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Encapsulation Capacity of β-Cyclodextrin Stabilized Silver Nanoparticles towards Creatinine Enhances the Colorimetric Sensing of Hydrogen Peroxide in Urine

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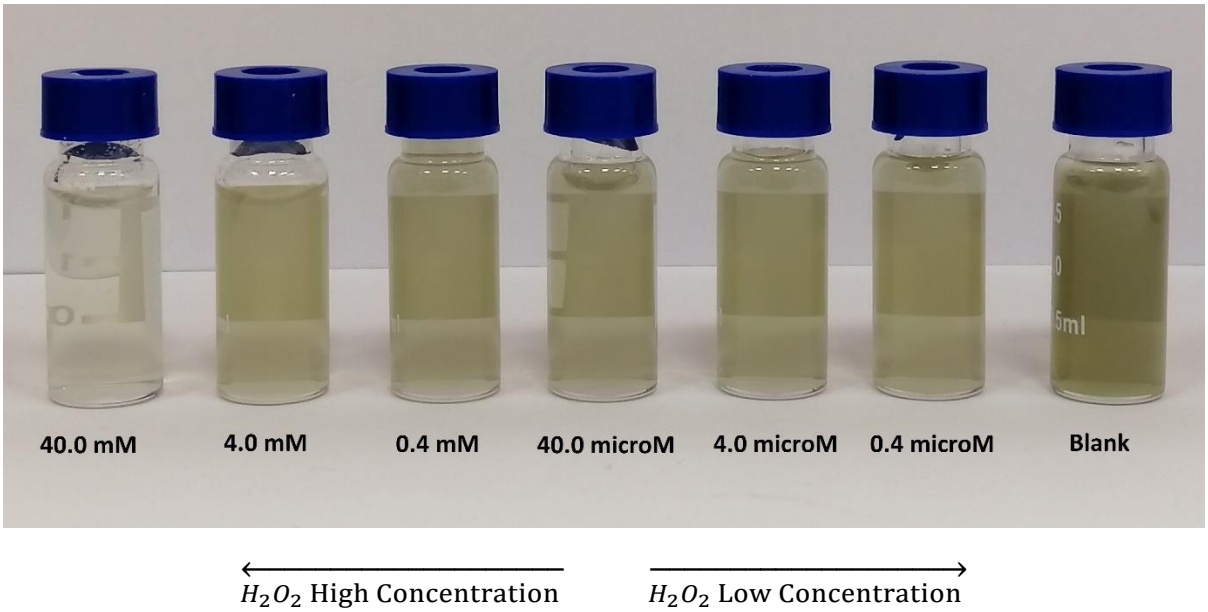


Figure S1. Photographs of β-CD-AgNPs exposed to increasing concentrations of H_2O_2 from the right to the left.

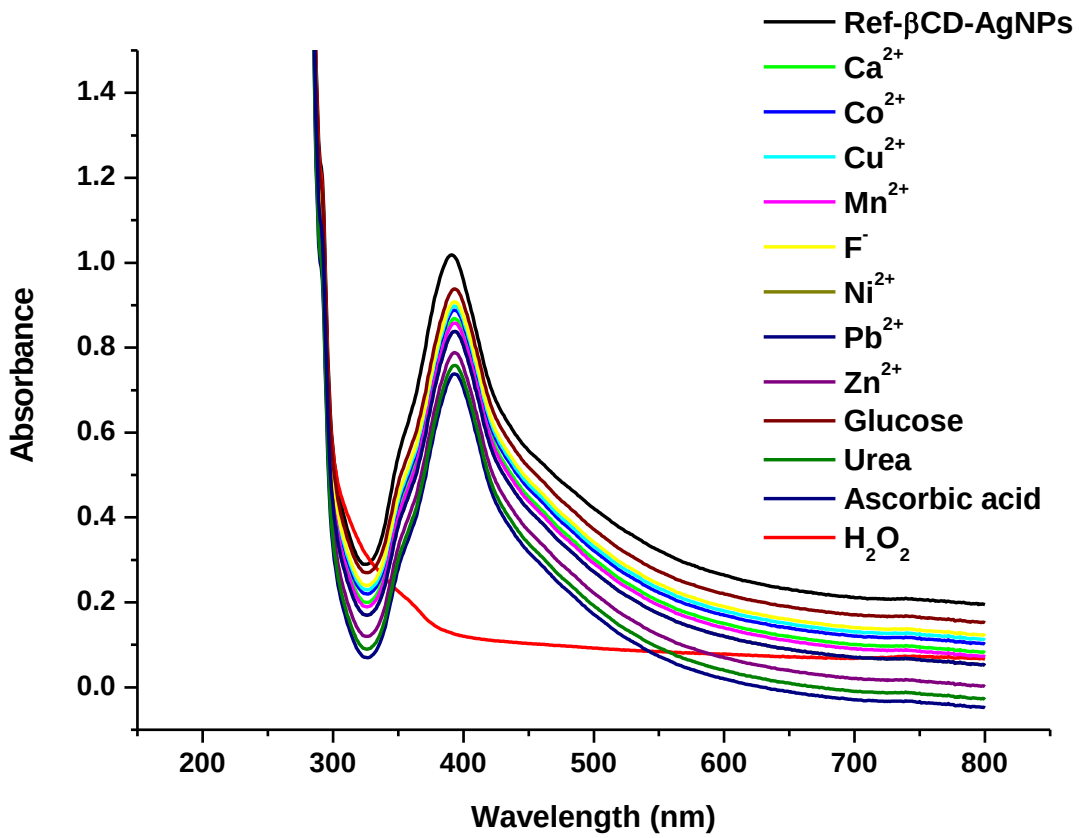


Figure S2. LSPR absorbances of Algae-AgNPs reacted with potential interferent equilibrium time = 3.0 min; pH_0 = 7.0, T = 25°C.

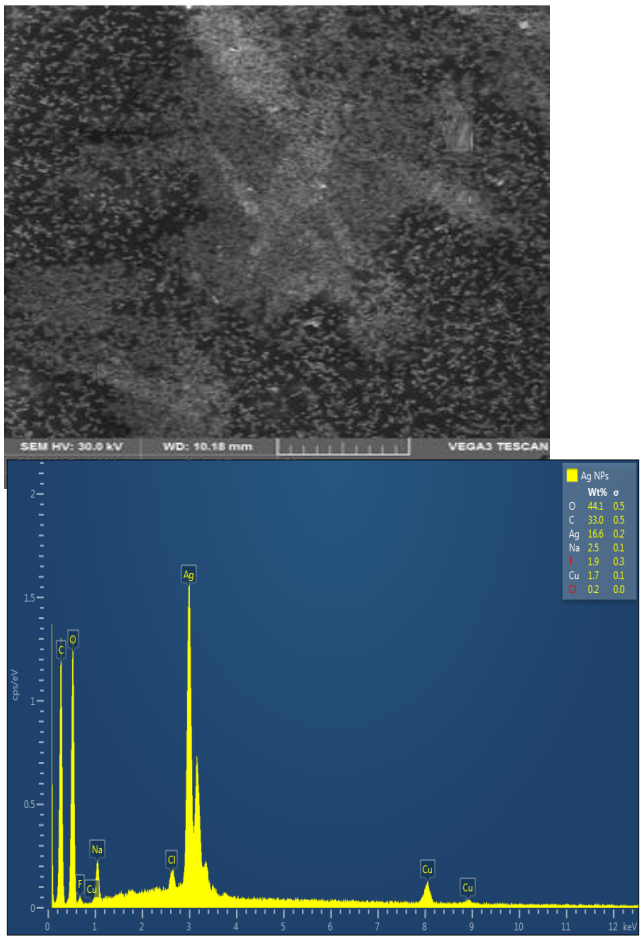


Figure S3. (**a**) Scanning Electron microscopy (SEM) and (**b**) Energy Disperse Spectroscopy (EDS) of ***βCD-AgNPs.***

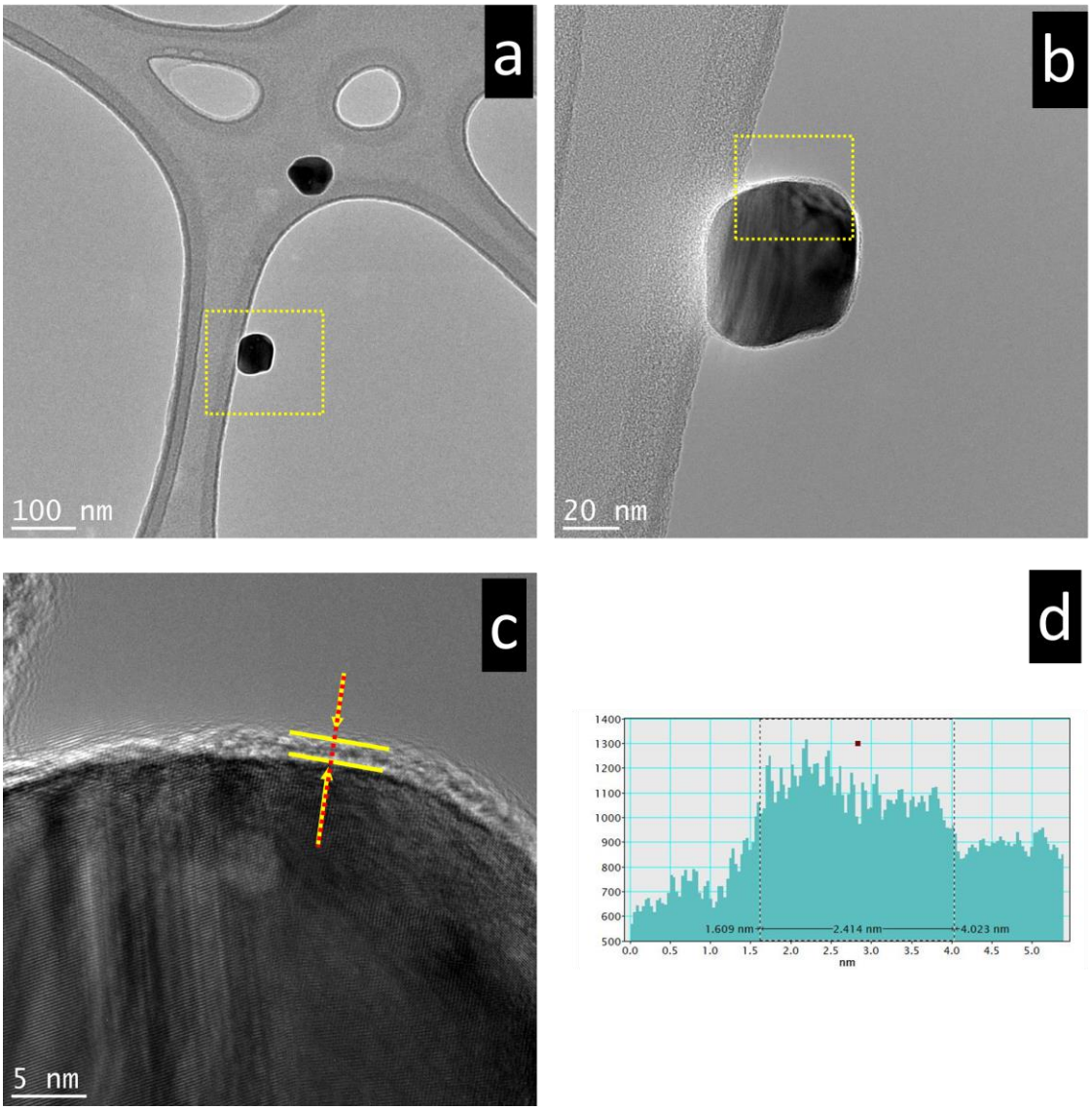


Figure S4. (**a**–**b**) TEM micrograph of a typical βCD-AgNPs. The dotted rectangle indicates the region of interest (ROI) used for the analysis. (**c**) A 2.4 nm βCD macromolecule coating is indicated by the lines and arrows in the figure. The intensity profile along the dotted line in (**c**) is shown in (**d**), indicating 2.4 nm thickness. The ROI and profile were realized using the Gatan digital micrograph platform.

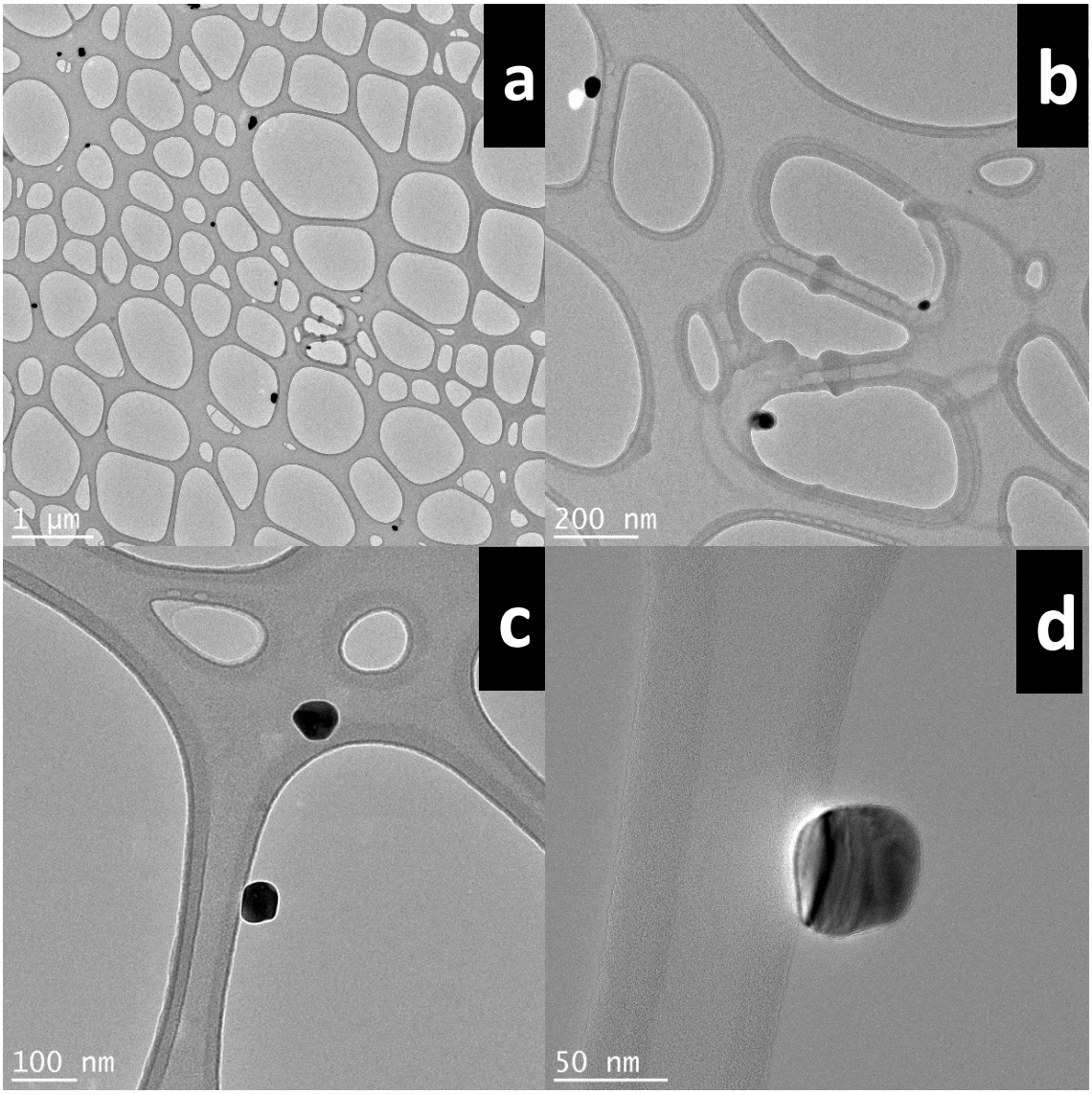


Figure S5. TEM micrograph of βCD-AgNPs, with (**a**) 1.0 µm, (**b**) 50 nm, (**c**) 100 nm, and (**d**) 200 nm size scale bars taken at different magnification.