

Supplementary Material

Bacterial enzyme responsive polymersomes: A closer look at the degradation mechanism of PEG-block-PLA vesicles

Katrin-Stephanie Tücking, Stephan Handschuh-Wang, and Holger Schönherr*

Physical Chemistry I, Science and Technology, University of Siegen, Adolf-Reichwein-Str. 2, 57076 Siegen, Germany. Email: schoenherr@chemie.uni-siegen.de

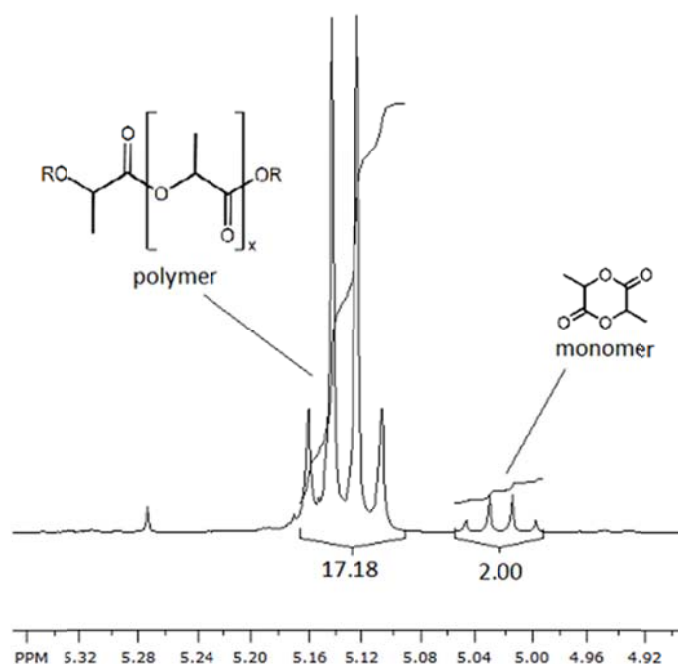


Figure S-1. Section of the ^1H -NMR spectrum for the determination of the conversion of *cis*-lactide into PLA.

$$\text{conversion} = \frac{i_M / N_{\text{cru}}(H)}{(i_M / N_{\text{cru}} + i_{M0} \times N(H))}$$

Determination of the conversion of *cis*-lactide into poly(lactic acid): intensity of the polymer (i_M) per number of constitutional repeating units N_{cru} divided by the sum of i_M per number of constitutional repeating units N_{cru} and the intensity of the monomer signal (i_{M0}) times the number of H signals per monomer $N(H)$.

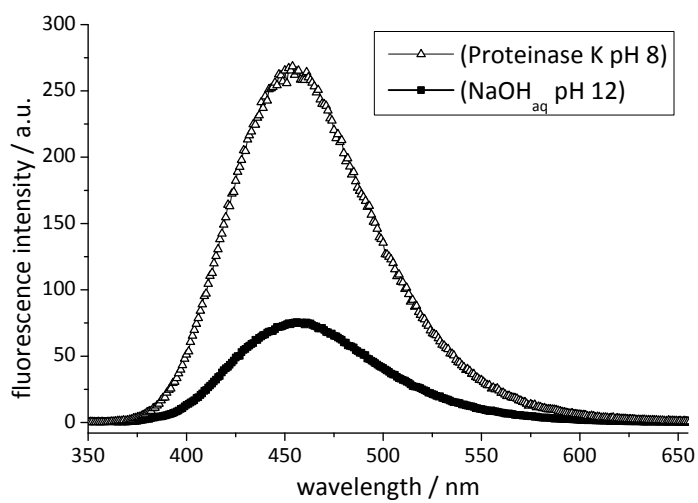


Figure S-2. Fluorescence spectra of OPA as a measure for the amount of lactic acid formed from degraded PEG₁₁₄-*b*-PLA₃₂₆ polymersomes after 12 d incubation at 37°C with *proteinase K* in phosphate buffer at pH 8 (filled squares) and with NaOH at pH 12 (open triangles).