

Supplementary Materials

TEMPO-Nanocellulose/Ca²⁺ Hydrogels: Ibuprofen Drug Diffusion and In Vitro Cytocompatibility

Andrea Fiorati ^{1,2,*}, Nicola Contessi Negrini ^{1,2}, Elena Baschenis ¹, Lina Altomare ^{1,2}, Silvia Faré ^{1,2}, Alberto Giacometti Schieroni ³, Daniele Piovani ³, Raniero Mendichi ³, Monica Ferro ¹, Franca Castiglione ¹, Andrea Mele ^{1,3}, Carlo Punta ^{1,2} and Lucio Melone ^{1,2,*}

¹ Department of Chemistry, Materials, and Chemical Engineering “G. Natta” — Politecnico di Milano, Piazza Leonardo da Vinci 32, Milano I-20133, Italy; nicola.contessi@polimi.it (N.C.N.); baschenis.e@gmail.com (E.B.); lina.altomare@polimi.it (L.A.); silvia.fare@polimi.it (S.F.); monica.ferro@polimi.it (M.F.); franca.castiglione@polimi.it (F.C.); andrea.mele@polimi.it (A.M.); carlo.punta@polimi.it (C.P.)

² INSTM, National Consortium of Materials Science and Technology, Local Unit Politecnico di Milano, Milano 20133, Italy

³ Istituto di Scienze e Tecnologie Chimiche (SCITEC-CNR), Via A. Corti 12, Milano 20133, Italy; giacometti@ismac.cnr.it (A.G.S.); piovani@ismac.cnr.it (D.P.); rmendichi@libero.it (R.M.)

* Correspondence: andrea.fiorati@polimi.it (A.F.); lucio.melone@polimi.it (L.M.)

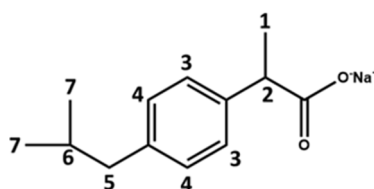


Figure S1. Ibuprofen chemical structure.

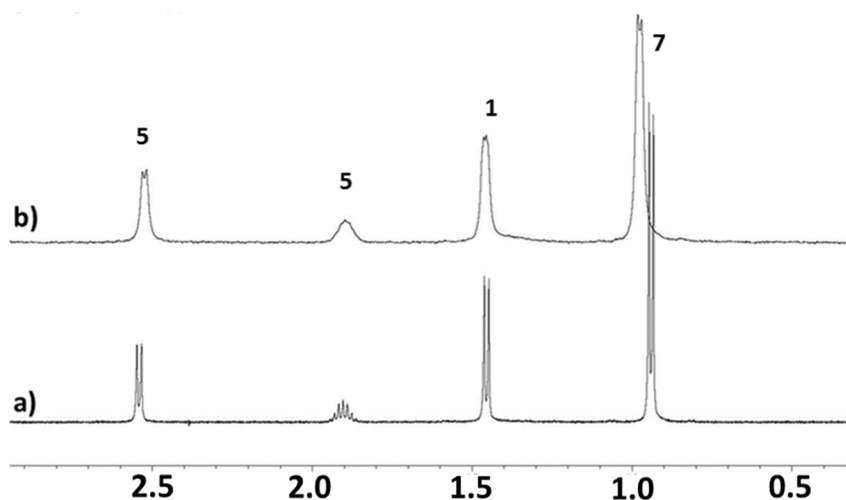


Figure S2. Zoom of ¹H high-resolution magic angle spinning nuclear magnetic resonance (HR-MAS) spectra of: (a) ibuprofen (IB); (b) IB/β-cyclodextrin (β-CD) (1:1) complex loaded in C1 hydrogel.

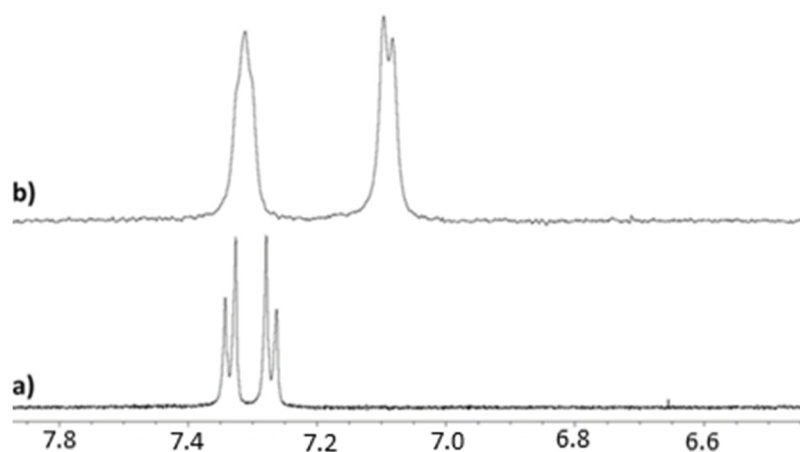


Figure S3. Zoom of ¹H HR-MAS spectra of: (a) IB; (b) IB/β-CD (1:1) complex loaded in C1 hydrogel.

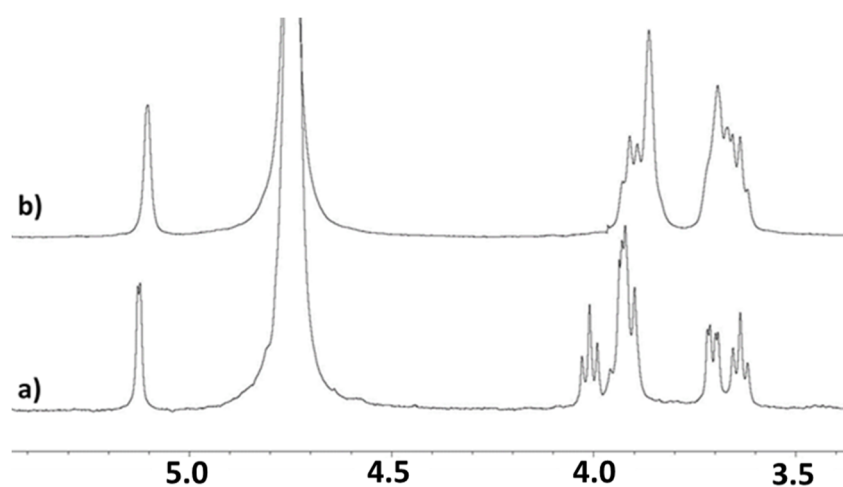


Figure S4. Zoom of ¹H HR-MAS spectra of: (a) β-CD; (b) IB/β-CD (1:1) complex loaded in C1 hydrogel.



© 2020 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).