



Figure S1. Linear plot of F_0/F versus [EGCG] and linear plot of $\log(F_0 - F)/F$ versus $\log [EGCG]$ (A, B) at 25 °C and (C, D) at 35 °C.

Table S1. Secondary structure fractions of EGCG-lysozyme/pectin nanoparticles at pH 7.0.

EGCG/Protein Ratio	0:1	1:1	2:1	4:1
α-helix (%)	21.0	23.4	29.3	34.5
β-sheet (%)	46.7	38.1	31.5	21.7
β-turn (%)	3.0	7.4	11.8	14.1
Random coil (%)	29.3	31.1	27.4	29.7

Table S2. Effect of EGCG/lysozyme molar ratio on ζ -potential and PDI of lysozyme/pectin nanoparticles after 0 h storage at room temperature.

Molar Ratio (EGCG: Protein)	LY: Ps = 1:1 NPs	
	ζ -Potential (mV)	PDI
0:1	-34.8 ± 0.04	0.125 ± 0.01
1:1	-28.5 ± 1.42	0.254 ± 1.28
2:1	-36.3 ± 0.12	0.141 ± 0.01
4:1	-35.7 ± 0.02	0.138 ± 0.01
8:1	-35.5 ± 0.02	0.142 ± 0.01
16:1	-36.1 ± 0.02	0.178 ± 0.02
32:1	-35.8 ± 1.39	0.189 ± 1.56
64:1	-35.1 ± 0.11	0.135 ± 0.01
128:1	-34.3 ± 1.87	0.133 ± 2.12

Table S3. Effect of EGCG/lysozyme molar ratio on ζ -potential and PDI of lysozyme/pectin nanoparticles after 24 h storage at room temperature.

Molar Ratio (EGCG: Protein)	LY: Ps = 1:1 NPs	
	ζ-Potential (mV)	PDI
0:1	-32.8 ± 0.02	0.141 ± 0.02
1:1	-24.5 ± 1.51	0.377 ± 1.51
2:1	-37.8 ± 0.04	0.153 ± 0.01
4:1	-36.2 ± 0.02	0.156 ± 0.02
8:1	-38.5 ± 0.02	0.152 ± 0.01
16:1	-35.7 ± 0.04	0.190 ± 0.15
32:1	-35.8 ± 1.39	0.205 ± 1.48
64:1	-32.1 ± 0.25	0.153 ± 0.02
128:1	-35.9 ± 1.05	0.155 ± 2.51