Supplementary Material

Figure S1: Schematic representation of the entire NPs' design

CS and Cys-CS at 25ºC

CS and Cys-CS at 37ºC

Figure S2: Pictures of the CS precipitation and the improved solubility of Cys-CS at alkaline pH (pH = 7.4).

Table S1: Standards' concentration and calculated area for the HPLC method for the determination of Galantamine.

SAMPLE	CONCENTRATION (PPM)	AREA (RT 4.58MIN)
STD_0.01	0.01	308
STD_0.05	0.05	1333
STD_0.1	0.1	2962
STD_0.5	0.5	14686
STD_1	1	25227
STD_2.5	2.5	55220
STD_5	5	123590
STD_10	10	259840
STD_20	20	471632
STD_50	50	1170996

Figure S3. Calibration curve for the HPLC method used to determine galantamine's content.