

## Heavy metal cations and anions sensing studies of N-(2-hydroxybenzyl)- isopropylamine surface functionalized AgNPs

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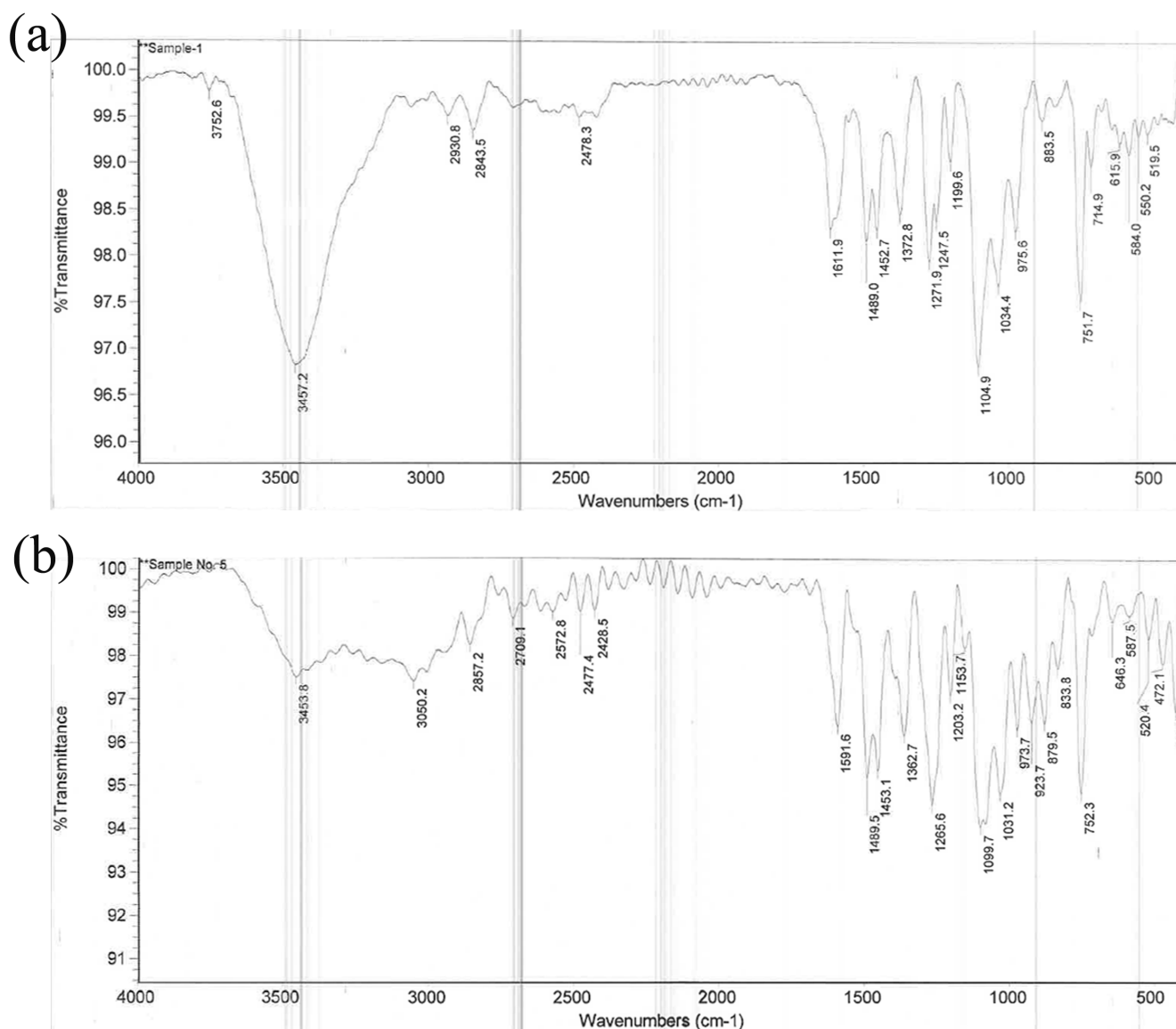


Fig. S1. FT-IR spectra 1 (a) and 1-AgNPs (b).

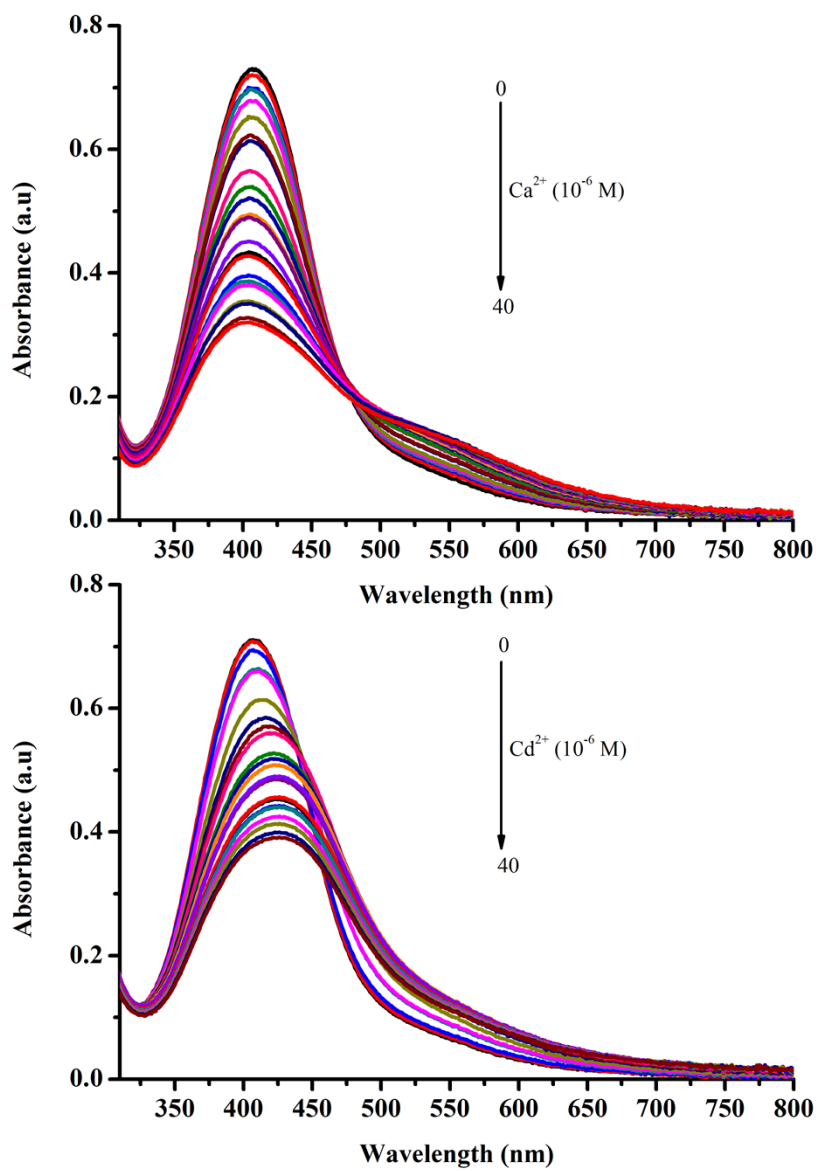


Fig. S2. Change of 1-AgNPs absorbance with  $\text{Ca}^{2+}$  (a) and  $\text{Cd}^{2+}$  concentration.

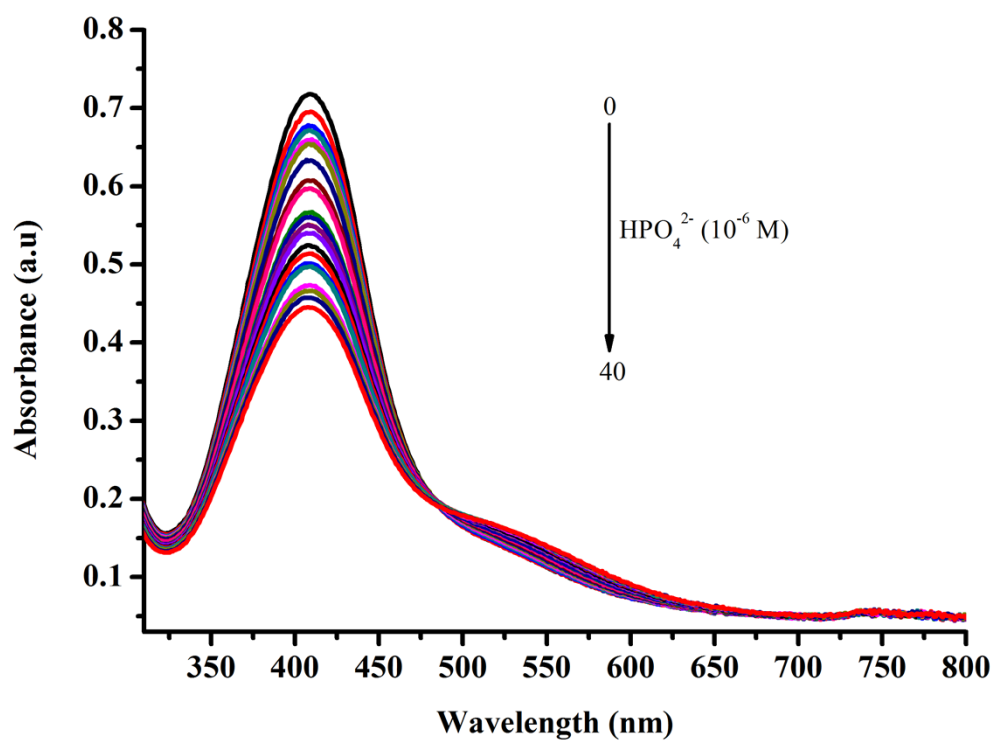


Fig. S3. Change of 1-AgNPs absorbance with  $\text{HPO}_4^{2-}$  concentration.

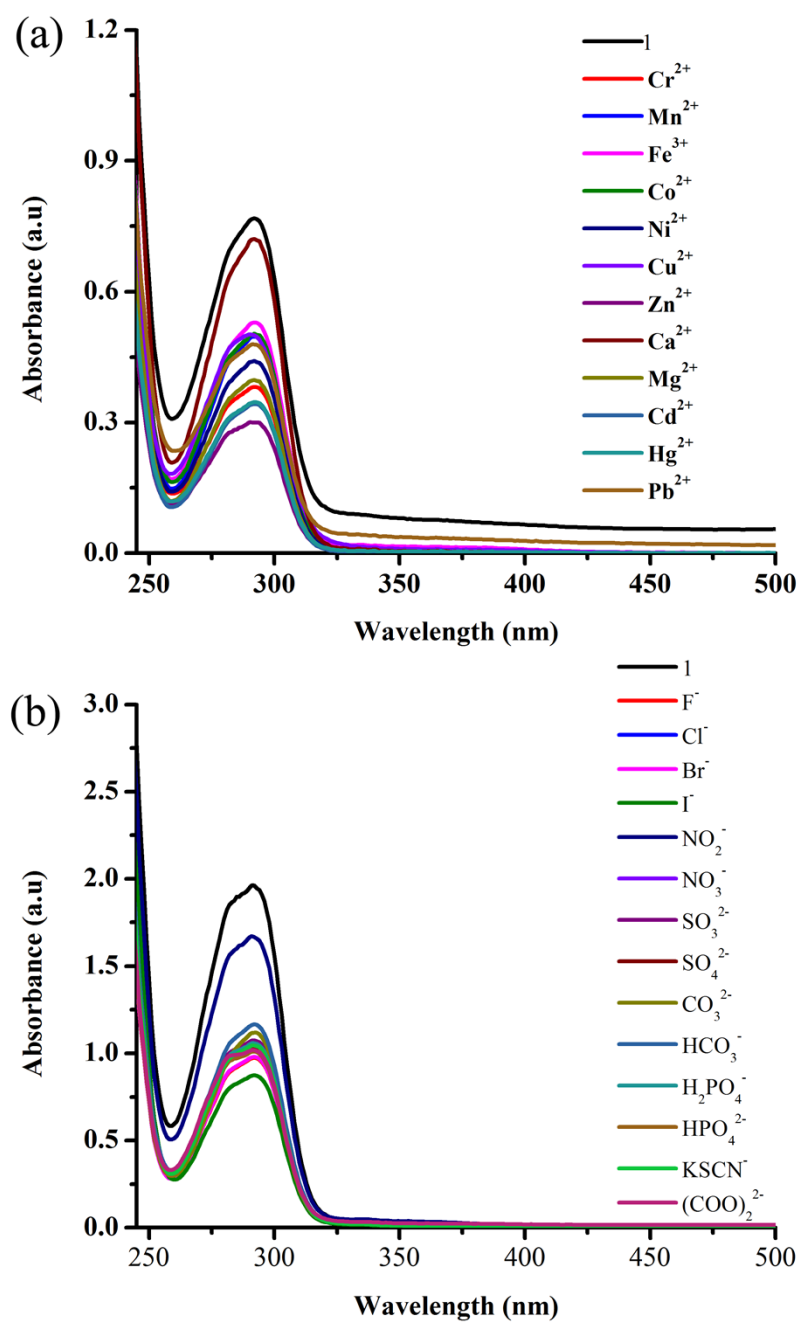


Fig. S4. Absorption spectra of 1 with different metal cations (a) and anions (b).