

ELECTRONIC SUPPORTING INFORMATION FOR:

Amino acid-based poly(ester amide) nanofibers for tailored enzymatic degradation prepared by miniemulsion-electrospinning

S. K. Murase, L-P. Lv, A. Kaltbeitzel, K. Landfester, L. J. del Valle, R. Katsarava, J. Puiggali, D. Crespy

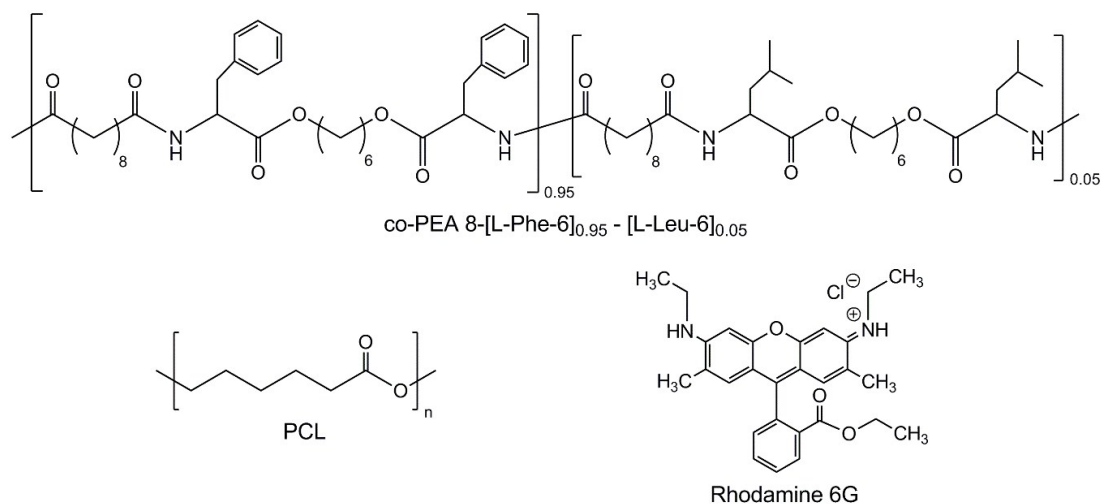


Fig. S1 Chemical formula of the copolymer $\text{coPEA } 8\text{-[L-Phe-6]}_{0.95}\text{-[L-Leu-6]}_{0.05}$, polycaprolactone (PCL) and Rhodamine 6G (R6G).

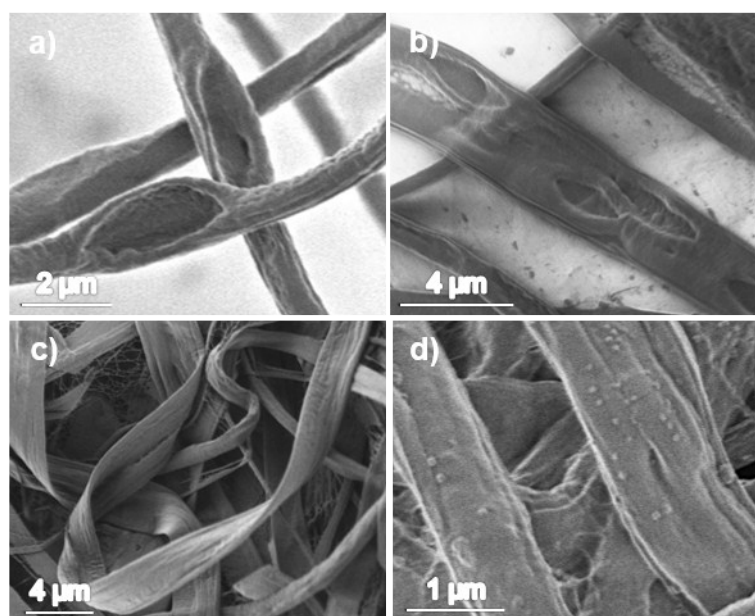


Fig. S2. SEM micrographs of samples a) PCL 10% (w/v) at 0.75 mL/h and 15 KV; b) PCL 10% (w/v) at 1 mL/h and 20 KV; c) PCL/coPEA 70/30 12% (w/v) at 6.5 mL/h and 15 KV and d) PCL/coPEA 70/30 10% (w/v) at 6 mL/h and 20 KV.

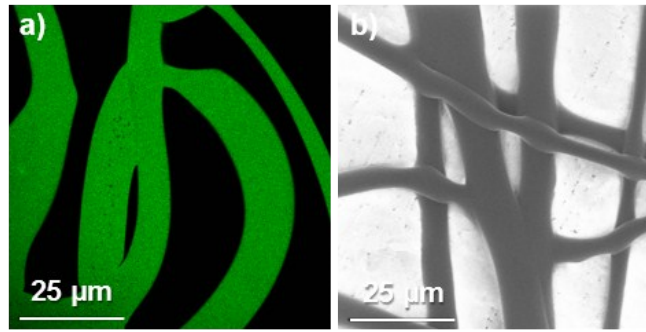


Fig. S3 a) CLSM image and b) SEM micrograph of coPEA fibers (sample PM) loaded with the fluorophore.

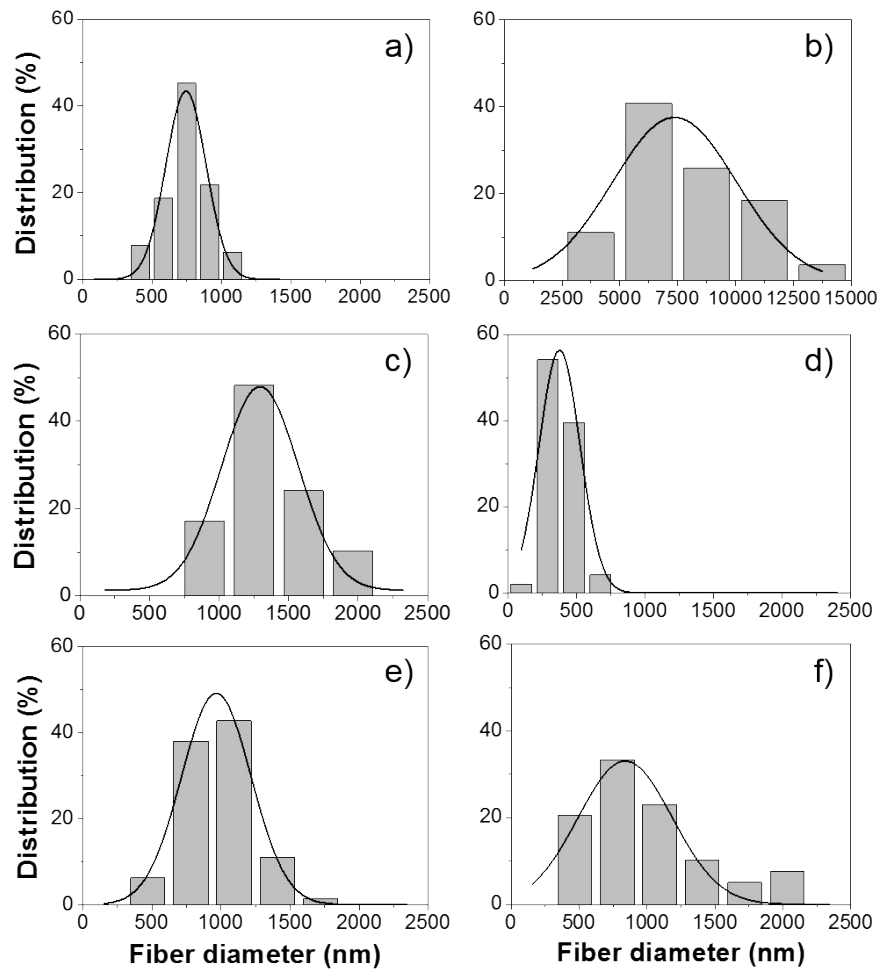


Fig. S4 Fiber diameter distribution of a) PCL b) coPEA c) PCL/coPEA 70/30 (PM) d) PCL loaded with lipase (PCL_L) e) PCL/coPEA loaded with α-chymotrypsin (PM_{CT}) f) PCL/coPEA loaded with lipase (PM_L).