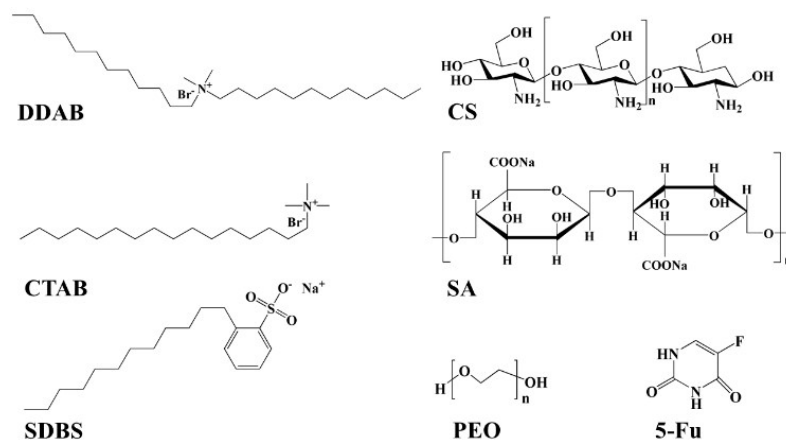


Formation of pH-responsive drug-delivery systems by electrospinning of vesicle-templated nanocapsules solutions

W. Li, * X. N. Tan, T. Luo, X. Huang, Q. Wang, * Y. J. Yang, M. J. Wang and L. F. Liu

Electronic Supplementary Information



Scheme S1. Chemical formulas for main studied reagents in this paper.

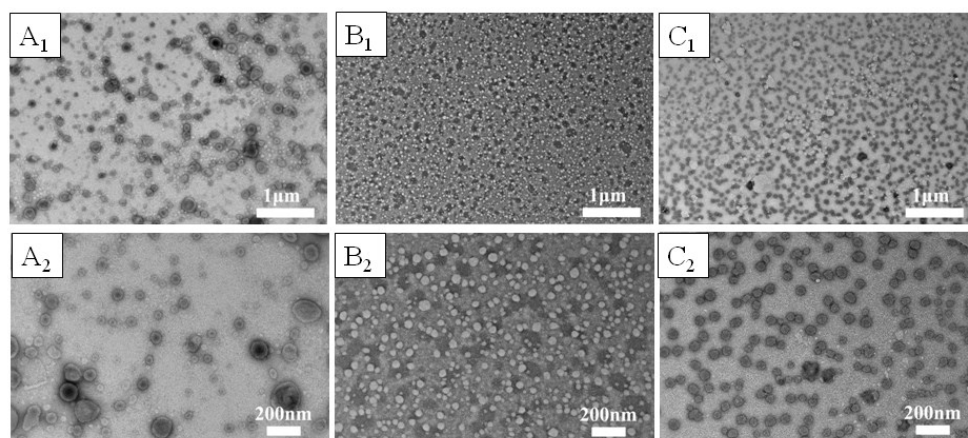


Fig. S1. TEM images of different vesicle systems: DDAB surfactant system (1000 μL of 10 mM DDAB dispersed in 10 mL H_2O , A_1 and A_2); CTAB/SDBS (7/3) surfactant system ($c_{\text{total}}=10$ mM, 1000 μL of 10 mM surfactant solution dispersed in 10 mL H_2O , B_1 and B_2); (3) CTAB/SDBS (3/7) surfactant system ($c_{\text{total}}=10$ mM, 1000 μL of 10 mM surfactant solution dispersed in 10 mL H_2O , C_1 and C_2).

According to TEM images in Fig. S1, the vesicles of each system are monodisperse enough (vesicles of CTAB/SDBS (7/3) is the most monodisperse) and the mean size of vesicles is 60 nm, 40nm and 45nm for DDAB, CTAB/SDBS (7/3) and CTAB/SDBS (3/7) surfactant system, respectively, corresponding to the average size of nanocapsules with vesicles as template.