Lab-in-a-pencil graphite: 3D-printed microfluidic sensing platform for

real-time measurement level of antipsychotic Clozapine

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Figure S1: The effect of solution flow rate on the waveshape of catalytic cyclic voltammograms recorded in the μ FSE cell.

Voltammograms were recorded at increasing flow rates (from 0.05 to 6 ml/min) of 2.5μ M Clz solution as indicated. At a flow rate of 20 mL/min (red) the voltammogram shows significant inactivation above 0 V vs SHE on the forward scan. At flow rates above 52 mL/min the extent of inactivation is vastly lower, and the current is independent of flow rate at all potentials. Other parameters: 1 bar H2, 10 mV/s scan rate.