

## Supporting information

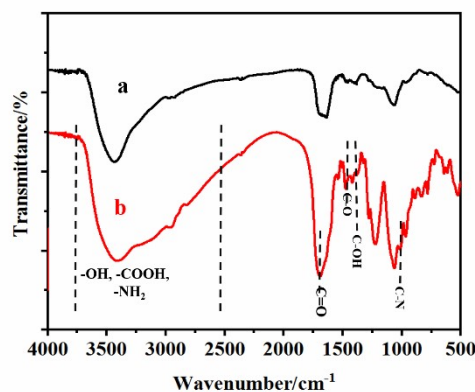


Figure S1. FT-IR spectra of double-stranded DNA (a) and DNA bio-dots (b).

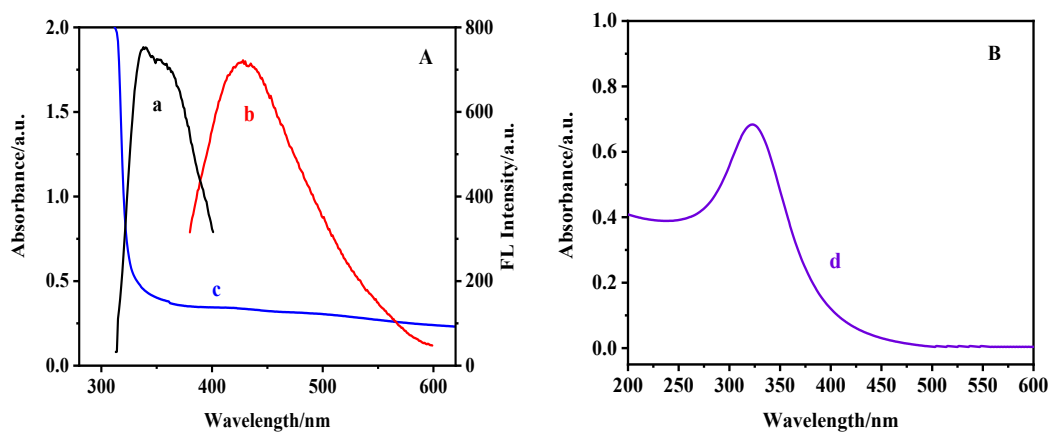


Figure S2. (A) Excitation (a) and emission spectra (b) of DNA bio-dots; absorption spectrum of PDA (c); (B) absorption spectrum of DNA bio-dots (d).

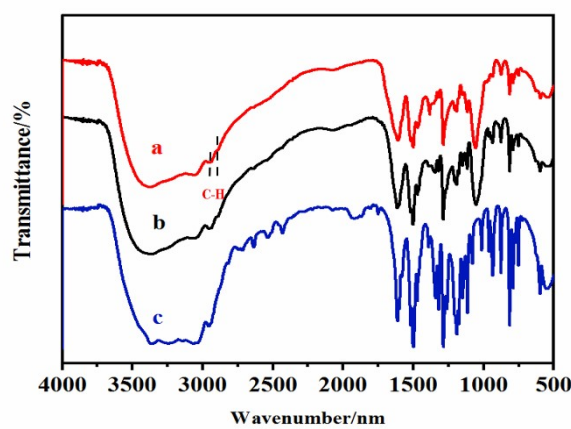


Figure S3. FT-IR spectra of PDA (a), DNA bio-dots @PDA (b) and DA(c).