

Supporting informations

Synthesis of PLA-poly(ether urethane)-PLA copolymers and design of biodegradable anti-adhesive membranes for orthopaedic applications

Zebiri Hadda, ^a Van Den Berghe H el ene, ^{*a} Sayegh Syreina, ^b Chammas Pierre-Emmanuel, ^c Pomp ee Christian, ^a Chammas Michel, ^c Garric Xavier ^a

^a Institut des Biomol cules Max Mousseron (IBMM), UMR 5247, CNRS, Universit  de Montpellier, ENSCM, Facult  de Pharmacie, B timent I, 15 avenue Charles Flahault, BP14491, 34093 Montpellier cedex 5, France

^b Institut Europ en des Membranes, IEM—UMR 5635, University of Montpellier, ENSCM, CNRS, Place Eug ne Bataillon, 34095 Montpellier, France

^c Chirurgie de la main et du membre sup rieur, Chirurgie des nerfs p riph riques, H pital Lapeyronie, CHRU Montpellier, 371, avenue du Doyen Gaston-Giraud, 34295 Montpellier cedex 5, France

* Corresponding author: helene.van-den-berghe@umontpellier.fr

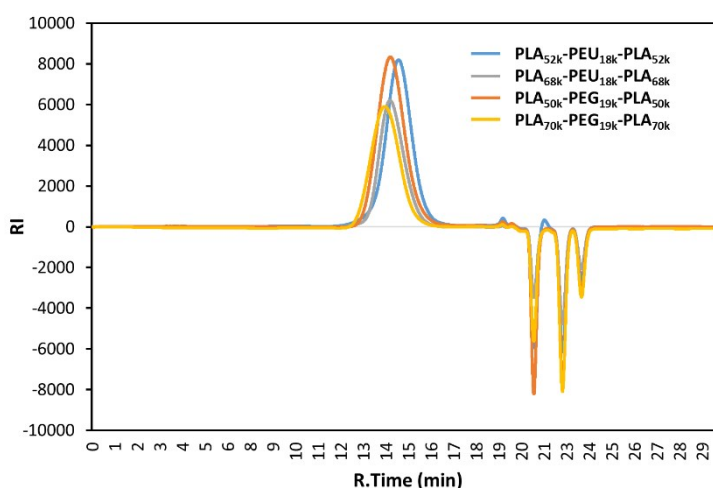


Fig. S1 SEC analysis of triblock copolymers in THF

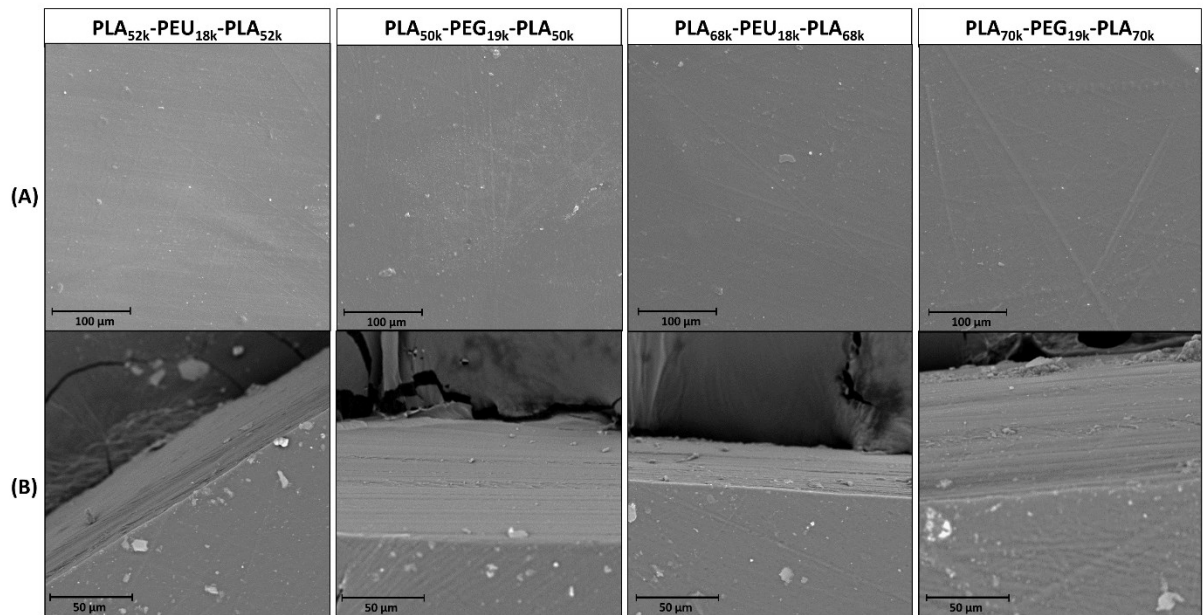


Fig. S2 SEM images of membranes based on triblock copolymers (A) Membrane surface (scale barre: 100 μm), (B) Membrane cross section (scale barre: 50 μm).

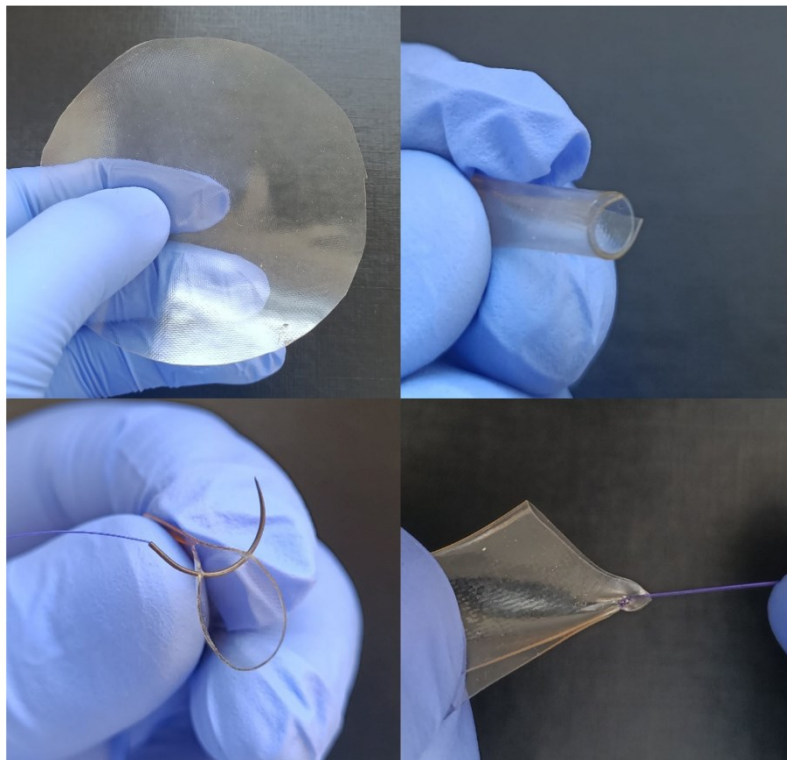


Fig. S3 Tests of resistance, flexibility and suturability of PEG based-copolymer membranes

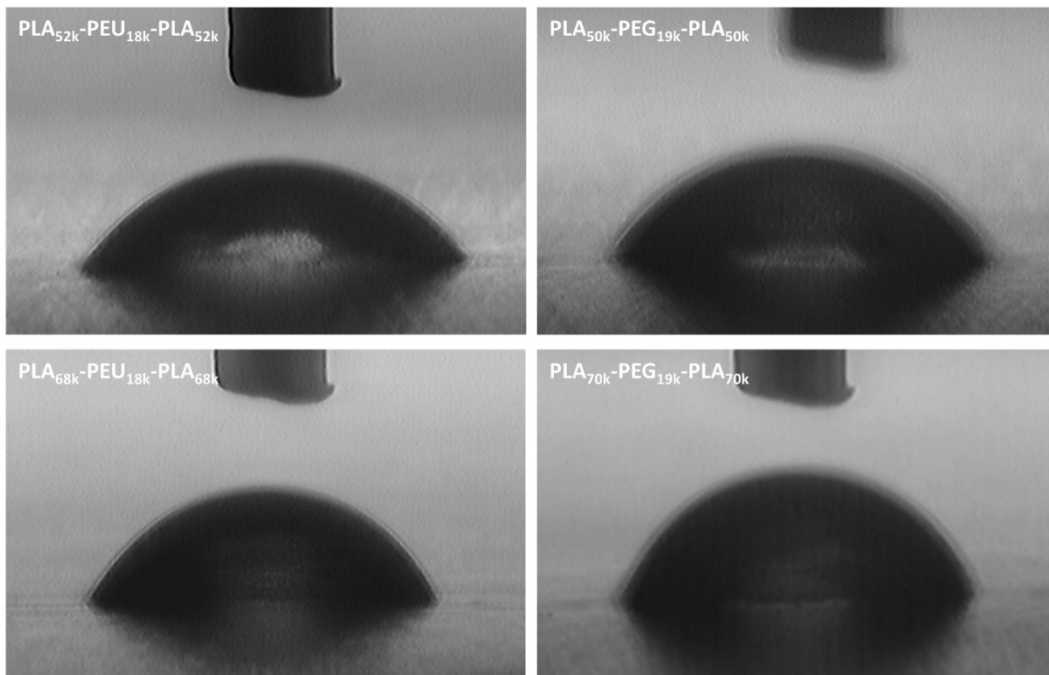


Fig. S4 Water contact angle images of PEU and PEG based-copolymer membranes

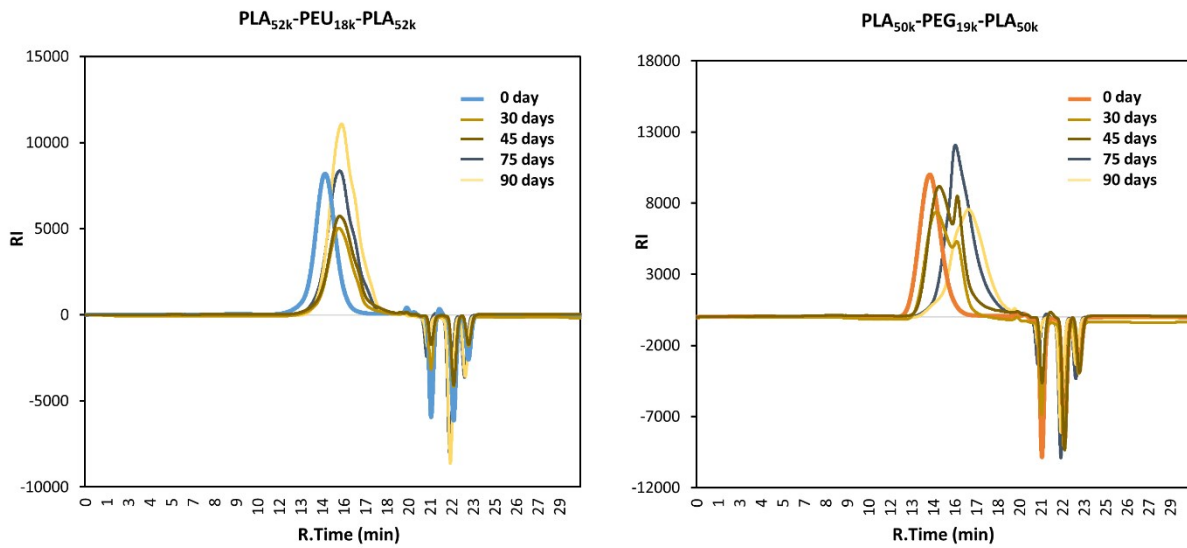


Fig. S5 SEC analysis of the degraded products of PLA_{52k}-PEU_{18k}-PLA_{52k} and PLA_{50k}-PEG_{19k}-PLA_{50k} membranes

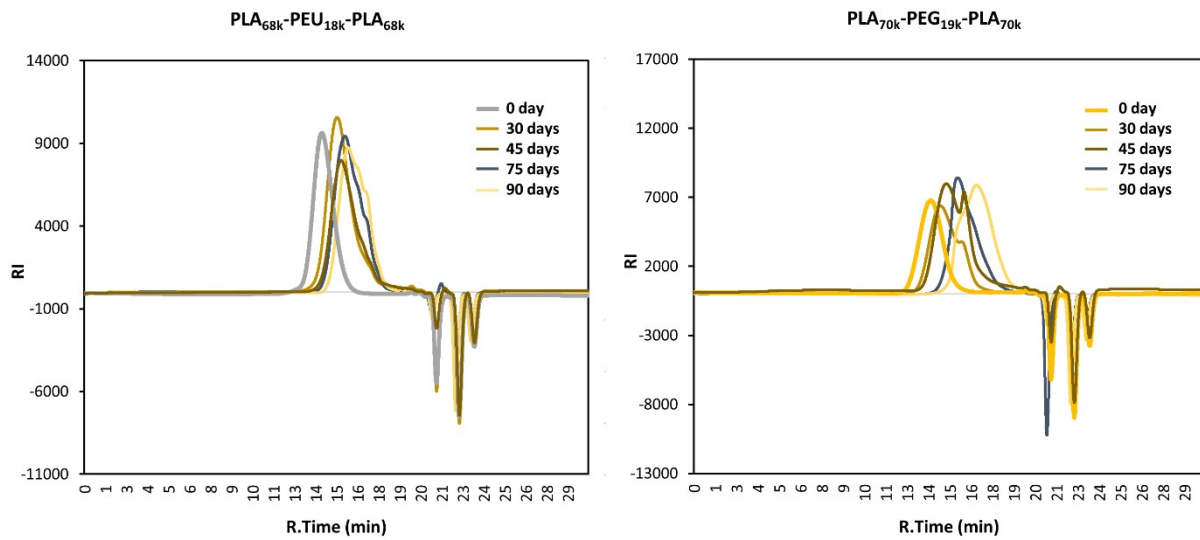


Fig. S6 SEC analysis of the degraded products of $PLA_{68k}-PEU_{18k}-PLA_{68k}$ and $PLA_{70k}-PEG_{19k}-PLA_{70k}$ membranes