



Table 2S. FNPs hydrodynamic diameters.

Hydrodynamic FNPs diameter measurements by dynamic light scattering (mQ water). Hydrodynamic diameter of the nanoparticles was determined by photon correlation spectroscopy (PCS) at 25 °C using a NanoBrook Omni Particle Size Analyzer (Brookhaven Instruments Corporation, USA) equipped with a 35 mW red diode laser (nominal 640 nm wave-length).

Run	Eff. Diam. (nm)	Polydispersity
1	76.87	0.183
2	76.76	0.134
3	75.92	0.155
4	74.53	0.187
5	71.95	0.167
Mean:	75.21	0.165
Std Err:	0.92	0.010
Std Dev:	2.05	0.022

Table 3S. Zeta-potential measurements of FNPs (mQ water). Zeta-potential was measured at 25 °C using a NanoBrook Omni Particle Size Analyzer (Brookhaven Instruments Corporation, USA) equipped with a 35 mW red diode laser (nominal 640 nm wave-length).

Run	Zeta-potential (mV)
1	55.99
2	57.10
3	49.09
4	49.65
5	58.99
Mean:	54.16
Std Err:	1.80
Std Dev:	4.03

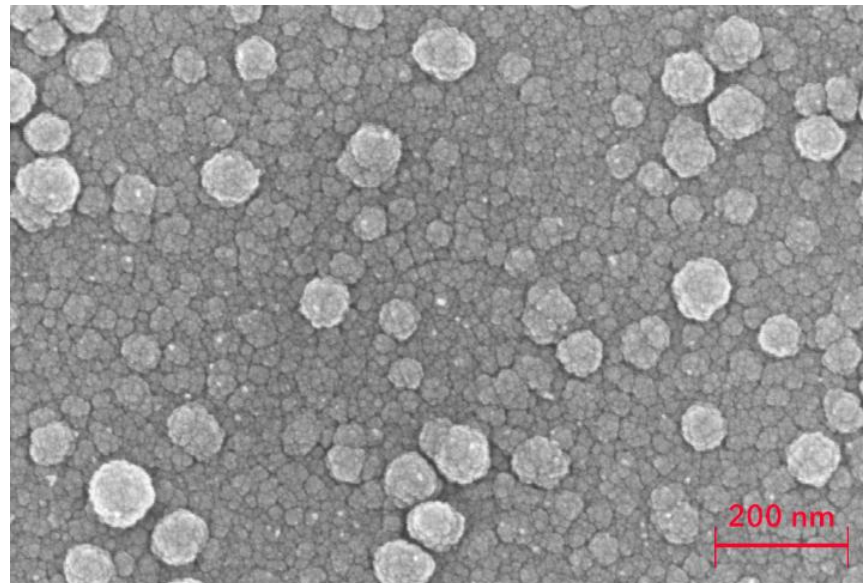


Figure 1S. FNPs scanning electron microscope (SEM) image.

Particles morphology was studied using the EVO LS 10 LaB6 scanning electron microscopy (SEM) (Zeiss, Italy) with an acceleration voltage of 5 kV and a working distance of 5 mm. The samples were sputter coated under vacuum with a thin layer (10–30 Å) of gold. Z-range = 63 ± 13 nm.