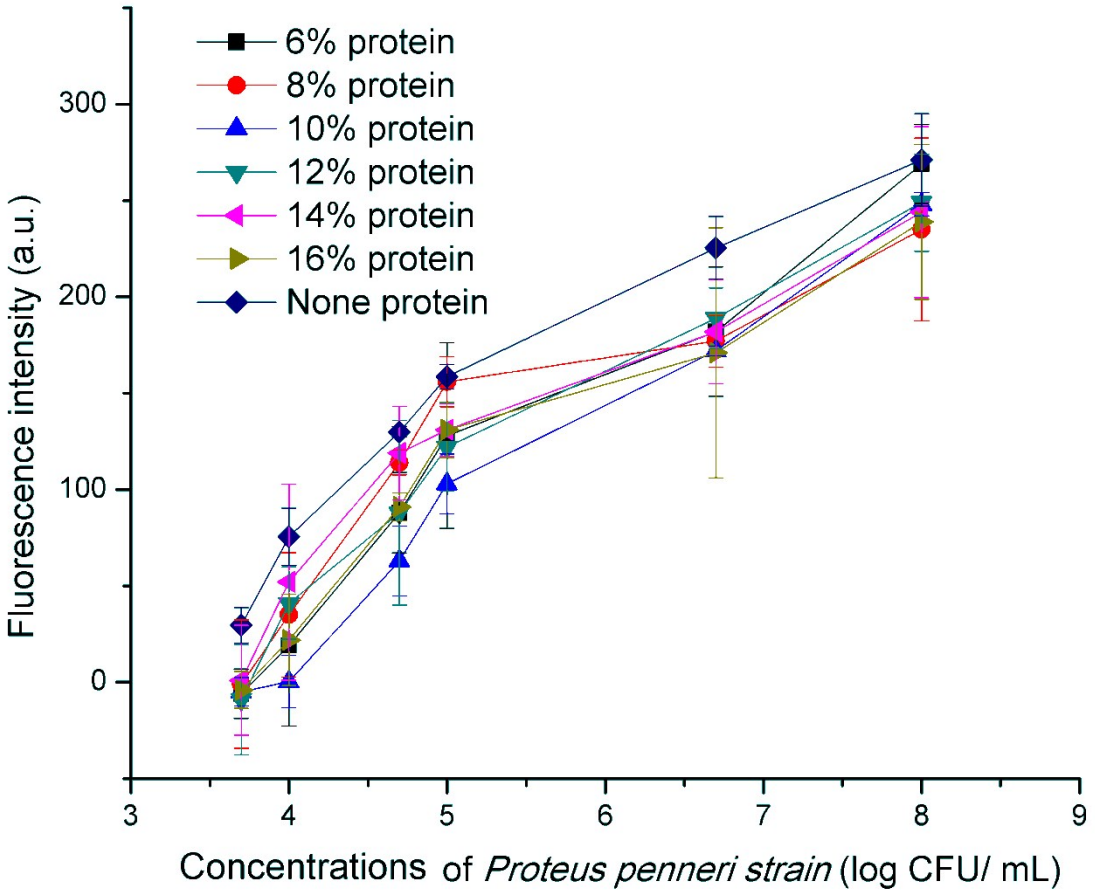

Fig.6.4 Effect of protein (whey protein) on the detection of *Proteus penneri strain* of FLISA