Supplementary material

A novel biosensor based on horseradish peroxidase trapped in silica Sol-Gel/MWCNTs matrix for methyldopa determination in medical and pharmaceutical samples

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Figure S1. The effect of potential scan rate (v) on CV voltammograms of 3 mmol L^{-1} methyldopa and 0.15 mmol L^{-1} of H_2O_2 in phosphate buffer within scan rate of 10 to 200 mV s⁻¹. Pulse amplitude 50 mV, pulse width 50 ms, scan rate 100 mVs⁻¹.



Figure S2. Linear relation between potential scan rate and anodic and cathodic peak currents. Regression equations and correlation coefficients are shown for both linear slopes.



Figure S3. Potential peak currents (E_{pa} and E_{pc}) vs. logarithm of scan rate for CV voltammograms of Figure 1.