

Supplementary Information for
Synthesis of gold, silver and their alloy nanoparticles using bovine serum albumin
as foaming and stabilizing agent

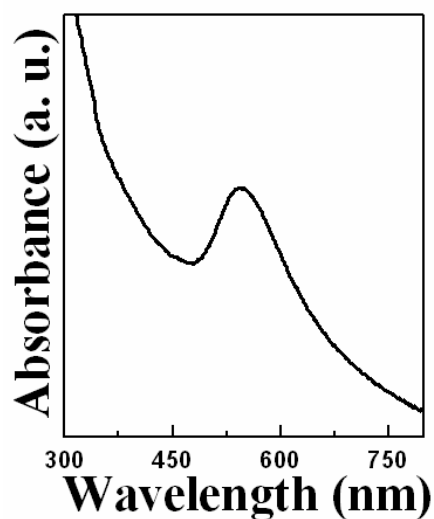


Fig. S1: Uv-Vis spectra of colloid nanoparticles obtained from a foam matrix formed by taking a mixture of 50 ml of CTAB (2×10^{-2} M) and 25ml each of HAuCl_4 (3×10^{-3} M) and Ag_2SO_4 (1×10^{-3} M). The characteristic absorbance at ~ 545 nm clearly proves that only gold nanoparticles are formed in this experiment. An experiment under exactly identical conditions with BSA as a foaming surfactant resulted in the Au-Ag alloy formation.

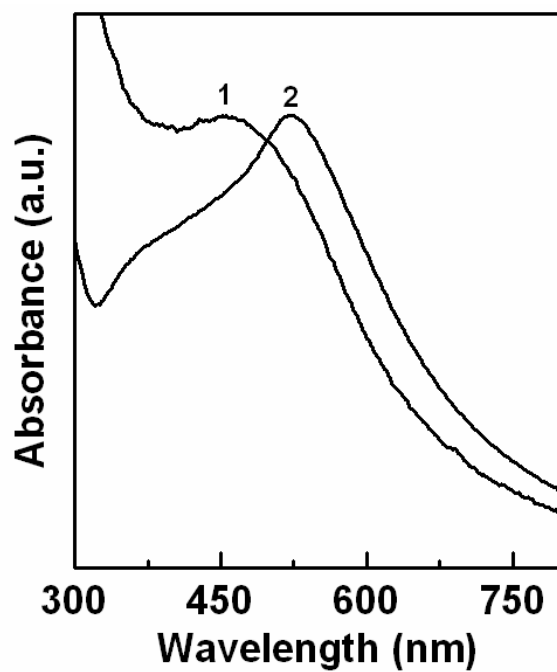


Fig. S2: UV-vis spectra of nanoparticles obtained 1) BSA-capped Au-Ag alloy NP solution obtained from 3Au:1Ag mixture in BSA foam and 2) when the reduction is carried in a solution mixture of 3AuCl₄⁻:1Ag⁺:BSA.