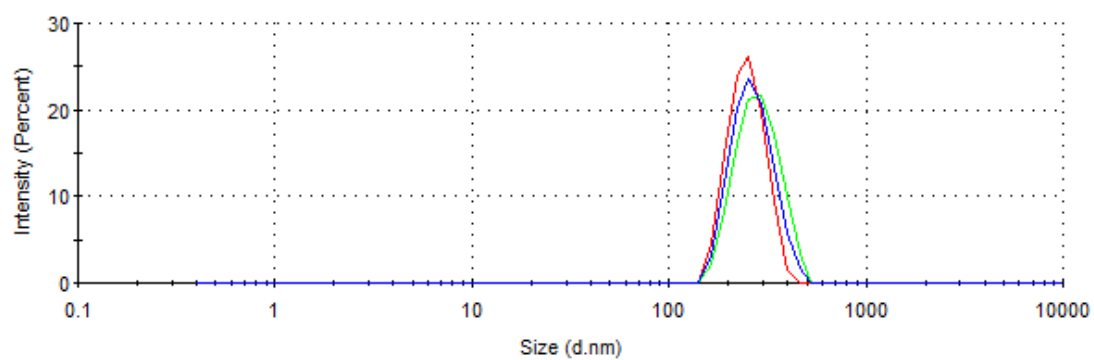
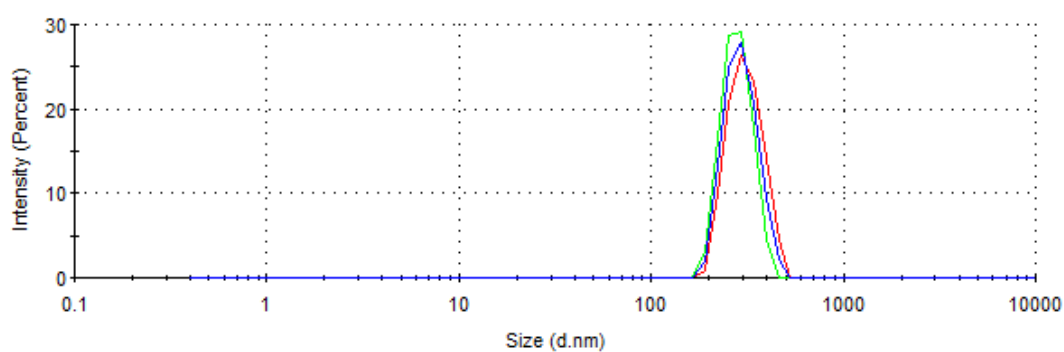


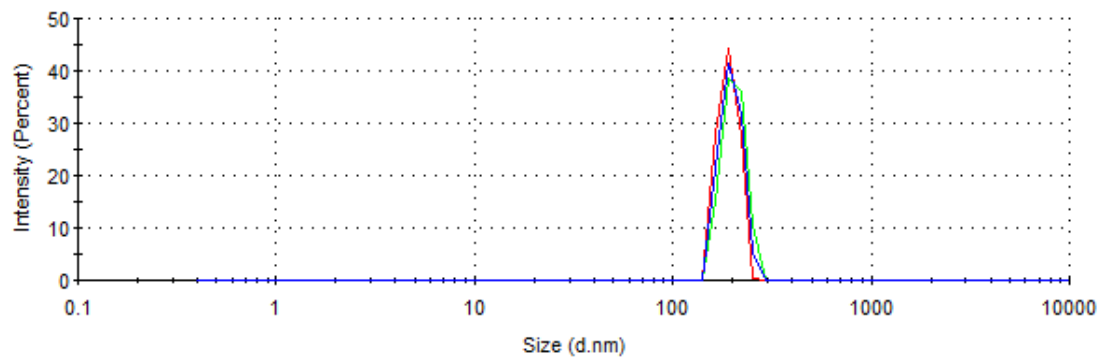
a)



b)



c)



d)

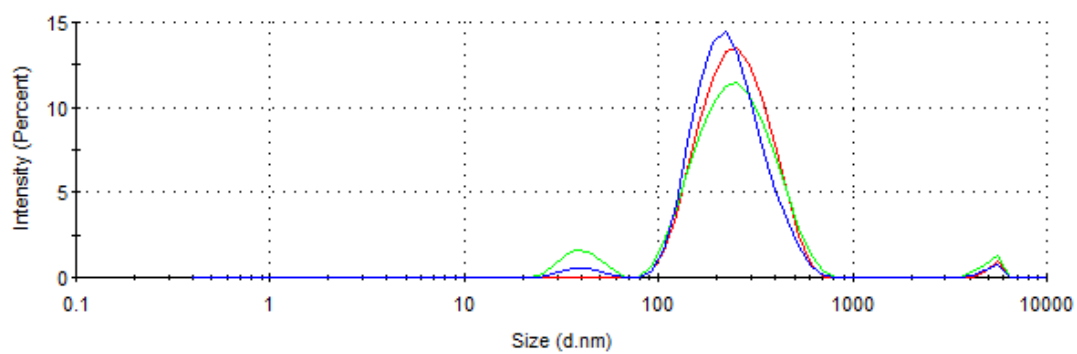
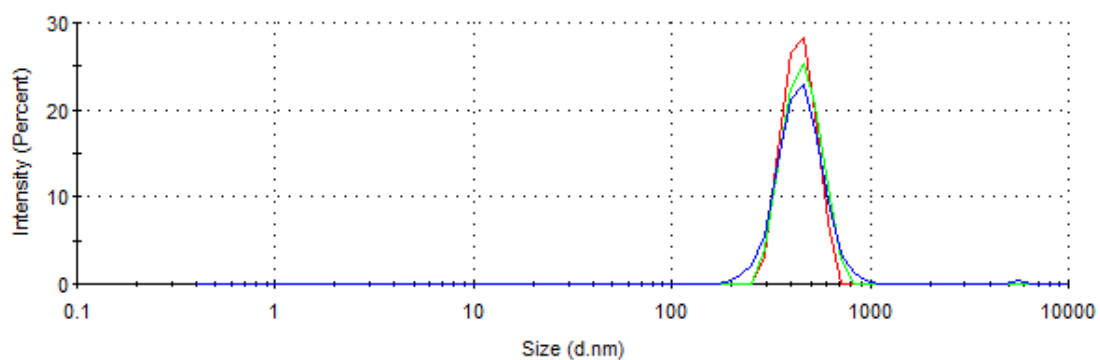
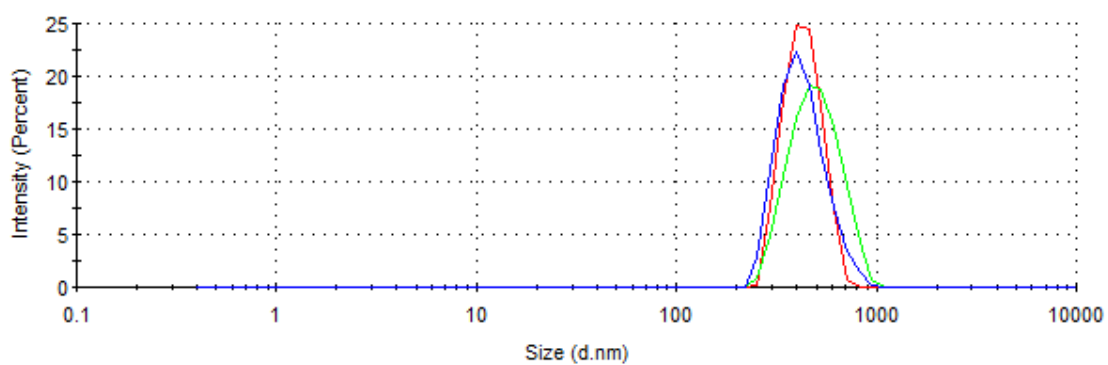


Figure S1. Size distribution by intensity of the nanoparticles FUCe/CS (4/1 ratio, w/w) using the extract of *Laminaria ochroleuca* obtained by autohydrolysis at 70 °C (a), 80 °C (b), 90 °C (c) and 100 °C (d).

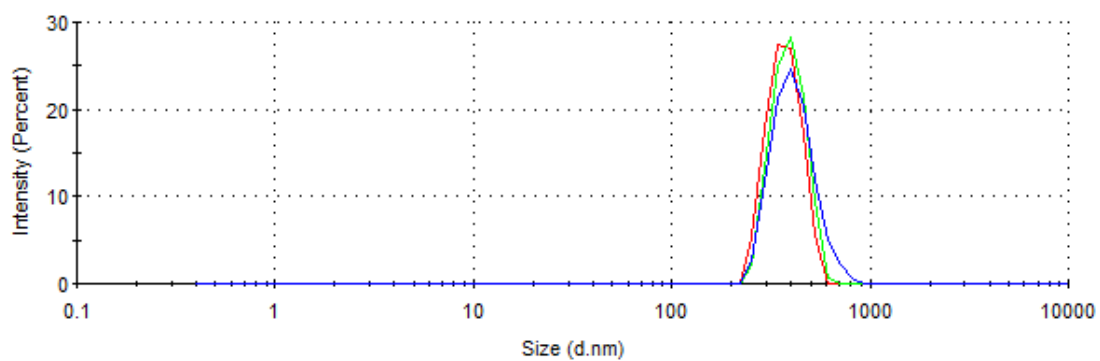
a)



b)



c)



d)

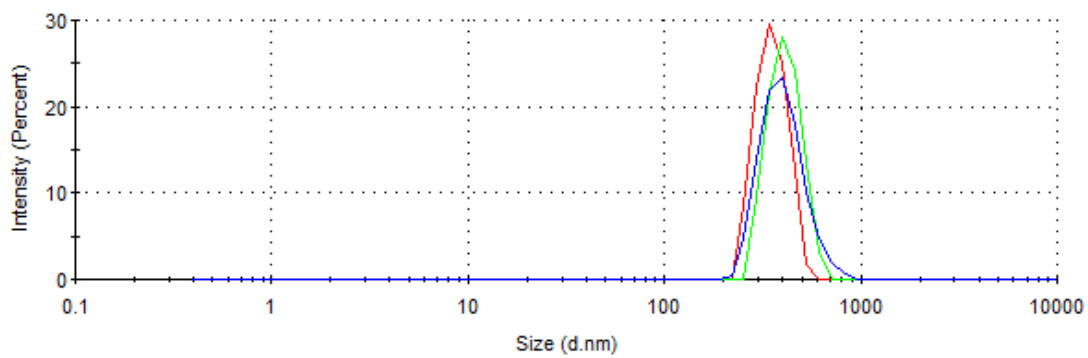


Figure S2. Size distribution by intensity of the nanoparticles CS/FUCe (1/4 ratio, w/w) using the extract of *Laminaria ochroleuca* obtained by autohydrolysis at 70 °C (a), 80 °C (b), 90 °C (c) and 100 °C (d).

Table S1. Polydispersity index (PDI) of the FUCe/CS and CS/FUCe nanoparticles produced with FUCe obtained at different temperatures (from 70 to 100 °C) and different ratios (4/1, 1/1 and 1/4). Data represent mean \pm standard deviation (SD) ($n \geq 3$).

Temperature	Ratio	PDI	
		FUCe/CS	CS/FUCe
70 °C	4/1	0.29 \pm 0.06	0.44 \pm 0.13
	1/1	0.44 \pm 0.01	0.36 \pm 0.11
	1/4	0.58 \pm 0.02	0.28 \pm 0.08
80 °C	4/1	0.35 \pm 0.03	0.49 \pm 0.07
	1/1	0.47 \pm 0.01	0.42 \pm 0.07
	1/4	0.49 \pm 0.02	0.40 \pm 0.01
90 °C	4/1	0.38 \pm 0.12	0.57 \pm 0.08
	1/1	0.57 \pm 0.06	0.60 \pm 0.10
	1/4	0.46 \pm 0.06	0.34 \pm 0.05
100 °C	4/1	0.40 \pm 0.01	0.69 \pm 0.10
	1/1	0.44 \pm 0.06	0.50 \pm 0.05
	1/4	0.49 \pm 0.10	0.37 \pm 0.07