

SUPPLEMENTARY INFORMATION

Electrochemical system for field control of Hg²⁺ concentration in wastewater samples

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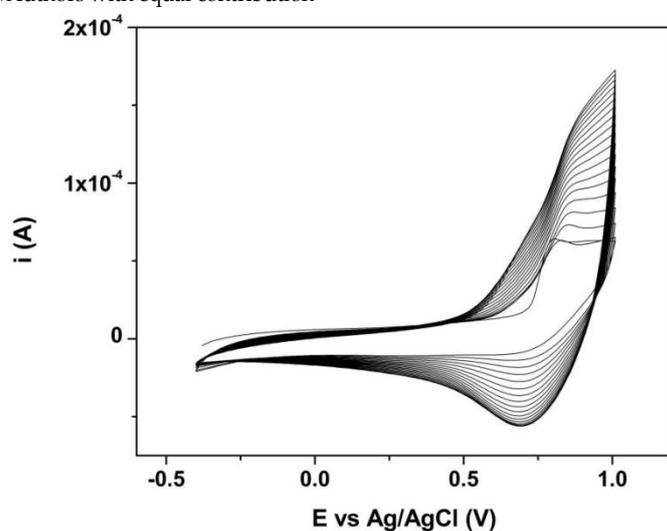


Figure S1. Successive cyclic voltamograms recorded in 1.5mM L in 0.1M TBAP, acetonitrile solution at carbon SPE (0.1 V/s).

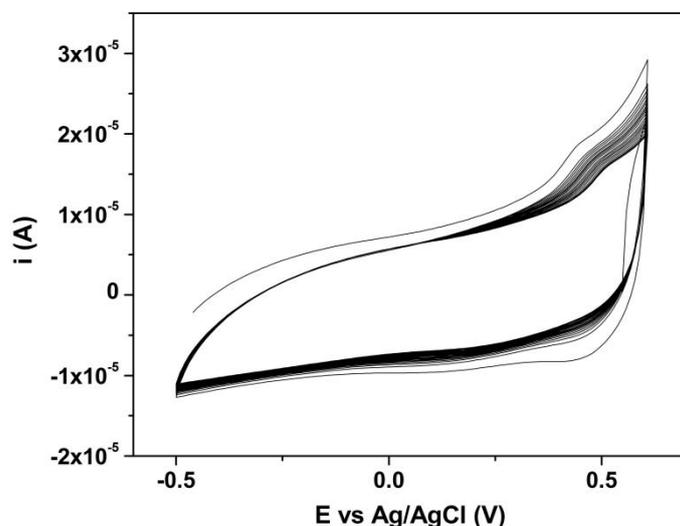


Figure S2. Successive cyclic voltamograms recorded in 0.1M TBAP, acetonitrile solution at SPE-polyL modified electrode (0.1 V/s).

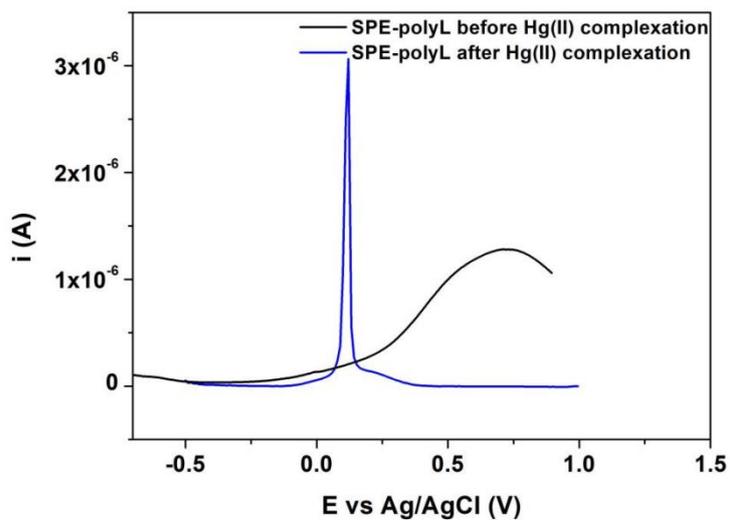


Figure S3. DPV stripping curves recorded on SPE electrode modified with polyL before and after mercury complexation; the accumulation was performed in acetate buffer at pH 3.0 containing 10^{-7} M Hg(II) for a time of 20 min; and the reduction was performed at -1.3 V for 15 seconds.

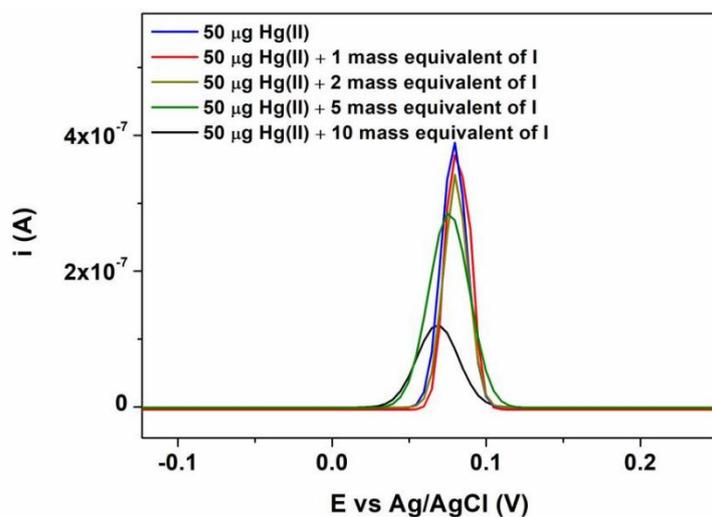


Figure S4. Effect of interfering cations (I: (Zn(II), Cd(II), Pb(II), Ni(II), Co(III), and Cu(II)) on 50 µg Hg(II) detection after open-circuit accumulation of 20 min in acetate buffer (pH = 3). Each interfering ions is at the same specified mass equivalent vs. Hg(II) ions concentration.