

Supplementary Materials

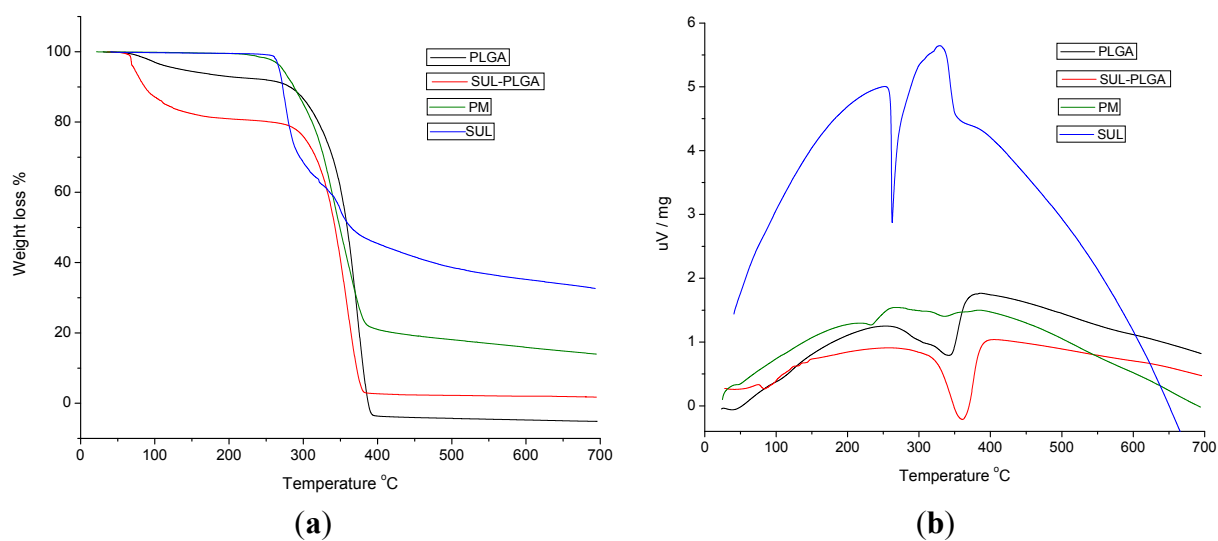


Figure S1. TGA (a) and DTA (b) curves of PLGA (black line), SUL-PLGA (red line), Physical mixture of SUL-PLGA (PM—green line) and Sulfadiazine (SUL—blue line).

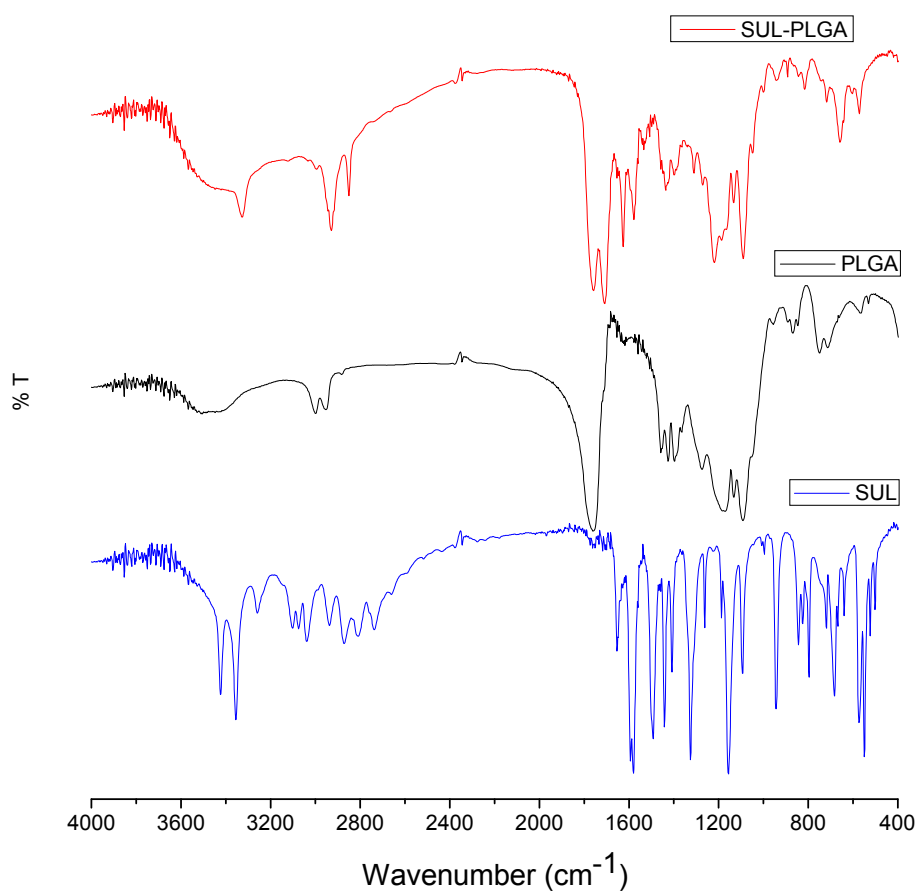


Figure S2. FTIR spectra of PLGA (black line), SUL-PLGA (red line) and SUL (blue line).

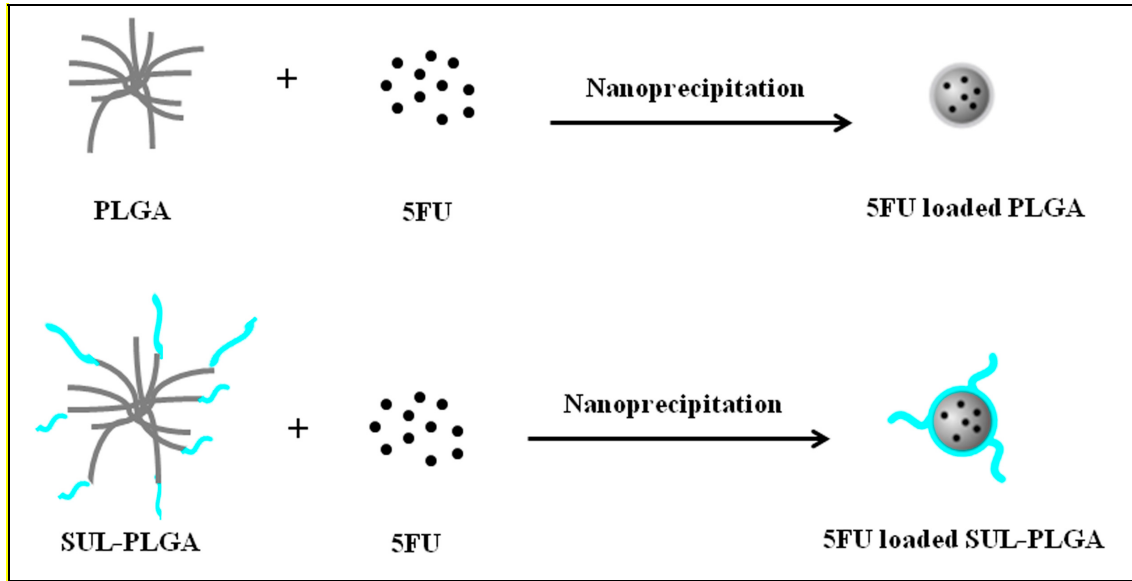


Figure S3. Schematic representation of the preparation of 5FU-loaded PLGA and SUL-PLGA NPs.

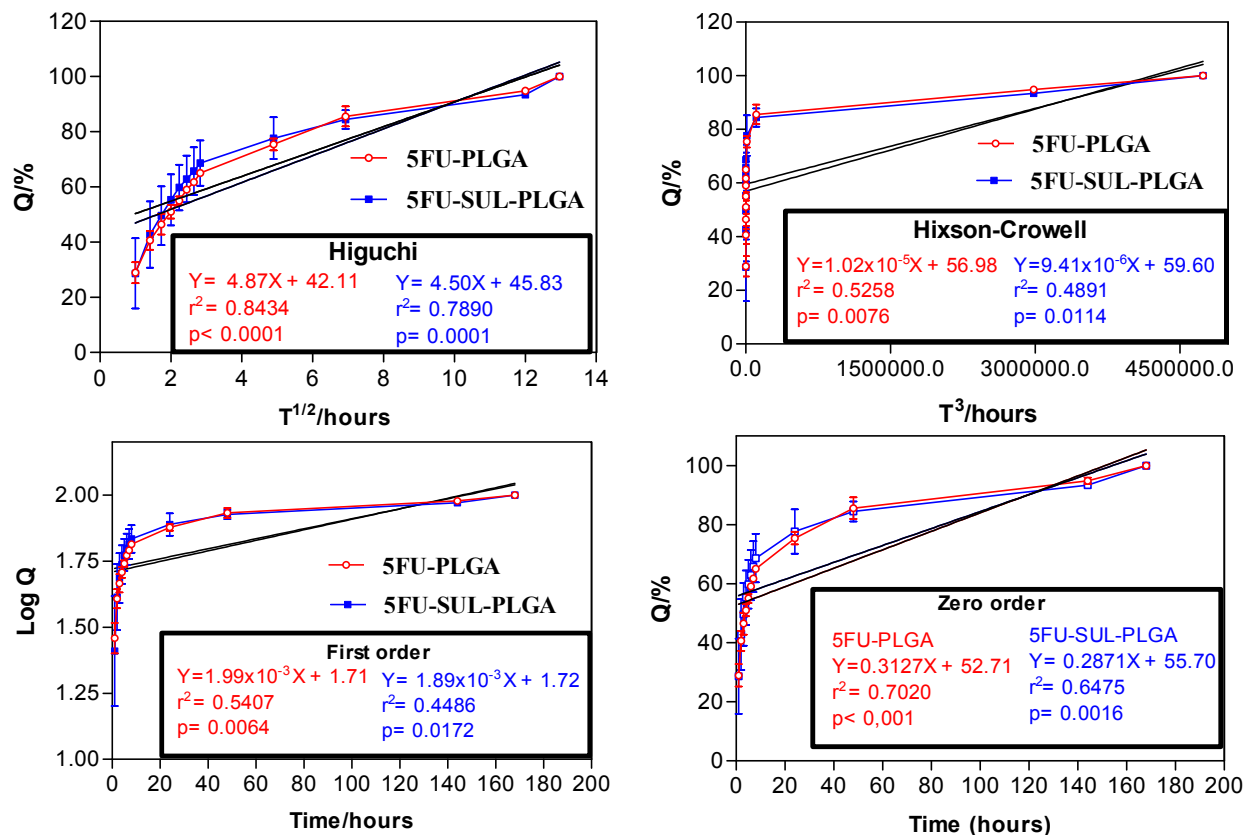


Figure S4. Release profiles of 5-FU from 5FU-PLGA and 5FU-SUL-PLGA *in vitro* in different models (vertical bar means average $\pm$ standard deviation, $n = 2$).

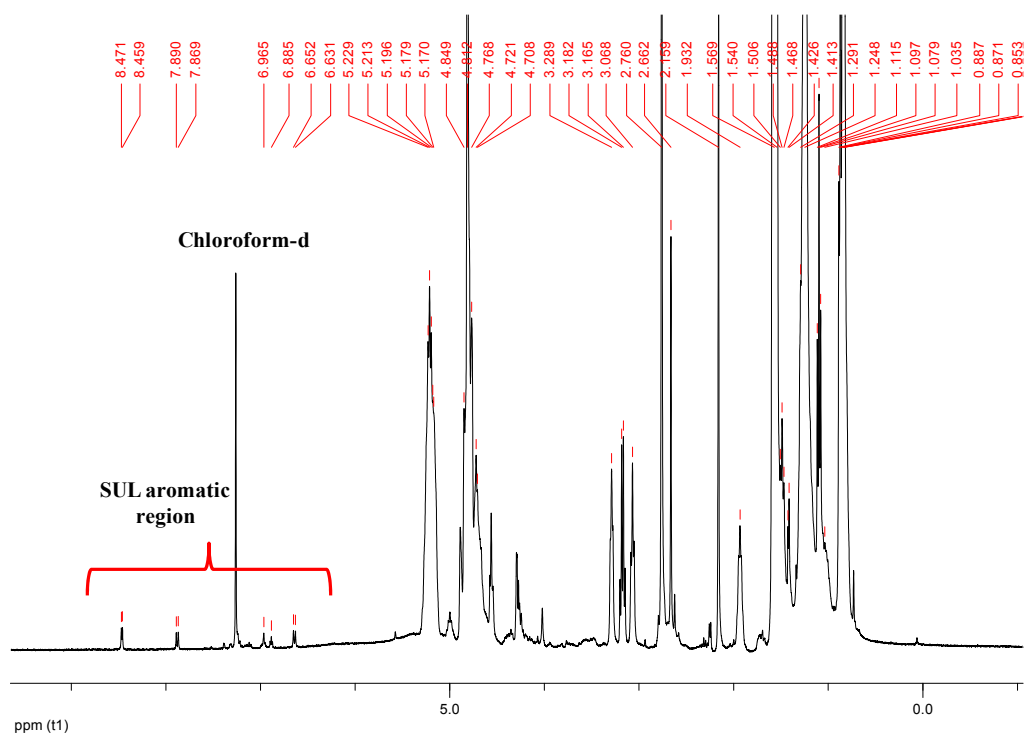


Figure S5. ¹H-NMR Spectrum SUL-PLGA (Chloroform-d, 400 MHz).

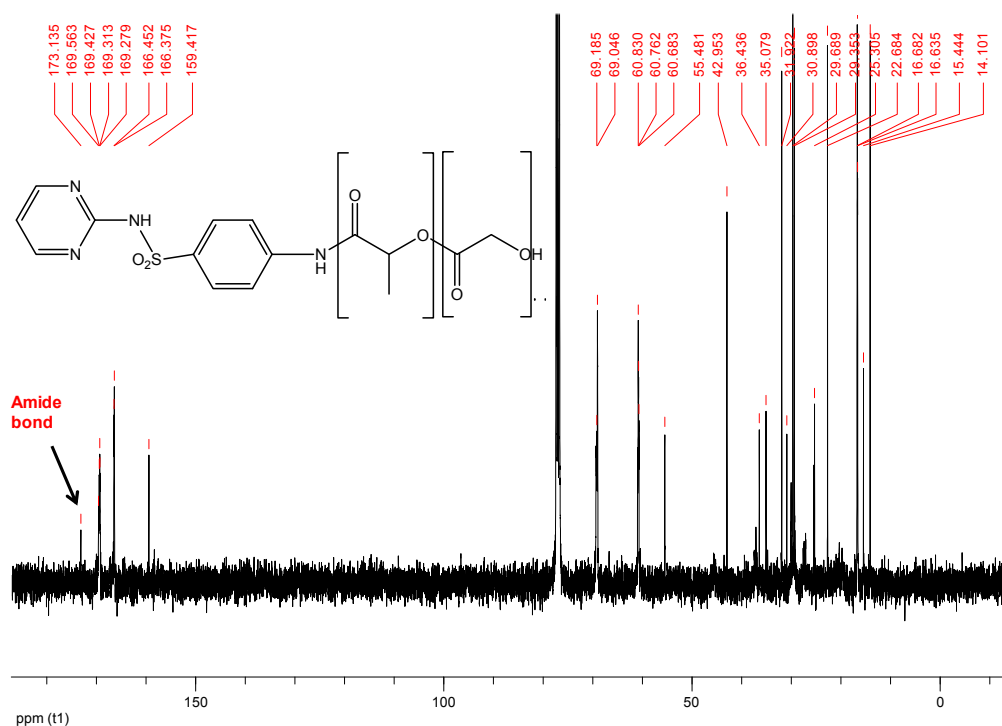


Figure S6. ¹³C-NMR Spectrum SUL-PLGA (Chloroform-d, 400 MHz).

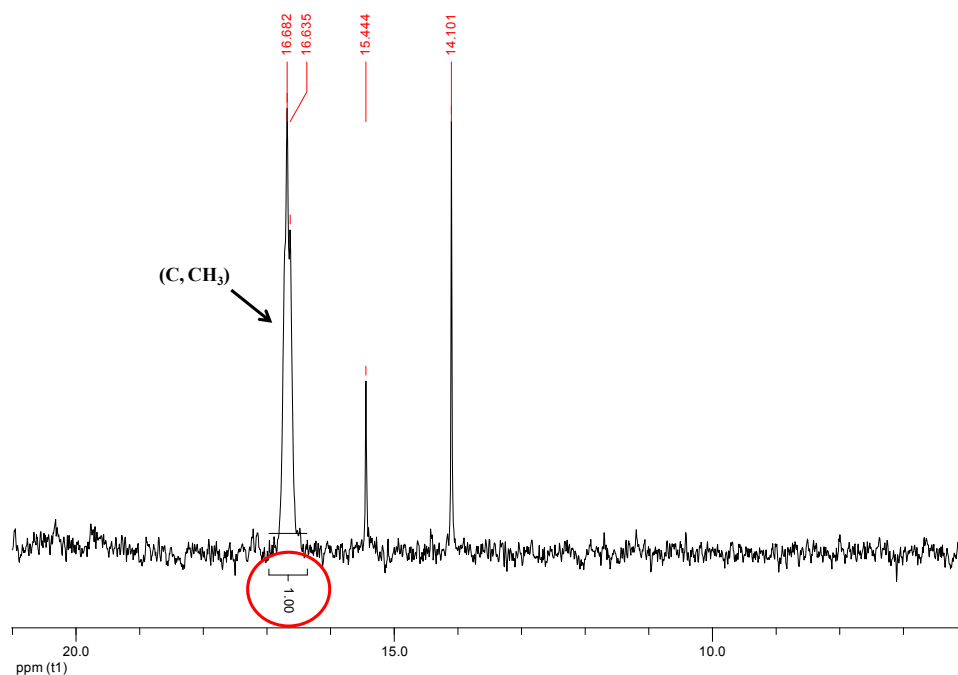


Figure S7. Expansion of the region of C, CH₃ of PLGA, with the integration of the peak in the ¹³C-NMR SUL-PLGA spectrum (Chloroform-d, 400 MHz).

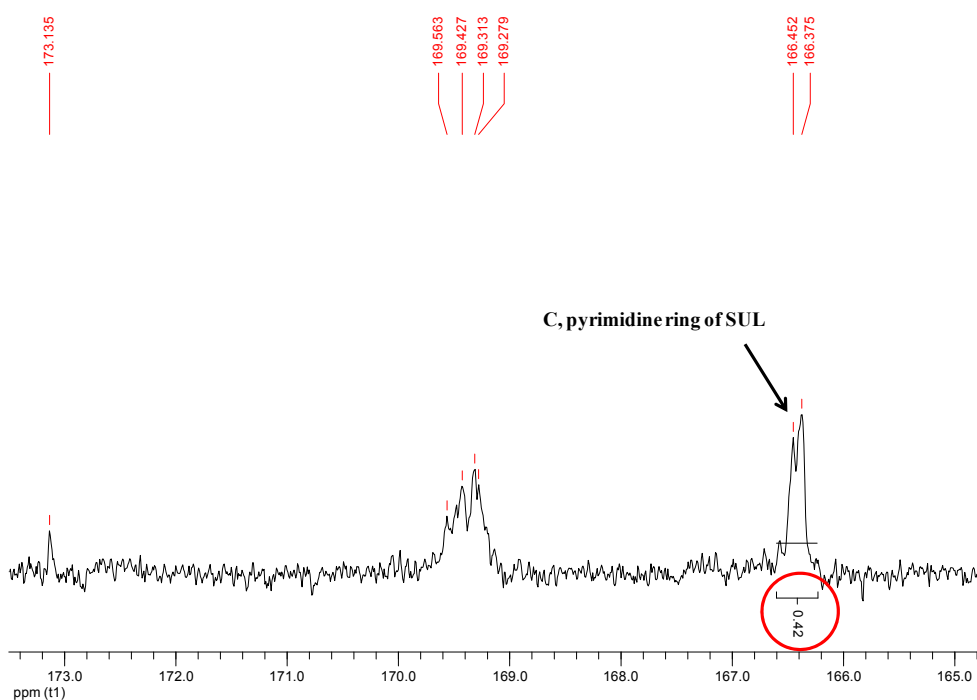


Figure S8. Expansion of the region of C, pyrimidine ring of SUL, with the integration of the peak in the ¹³C-NMR SUL-PLGA spectrum (Chloroform-d, 400 MHz).

$$EE = (\text{weight of drug added} - \text{weight of free drug in supernatant} / \text{weight of drug added}) \times 100 \quad (1)$$

$$LC = (\text{weight of drug in NPs} / \text{weight of nanoparticles}) \times 100 \quad (2)$$