

Supplementary Materials: Solvent-Free Fabrication of Biphasic Lipid-Based Microparticles with Tunable Structure

Serena Bertoni, Beatrice Albertini, Joanna Ronowicz-Pilarczyk, Natalia Calonghi and Nadia Passerini

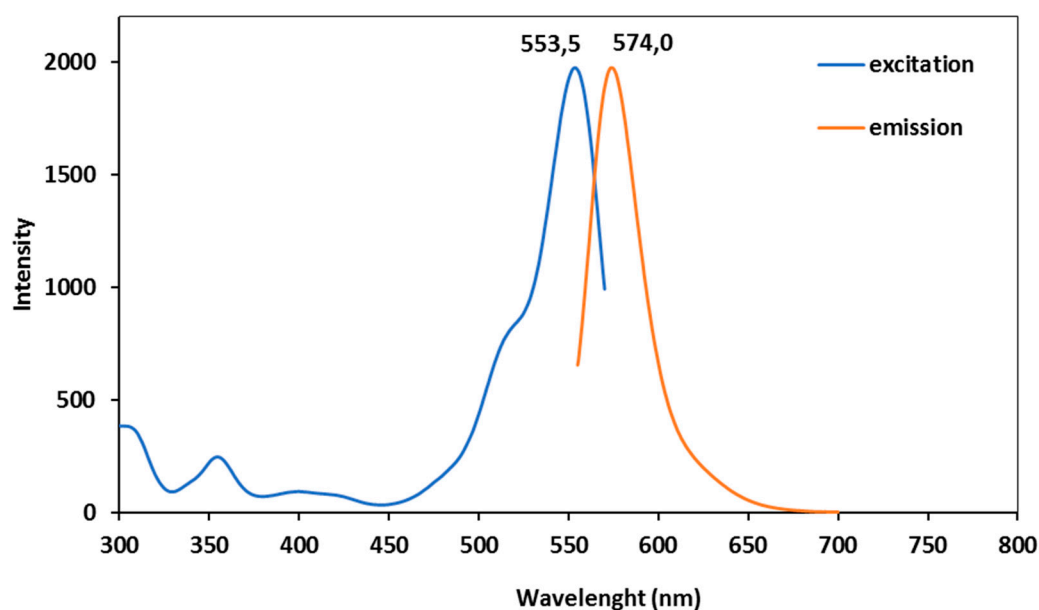


Figure S1. Excitation and emission fluorescence spectra of Rho.

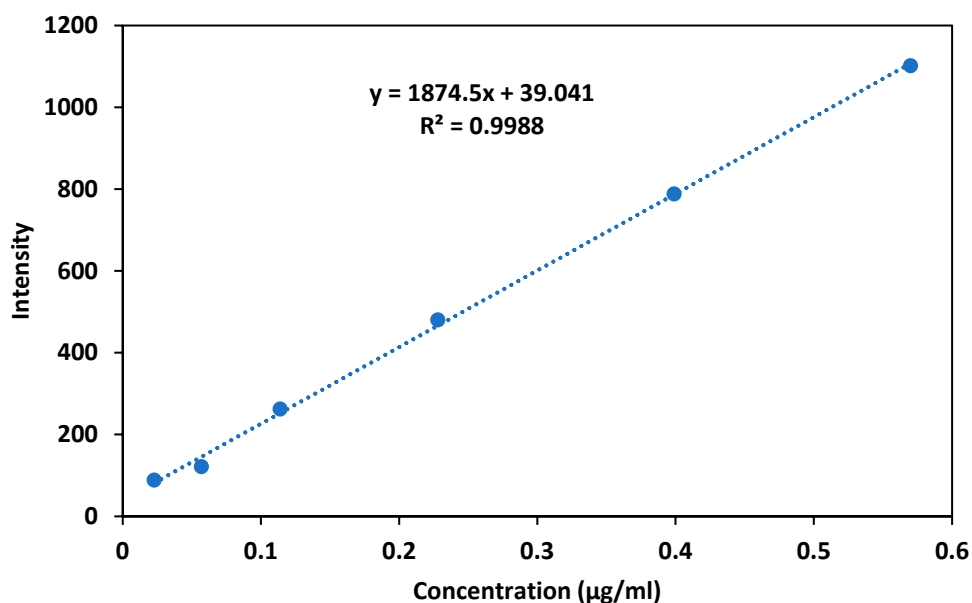


Figure S2. Calibration curve of Rho using fluorescence measurements.

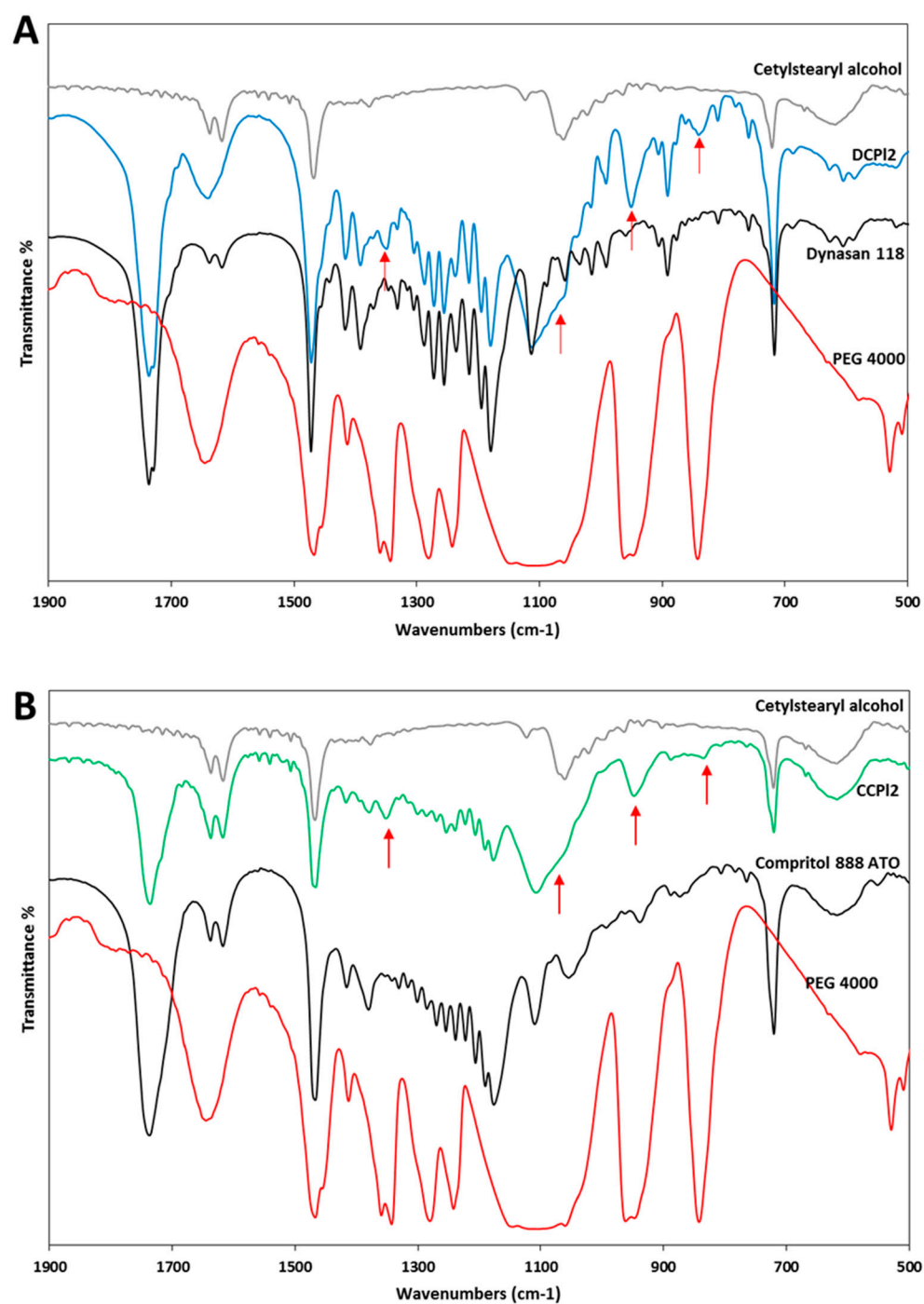


Figure S3. FT-IR spectra of DCPI2 b-MPs compared to the respective solid raw excipients (A) and CCPI2 b-MPs compared to the respective solid raw excipients (B). Red arrows indicate the bands in the b-MPs spectra attributed to the hydrophilic phase.

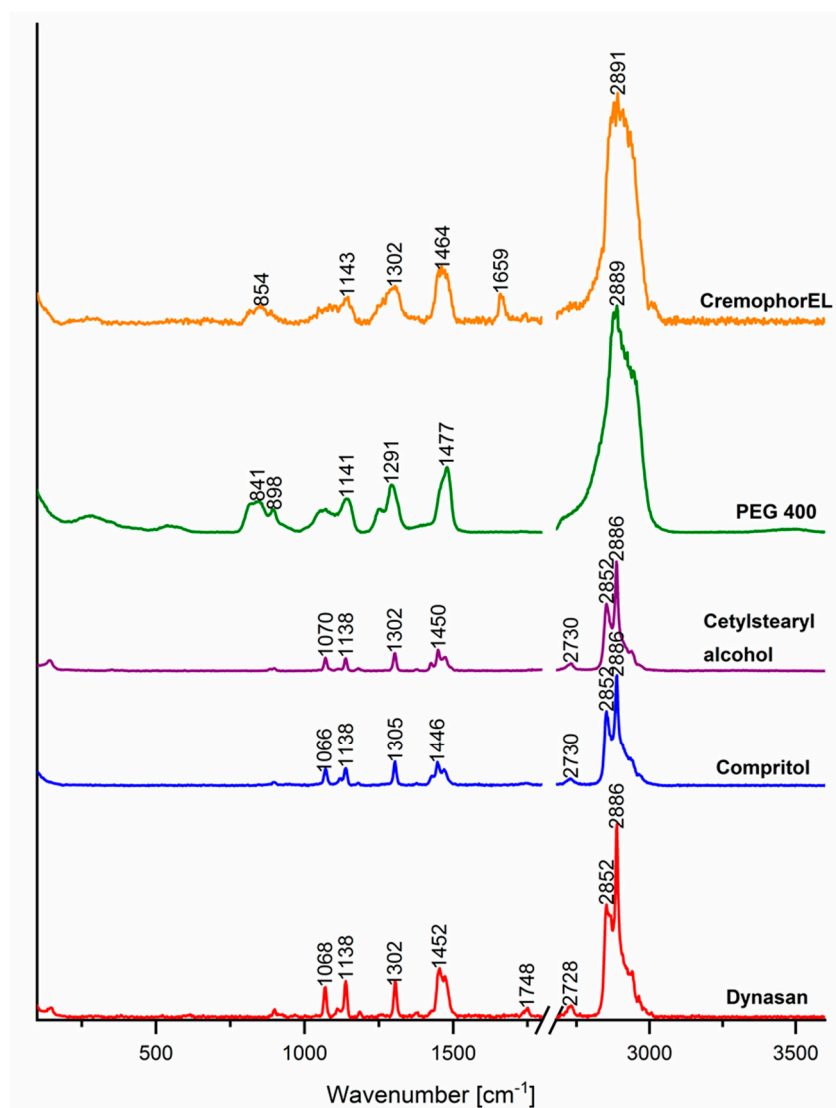


Figure S4. Raman spectra recorded for raw materials: Dynasan®118 (red line), Compritol® 888 ATO (blue line), cetylstearyl alcohol (purple line), PEG 400 (green line) and Cremophor®EL (orange line).

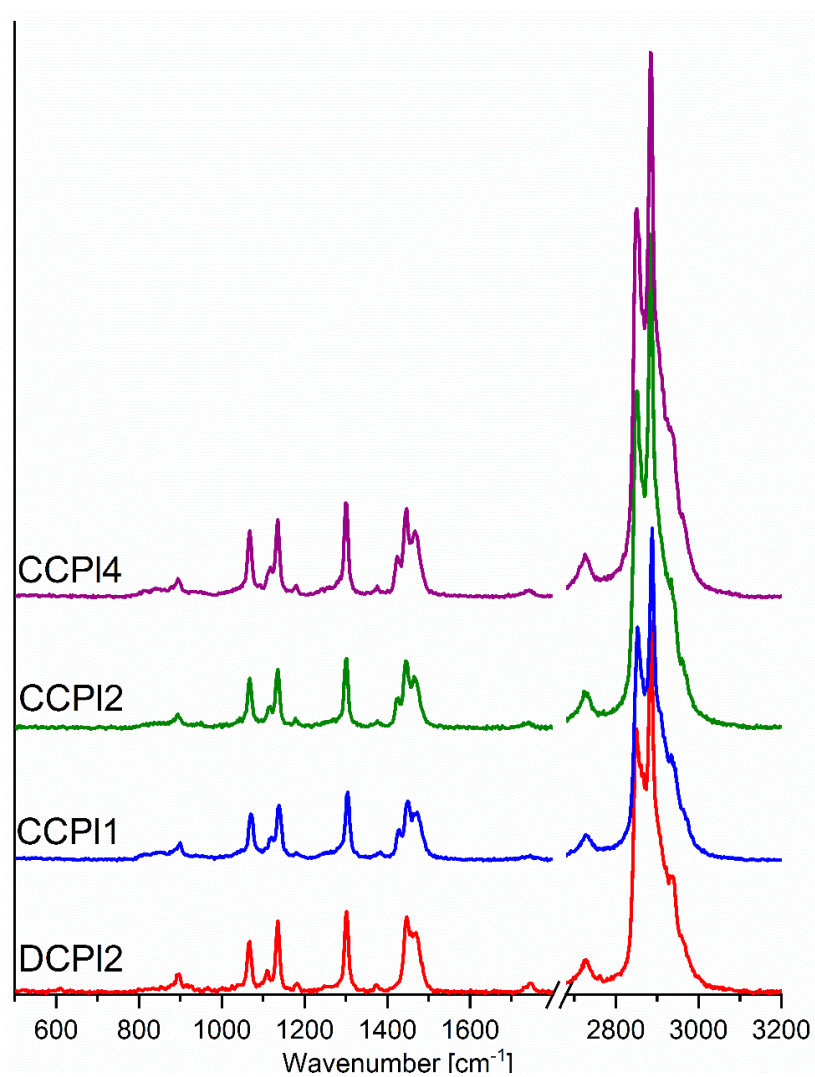


Figure S5. Raman spectra recorded for b-MPs: DCPI2 (red line), CCPI1 (blue line), CCPI2 (green line), CCPI4 (purple line).

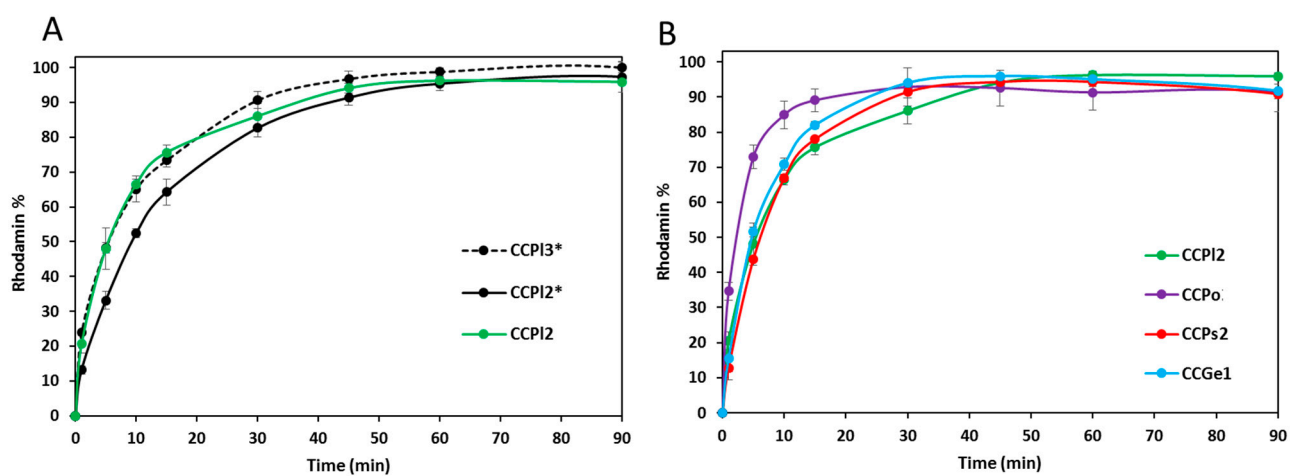


Figure S6. Effect of the lipid:surfactant ratio (A); and of various hydrophilic phases (B) on drug release from Compritol-based biphasic MPs (250-355 μm).