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Supporting Information

Electrochemical detection of microRNA-21 based on Au nanoparticles functionalized g- C_3N_4 nanosheet as sensing platform and hybridization chain reaction amplification strategy

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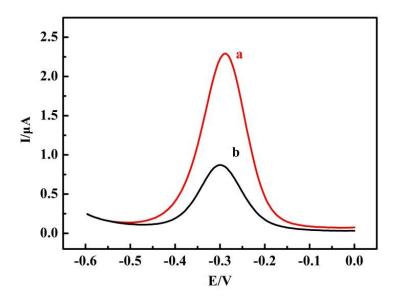


Fig.S1: DPV curves of the biosensor with Au NPs- g- C_3N_4 NS (a) and Au NPs (b) as base material

Condition: C_{microRNA} =1.0 pM , other conditions were the same

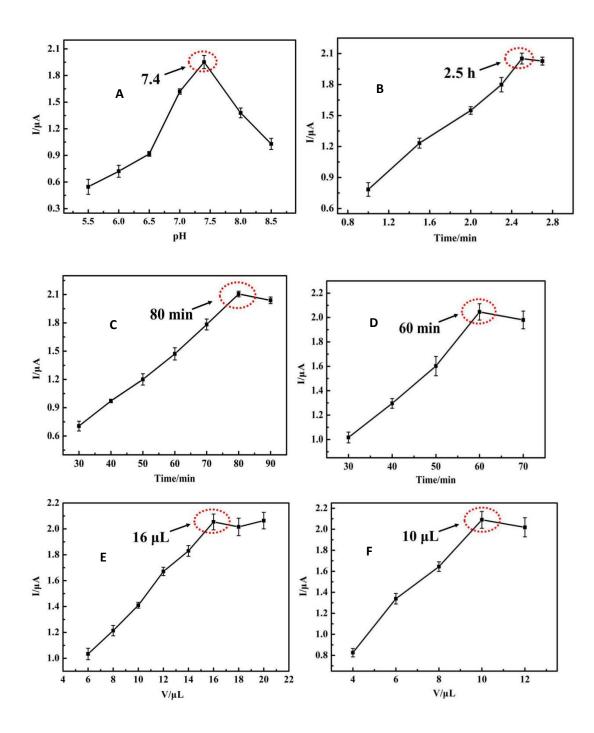


Fig. S2. Optimization of experimental conditions: (A) pH values ; (B) Incubation time of P₁-P₂; (C) Hybridization time between HP and micro RNA (E) Hybridization time between micro RNA and signal probes (F)

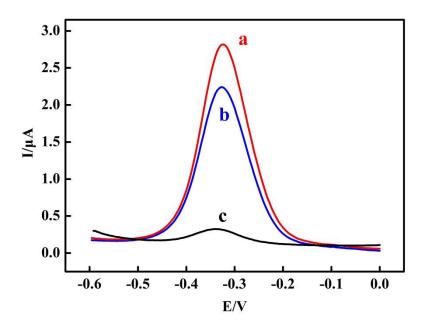


Fig. S3. DPV curves of biosensor in serum sample only (curve c) or containing 1.0 pM (b) and 10.0 pM (a) micro RNA-21, respectively.