

Supplementary material

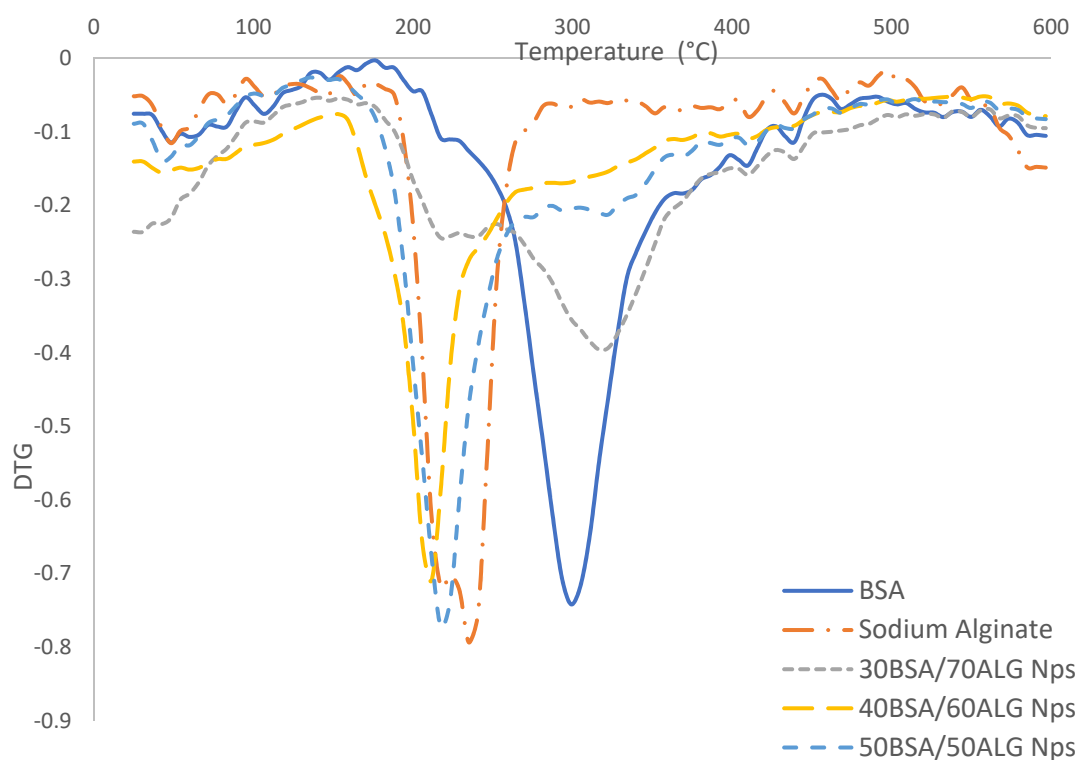


Figure S1. TGA first derivative curves of BSA, sodium alginate, 30BSA/70ALG Nps, 40BSA/60ALG Nps and 50BSA/50ALG Nps.

Table S1. Percentages (v/v) of BSA (5% w/v) and ALG (1% w/v) solutions added to each blend.

Nanoparticles	Percentage of BSA-EDAC solution added to the blend (% v/v)	Percentage of ALG-EDAC solution added to the blend (% v/v)	Blend composition (w/w ratio)
30BSA/70 ALG	30	70	2BSA:1ALG
40BSA/60 ALG	40	60	3BSA:1ALG
50BSA/50 ALG	50	50	5BSA:1ALG

Table S2 . Statistical parameters of nanoparticle formulations obtained after fitting the drug release data to the release kinetic models. Model fitting was attempted until 91% and 85% of drug released for PTX-30BSA/70ALG-Fol and PTX-50BSA/50ALG-Fol, respectively.

NANOPARTICLES	HIGUCHI	KORSMEYER-PEPPAS		ZERO ORDER	FIRST ORDER
	$K_H (h)^{-1/2}$	$K (h)^{-1}$	n	$K_0 (h)^{-1}$	$K (h)^{-1}$
PTX-30BSA/70ALG-Fol	0.892 ($r^2= 0.969$)	0.533	0.36 ($r^2=0.979$)	0.349 ($r^2=0.791$)	0.094 ($r^2=0.882$)
PTX-50BSA/50ALG-Fol	1.265 ($r^2=0.978$)	0.299	0.70 ($r^2=0.979$)	0.538 ($r^2=0.941$)	0.117 ($r^2=0.979$)