Fabrication of Covalently Crosslinked and Amine-Reactive Microcapsules by Reactive Layer-by-Layer Assembly of Azlactone-Containing Polymer Multilayers on Sacrificial Microparticle Templates

Eric M. Saurer, a,1 Ryan M. Flessner, a,1 Maren E. Buck, b and David M. Lynn a,b,*

Departments of a Chemical and Biological Engineering and b Chemistry, University of Wisconsin – Madison, 1415 Engineering Drive, Madison, WI 53706, USA

1These authors contributed equally to this work.

Supporting Information

Figure S1. Representative fluorescence microscopy images of hollow capsules fabricated by the fabrication of films on CaCO₃ cores containing FITC-dextran, followed by removal of the cores (see text). The capsules were suspended in (A) saturated aqueous NaCl, (B) 5 M HCl, (C) 5 M NaOH, (D) acetone, (E) dichloromethane, or (F) methanol for 22 hours. Capsules suspended in NaCl, HCl, and NaOH were rinsed twice in deionized water prior to imaging. Scale bars = 20 µm.