

Supplementary information

Table S1: Typical Cryo-TEM images of nanocarriers obtained from blend 1, 2 and 3, with a concentration of 16 mg/mL.

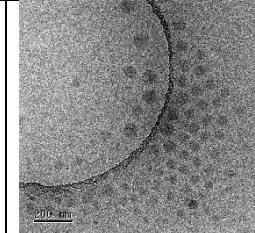
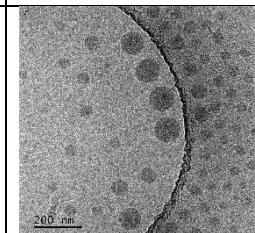
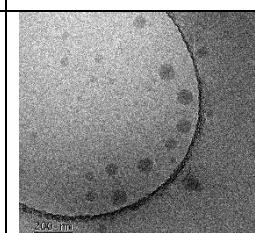
Cryo-TEM images	[Blend] = 16 mg/mL
Blend 1	
Blend 2	
Blend 3	

Table S2: Characteristics of Nile red-labelled nanocarriers (mean values \pm SD, n=3) after 1 year stored at 4 °C: the hydrodynamic diameter (DH) and Pdl.

[Blend] (mg/mL)	Nile red-labelled mPEG-SS-PLA/PLA nanocarriers - Blend 1		Nile red-labelled mPEG-SS-PLA/PLA nanocarriers - Blend 2		Nile red-labelled mPEG-SS-PLA/PLA nanocarriers - Blend 3	
	D _H (nm)	Pdl	D _H (nm)	Pdl	D _H (nm)	Pdl
4	93.21 \pm 1.46	0.167 \pm 0.036	109.87 \pm 2.58	0.116 \pm 0.006	100.46 \pm 9.93	0.121 \pm 0.006
10	95.51 \pm 3.82	0.083 \pm 0.013	124.70 \pm 1.54	0.089 \pm 0.010	118.90 \pm 0.44	0.106 \pm 0.003
16	99.59 \pm 3.06	0.079 \pm 0.015	131.77 \pm 3.33	0.094 \pm 0.012	124.97 \pm 2.99	0.107 \pm 0.011