**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 (2x10^{-2} M) and 25 ml each of HAuCl₄ (3x10^{-3} M) and Ag₂SO₄ (1x10^{-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.