Supporting information

Development of 3D-printed Conducting Microneedle-Based

Electrochemical Point-of-Care Device for Transdermal Sensing of Chlorpromazine

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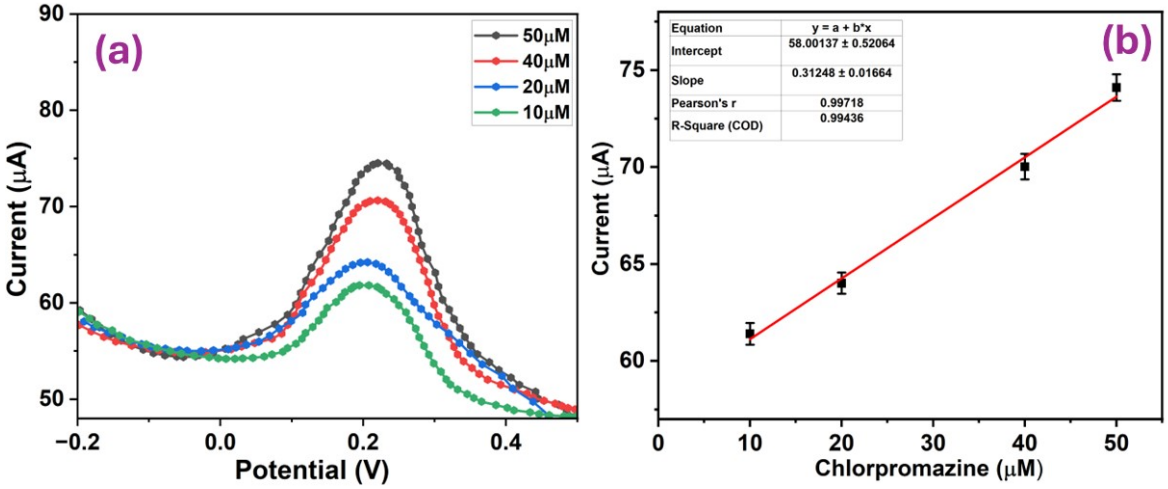

Fig S1: Illustration of chlorpromazine detection using a microneedle sensor in a skin-mimicking phantom gel. (a) Differential pulse voltammetry spectra of microneedle sensor towards different concentrations of chlorpromazine infused in the phantom gel, and (b) corresponding calibration plot between the chlorpromazine concentration and peak current values.

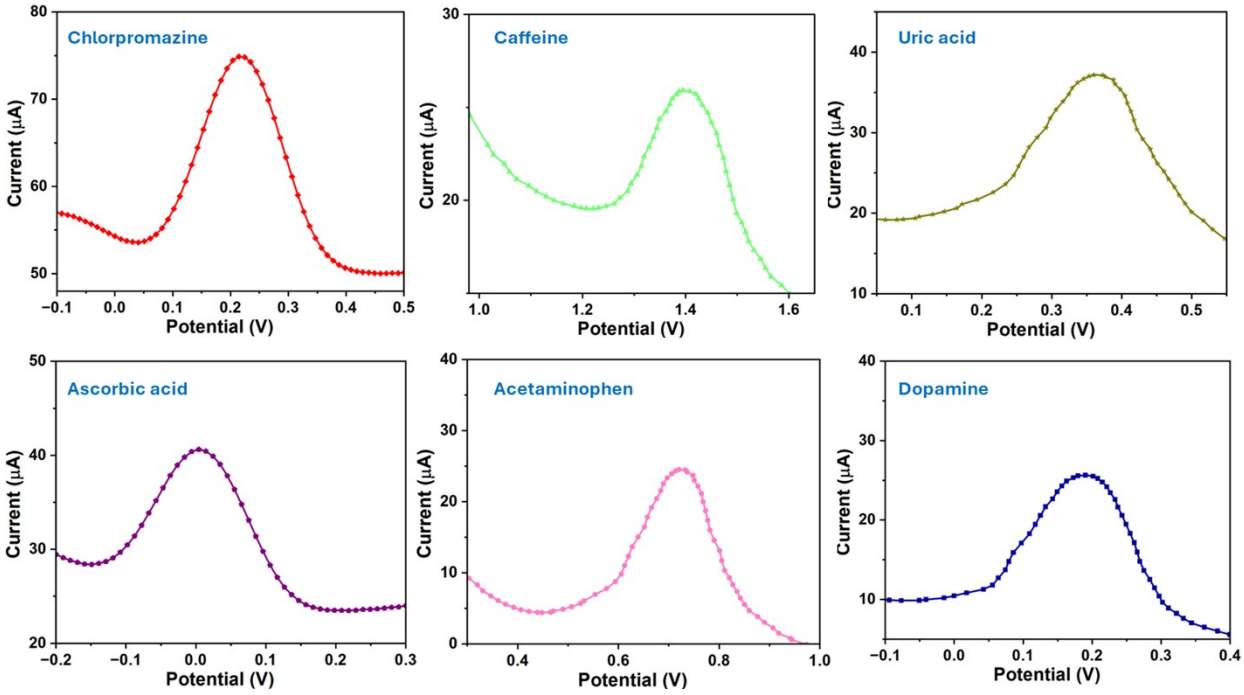

Fig S2: Differential pulse voltammetry response of the fabricated microneedle array electrode towards potential interference compounds.