

Supramolecular biomaterial as drug nano-container with iron depletion properties for antimicrobial applications

Chiara Zagni,^a Vincenzo Patamia,^a Sandro Dattilo,^b Virginia Fuochi,^c Salvatore Furnari,^c Pio Maria Furneri,^c Sabrina Carola Carroccio,^b Giuseppe Floresta*^a and Antonio Rescifina^a

^aDepartment of Drug and Health Sciences, University of Catania, V.le A. Doria 6, 95125, Catania, Italy.

^bInstitute for Polymers, Composites, and Biomaterials CNR-IPCB, Via Paolo Gaifami 18, 95126, Catania, Italy.

^c Department of Biomedical and Biotechnological Sciences (Biometec). University of Catania. Via S. Sofia 89, 95125, Catania, Italy.

Table of Contents

Fig. S1 a) SEM micrographs of β -CD/HEMA/Malt cryogel; b) graph of porosimetric distribution.	2
Fig. S2 Swelling ratio and thermogravimetric analysis of the β -CD/HEMA/Malt cryogel.	2
Fig. S3 Stacked IR spectra of 6 (black line), 7 (red line), and 8 (blue line).	2
Fig. S4 Lomefloxacin titration curve obtained by UV spectroscopy.	3
Fig. S5 ¹ H NMR of compound 6 .	3
Fig. S6 ¹³ C NMR of compound 6 .	4
Fig. S7 Kinetic release fitting from β -CD/HEMA/Malt cryogel (8).	4

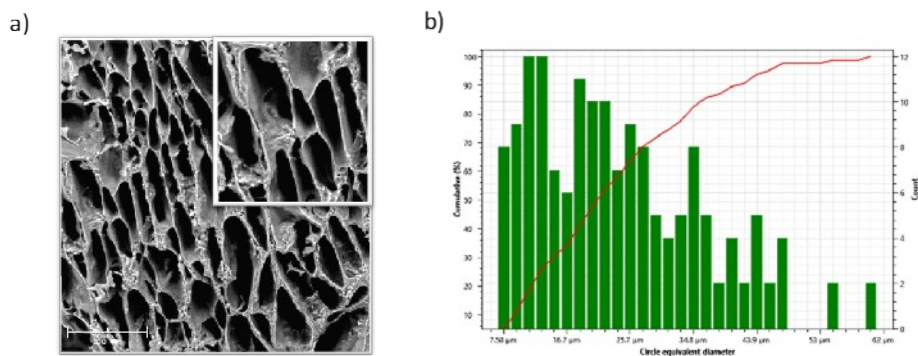


Fig. S1 a) SEM micrographs of β -CD/HEMA/Malt cryogel; b) graph of porosity distribution.

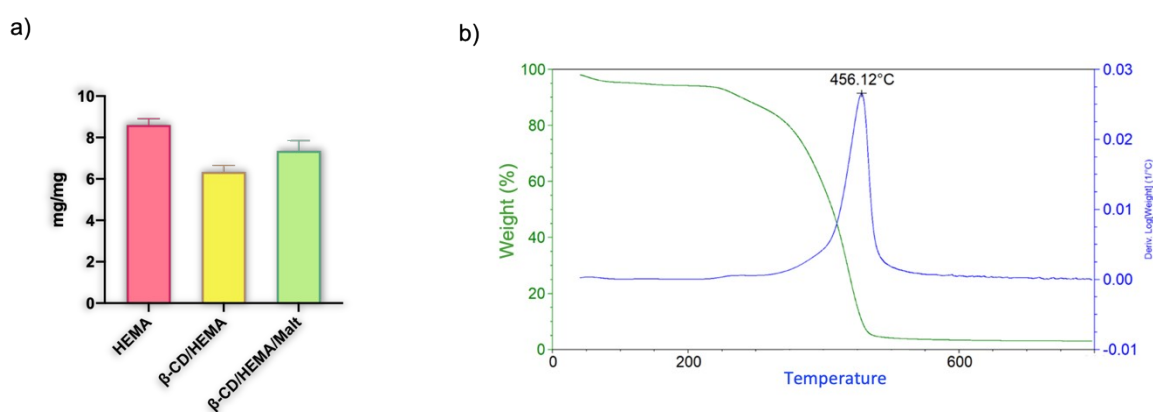


Fig. S2 a) Swelling ratio of HEMA, β -CD /HEMA, and β -CD /HEMA/Malt cryogels; b) thermogravimetric analysis of β -CD/HEMA/Malt cryogel.

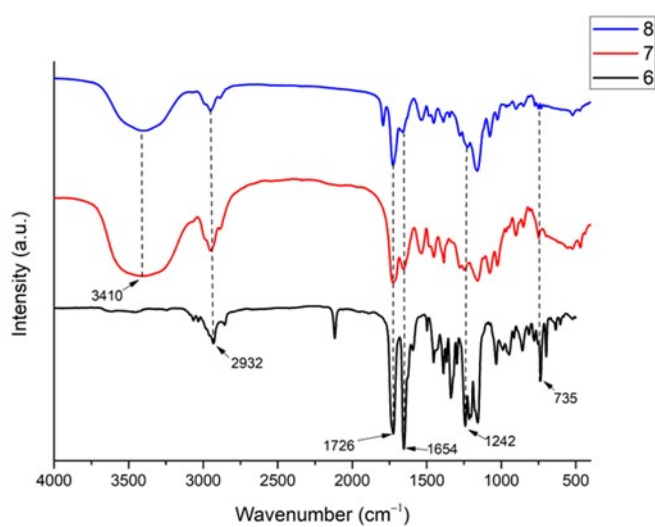


Fig. S3 Stacked IR spectra of **6** (black line), **7** (red line), and **8** (blue line).

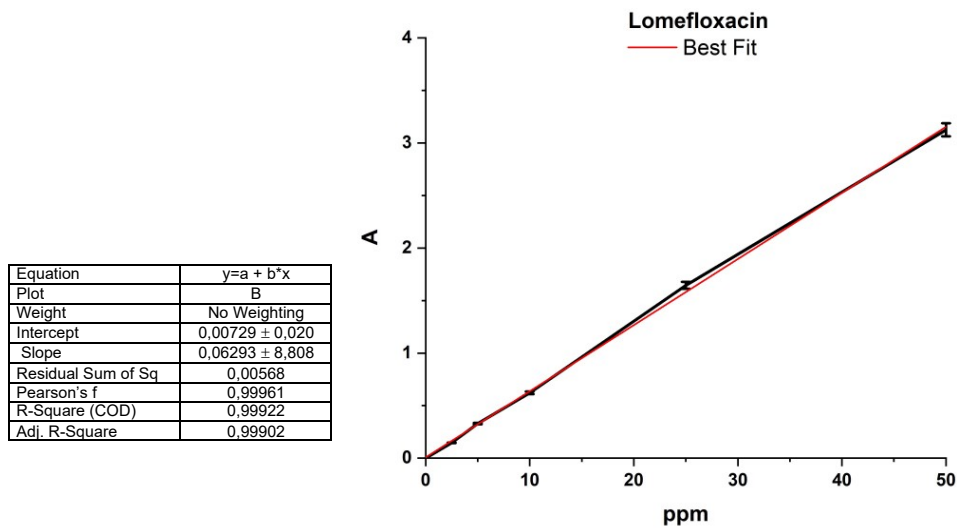


Fig. S4 Lomefloxacin titration curve obtained by UV spectroscopy.

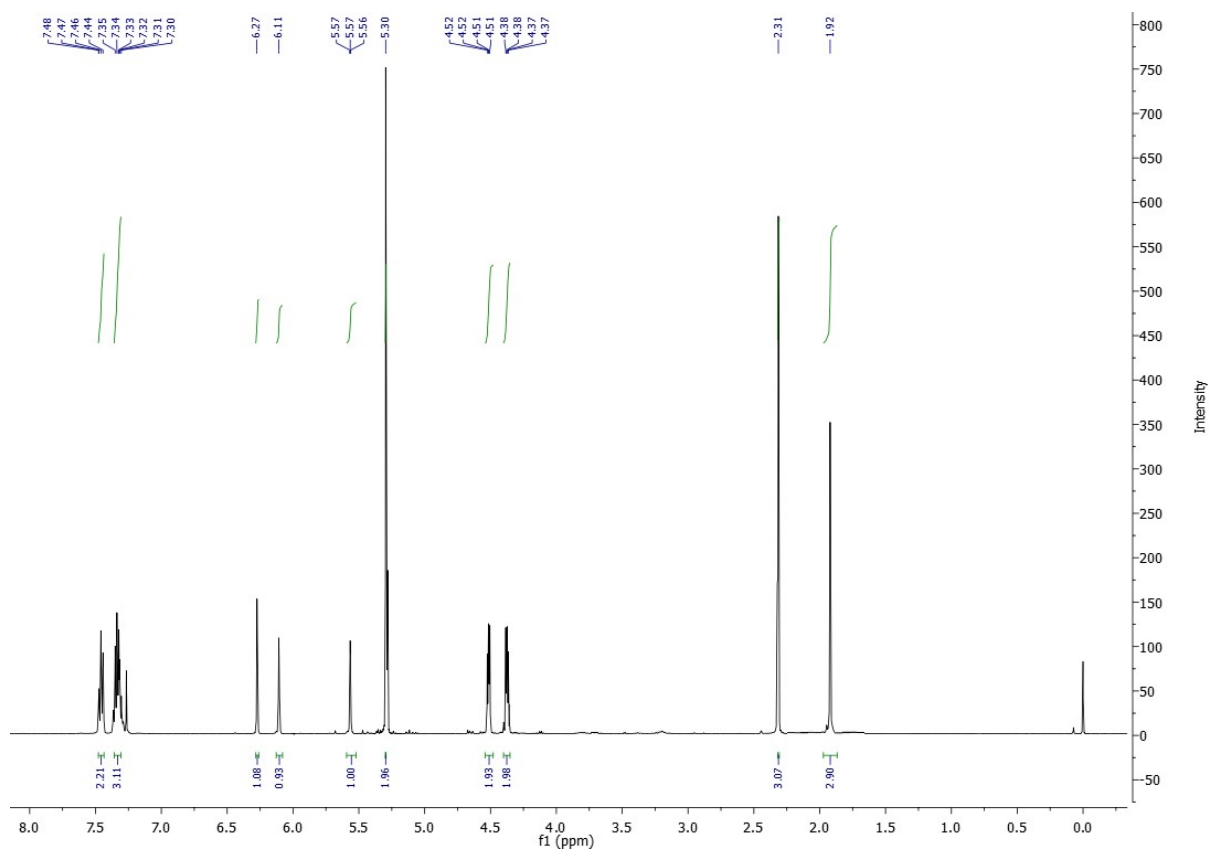


Fig. S5 ^1H NMR of compound 6.

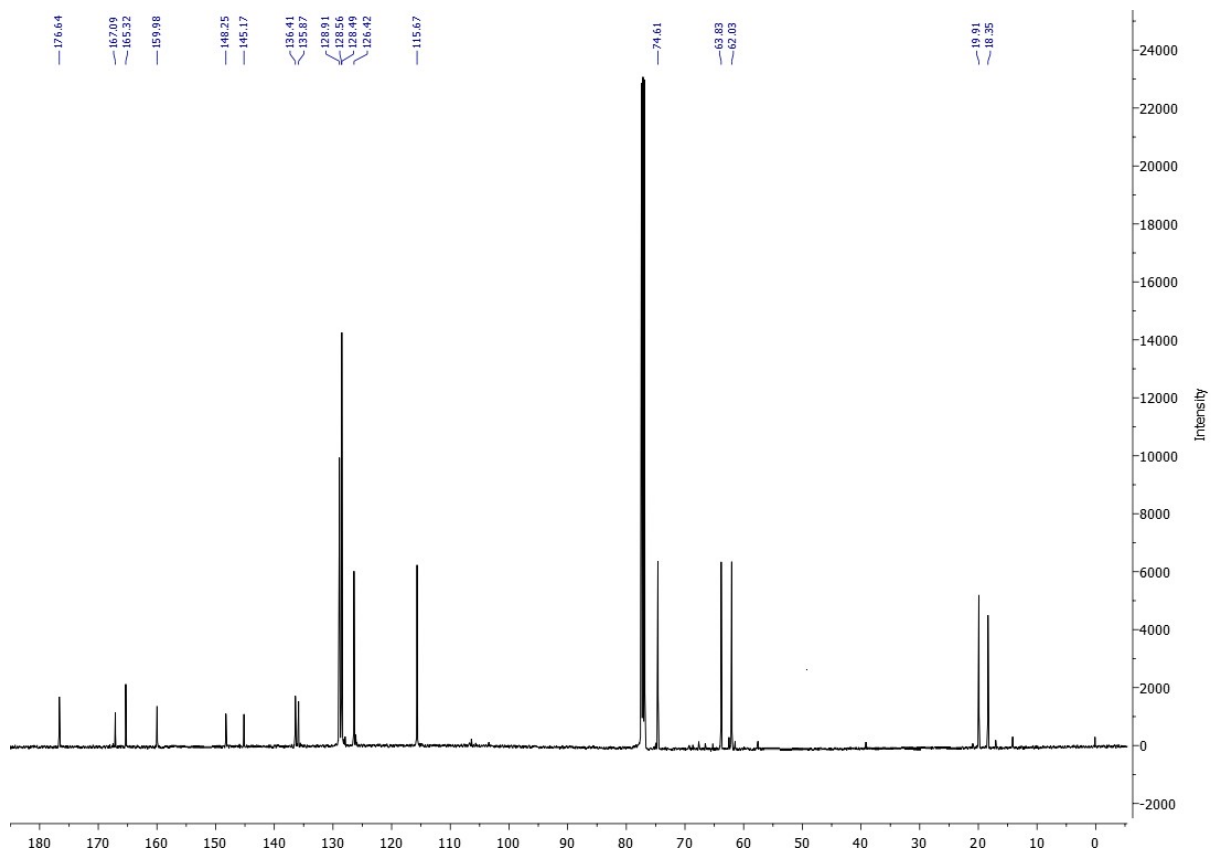


Fig. S6 ^{13}C NMR of compound **6**.

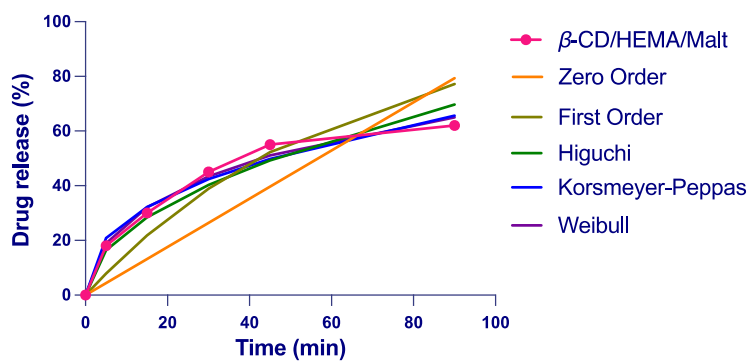


Fig. S7 Kinetic release fitting from β -CD/HEMA/Malt cryogel (**8**).