Supplementary Materials

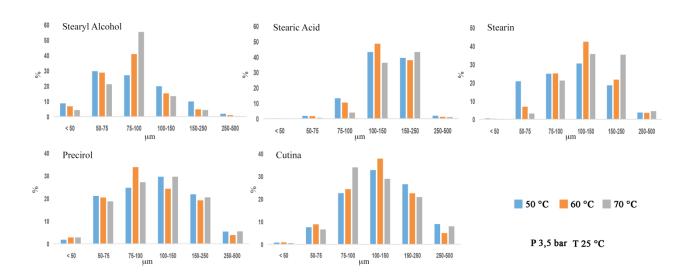


Figure S1: Size distribution (%) of MPs as a function of the WPN temperature.

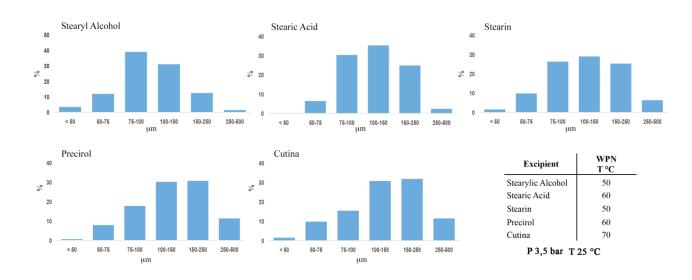
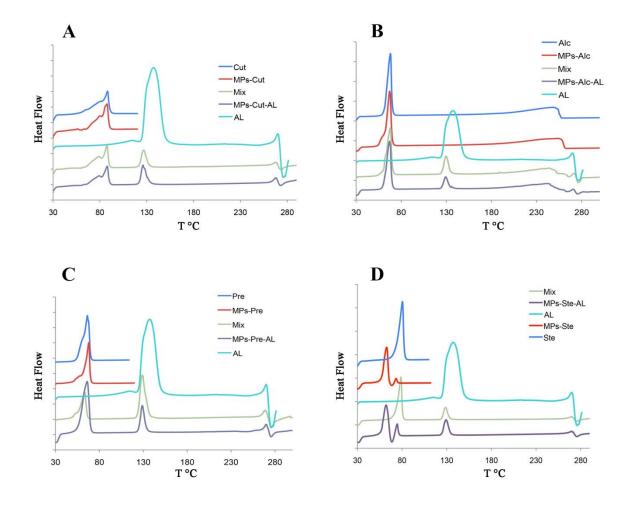


Figure S2: Size distribution (%) of MPs-AL. In the table are reported the WPN parameters for each excipient.



 $\textbf{Figure S3} : DSC \ thermograms \ recorded \ on: \ \textbf{A} \ Stearic \ acid-based \ samples; \ \textbf{B.} \ Stearylic \ Alcoolbased \ samples \ \textbf{C} \ Precirol-based \ samples; \ \textbf{D} \ Stearine-based \ samples \ .$

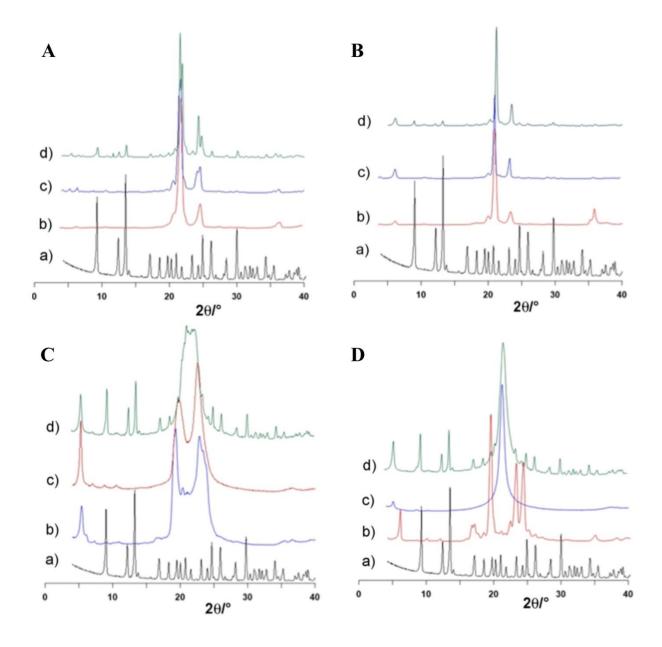


Figure S4: X-Rays Diffraction patterns of MPs obtained from different excipients, empty and loaded with AL. **Fig. A**: a) AL; b) ACI; c) MPs-ACI; d) MPs-ACI-AL; **Fig. B**: a) AL; b) ALC; c) MPs-ALC; d) MPs-ALC-AL; **Fig. C**:a) AL; b) PRE; c) MPs-PRE; d) MPs-PRE-AL; **Fig.D**: a) AL; b) STE; c) MPs-STE; d) MPs-STE-AL.

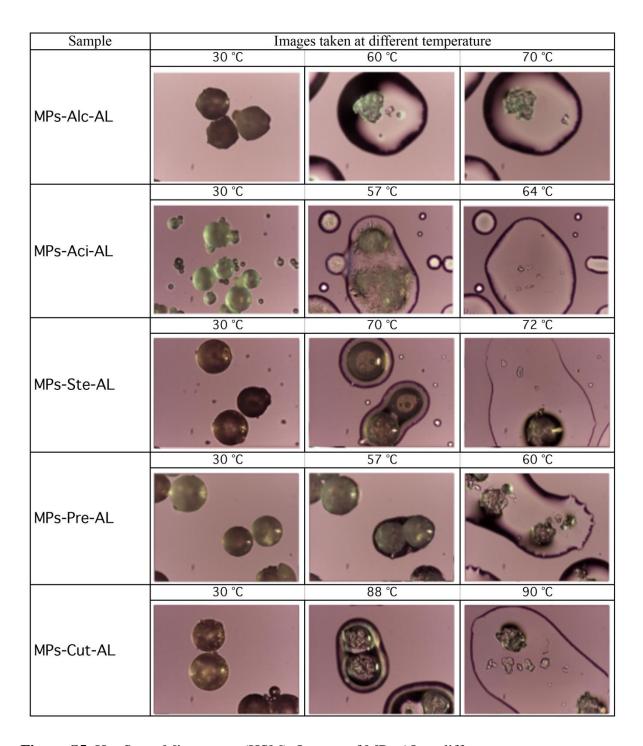


Figure S5: Hot Stage Microscopy (HSM): Images of MPs-AL at different temperatures.