Supplementary Table 1. Physicochemical properties and technological characterization of the NP-Nut, NP-Rt and NP-Rt-Nut preparations.

Samples	Size (nm)	PDI	z- potential (mV)	% PVA residual	[EE] <sup>a</sup> (%)	Drug content <sup>b</sup> (%)
NP	179 (14)	0.04 (0.003)	-13 (3)	6.7 (0.3)		
NP-Nut	189 (15)	0.08 (0.02)	-3 (1)	6.7 (0.3)	59 (7)	5.0 (0.7)
NP-Rt	212 (14)	0.18 (0.02)	- 12 (2)	4.5 (0.4)		
NP-Rt-Nut	223 (16)	0.12 (0.02)	- 10 (4)	3.4 (0.2)	44 (8)	4.0 (0.8)

Values are means±SD (*n*=9). PDI: polydispersivity index; PVA: polyvinyl alcohol; EE: encapsulation efficiency; Nut, Nutlin-3; Rt, Rituximab.

<sup>&</sup>lt;sup>a</sup>The percentage of EE was determined as the ratio of the encapsulated out of the total (encapsulated+free) drug. <sup>b</sup>The percentage of drug content was expressed as the ratio of the encapsulated drug out of the total mass (encapsulated drug+ polymer).