Electronic Supplementary Material (ESI) for Analytical Methods.

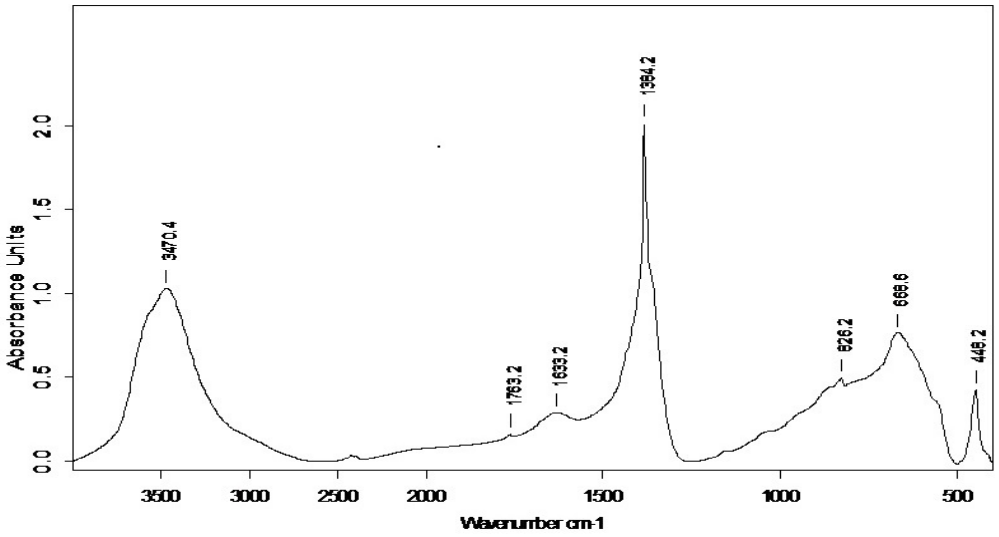

Fig. S1. FTIR spectrum of LDH

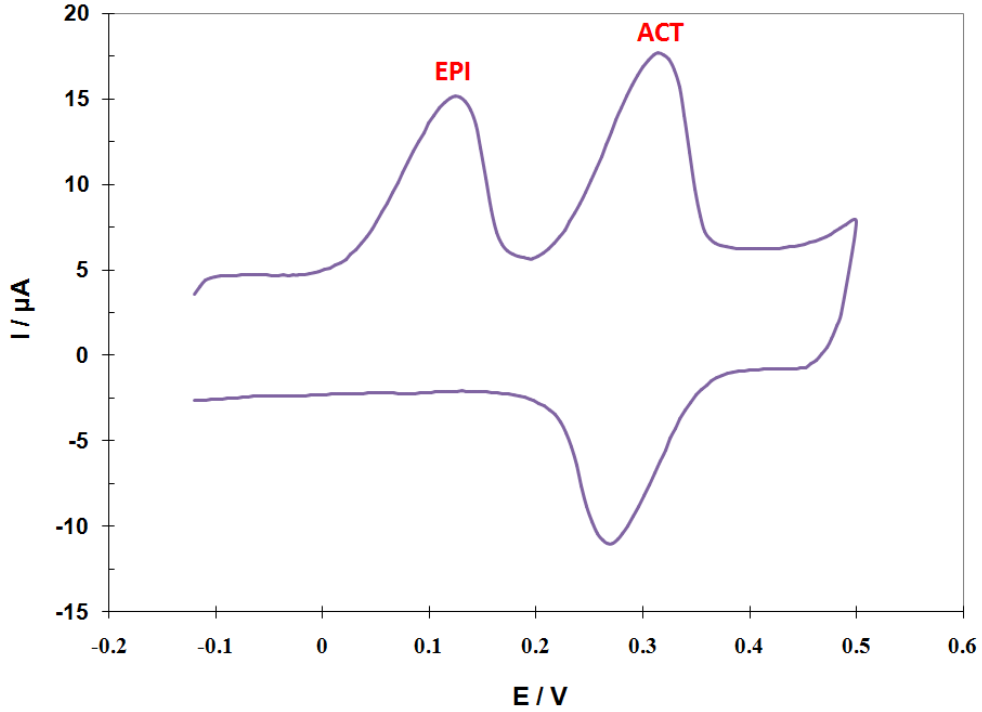

Fig. S2. Cyclic voltammogram of simultaneous determination of 5 µM EPI and 5 µM ACT at MWCNTs-NHNPs-LDH/GCE in 0.1 mol L^{-1} phosphate buffer solution (pH=7) at scan rate of 50 mVs^{-1}.

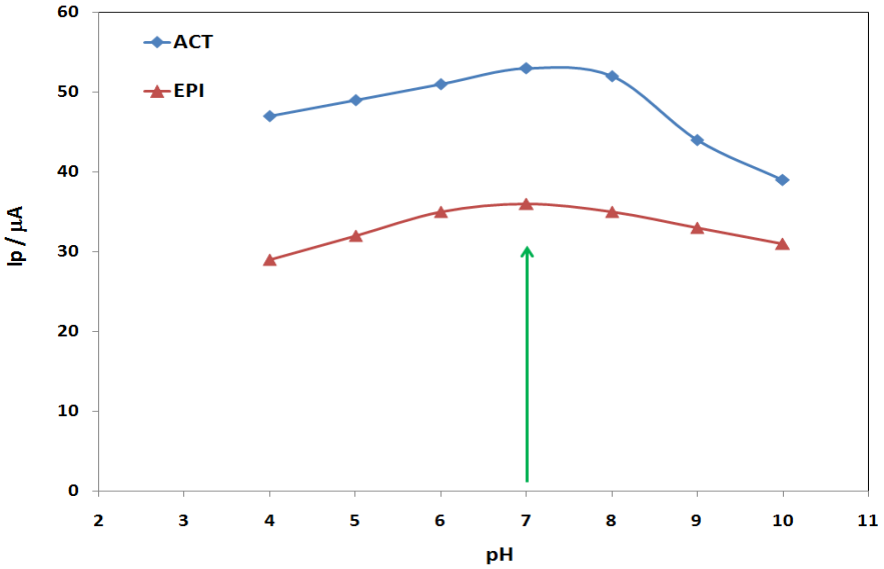

Fig. S3. Plot of anodic peak currents (Ipa) as a function of pH of buffer solutions for 20 µM EPI and 20 µM ACT compounds at MWCNTs-NHNPs-LDH/GCE in 0.1M phosphate buffer.

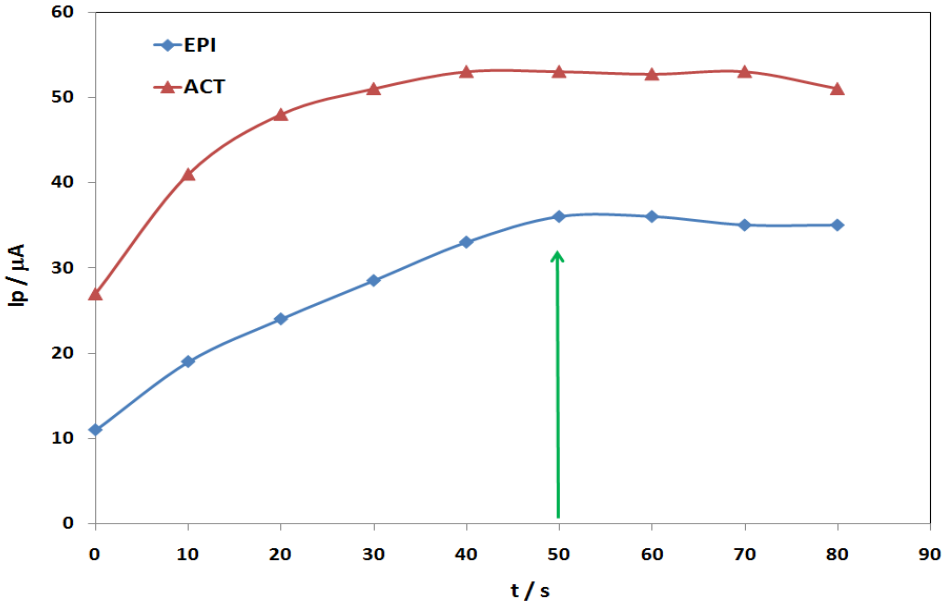

Fig. S4. Plot of anodic peak currents (Ipa) as a function of accumulation time for 20 µM EPI and 20 µM ACT compounds at MWCNTs-NHNPs-LDH/GCE in 0.1M phosphate buffer.

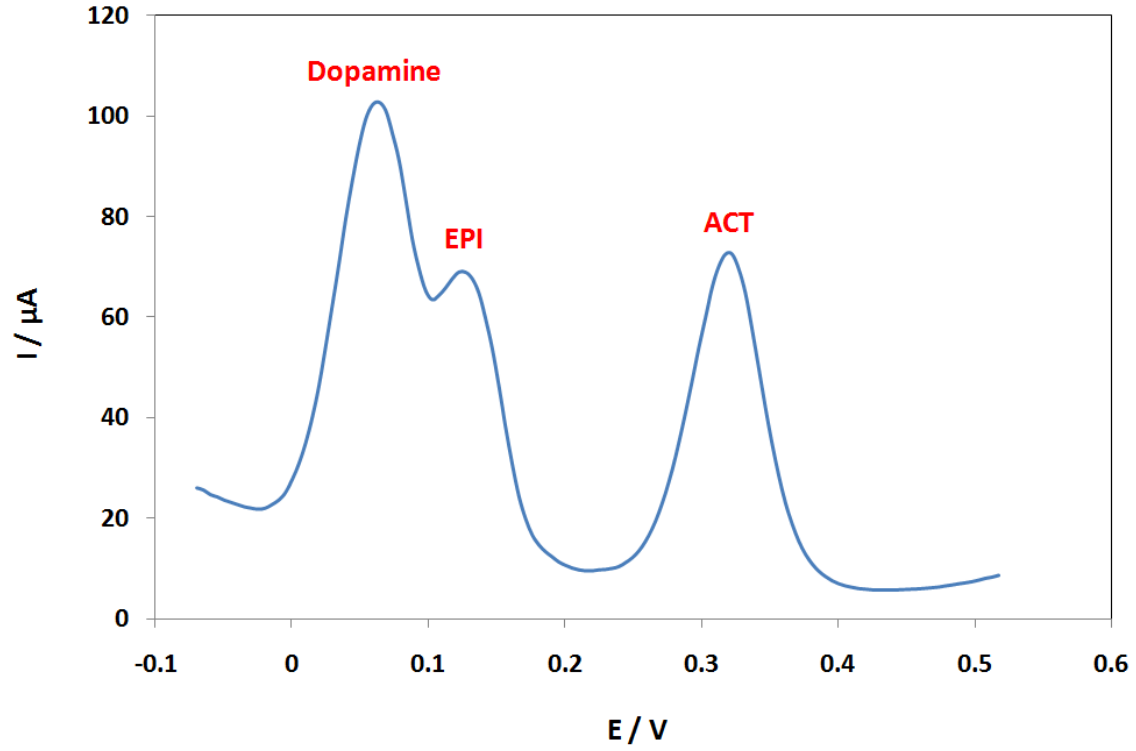

Fig. S5. Differential pulse voltammogram of 40 µM EPI and 30 µM ACT at MWCNTs-NHNPs-LDH/GCE in present of 200 µM Dopamine.

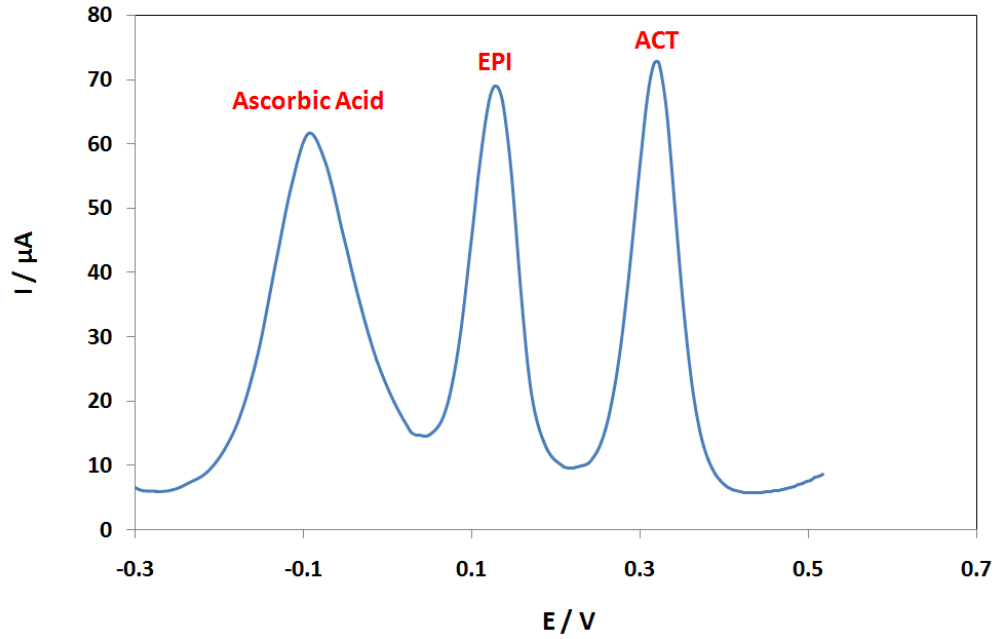

Fig. S6. Differential pulse voltammogram of 40 µM EPI and 30 µM ACT at MWCNTs-NHNPs-LDH/GCE in present of 350 µM ascorbic acid.

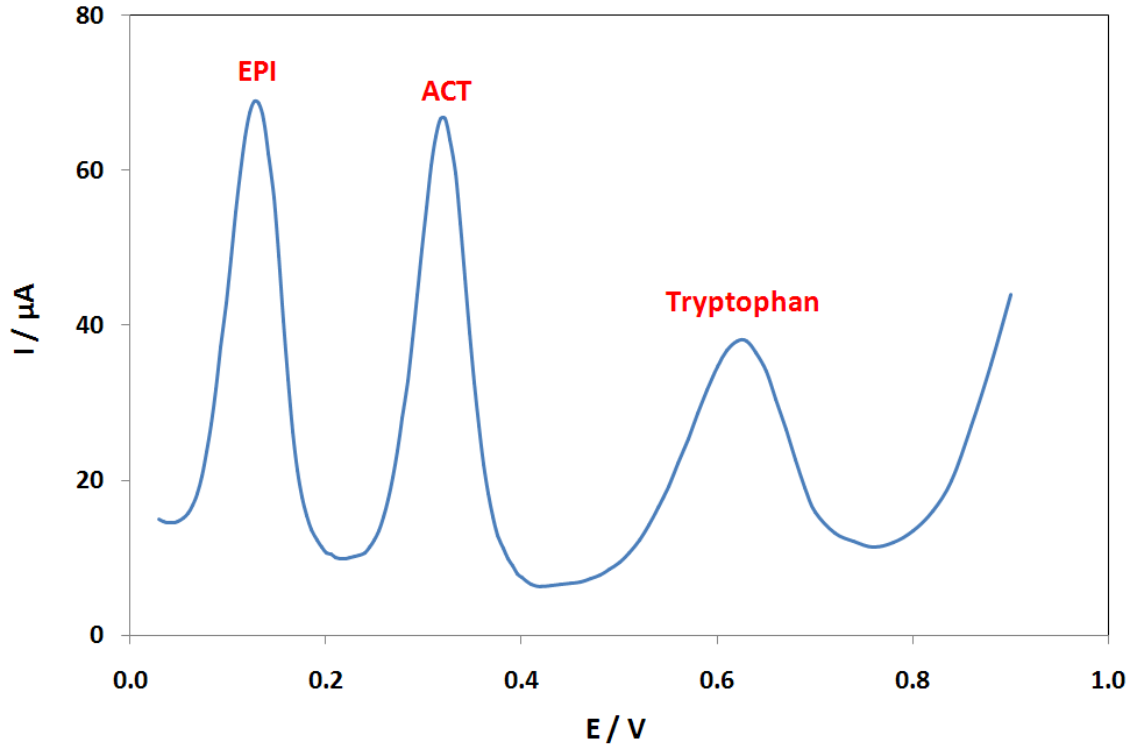

Fig. S7. Differential pulse voltammogram of 40 µM EPI and 30 µM ACT at MWCNTs-NHNPs-LDH/GCE in present of 250 µM Tryptophan.

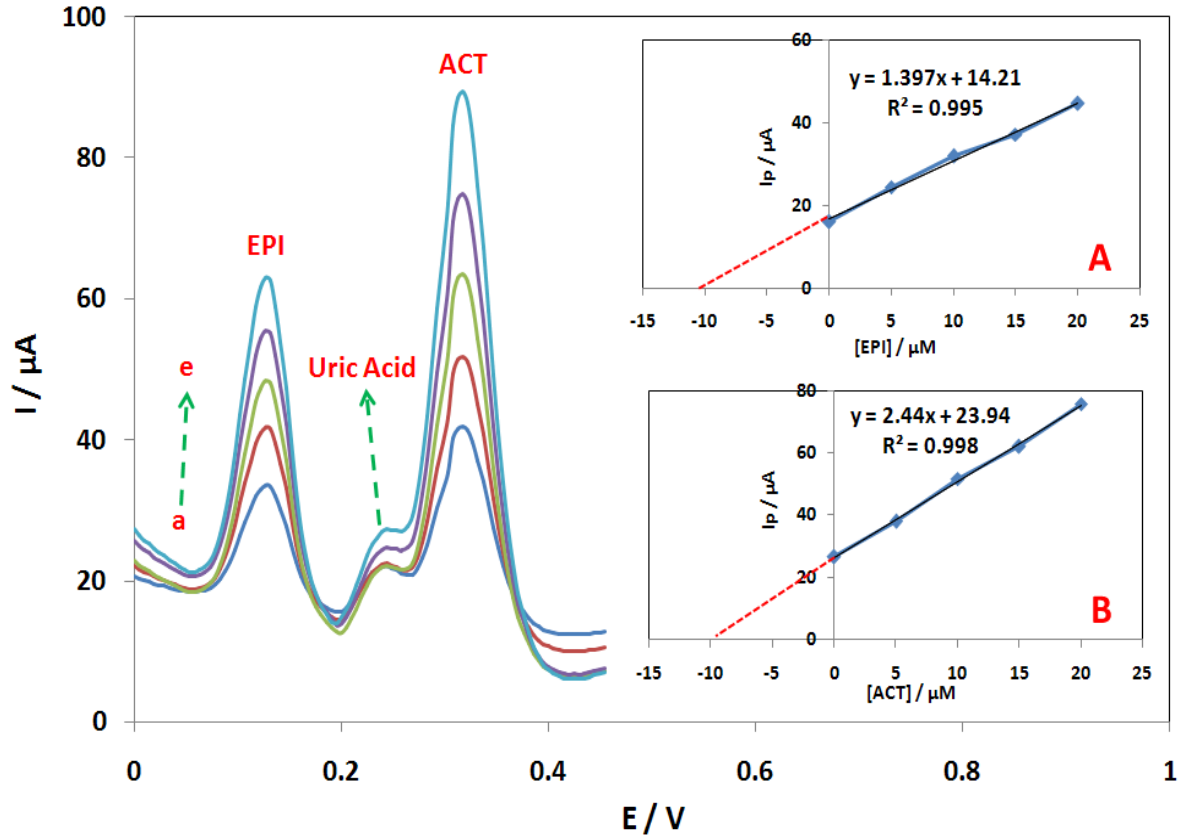

Fig. S8. Differential pulse voltammograms of variously spiked concentrations of EPI and ACT mixtures in human blood serum containing 10 µM EPI and 10 µM ACT at the surface of MWCNTs-NHNPs-LDH/GCE: (a) 0+0, (b) 5+5, (c) 10+10, (d) 15+15 and (e) 20+20 µM. Insets: (A) calibration curve of EPI and (B) calibration curve of ACT.

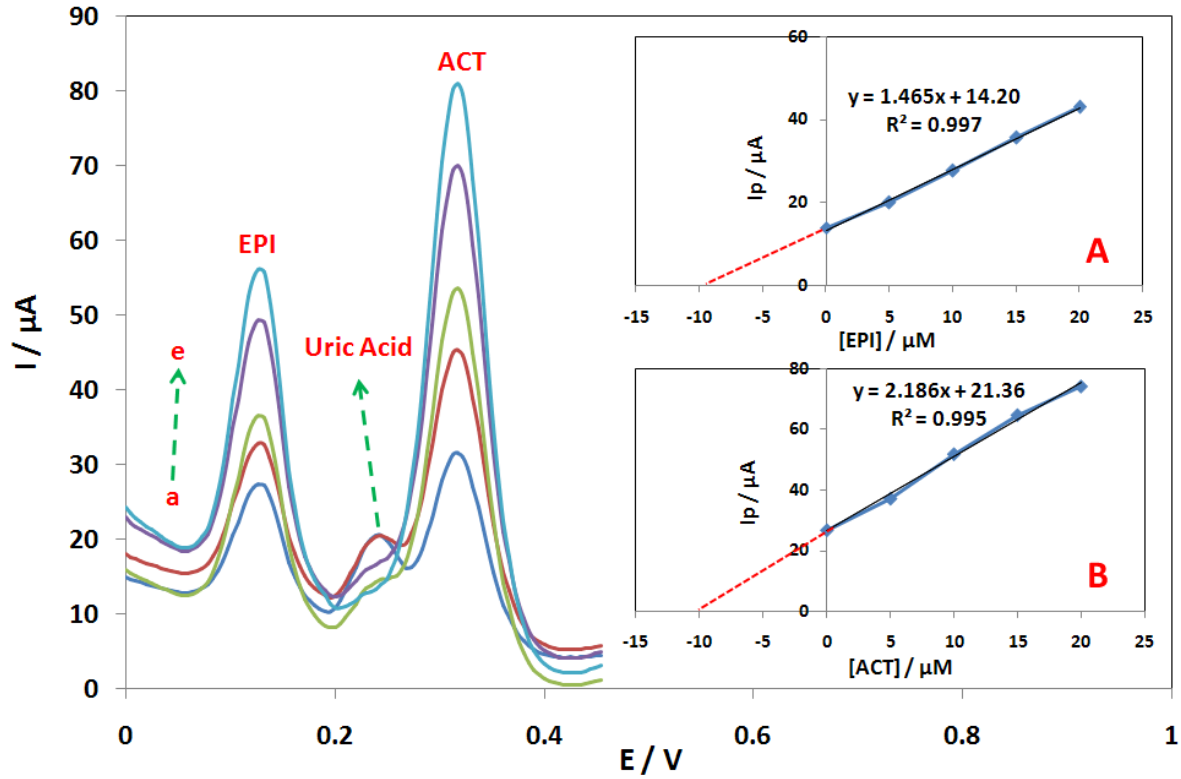

Fig. S9. Differential pulse voltammograms of variously spiked concentrations of EPI and ACT mixtures in human urine containing 10 µM EPI and 10 µM ACT at the surface of MWCNTs-NHNPs-LDH/GCE: (a) 0+0, (b) 5+5, (c) 10+10, (d) 15+15 and (e) 20+20 µM. Insets: (A) calibration curve of EPI and (B) calibration curve of ACT.