

Analytical Methods

Electronic Supplementary Information (ESI)

Nitrocellulose membranes in-situ grown with Prussian blue nanoparticles as stable nanozyme pads for colorimetric detection of dopamine

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1. Supplementary Results

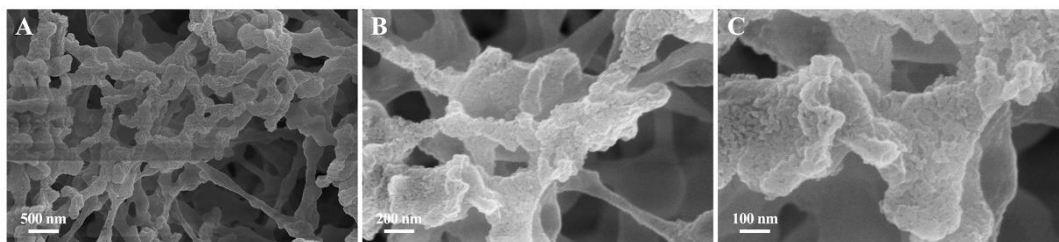


Fig. S1 (A-C) SEM images of the nanozyme pad at different magnifications (FeCl_3 concentration: 3.0 mM).

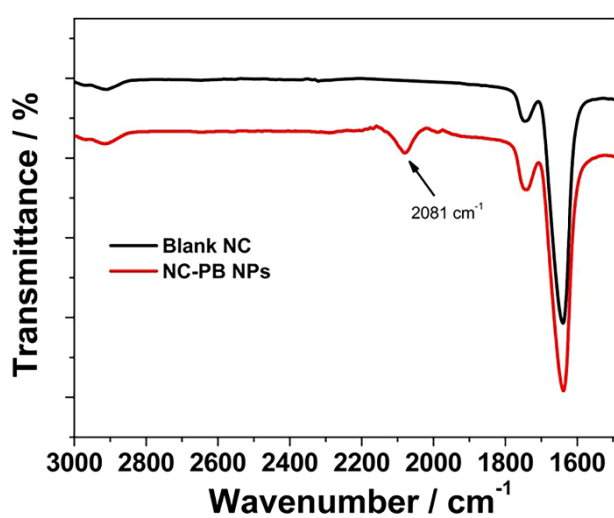


Fig. S2 FT-IR spectra of blank NC membranes and the nanozyme pads (NC-PB NPs) (FeCl_3 concentration: 1.0 mM).

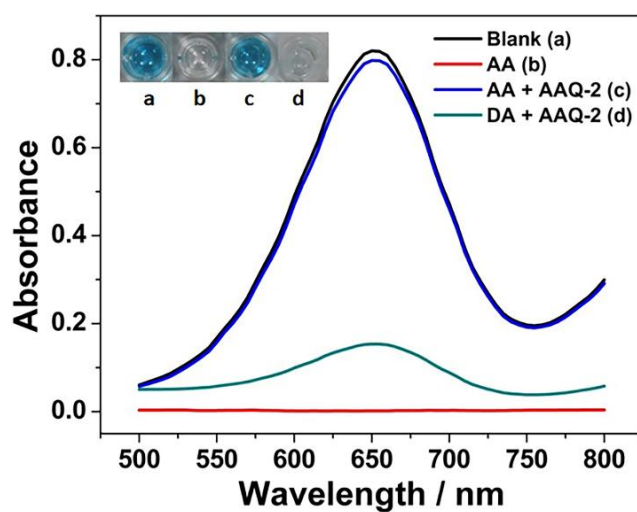


Fig. S3 UV-vis spectra of the colorimetric reaction solutions in the presence of different components (AA: 300 μM , AAQ-2: 1.5 mM, DA: 30 μM). Inset: Photographs of relevant reaction

solutions.

Table S1 Determination results of DA in real human urine samples (n = 3)

Sample	Spiked concentration (μM)	Detected concentration (μM)	Recovery (%)	Relative standard deviation (RSD) (%)
1	5.00	4.93	98.50	4.82
2	10.00	9.60	96.00	1.57
3	20.00	20.00	100.00	3.23