
Supplementary Information for

Antiproliferative activity of *Buddleja saligna* (Willd.) against melanoma and *in vivo* modulation of angiogenesis

Danielle Twilley¹, Velaphi C. Thipe², Navneet Kishore¹, Pierce Bloebaum³, Catarina Roma-Rodrigues⁴, Pedro V. Baptista⁴, Alexandra R. Fernandes⁴, Mamoalosi A. Selepe⁵, Lenka Langhansova⁶, Kattesh Katti^{1,2,7,8*}, Namrita Lall^{1,9,10,11*}

This PDF file includes:

Figures S1 to S9

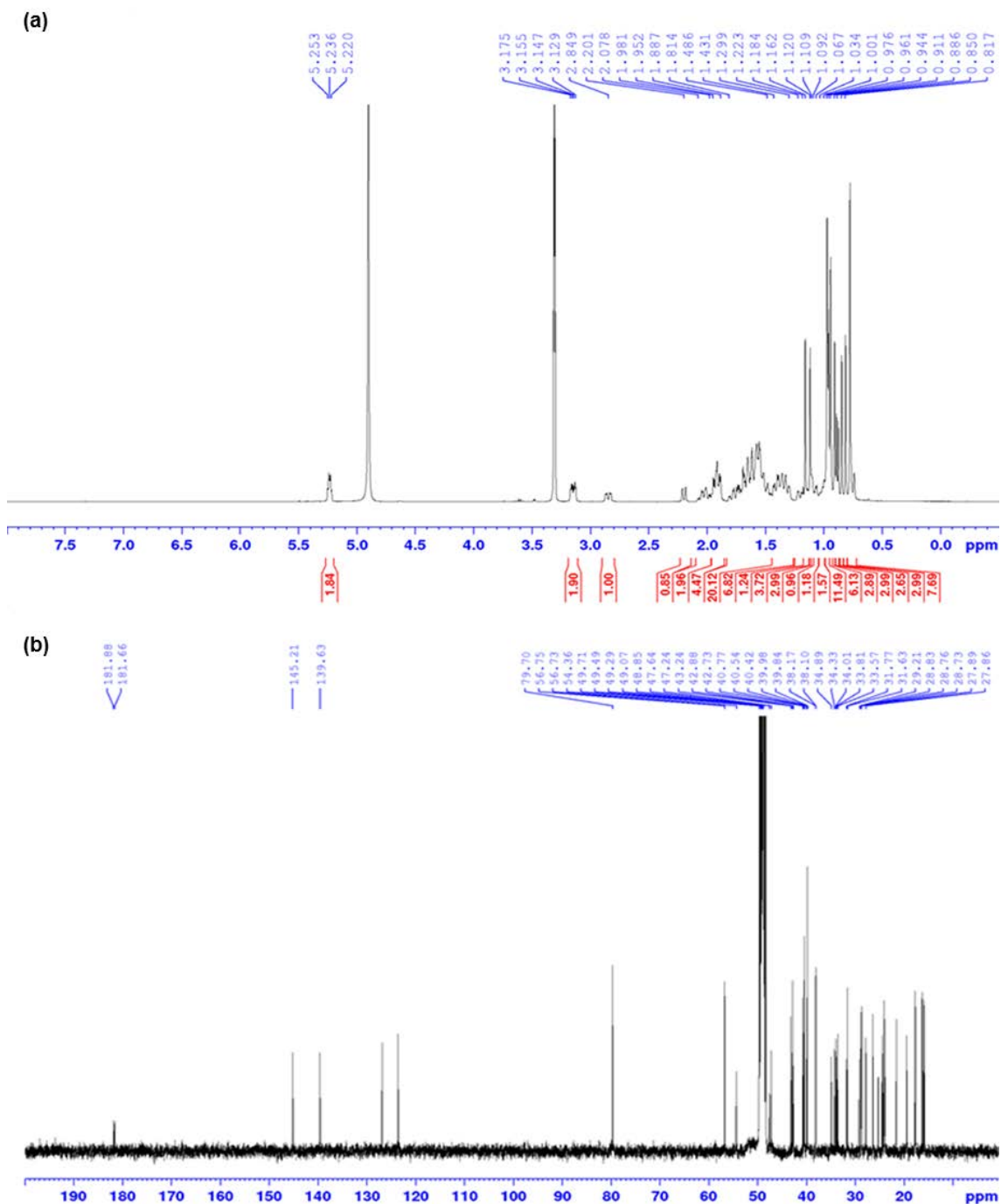


Figure S1. Representative (a) ^1H -NMR (Methanol- d_4 , 400 MHz) and (b) ^{13}C -NMR (Methanol- d_4 , 100 MHz) spectra of DT-BS-01

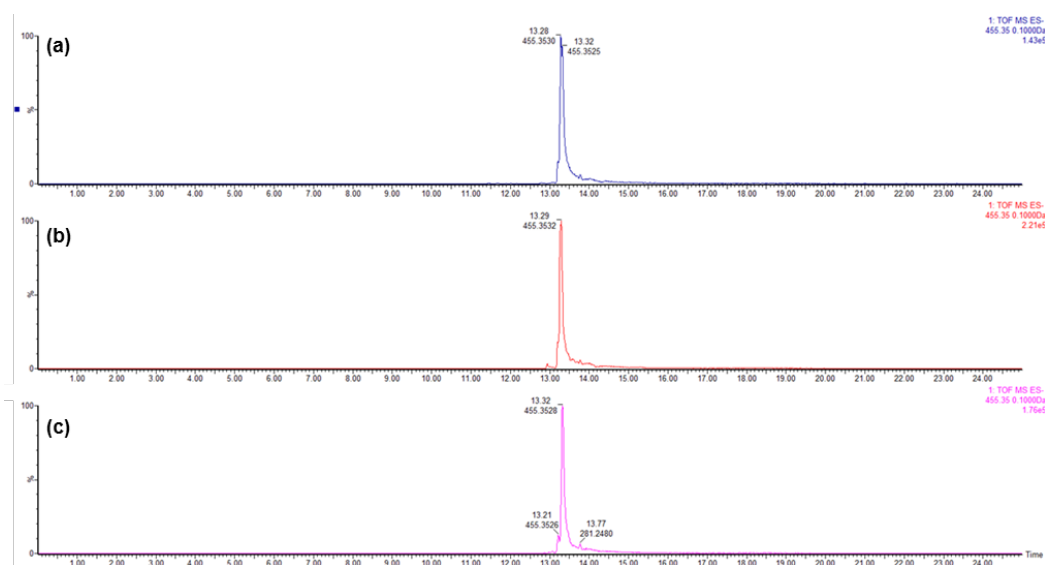


Figure S2. Extracted-ion chromatogram (XIC) of m/z 455.35 in negative ionization mode of LC-MS analysis of (a) DT-BS-01; (b) Oleanolic acid and (c) Ursolic acid

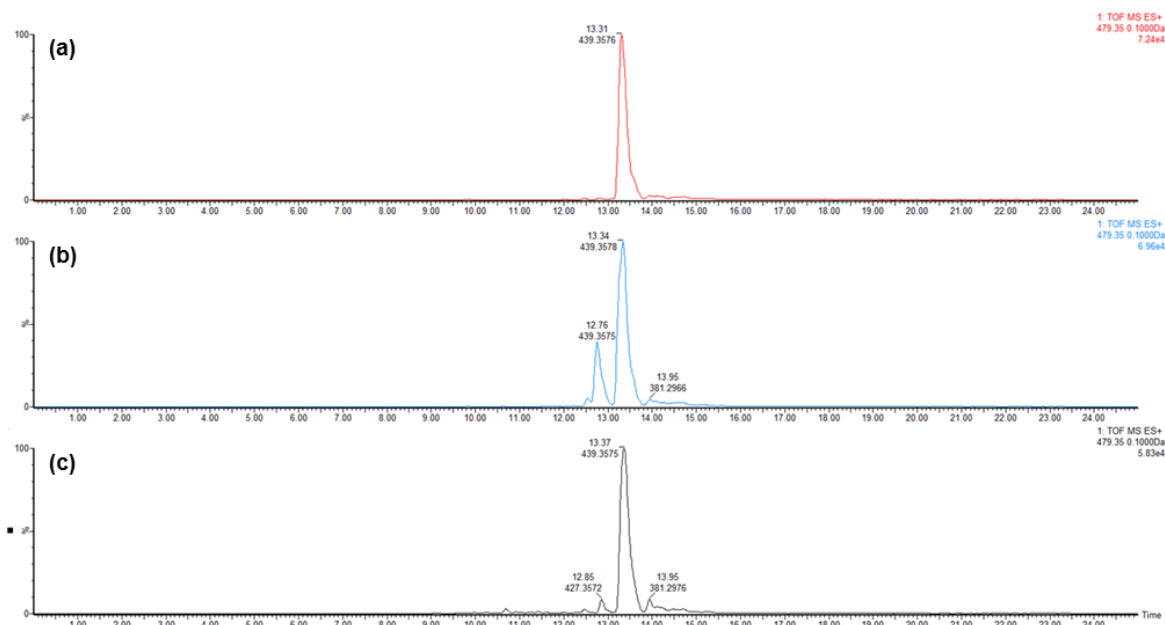


Figure S3. Extracted-ion chromatogram (XIC) of m/z 479.35 in positive ionization mode of LC-MS analysis of (a) DT-BS-01 (b) Oleanolic acid and (c) Ursolic acid

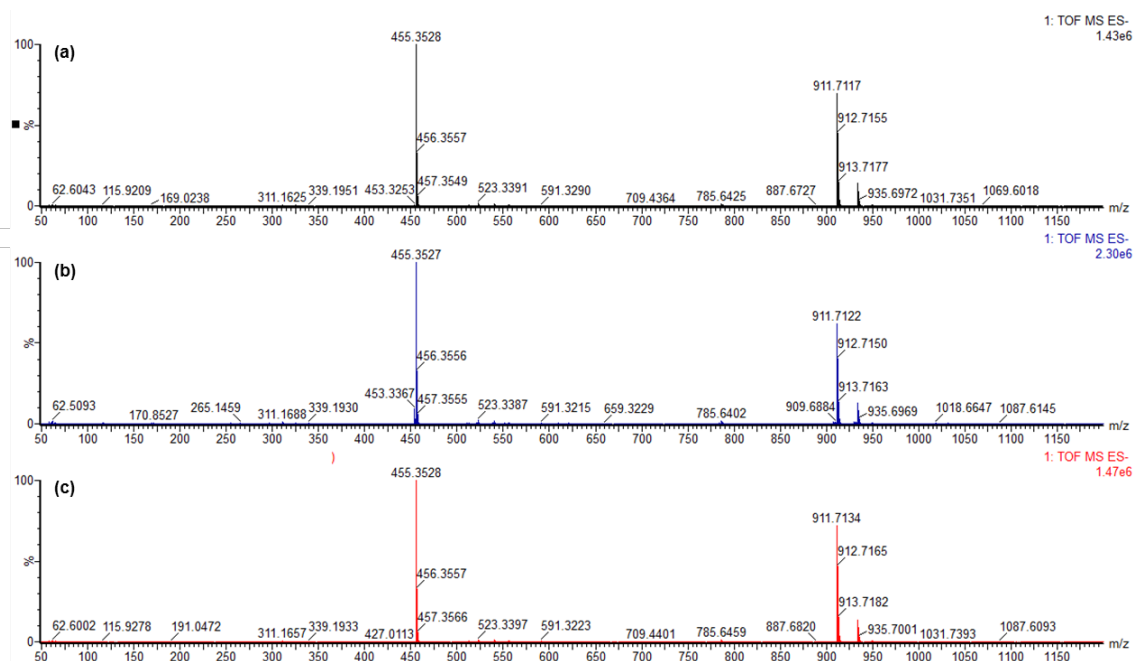


Figure S4. Negative ionization mode mass spectra of (a) DT-BS-01; (b) Oleanolic acid and (c) Ursolic acid

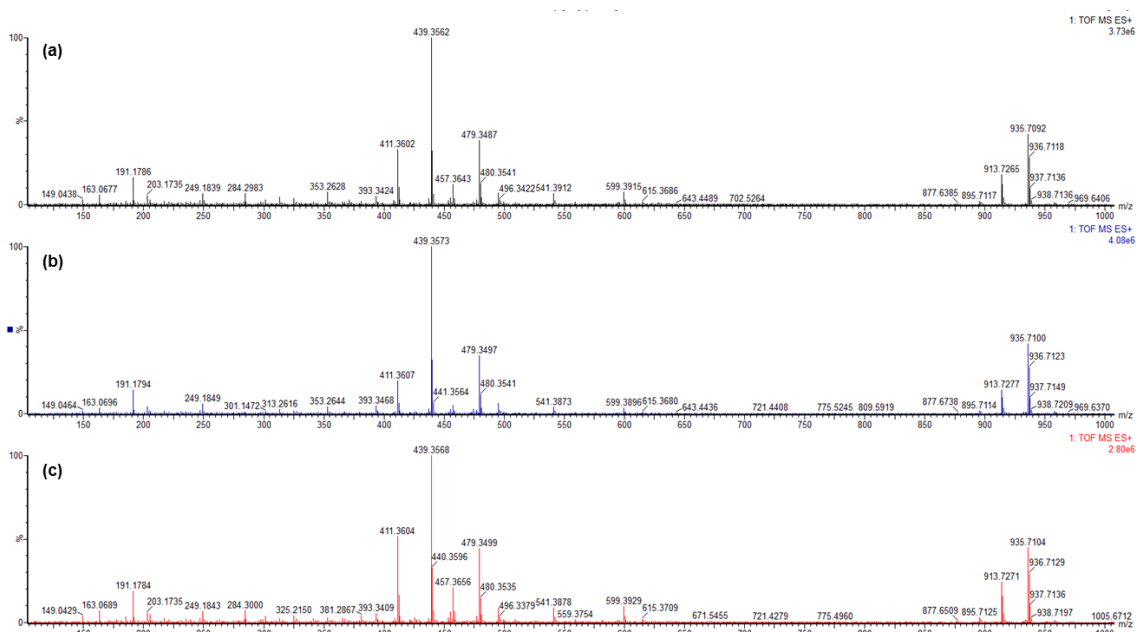


Figure S5. Positive ionization mode mass spectra of (a) DT-BS-01; (b) Oleanolic acid and (c) Ursolic acid

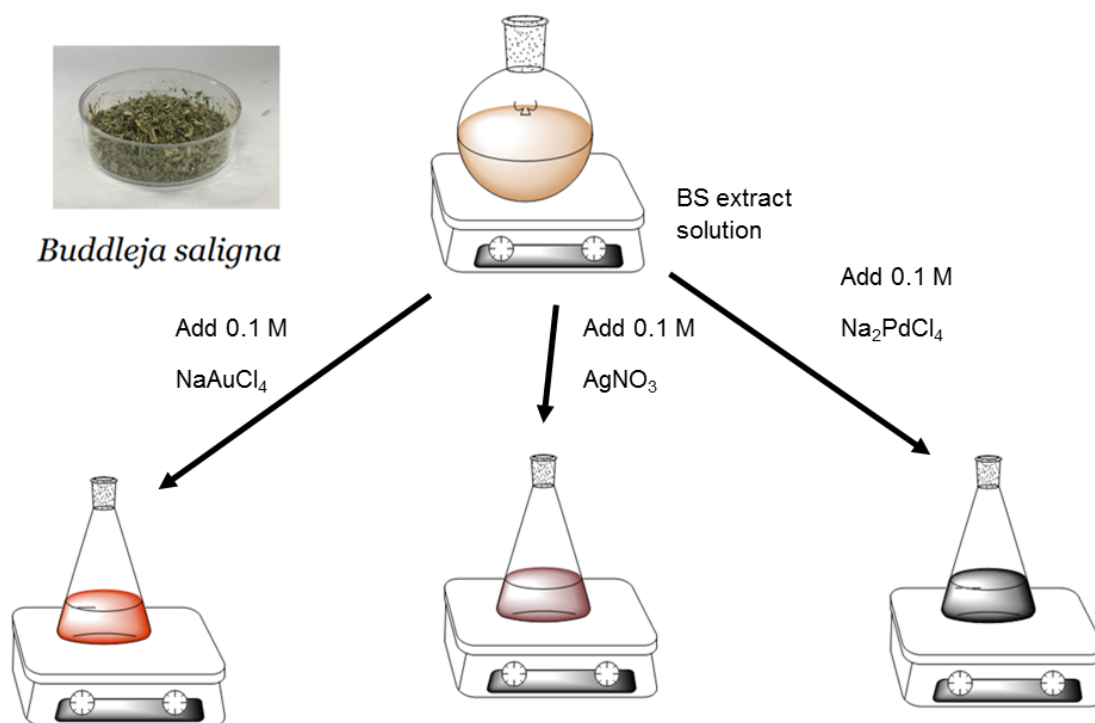


Figure S6. Synthesis process of nanoparticles using *Buddleja saligna*

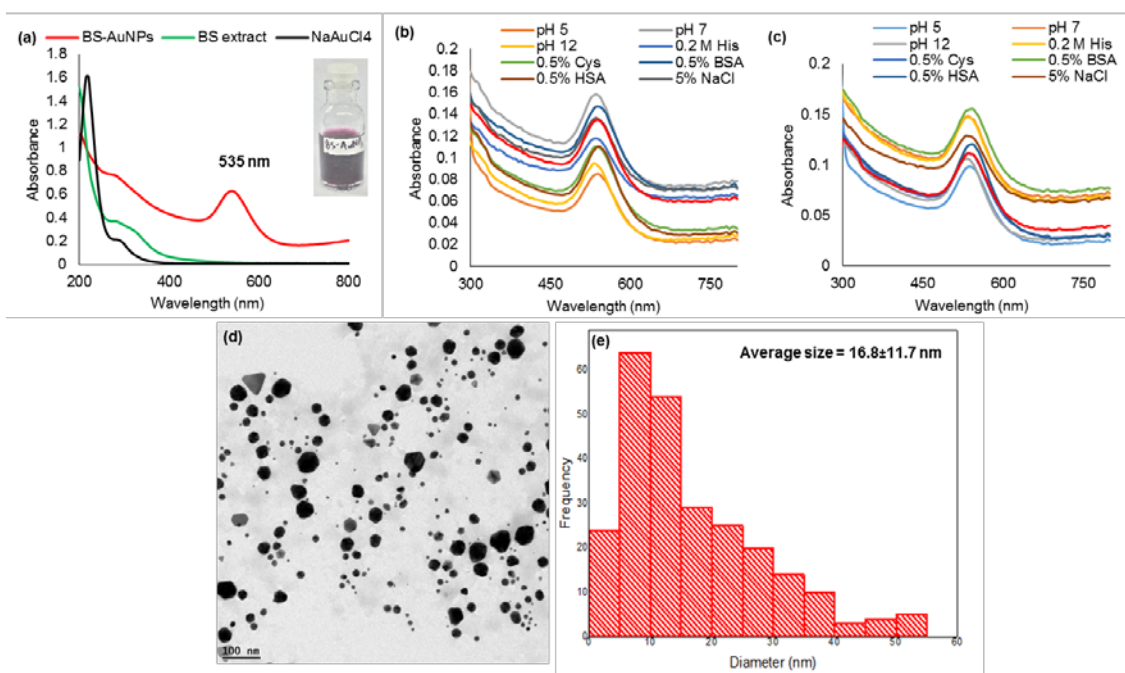


Figure S7. Characterization of BS-AuNPs. (a) UV-Vis absorption spectra; (b) *In vitro* stability in buffer solutions after 24 h; (c) *In vitro* stability in buffer solutions after 48 h; (d) Transmission electron micrograph; (e) Particle size distribution

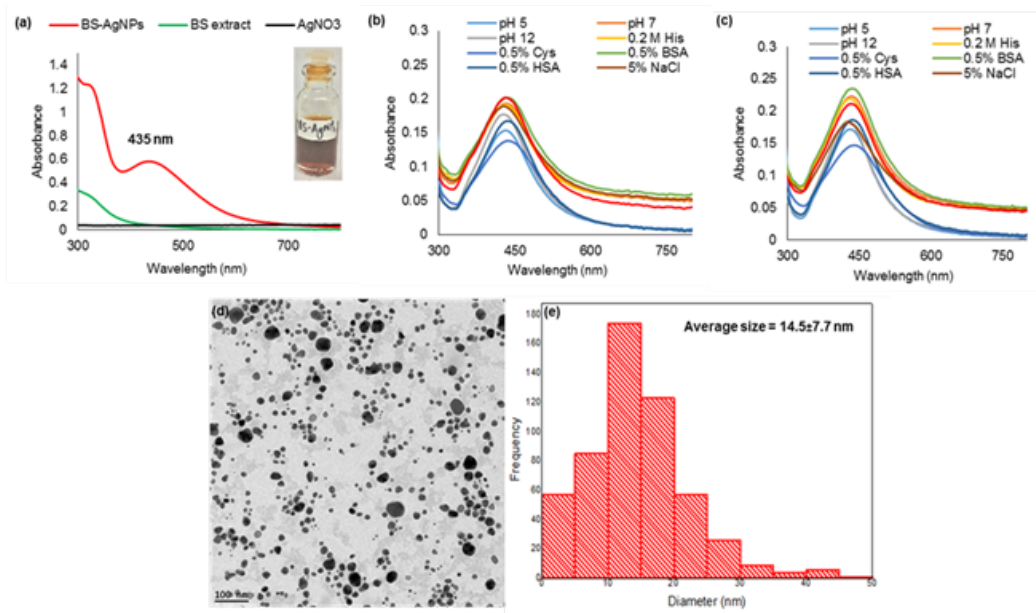


Figure S8. Characterization of BS-AgNPs. (a) UV-Vis absorption spectra. (b) *In vitro* stability in buffer solutions after 24 h. (c) *In vitro* stability in buffer solutions after 48 h. (d) Transmission electron micrograph. (e) Particle size distribution

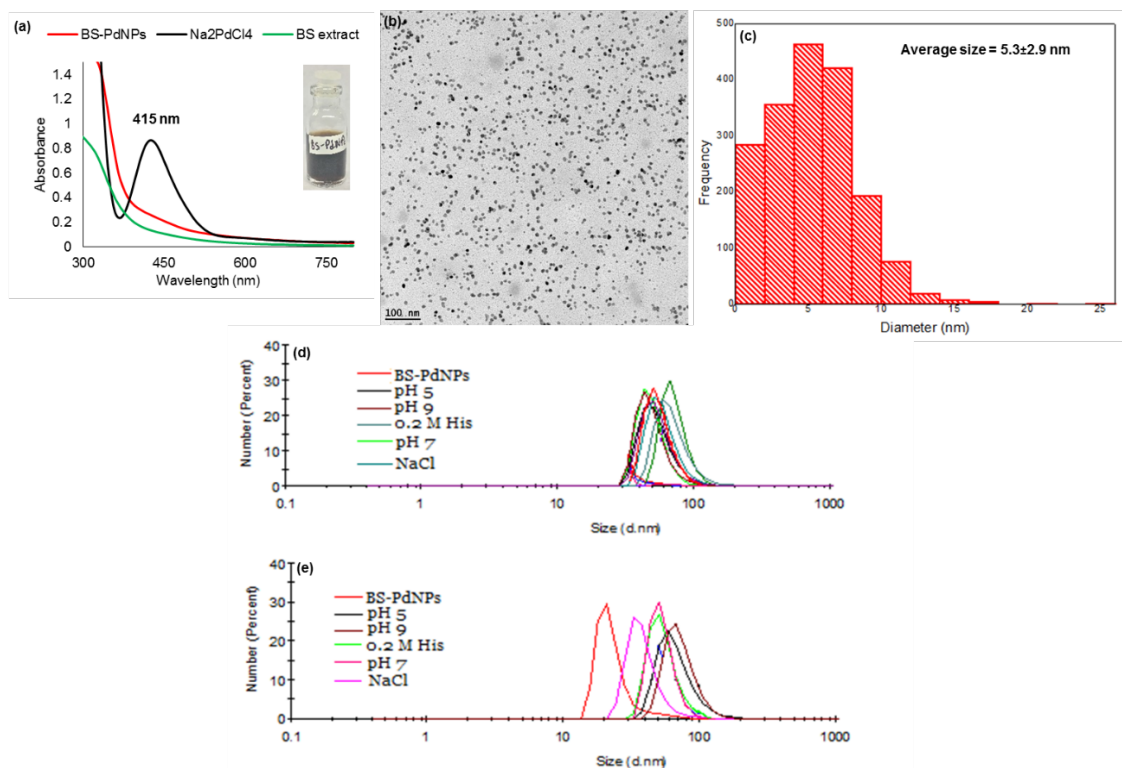


Figure S9. Characterization of BS-PdNPs. (a) UV-Vis absorption spectra; (b) Transmission electron micrograph; (c) Particle size distribution; (d) *In vitro* stability in buffer solutions after 24 h; (e) *In vitro* stability in buffer solutions after 48 h