Electronic Supplementary Material (ESI) for Biomaterials Science. This journal is © The Royal Society of Chemistry 2018

Electronic Supplementary Information

Bioinspired multilayer membranes as potential adhesive patch for skin wound healing

Maria P. Sousa^a, Ana I. Neto^{b,c}, Tiago R. Correia^d, Sónia P. Miguel^d, Michiya Matsusaki^e,

Ilídio J. Correia^d, João F. Mano^{a,b,c,*}

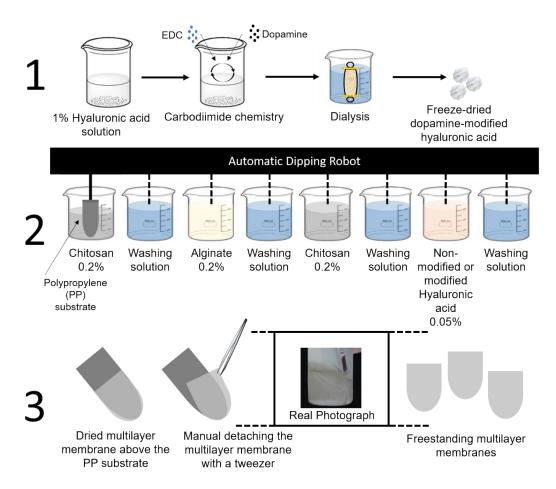


Figure S1. Schematic representation of the synthesis of the conjugated HA-DN (1), the layer-by-layer assembly using the dipping robot equipment (2) and finally the detachment method employed to obtain the freestanding multilayer membrane (3). A real photograph of the detachment step of the [CHT/ALG/CHT/HA-DN]₁₀₀ multilayer membrane is also presented.

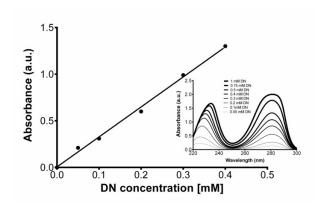


Figure S2. Inset shows the UV-Vis spectra of dopamine solutions with different concentrations and the figure represents the respective calibration curve that correlates DN concentration with measured absorbance.

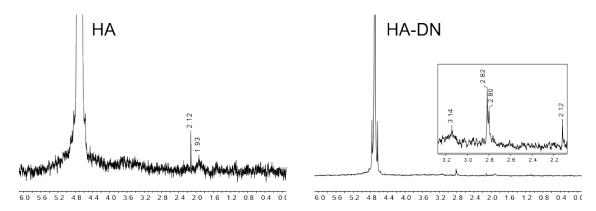


Figure S3. ¹H-NMR spectra of HA and the synthesized conjugate HA-DN.