

SUPPLEMENTARY FIGURE CAPTIONS

# Thermosensitive Nanocomposite Hydrogels for Intravitreal Delivery of Cefuroxime

Simona Sapino <sup>1,\*†</sup>, Elena Peira <sup>1,†</sup>, Daniela Chirio <sup>1,\*</sup>, Giulia Chindamo <sup>1</sup>, Stefano Guglielmo <sup>1</sup>, Simonetta Oliaro-Bosso <sup>1</sup>, Raffaella Barbero <sup>2</sup>, Cristina Vercelli <sup>3</sup>, Giovanni Re <sup>3</sup>, Valentina Brunella <sup>4</sup>, Chiara Riedo <sup>4</sup>, Antonio Maria Fea <sup>5</sup> and Marina Gallarate <sup>1</sup>

<sup>1</sup> Department of Drug Science and Technology, University of Turin, Turin 10125, Italy; [elenapeira@unito.it](mailto:elenapeira@unito.it) (E.P.); [giulia.chindamo@unito.it](mailto:giulia.chindamo@unito.it) (G.C.); [stefano.guglielmo@unito.it](mailto:stefano.guglielmo@unito.it) (S.G.); [simona.oliaro@unito.it](mailto:simona.oliaro@unito.it) (S.O.); [marina.gallarate@unito.it](mailto:marina.gallarate@unito.it) (M.G.)

<sup>2</sup> SC of Serology, Istituto Zooprofilattico Sperimentale Piemonte Liguria e Valle d'Aosta, Turin 10154, Italy; [raffaella.barbero@izsto.it](mailto:raffaella.barbero@izsto.it) (R.B.)

<sup>3</sup> Department of Veterinary Sciences of Turin, University of Turin, Turin 10095, Italy; [cristina.vercelli@unito.it](mailto:cristina.vercelli@unito.it) (C.V.); [giovanni.re@unito.it](mailto:giovanni.re@unito.it) (G.R.)

<sup>4</sup> Department of Chemistry, University of Turin, Turin 10125, Italy; [valentina.brunella@unito.it](mailto:valentina.brunella@unito.it) (V.B.); [chiara.riedo@unito.it](mailto:chiara.riedo@unito.it) (C.R.)

<sup>5</sup> Department of Surgical Sciences, University of Turin, Turin 10126, Italy; [antoniomariafea@unito.it](mailto:antoniomariafea@unito.it) (A.M.F.)

\* Correspondence: [simona.sapino@unito.it](mailto:simona.sapino@unito.it) (S.S.); [daniela.chirio@unito.it](mailto:daniela.chirio@unito.it) (D.C.); Tel.: +39-011-6706800 (S.S.)

† These authors contributed equally to this work.

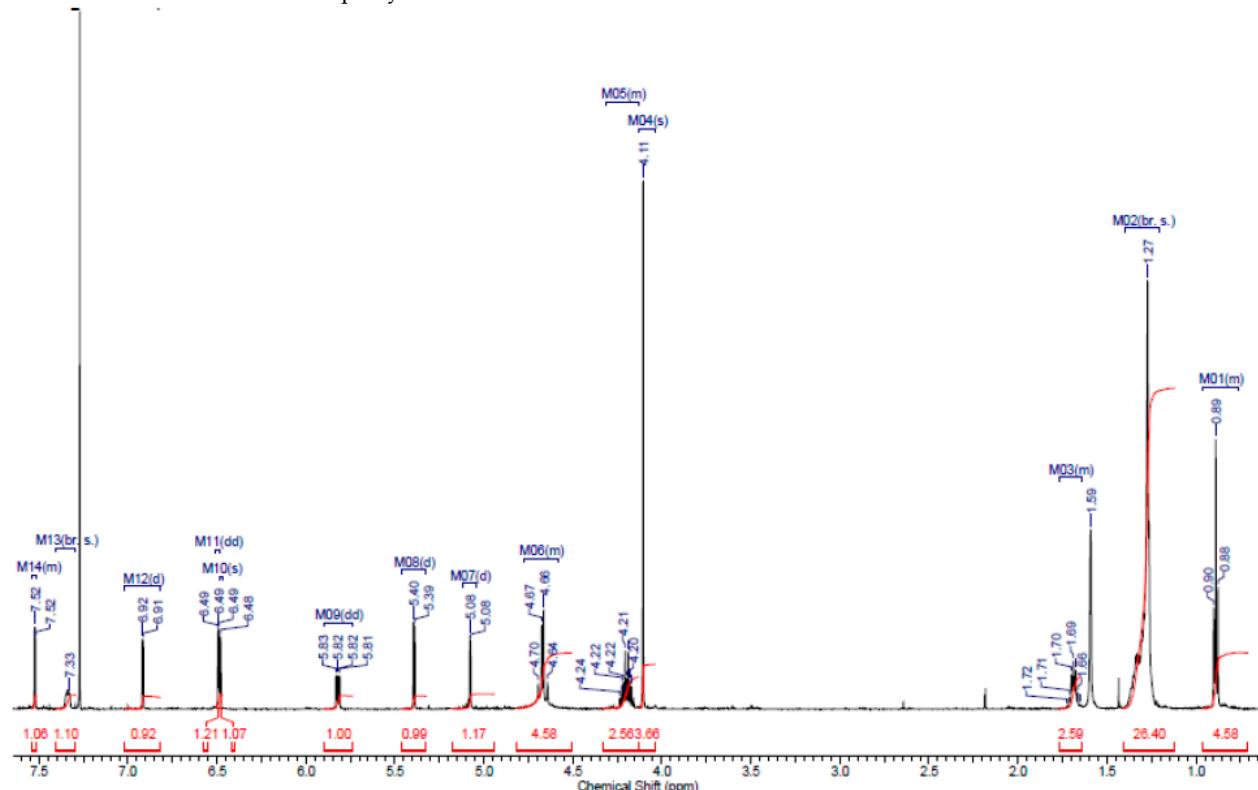
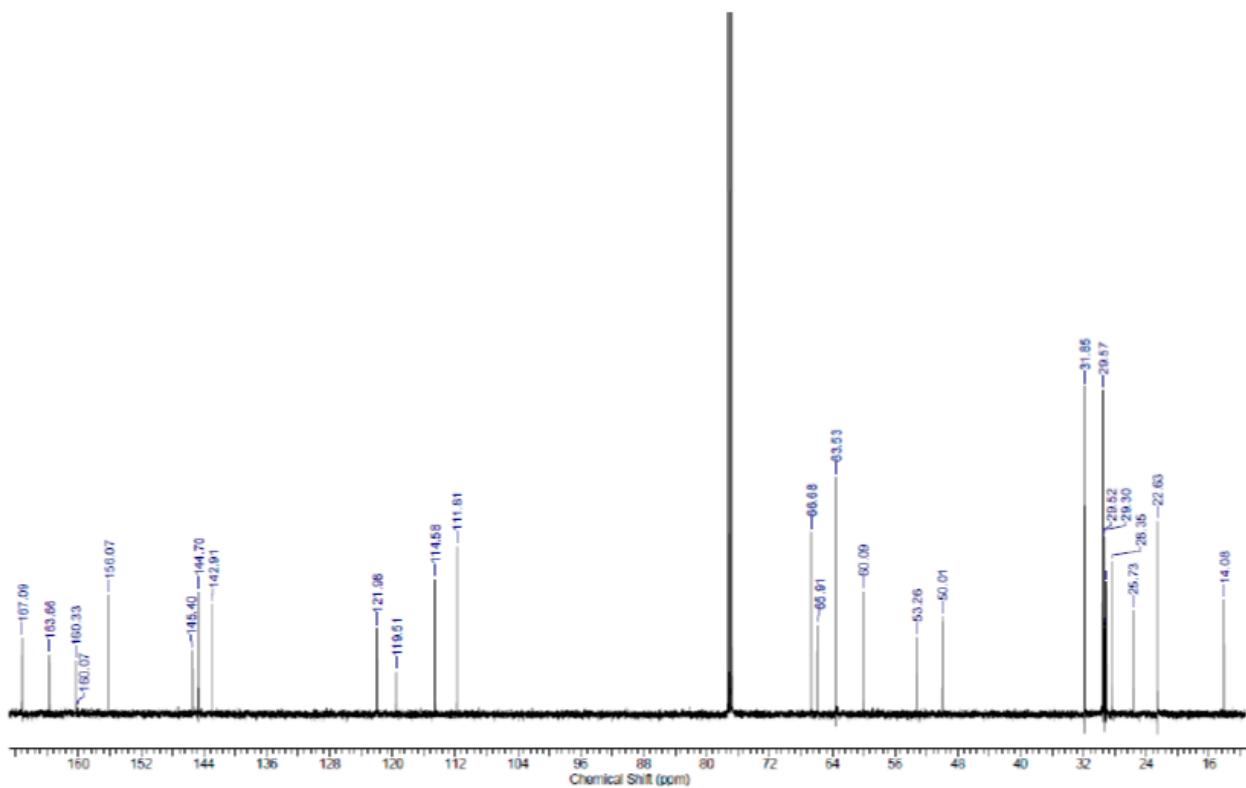
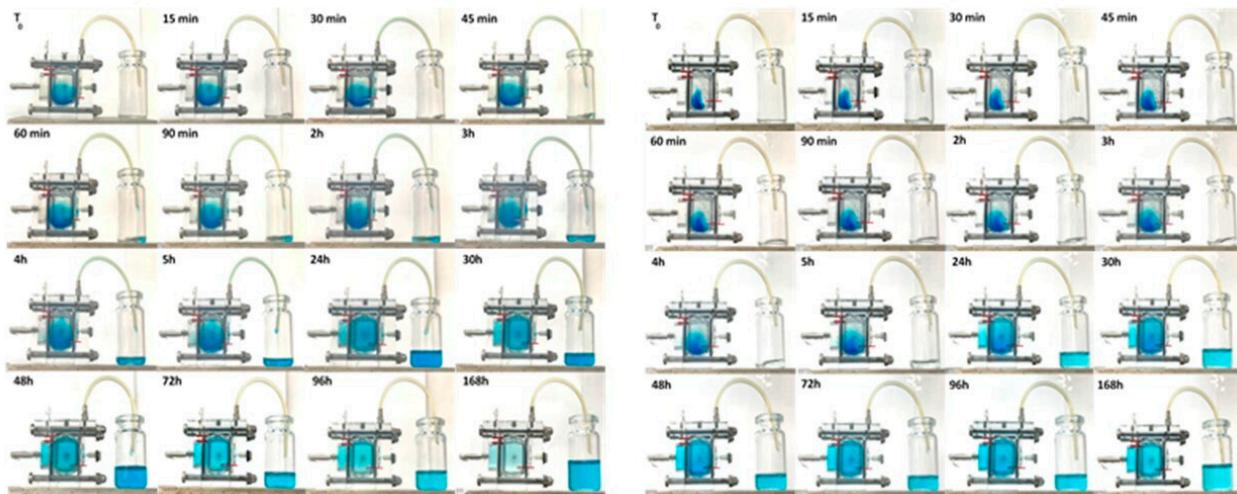


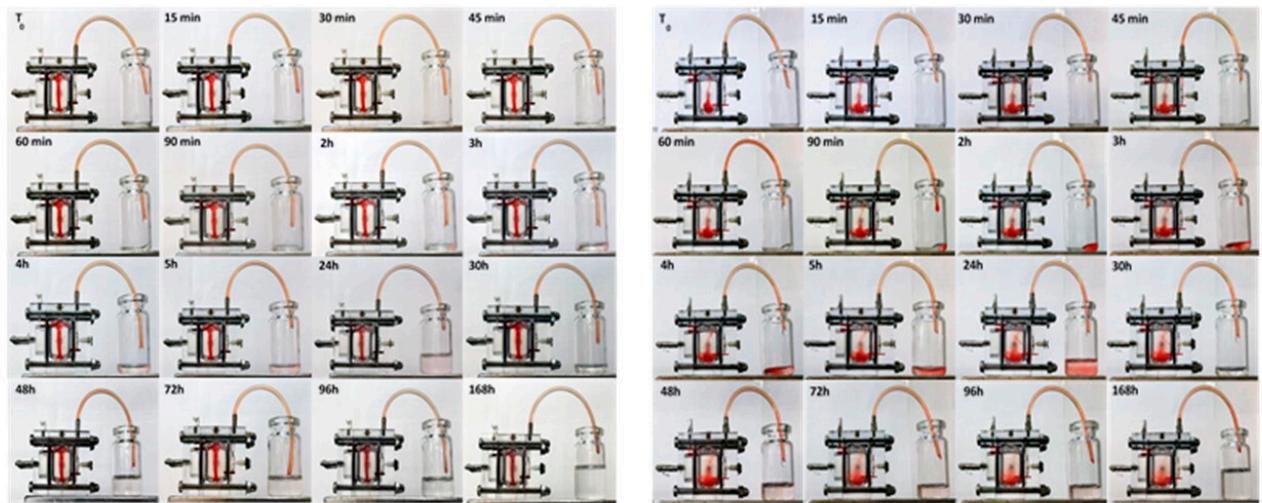
Figure S1. <sup>1</sup>H-NMR spectrum of dCEF in CDCl<sub>3</sub>.



**Figure S2.**  $^{13}\text{C}$ -NMR spectrum of dCEF in  $\text{CDCl}_3$ .



**Figure S3.** Brilliant Blue ocular cell diffusion and clearance from: 0.1% w/v in aqueous solution (left); 0.1% w/v in 20% w/v PF127 aqueous solution (right).



**Figure S4.** Sudan III ocular cell diffusion and clearance from: 0.1% w/v in SLN (left); 0.1% w/v in S-TNH (right).