

Carbohydrate-protein interaction-based detection of pathogenic bacteria using biodegradable self-powered biosensor

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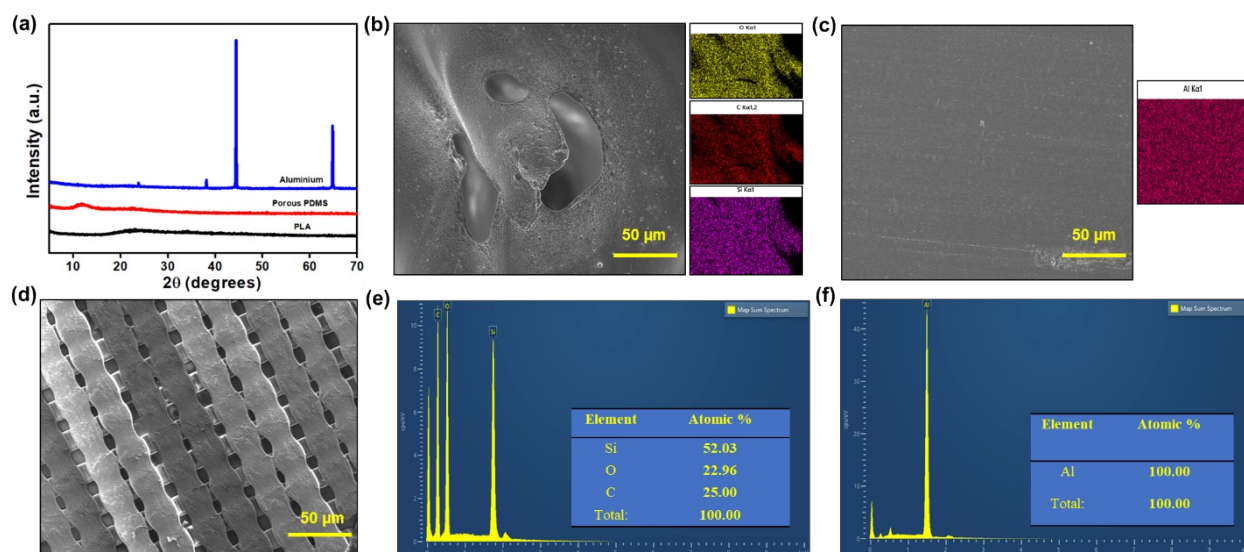


Figure S1: (a) room-temperature XRD analysis of PLA, porous PDMS, and aluminum. (b-d) The SEM image and EDS spectra of Si, C, and O in porous PDMS. (e-f) The elemental mapping (at%) of porous PDMS and Al.

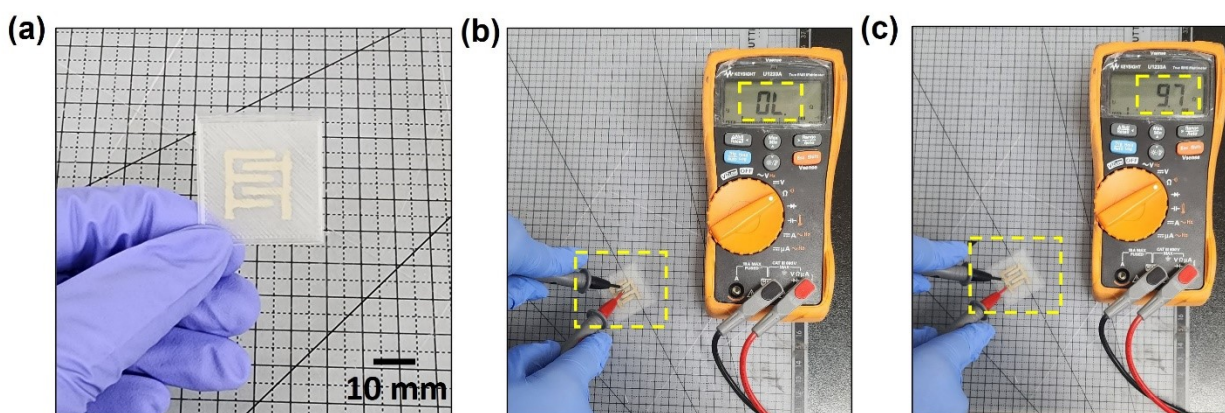
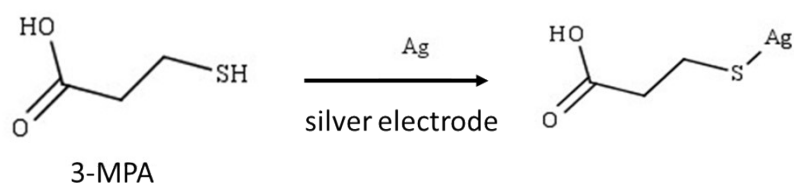


Figure S2: (a) The digital image of the biosensor. (b-c) The conductivity of the IDT patterned electrodes.

Step 3: Application of 3-Mercaptopropionic Acid (3-MPA) Linker



Step 4: Incubation with D-Mannose

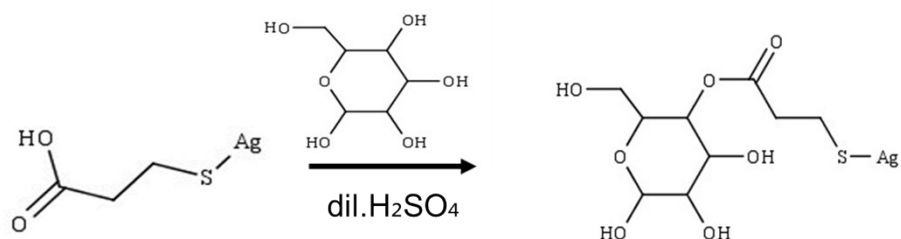


Figure S3: (a) Application of 3-Mercaptopropionic Acid (3-MPA) Linker, (b) Incubation with D-Mannose