

Supplementary Materials: Spectroscopic Characterization of Copper-Chitosan Nanoantimicrobials Prepared by Laser Ablation Synthesis in Aqueous Solutions

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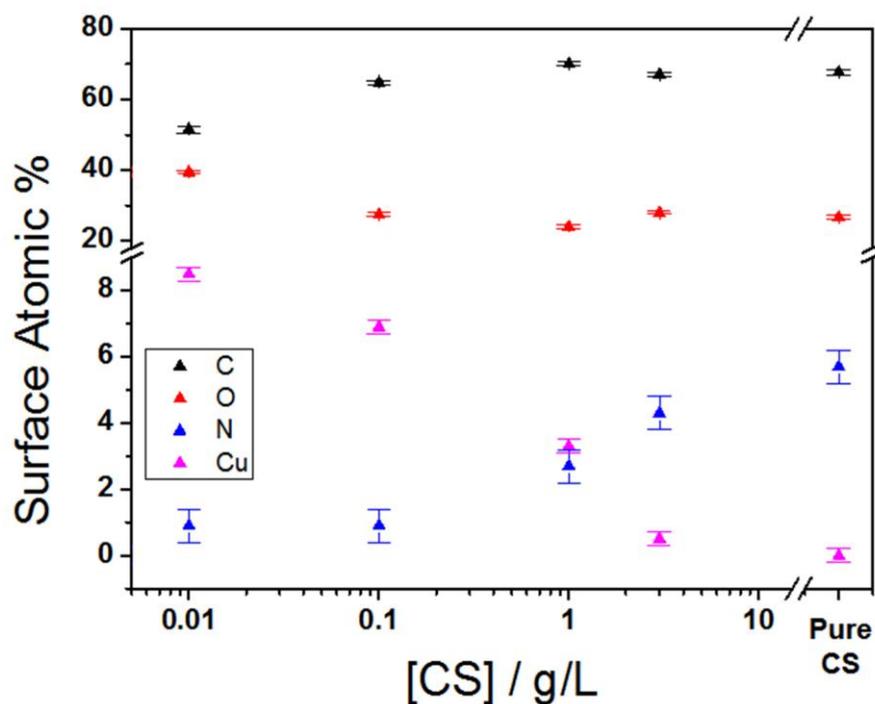
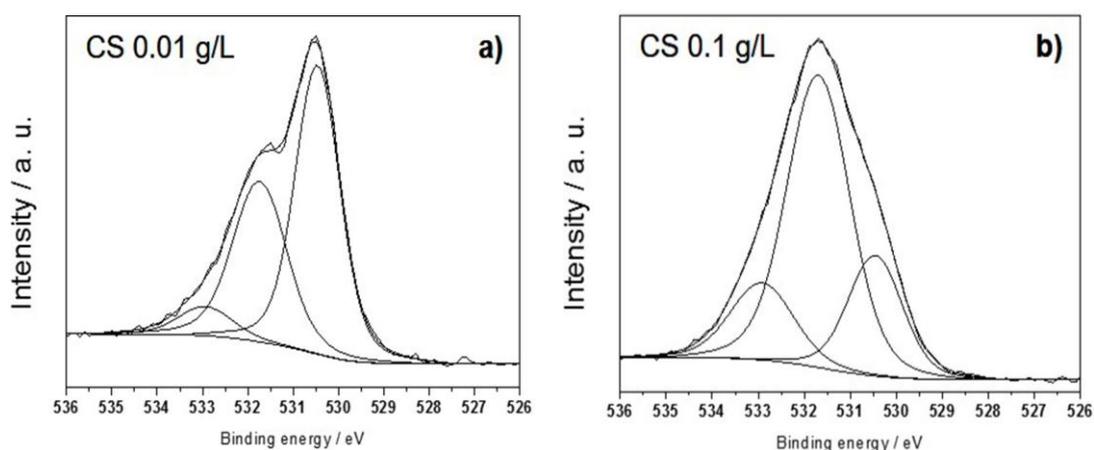


Figure S1. C, O, Cu and N surface atomic percentages as a function of CS loading. Data about pure CS are also reported, for comparison.



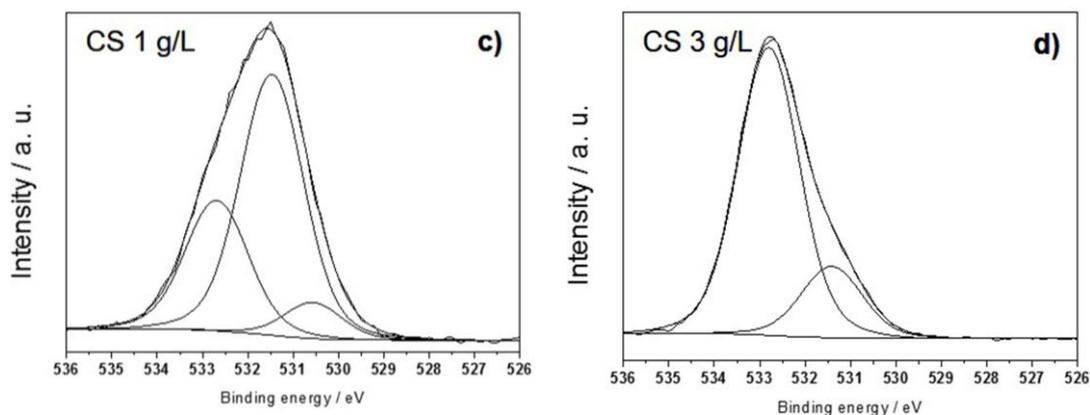


Figure S2. O1s high-resolution regions of freshly-prepared CuNPs-CS nanocomposites synthesized at CS concentrations of: (a) 0.01 g/L; (b) 0.1 g/L; (c) 1 g/L; (d) 3 g/L.

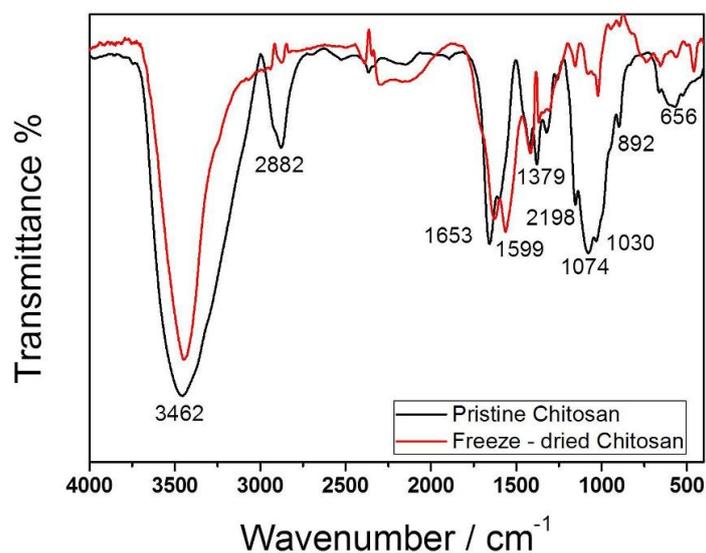


Figure S3. Comparison between FTIR spectra relevant to pristine (black line) and freeze-dried (red line) chitosan samples.

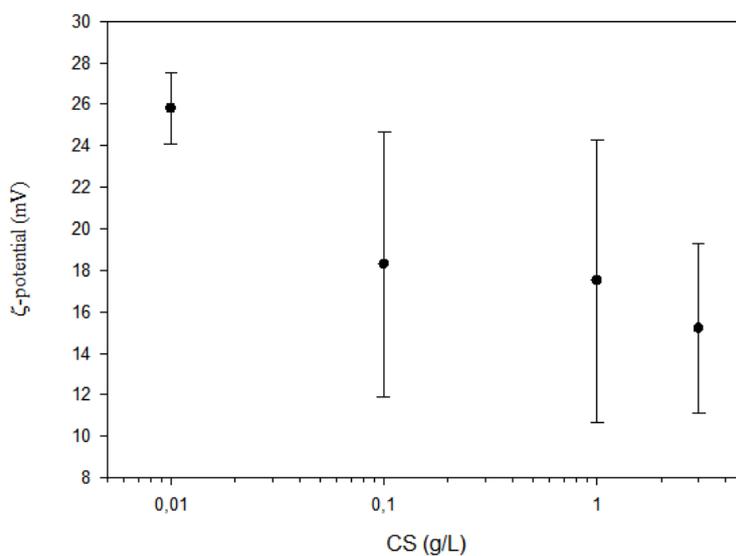


Figure S4. Nanoparticle ζ -potential values as a function of CS concentration.

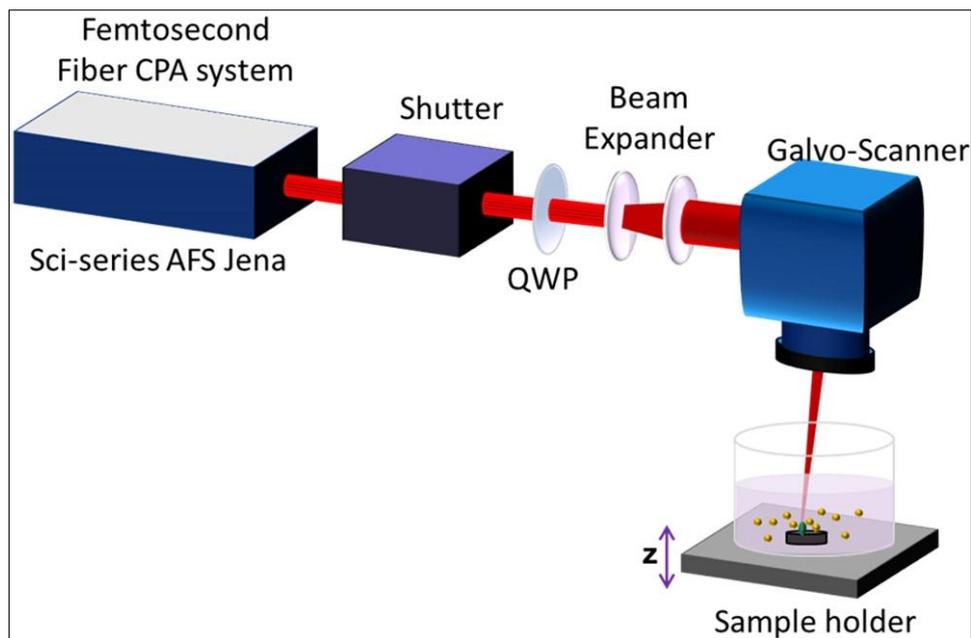


Figure S5. Schematic representation of the laser ablation synthesis in solution (LASiS) experimental setup. CPA = chirped pulse amplification; AFS = Active Fiber Systems; QWP = quarter-wave-plate.



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