

Supplementary data

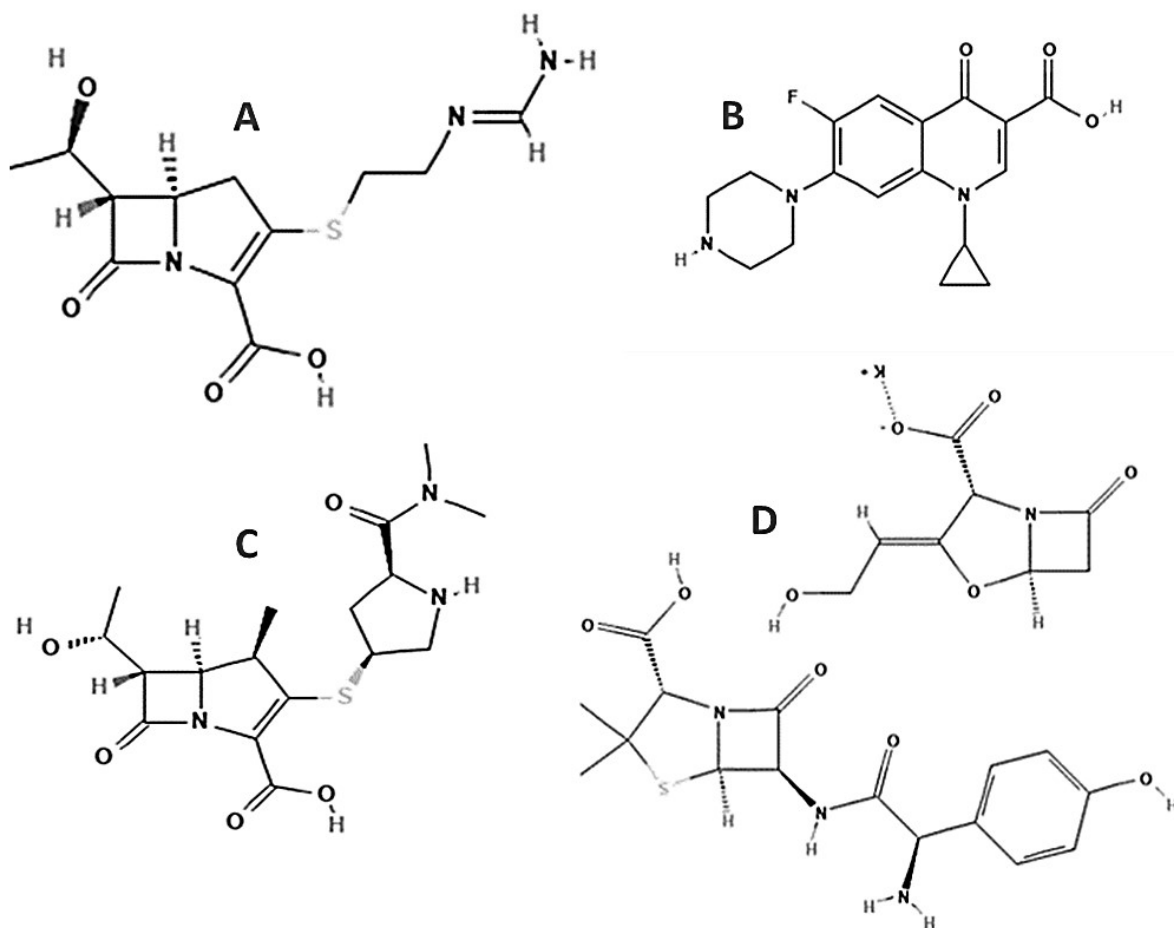


Figure S1: Chemical structures of the antibiotics used for the synthesis of AuNPs@ANT. (A) Imipenem, (B) Ciprofloxacin (C) Meropenem and (D) Augmentin (Amoxicillin-Clavulanate).

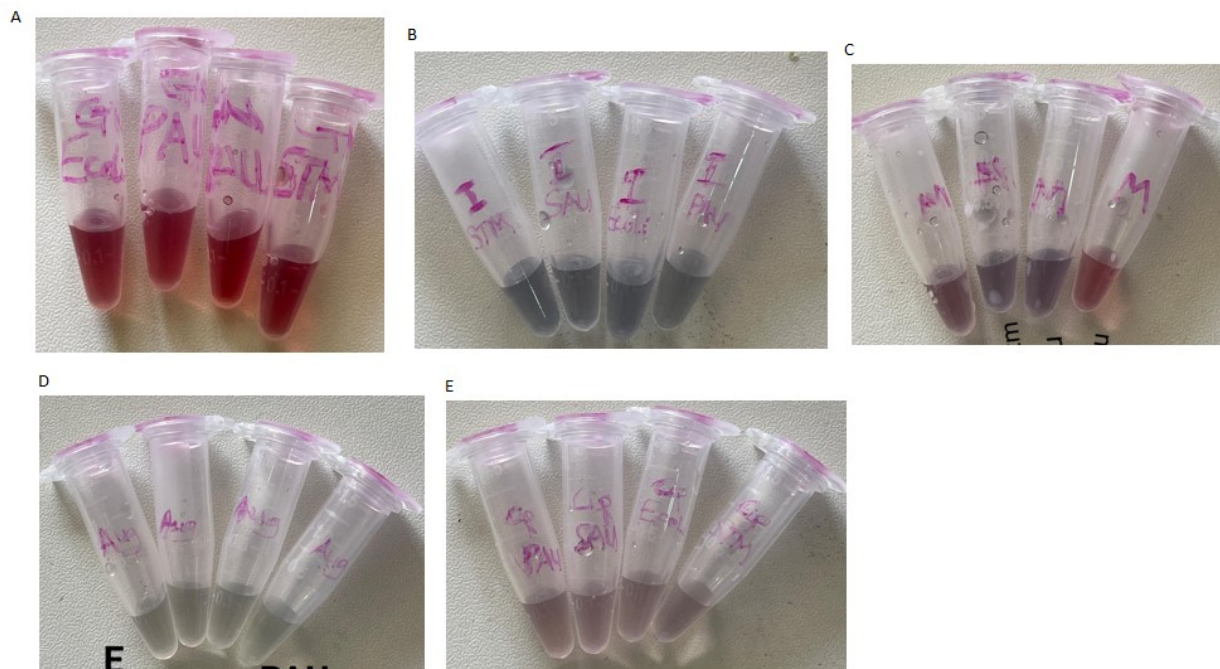


Figure S2: Colorimetric response of Screening of *Staphylococcus aureus*, *E. coli*, *Pseudomonas aeruginosa* and *Salmonella typhimurium* strains using antibiotic nanoconjugates when exposed to: (A) unmodified AuNPs (B) AuNPs@IMI, (D) AuNPs@MER, (E) AuNPs@AUG and (F) AuNPs@CIP,

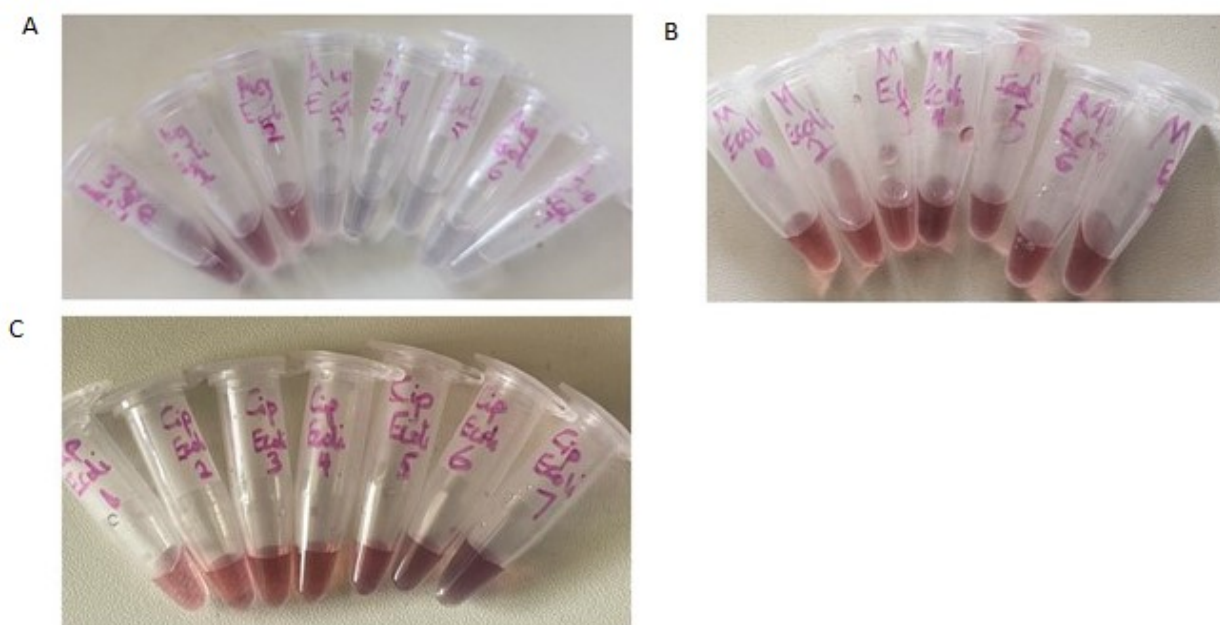


Figure S3: Color change for detection of *E. coli* using conjugates of antibiotics. (A) AuNPs@MER, (B) AuNPs@AUG and (c) AuNPs@CIP.