

Supplementary Information

Development of a reusable fluorescent nanosensor based on rhodamine B immobilized in Stöber silica for copper ion detection

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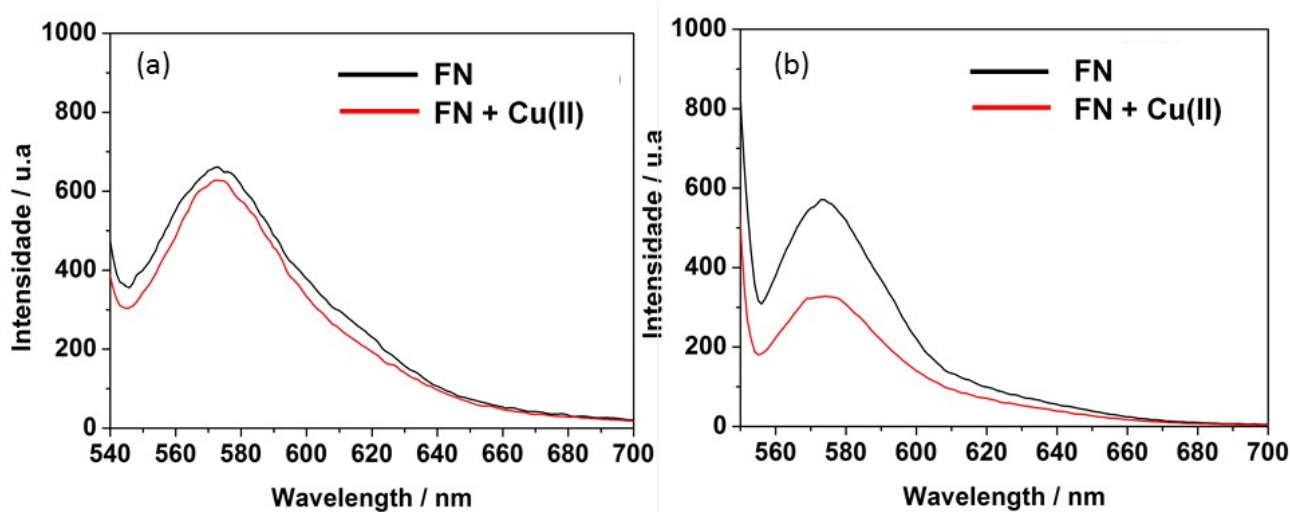


Figure S1. Emission spectra of FN. (left) FN (high ammonia concentration) without response to the Cu(II) ion, (right) FN (low ammonia concentration) with response to the Cu(II). Excitation at 535 nm, excitation and emission slits of 20 and 5 nm, respectively. [Cu (II)] = 10 $\mu\text{mol L}^{-1}$, pH 7.0 ([FN] = 0.43 mg mL^{-1}).

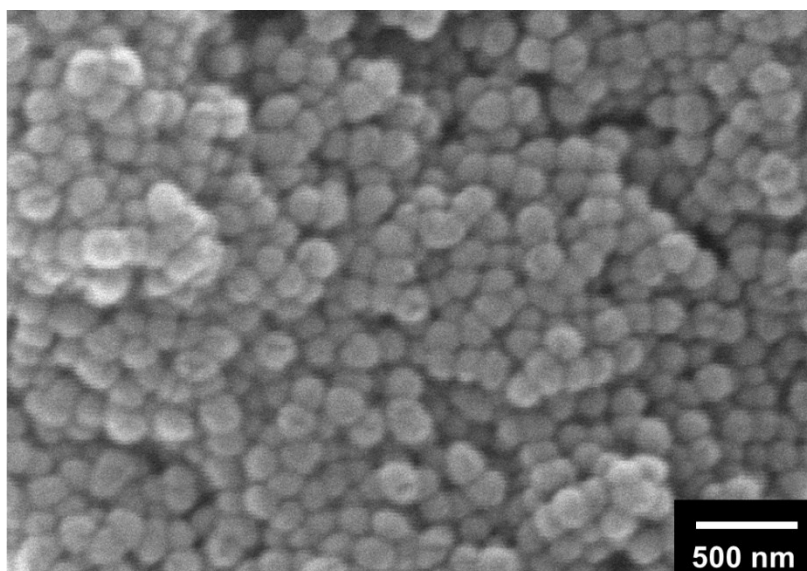


Figure S2. SEM of silica nanoparticles without immobilization of the Rhodamine B.