Self-assembled fluorescent PEI-PDLLA/DSPE-mPEG hybrid micelles-mediated collaborative lncRNA CCAT1 silencing and curcumin delivery for synchronous colorectal cancer theranostics

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Scheme. S1 (A) Synthesis route of PEI-PDLLA and (B) The structure of DSPE–mPEG2000.



Fig. S1 FT-IR spectrum of PEI and PEI-PDLLA.



Fig. S2 1H NMR spectrum of PEI and PEI-PDLLA (The deuterated chloroform (CDCl3) was used as solvent).



Table. S1 The influences of formulation parameters on the size, zeta potential and Cur drug encapsulation efficiency (EE) and loading content (LC).



Fig. S3 The average size of CSNP after maintained in PBS for different time intervals.



Fig. S4 Zeta potential of CSNP in PBS (pH = 7.4) at different time intervals.



Fig. S5 Cytotoxicity of PEI-PDLLA/DSPE-mPEG blank micelles.