

### **Supplementary material to:**

N. Khanyile, R. Krause, S. Vilakazi and N. Torto,

Un-functionalized Gold Nanoparticles as a Simple Colorimetric Probe for Sensitive and Selective Detection of Dopamine,

*S. Afr. J. Chem.*, 2019, **72**, 207–214.

Electronic supplementary information

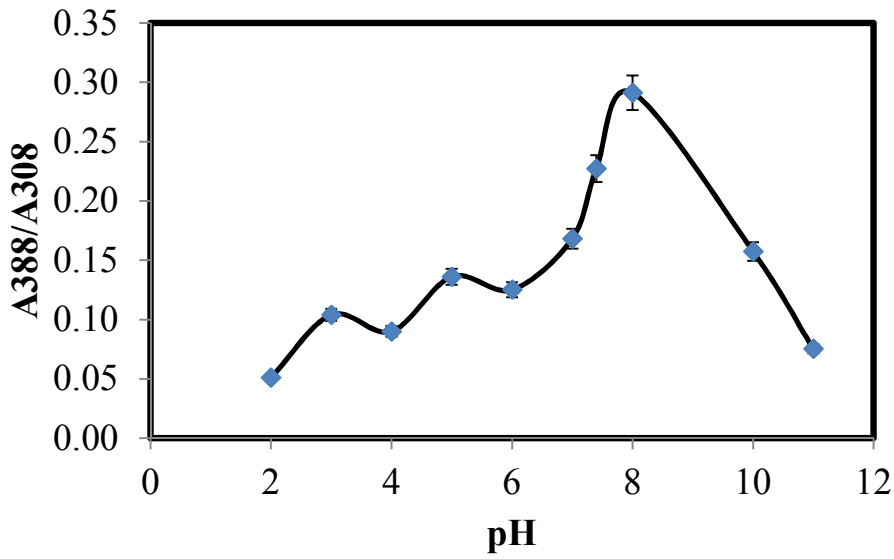


Figure 1: Effect of media pH on the absorbance ratio ( $A_{388}/A_{308}$ ).

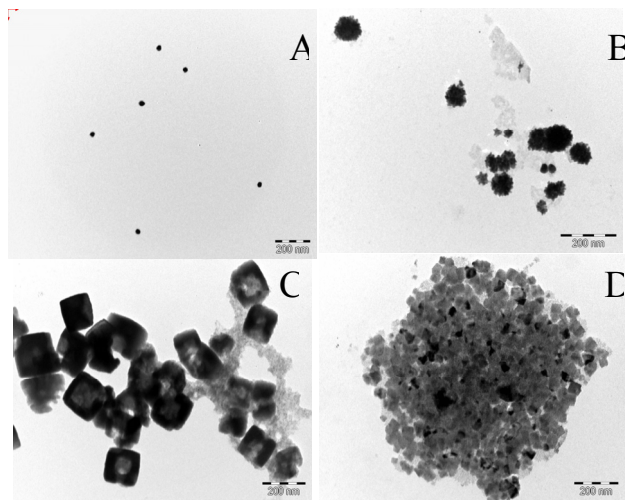


Figure 2: TEM images of the un-stabilized AuNPs in the presence of DA. A-B shows growth in the size of the nanoparticle, in 5 nM (B) with core size of 18.37 nm and in 5  $\mu$ M (C) with core size of 83.66 nm, C and D shows aggregates of nanoparticles formed in 0.05 mM and 0.5 mM respectively.