Supporting information

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Nafion-coated cadmium pentacyanonitrosylferrate-modified glassy carbon electrode for detection of dopamine in biological samples

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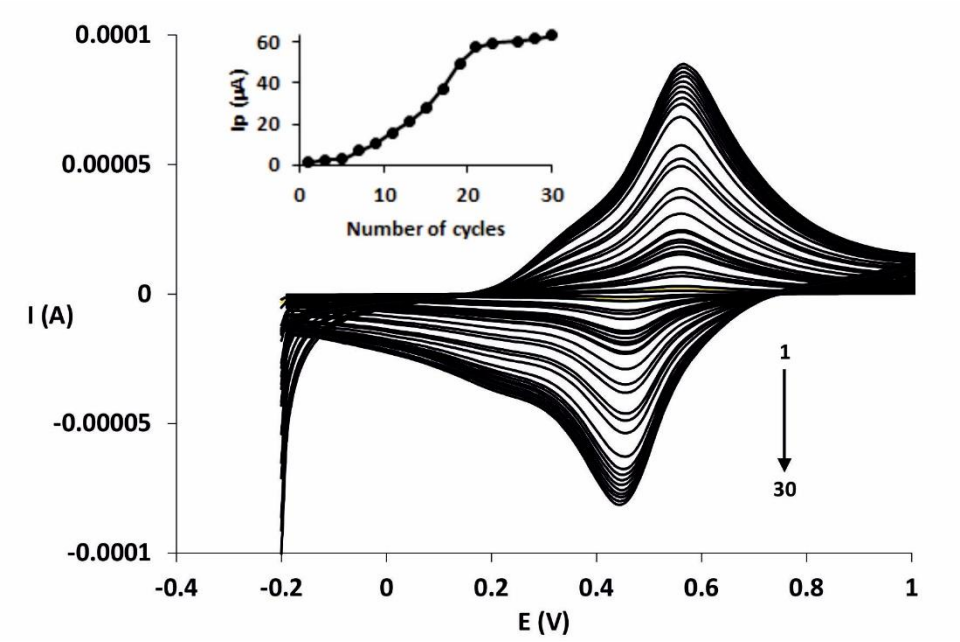

Fig. S1. Successive cyclic voltammetric scans (1–30 from inner to outer curve) recorded during electrodeposition of CdPCNF on the GC electrode surface at pH 3. Potential scan rate: 0.1 V/s. Inset: Anodic peak current reached a plateau after 21 potential cycles of CV.

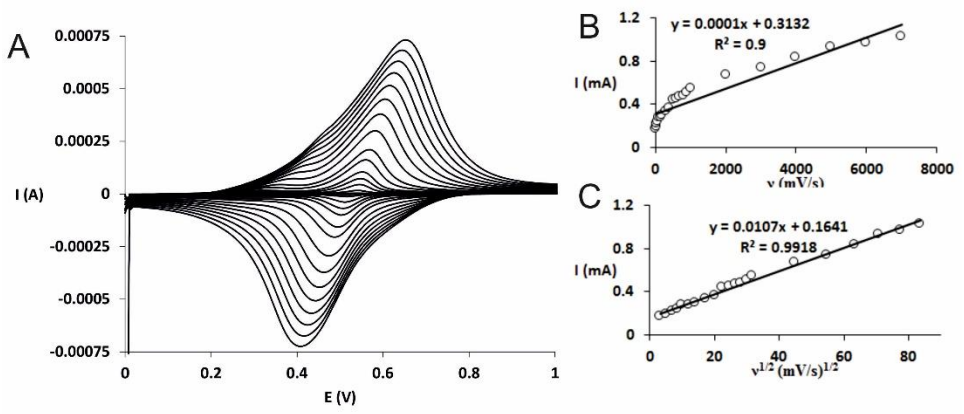

Fig. S2. (A) Cyclic voltammograms of 5.0 mM DA for Nafion|CdPCNF|GC electrode at different potential scan rates ranging from 10 to 7000 mV/s; (B) and (C) represent the variation of peak currents versus scan rate (υ) and (square root of scan rates) $\upsilon^{1/2}$, respectively.

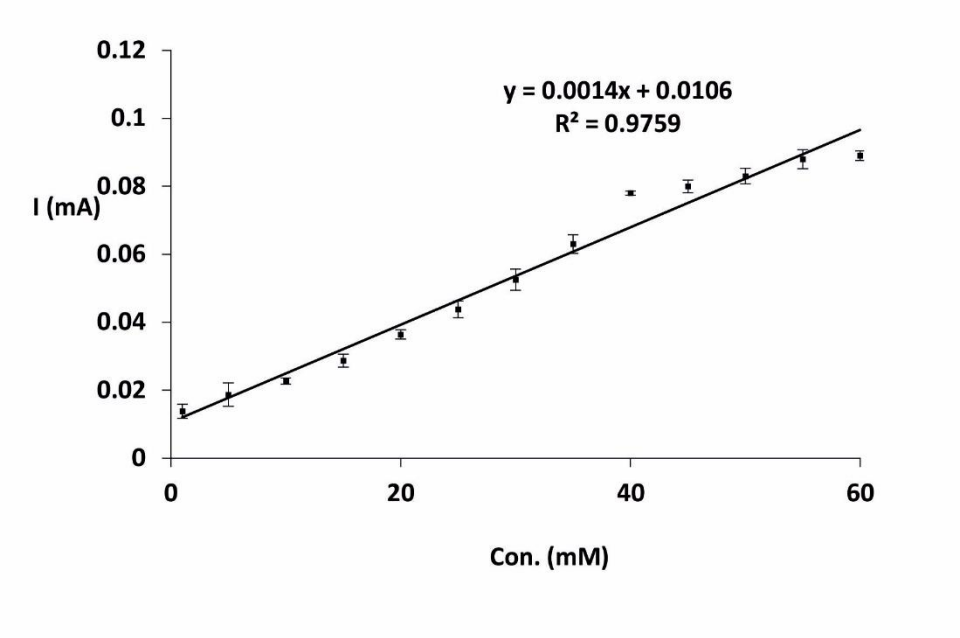

Fig. S3. The calibration plot of DA determination using CV method

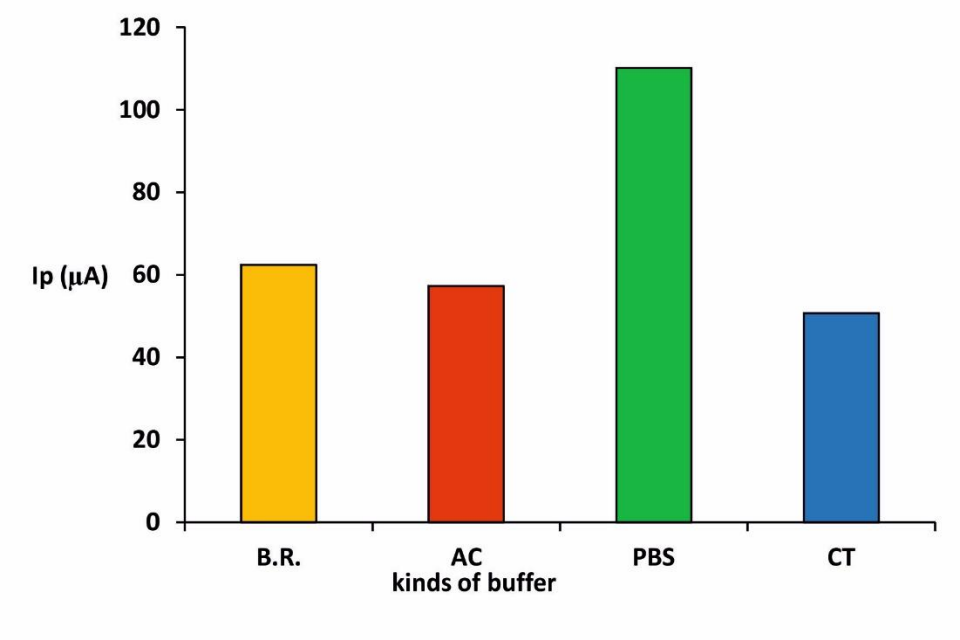

Fig. S4. Responses of Nafion|CdPCNF|GC electrode for the determination of DA are different in the various supporting electrolytes (buffers). Maximum response was recorded in PBS at pH 7.4.