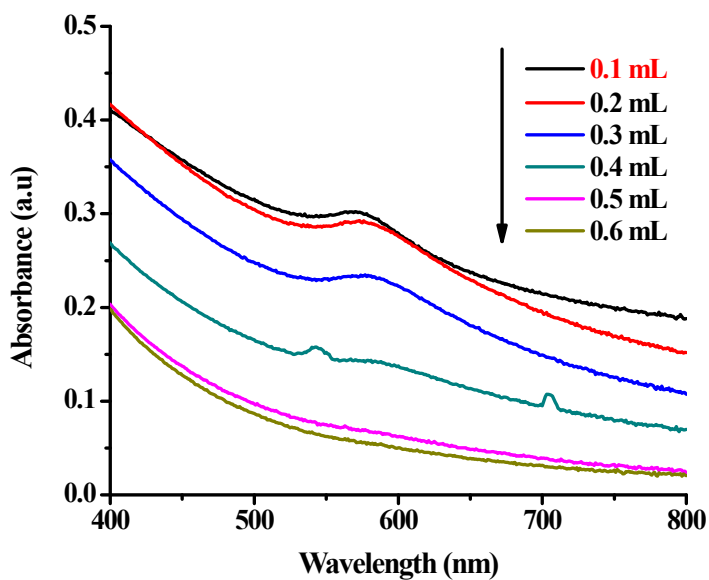
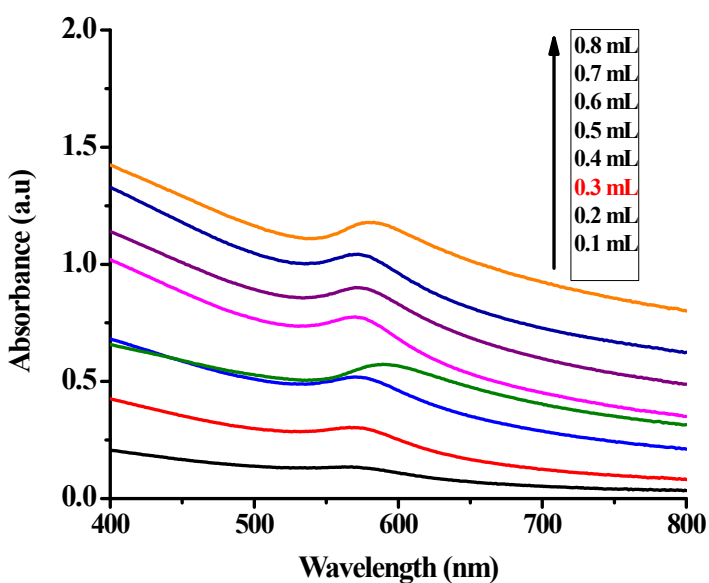


Supplementary Information

Cefuroxime derived copper nanoparticles and their application as colorimetric sensor for trace level detection of picric acid

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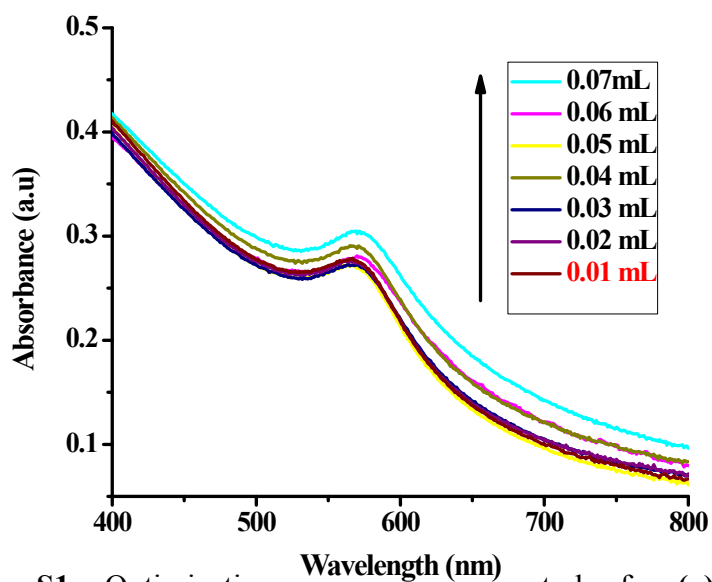


Figure S1. Optimization study for (a) effect of precursor salt 0.01M $\text{CuCl}_2 \cdot 5\text{H}_2\text{O}$; (b) effect of reducing agent (0.1M NaBH_4) and (c) effect of capping agent (Cefuroxime, 0.01 M $\text{C}_{16}\text{H}_{16}\text{N}_4\text{O}_8\text{S}$) on the formation of CuNPs.

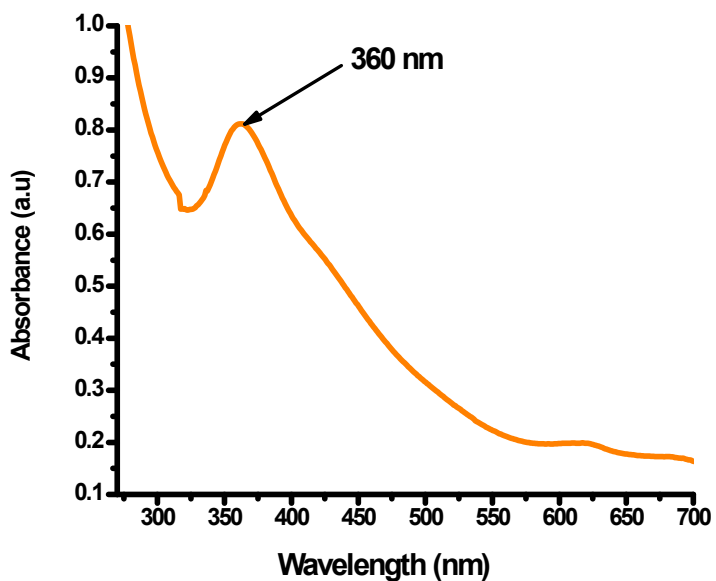


Figure S2. UV-Vis spectrum of mixing 0.01 M solution of Cefuroxime and 0.01 M solution of picric acid