

Supporting Information for

Flexible, silver containing nanocomposites for the repair of bone defects: Antimicrobial effect against *E. coli* infection and comparison to tetracycline containing scaffolds

Oliver D. Schneider, Stefan Loher, Tobias J. Brunner, P. Schmidlin, Wendelin J. Stark*

[*] E-mail: wendelin.stark@chem.ethz.ch

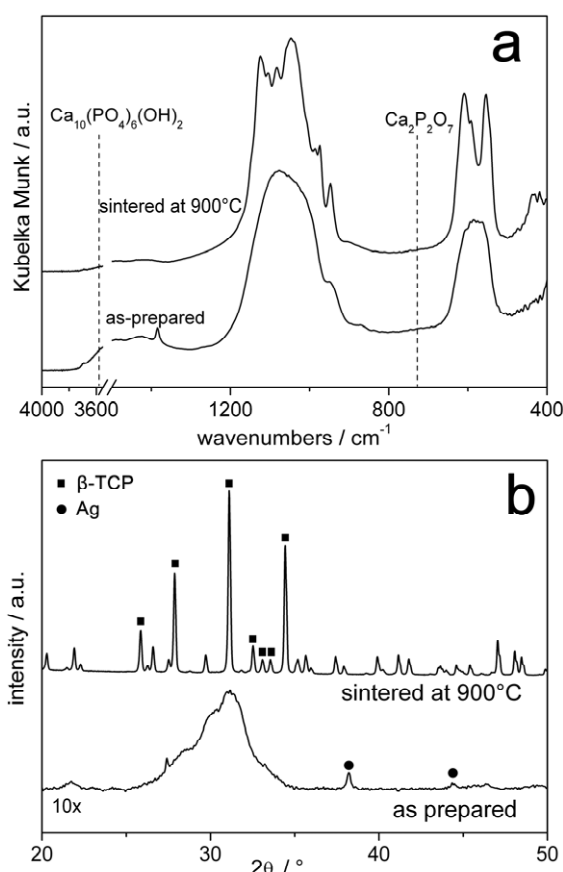


Fig. S1. Particle characterization of 5wt% Ag on TCP: (a) Fourier-transform infrared spectra of as-prepared nano-powder produced by flame synthesis and the distinct peaks characteristic for β -TCP after sintering. The absence of impurities of apatite ($\sim 3600\text{ cm}^{-1}$) and calcium pyrophosphate ($\sim 720\text{ cm}^{-1}$) confirm the purity of the material. (b) X-ray powder diffraction patterns for as-prepared XRD amorphous TCP and corresponding crystalline phase of β -TCP after sintering. The characteristic patterns of silver are overlapping with the sintered patterns for β -TCP.