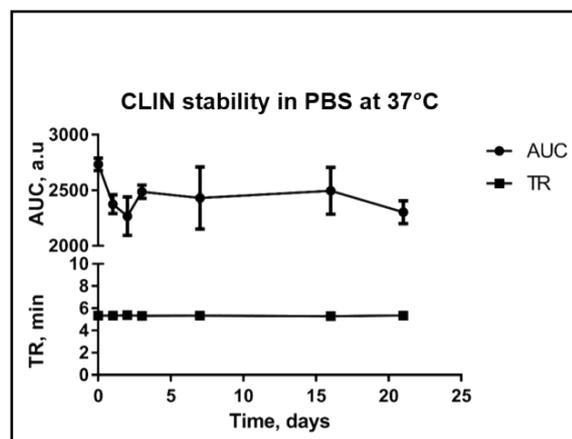
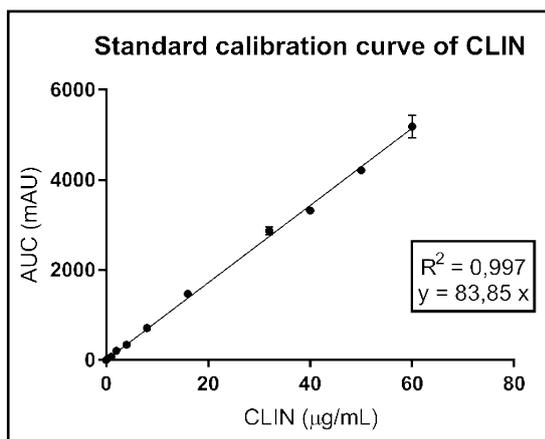


SUPPLEMENTARY INFORMATION

S11: Clindamycin detection by HPLC and stability

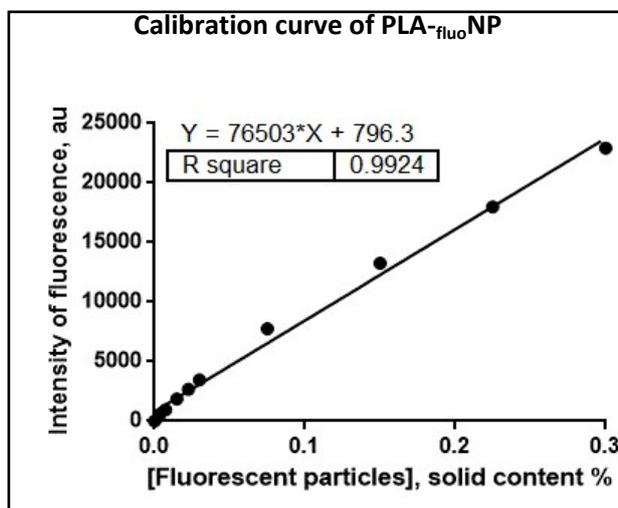
CLIN was quantified by HPLC with a UV-Vis detector and the standard curve is reported below (left panel). Clindamycin was stable over time under our experimental conditions (right panel).



S12: Calibration curve of PLA-fluo NPs and fluorescence release

Fluorescence intensity was linearly proportional to the concentration of fluorescent particles in PBS at 37°C and in the range of particle concentration ($R^2 > 0.99$) used to assess PLA-fluo NPs release from hydrogels (left panel).

The fluorescence release was assessed after 4 days of fluorescent particles' incubation in PBS at 37°C (right panel). At days 0 and 4, particles were centrifuged for 20 min at 16,000 g to pellet them, and the fluorescence released by the supernatants (IF_{sup}) and non-centrifuged particles (IF_{total}) was measured. The ratios between the two fluorescence intensity values are given below.



Release of fluorescence from PLA-fluo NP after

4 days in PBS at 37°C.

	Day 0	Day 4
Ratio IF_{sup}/IF_{total}	0,020	0,024