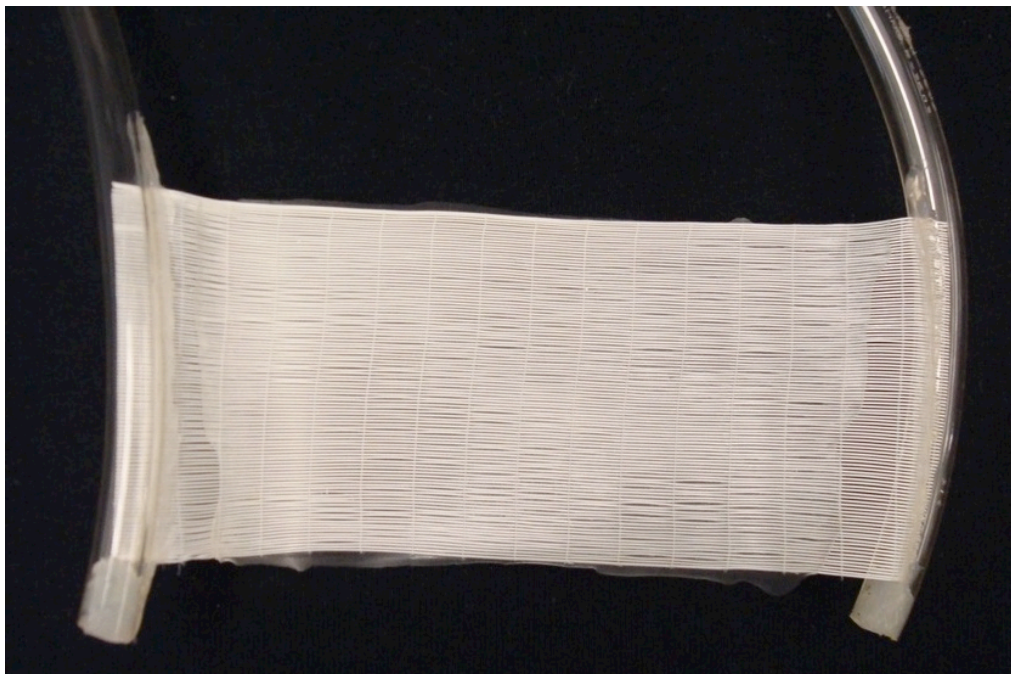


SUPPLEMENTAL INFORMATION

S1. Photograph of the fabricated membrane modules. The picture shows an example of the M5.



S2. Negative control experiments with PVA and electrospun membranes

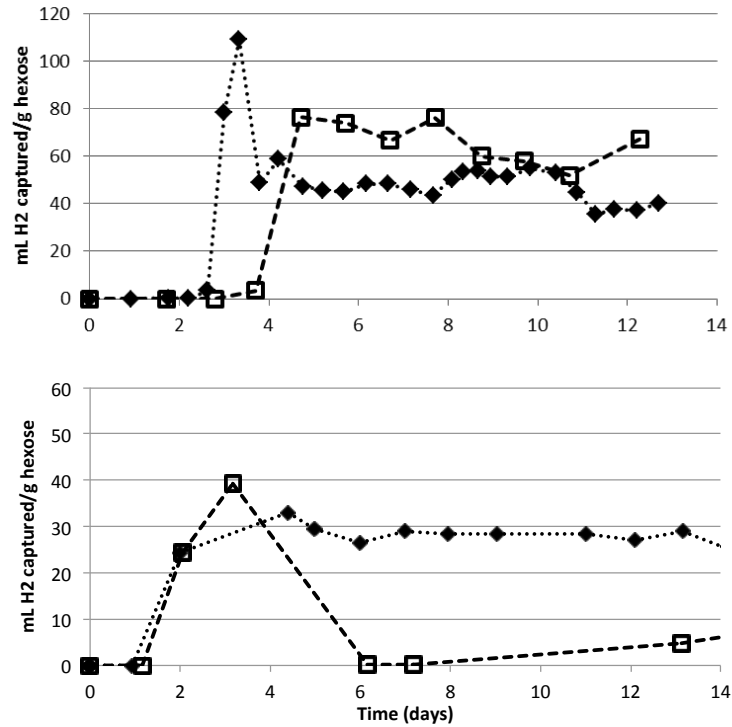


Figure S2.1: Comparison of H₂ capture yields between the biologically active and control membranes M1 (top) and M3 (bottom). Diamonds and squares represent biotic and abiotic membranes, respectively.