Supplementary Information

Electrical Immunosensor Made with Antigenic Peptide NS5A-1 Immobilized onto Silk Fibroin for Diagnosing Hepatitis C

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\textbf{Figure S1.} Capacitance and dielectric loss vs. frequency curves for 5-bilayers LbL film of SF/NS5A-1, in the absence and presence of different concentrations of anti-HCV.

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**Figure S2.** Capacitance and dielectric loss vs. frequency curves for a 5-bilayers LbL film of SF/NS5A-1, in the absence and presence of anti-p24 (HIV-1).

**Figure S3.** AFM topography images of interdigitated electrodes coated with SF/NS5A-1 in the (a) absence and (b) presence of anti-p24 (HIV-1). After exposition, it is possible to see some blobs, but the surface is almost the same. The RMS roughness for before and after exposition to HIV antibody are \( R_{\text{RMS}} = 2.16 \) and 1.90 nm, respectively.