

Supplementary Materials

Peptide-Based Capture of Chikungunya Virus E2 Protein Using Porous Silicon Biosensor

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Kratos PC Axima CFR V2.3.4: Mode Linear, Power: 120, P.Ext. @ 1500 (bin 63)

%Int. 44 mV[sum= 8854 mV] Profiles 1-200 Smooth Av 2 -Baseline 80

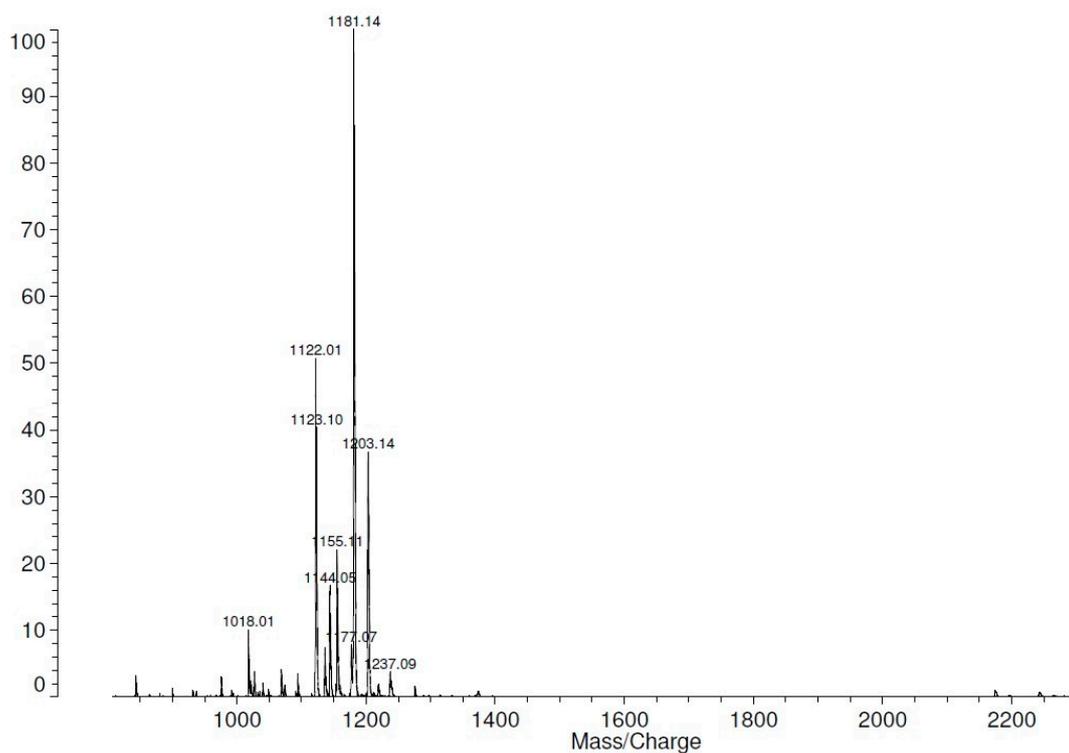


Figure S1. Mass spectrum of Lys(N₃)-Cy(YWHWS). MALDI-TOF MS (m/z): calcd (M+H) 1181.3; found 1181.14.

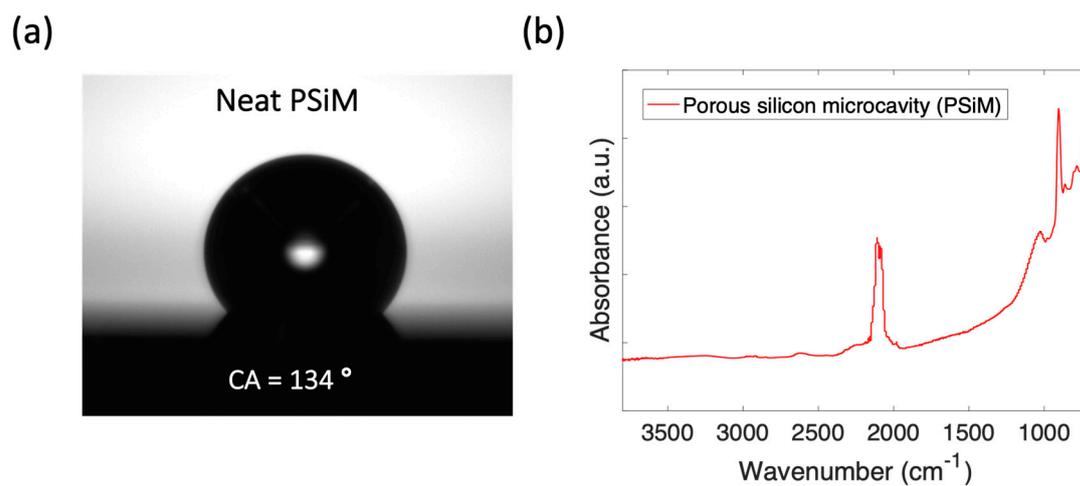


Figure S2. Neat porous silicon microcavity (PSiM) characterization. (a) Water contact angle measurement on freshly etched PSiM. The contact angle of $\sim 134^\circ$ (avg = $130^\circ \pm 6^\circ$, N = 2) indicates a hydrophobic surface. (b) ATR-FTIR absorbance spectrum of freshly etched PSiM. The sharp peaks near 2100 cm^{-1} are characteristic of silicon hydride (Si-H) bonds.