

Supplementary Information

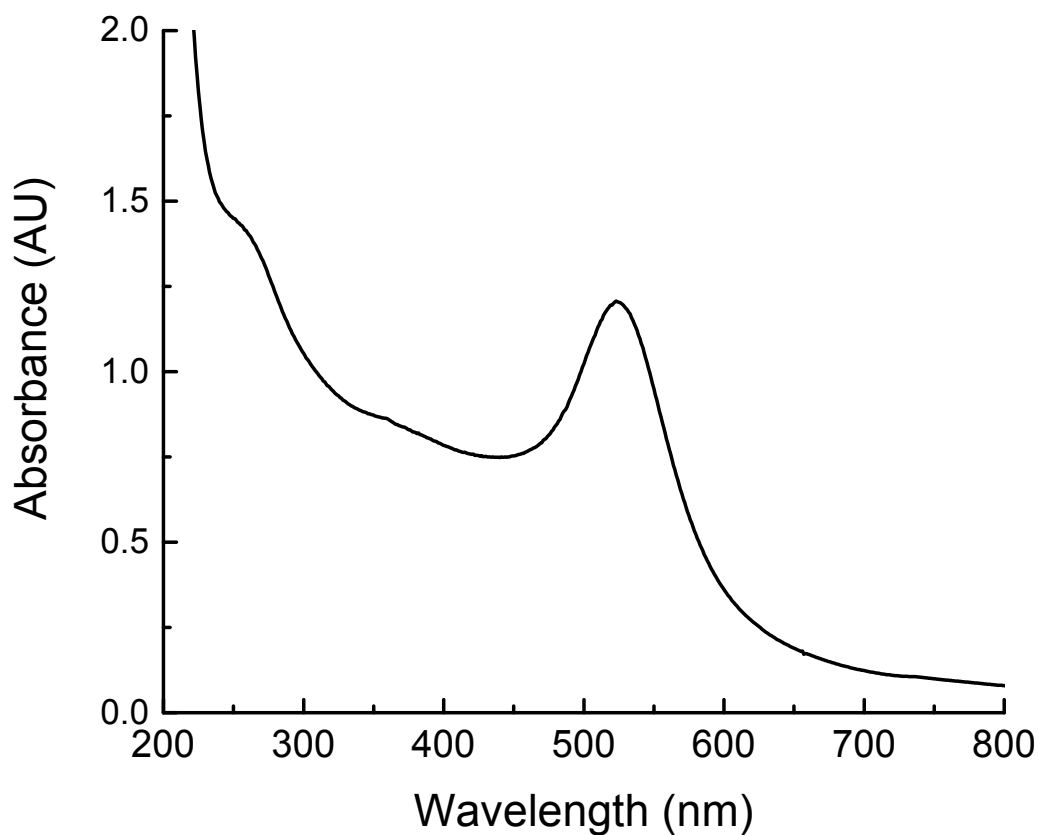


Fig. 1S Surface plasmon resonance spectrum of the citrate stabilized gold nanoparticles.

Thermogravimetric Analysis

Au nanoparticle 98.10%; ligands (NE-SS-deca) 1.9%. TEM; average diameter (D) = 22 nm. The approximate number of gold atoms in a cluster; $N_{Au} = (59 \text{ nm}^3)(\pi/6)D^3 = 328,774$. (The density of bulk face-centered cubic (fcc) Au is 59 atoms/nm³). The approximate number of ligand per AuNP-1 is $n=2969$ (Analysis performed with a TA-Instruments Q500 scale).

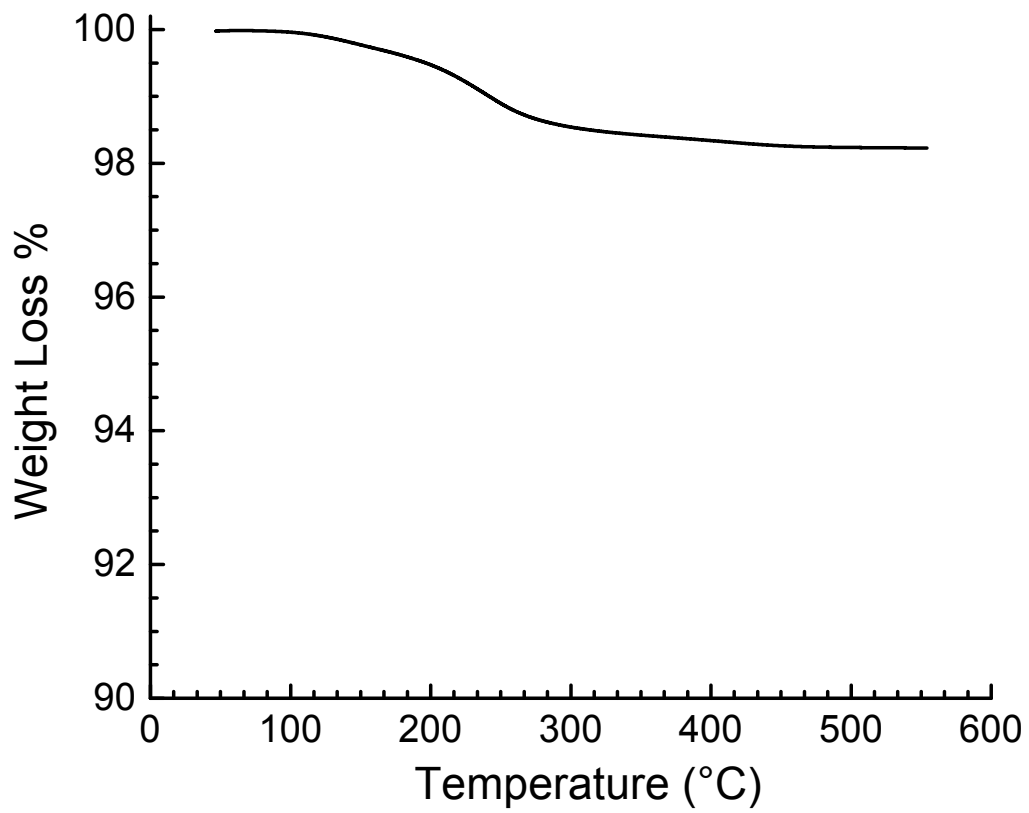


Fig. 2S TGA Data of the NESS-deca/AuNPs sample.