

Supplementary materials

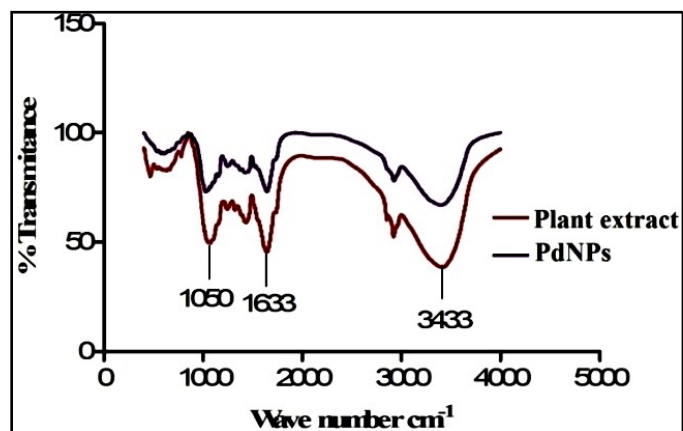


Figure S. 1. FT-IR spectra of *Phoenix dactylifera* Leaf extract and the *Phoenix dactylifera* mediated palladium nanoparticles.

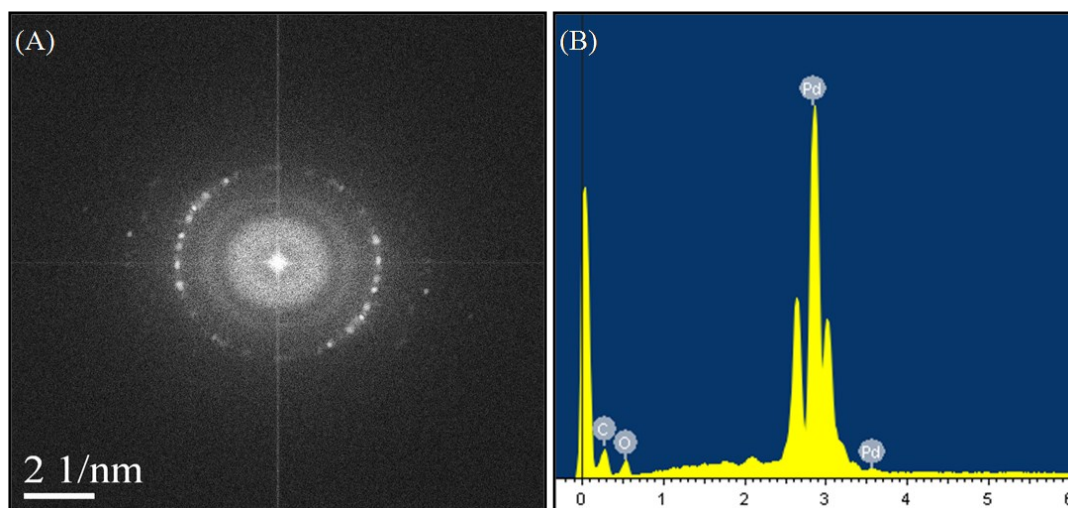


Figure S. 2. (A) SAED and (B) EDX profile of *Phoenix dactylifera* mediated palladium nanoparticles (10 mL extract concentration + 60 °C temperature + 0.003 M PdCl₂)

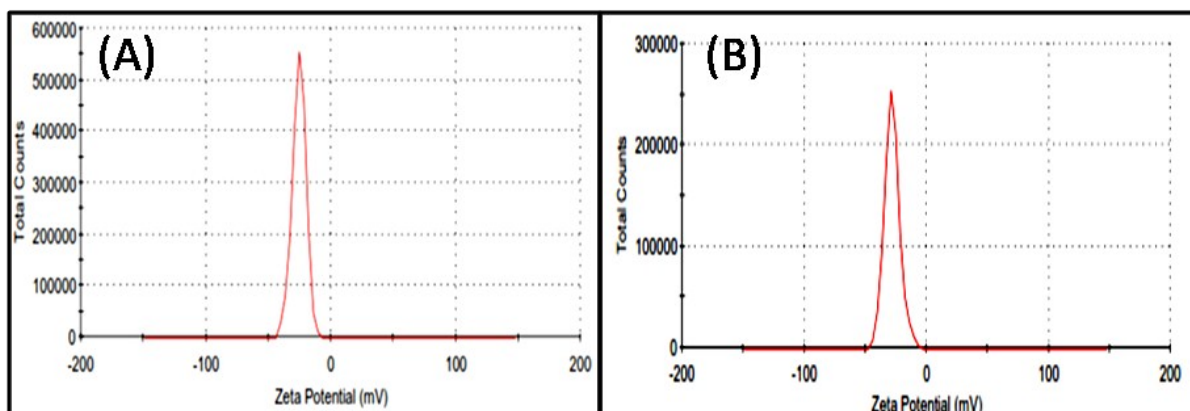


Figure S. 3. Zeta potential of palladium nanoparticles synthesized at (A) 5mL and (B) 10 mL extract concentration