

Supplementary Information

Biocompatible self-assembled hydrogen-bonded gels based on natural deep eutectic solvents and hydroxypropyl cellulose with strong antimicrobial activity

Daniela Filip^{1*}, Doina Macocinschi¹, Mihaela Balan-Porcarasu^{2*}, Cristian-Dragos Varganici³, Raluca-Petronela Dumitriu¹, Dragos Peptanariu³, Cristina Gabriela Tuchilus⁴, Mirela-Fernanda Zaltariov^{5*}

¹*Laboratory of Physical Chemistry of Polymers, “Petru Poni” Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41 A, Iasi, 700487, Romania;*

²*Laboratory of Polycondensation and Thermostable Polymers, “Petru Poni” Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41 A, Iasi, 700487, Romania;*

³*Centre of Advanced Research in Bionanoconjugates and Biopolymers, “Petru Poni” Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41 A, Iasi, 700487, Romania;*

⁴*“Gr. T. Popa” University of Medicine and Pharmacy, Faculty of Medicine, Microbiology Department, 16 Universitatii Street, 700115, Iasi, Romania*

⁵*Department of Inorganic Polymers, “Petru Poni” Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41 A, Iasi, 700487, Romania;*

Corresponding authors: Mihaela Balan-Porcarasu, e-mail: mihaela.balan@icmpp.ro; Mirela-Fernanda Zaltariov, e-mail: zaltariov.mirela@icmpp.ro

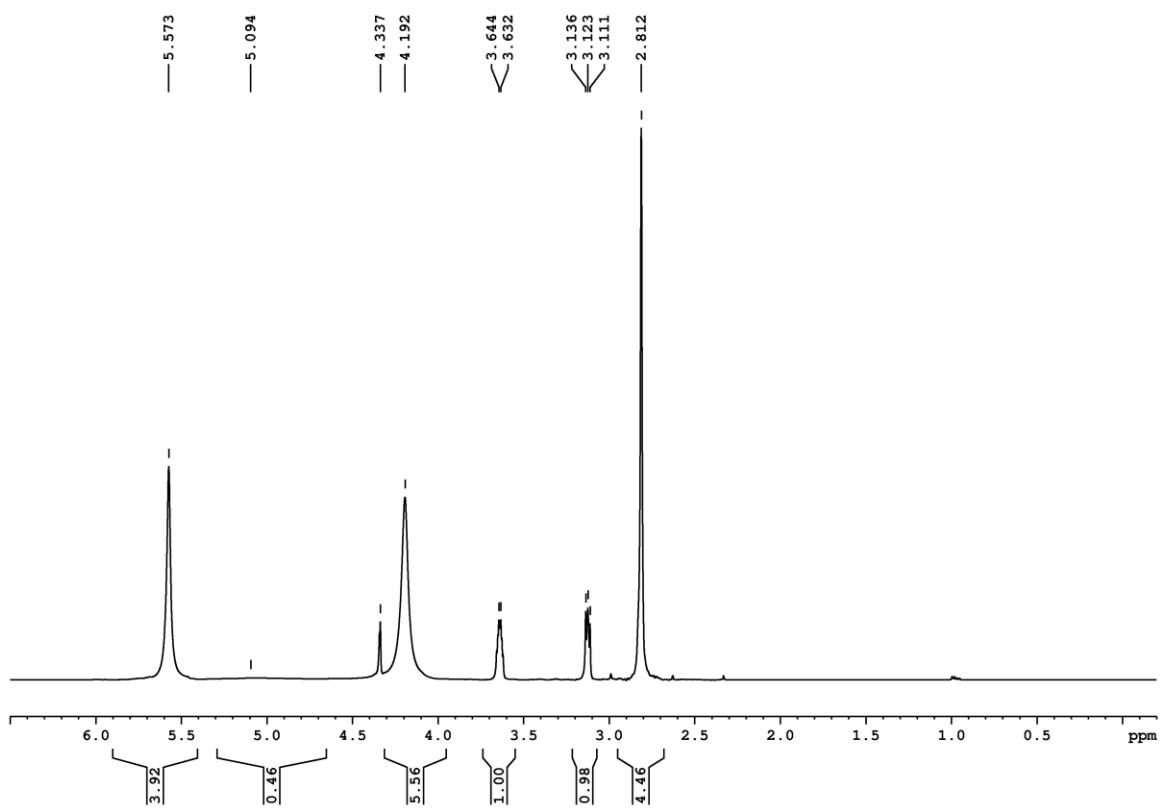


Figure S1. ¹H NMR spectrum of ChCl-U-H₂O (1:2:6).

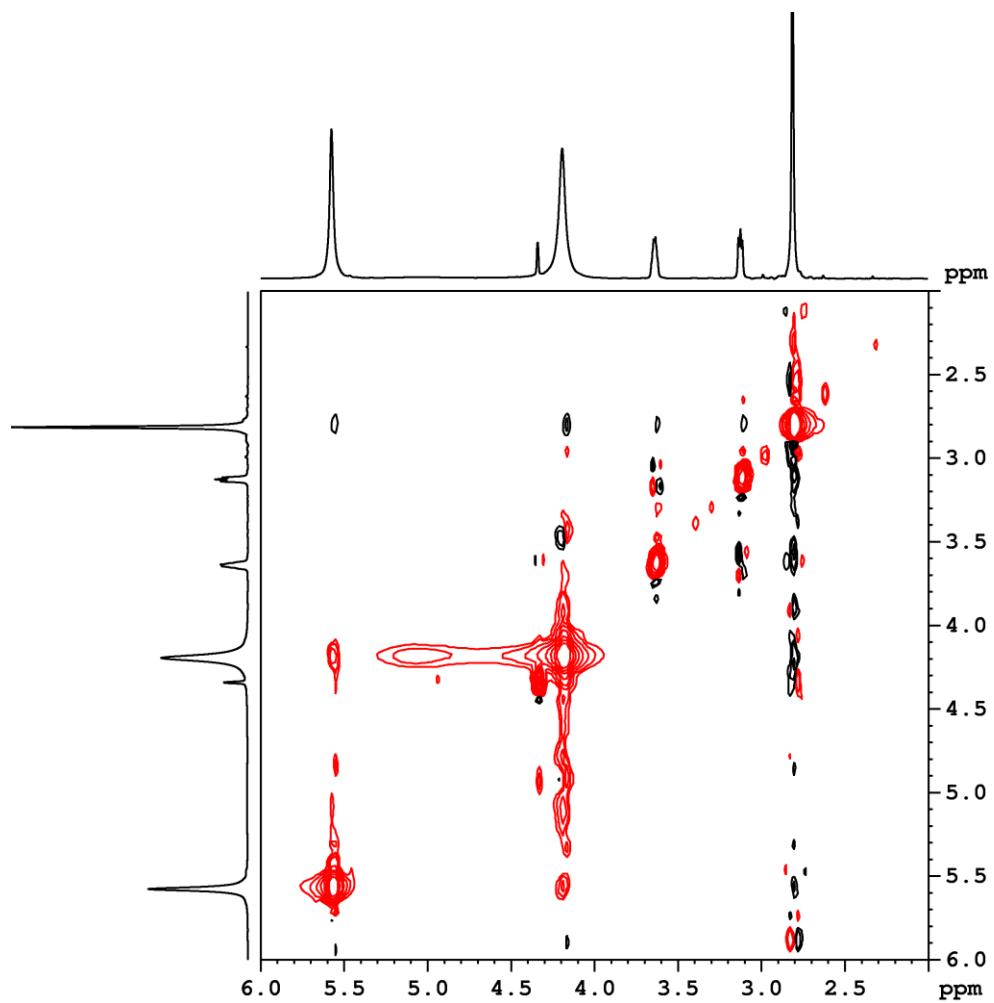


Figure S2. 2D ROESY spectrum of ChCl-U-H₂O (1:2:6 molar ratio).

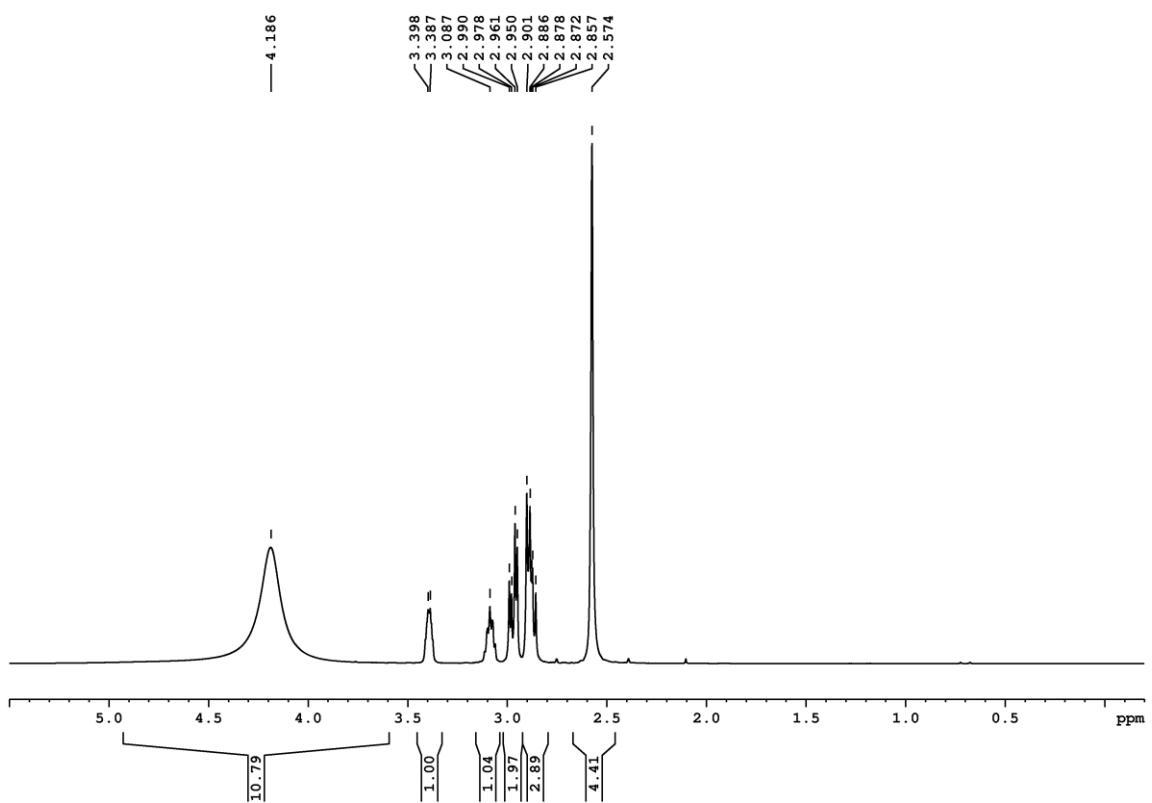


Figure S3. ¹H NMR spectrum of ChCl-Gly-H₂O (1:2:11).

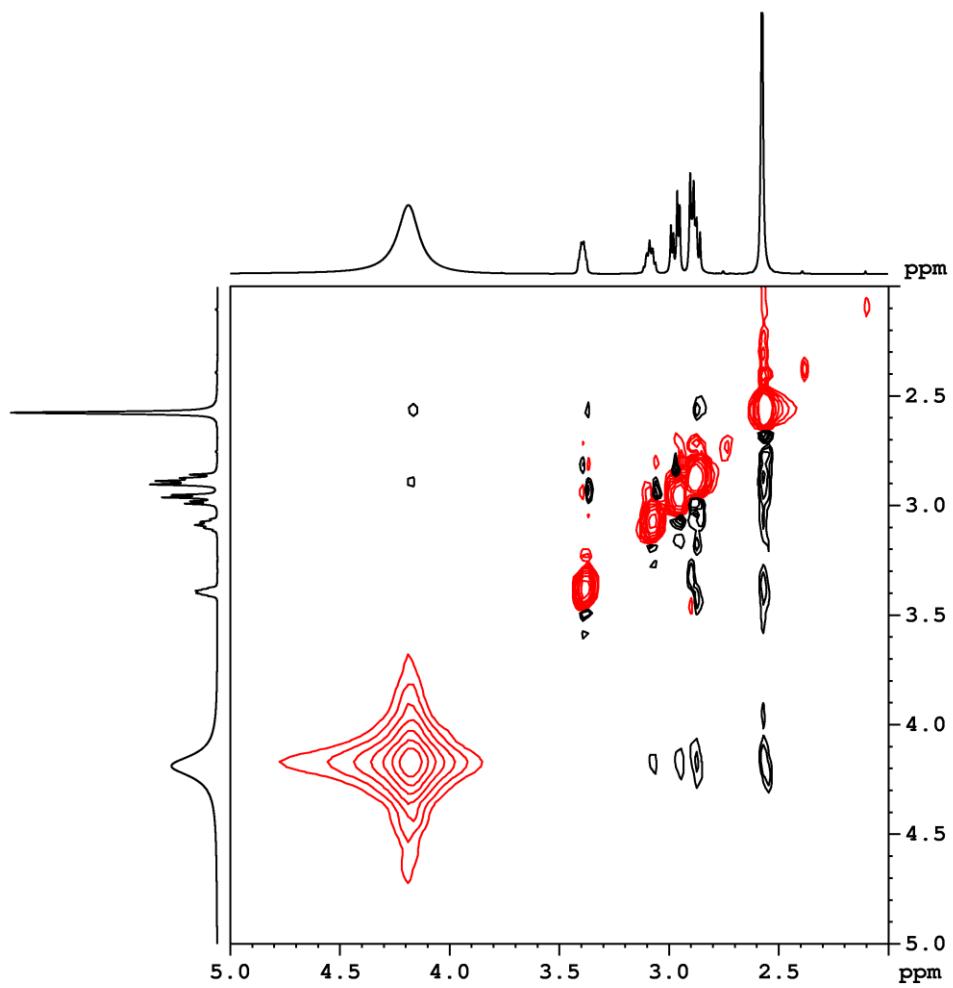


Figure S4. 2D ROESY spectrum of ChCl-Gly-H₂O (1:2:11 molar ratio).

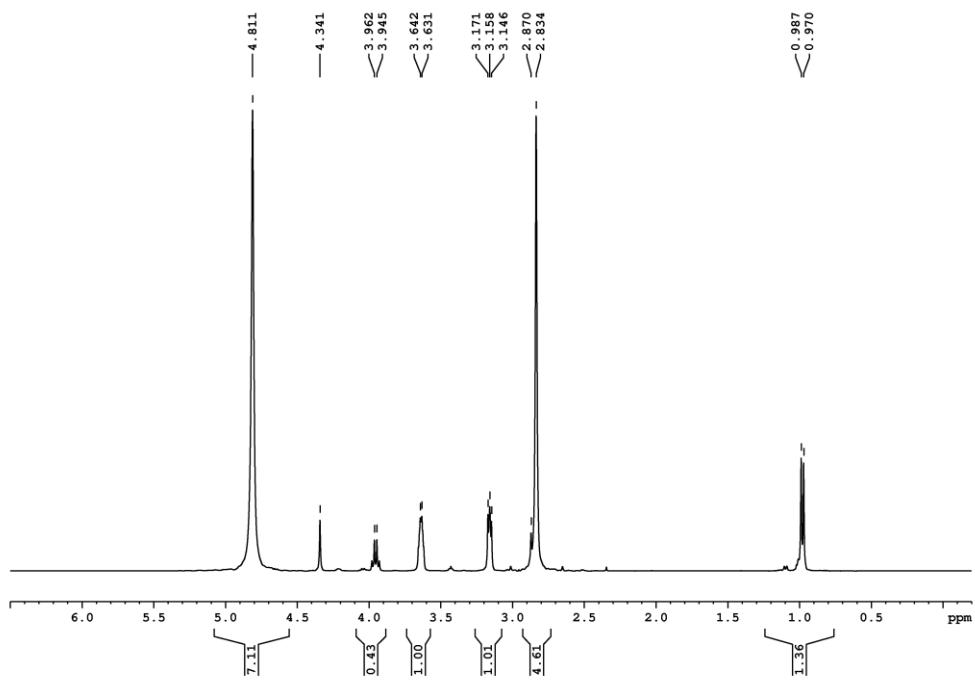


Figure S5. ¹H NMR spectrum of ChCl-LA-H₂O (1:1:7).

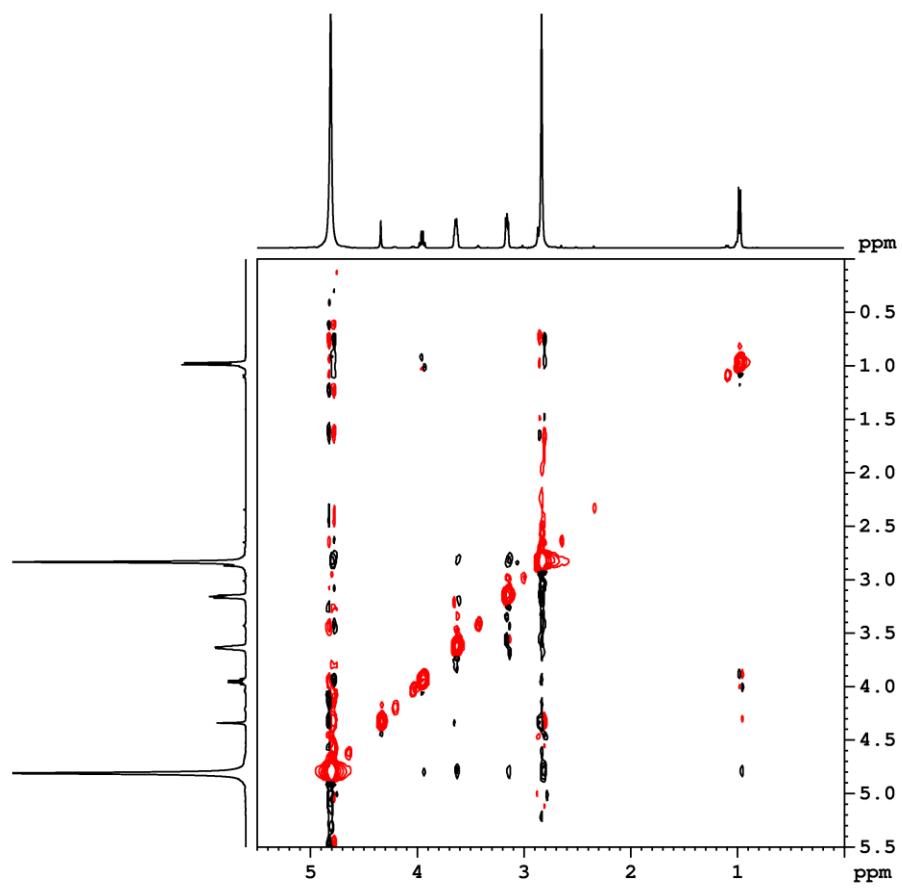


Figure S6. 2D ROESY spectrum of ChCl-LA-H₂O (1:1:7 molar ratio).

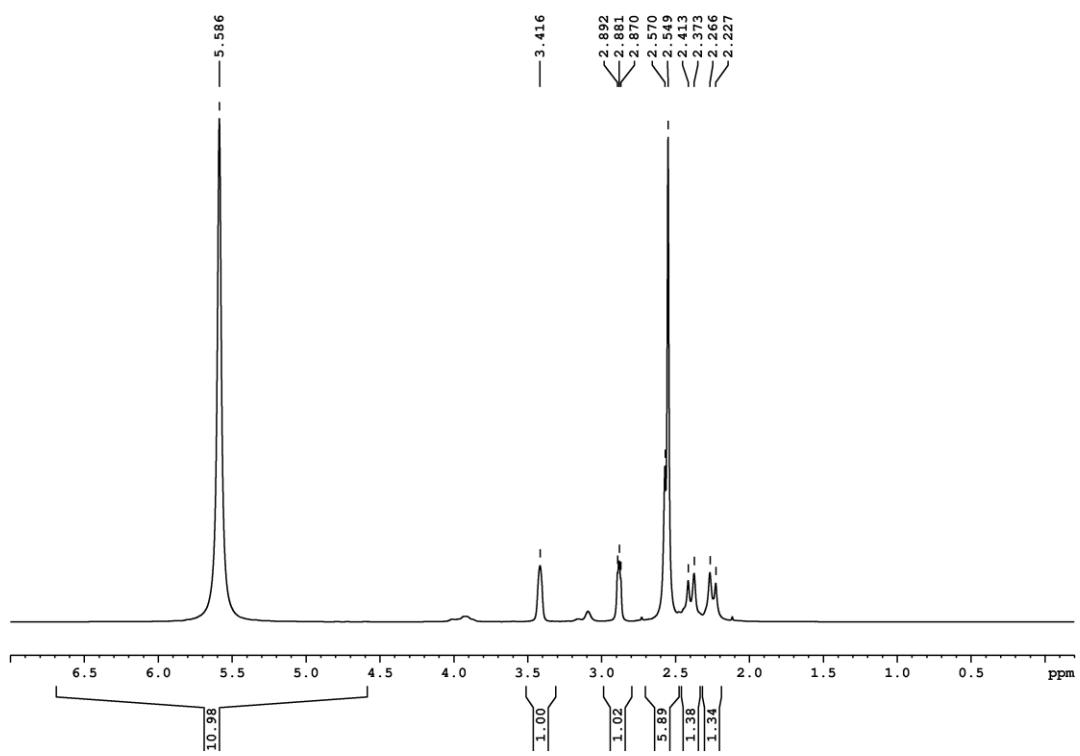


Figure S7. ¹H NMR spectrum of ChCl-CA-H₂O (1:1:10).

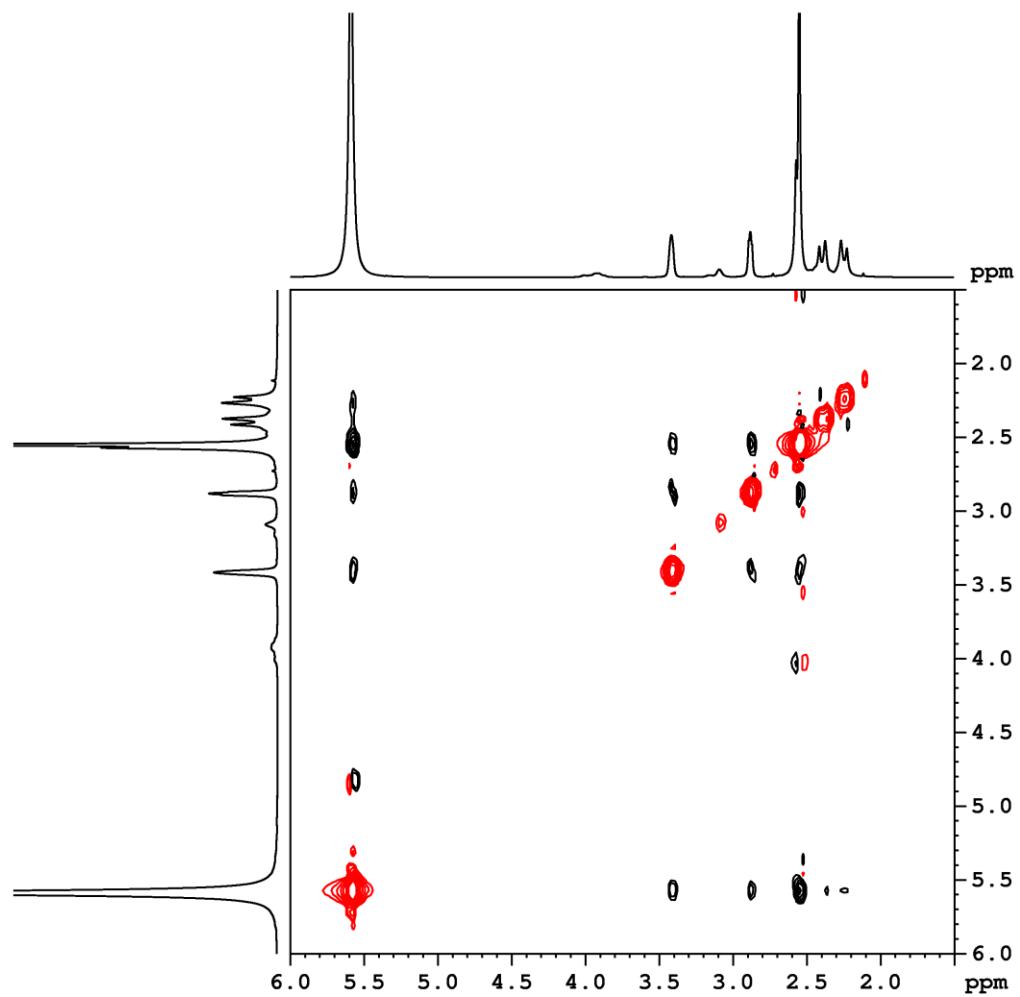


Figure S8. 2D ROESY spectrum of ChCl-CA-H₂O (1:1:10 molar ratio).

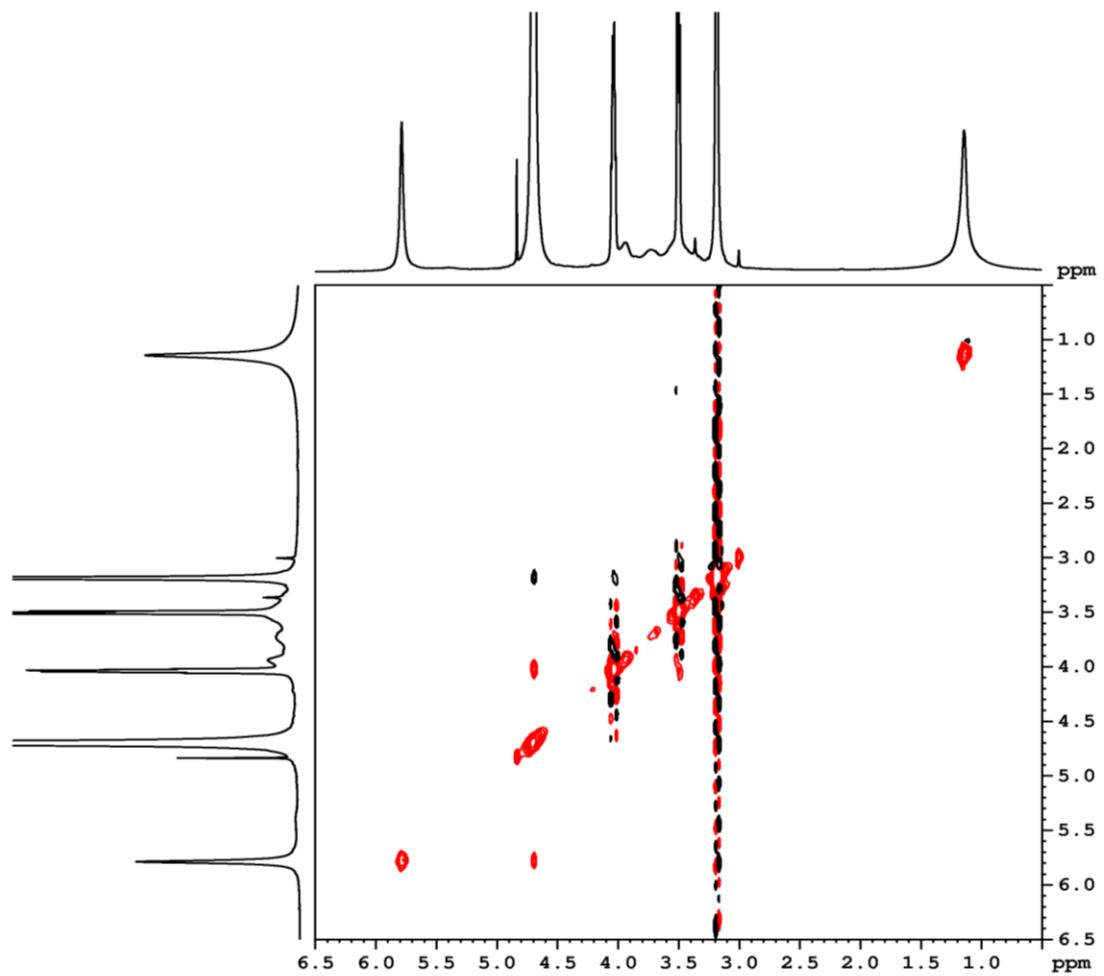


Figure S9. 2D ROESY spectrum of HPC-ChCl-U 17%