Supplementary Information

Highly sensitive electrochemical biosensor for Hg$^{2+}$ by using entropy-driven DNA walker-based amplification

Liuyin Hu $^a$, Jiahua Cui $^b$, Yalin Wang $^a$, Jinping Jia $^{a,b,*}$

![Graph A](image1.png)

![Graph B](image2.png)

![Graph C](image3.png)

![Graph D](image4.png)

![Graph E](image5.png)
Fig. S1. (A) The effect of pH, (B) optimization of A concentration modified to the electrode surface, (C) optimization of the reaction time for modifying the A to the electrode surface, (D) optimization of W concentration, (E) optimization of reaction time after addition of the W, Hg$^{2+}$ and F into the sensing system.