Electronic supplementary information for “A reconstituted “two into one” thermosensitive hydrogel system assembled by drug-loaded amphiphilic copolymer nanoparticles for the local delivery of paclitaxel”

Weiwei Wang a, Liandong Deng a, Shuxin Xu a, Xiumei Zhao b, Nan Lv b, Guixian Zhang b, Na Gu b, Renjie Hu b, Jinjian Liu c, Jianhua Zhang a, Anjie Dong a*

a School of Chemical Engineering and Technology, Tianjin University, Tianjin, 300072, China.
b Tianjin Institute of Medical and Pharmaceutical Science, Tianjin, 300020, China.
c Institute of Radiation Medicine, Chinese Academy of Medical Science and Peking Union Medical College, Tianjin, 300192, China.

Fig. 1 The size and morphology of paclitaxel loaded PECT nanoparticles with a drug loading of 0.75%.

Fig. 2 The size of redispersed paclitaxel loaded PECT nanoparticles with a drug loading of 0.375% (A) and 0.75% (B).

Fig. 3 The $^1$H NMR spectrum (A) and GPC traces (B) of PECT freeze-dried powder stored at room temperature for different times.
Fig. 4 The size and size distribution of blank PECT nanoparticles (A), paclitaxel encapsulated PECT nanoparticles (B) (drug loading 2.3%) by redispersing corresponding freeze-dried powders in water, and the gelation time (C) of paclitaxel encapsulated PECT freeze-dried powders at 37 °C at different storage times.
Fig. 5 The size and morphology of PTX/PECT NPs in PTX/PECT\textsuperscript{Gel} solution after dilution to the concentration of 0.5% (w/w).