

Article

Solubility and Permeability Enhancement of Oleanolic Acid by Solid Dispersion in Poloxamers and γ -CD

Chiara De Stefani ^{1,†}, Jessika Lodovichi ^{1,†}, Laura Albonetti ¹, Maria Cristina Salvatici ², José Carlos Quintela ³, Anna Rita Bilia ¹, Maria Camilla Bergonzi ^{1,*}

¹ Department of Chemistry, University of Florence, via U Schiff 6, 50519 Sesto Fiorentino, Florence, Italy; chiara.destefani@stud.unifi.it (C.D.S.); jessika.lodovichi@stud.unifi.it (J.L.); laura.albonetti@stud.unifi.it (L.A.); ar.bilia@unifi.it (A.R.B.)

² National Research Council (CNR), Institute of Chemistry of Organometallic Compounds (ICCOM)—Electron Microscopy Centre (Ce.M.E.), Via Madonna del Piano 10, 50019 Sesto Fiorentino, Florence, Italy; salvatici@ceme.fi.cnr.it

³ NATAC BIOTECH, Electronica 7, Alcorcón, 28923 Madrid, Spain; jcquintela@natacgroup.com

* Correspondence: mc.bergonzi@unifi.it; Tel.: +39-055-457-3678

† These authors contributed equally to this study.

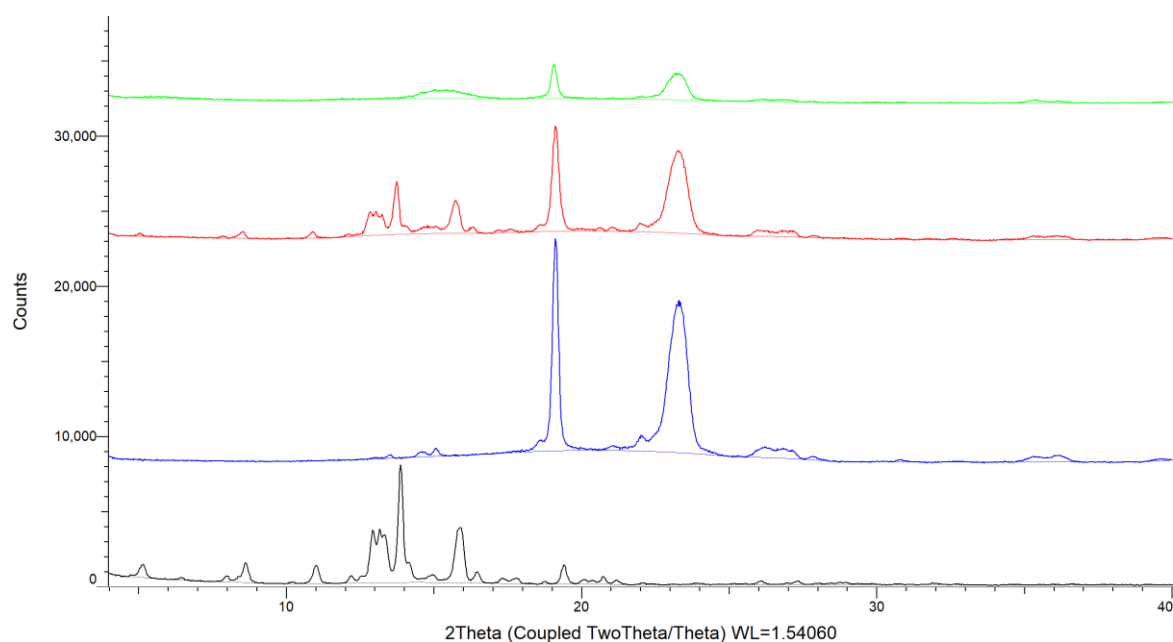


Figure S1. X-ray diffraction patterns of OA (black), Poloxamer 188 (blue), PM 1:2 (red) and SEM 1:2 (green).

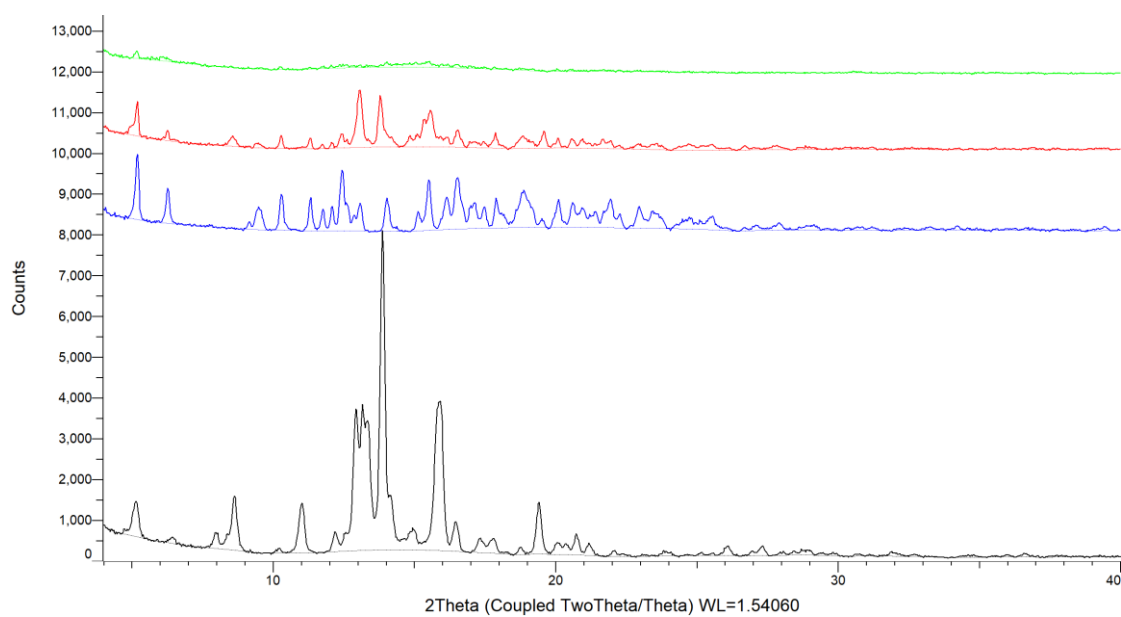


Figure S2. X-ray diffraction patterns of OA (black), γ -CD (blue), PM 1:1 (red) and SEM 1:1 (green).

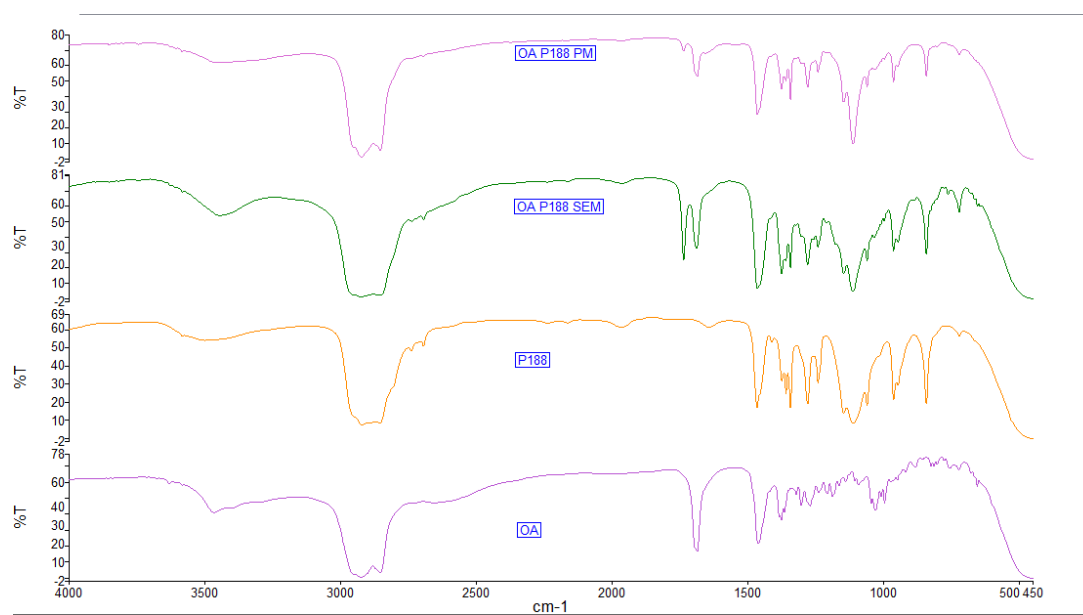


Figure S3. FTIR spectra of OA, P188 , physical mixture (PM), and solid dispersion (SEM).

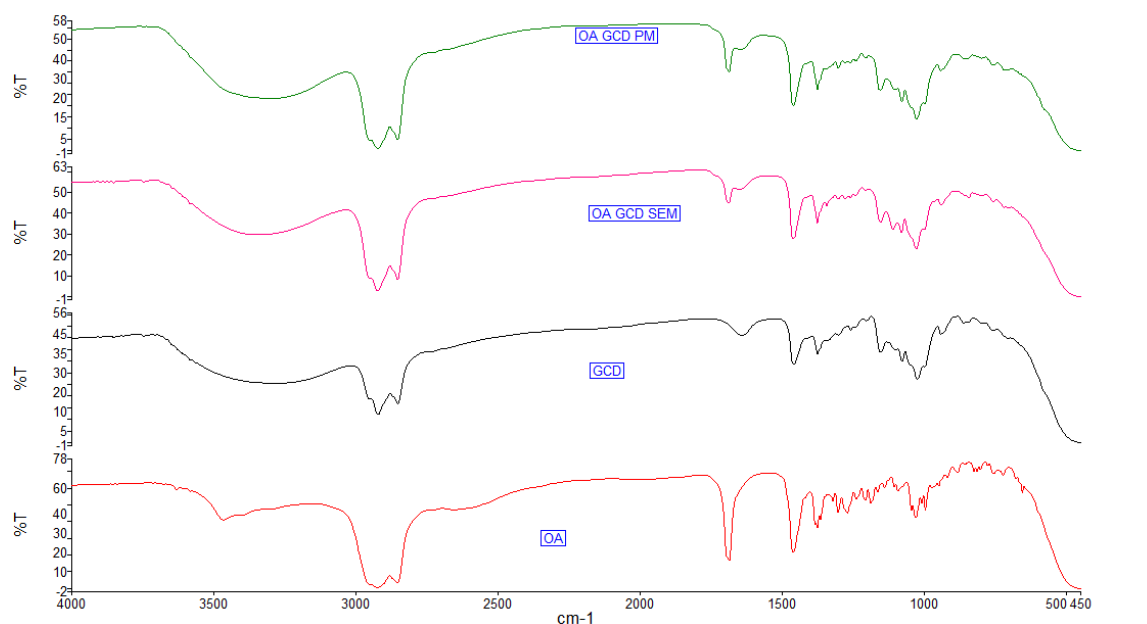


Figure S4. FTIR spectra of OA, γ -CD, physical mixture (PM), and solid dispersion (SEM).

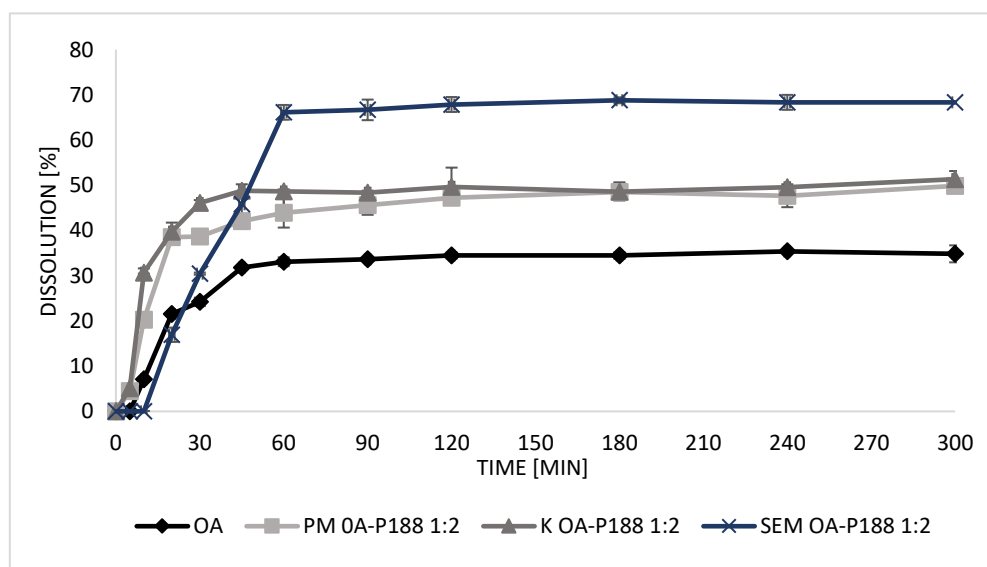


Figure S5. Dissolution profiles of OA, PM OA-P188 1:2, K OA-P188 1:2 and SEM OA-P188 1:2.

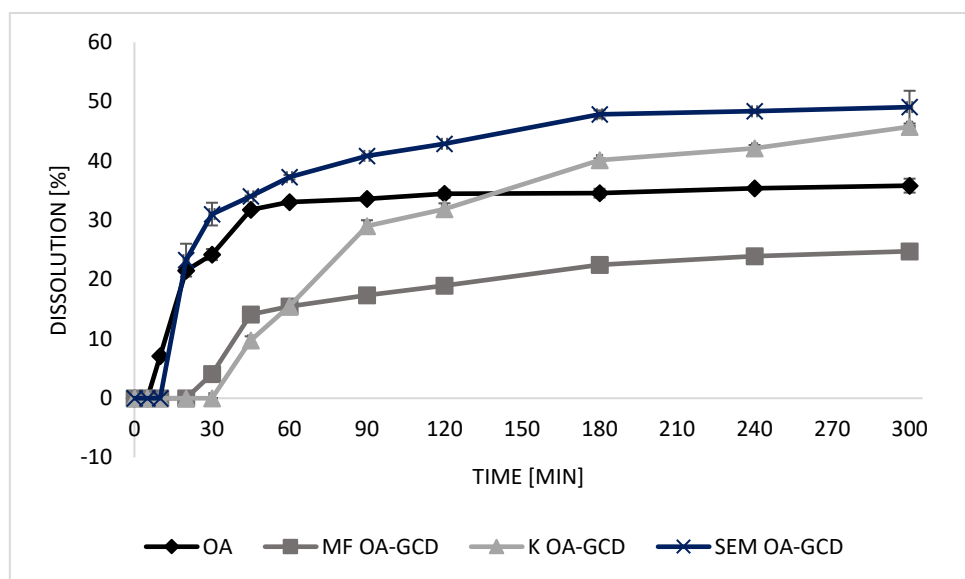


Figure S6. Dissolution profiles of OA, PM OA- γ CD 1:2, K OA- γ CD 1:2 and SEM OA- γ CD 1:2.