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Support Information

Figure S1.¹H NMR spectrum of compound Diol-S-2EG.



Figure S2.¹H NMR spectrum of compound Diol-S-3EG.



Figure S3.¹H NMR spectrum of compound Diol-S-4EG.



Figure S4. ¹H NMR spectrum of compound MTC-S-2EG.



Figure S5. ¹H NMR spectrum of compound MTC-S-3EG.



Figure S6. ¹H NMR spectrum of compound MTC-S-4EG.



Figure S7. ¹H NMR spectrum of compound MTC-SO-2EG.



Figure S8. ¹H NMR spectrum of compound MTC-SO-3EG.



Figure S9. ¹H NMR spectrum of compound MTC-SO-4EG.



Figure S10. ¹³C NMR spectrum of compound MTC-SO-2EG.



Figure S11. ¹³C NMR spectrum of compound MTC-SO-3EG.



Figure S12. ¹³C NMR spectrum of compound MTC-SO-4EG.



Figure S13. ¹H NMR spectrum of compound PC-S-2EG.



Figure S14. ¹H NMR spectrum of compound PC-S-3EG.



Figure S15. ¹H NMR spectrum of compound PC-S-4EG.



Figure S16. ¹H NMR spectrum of compound PC-SO-2EG.



Figure S17. ¹H NMR spectrum of compound PC-SO-3EG.



Figure S18. ¹H NMR spectrum of compound PC-SO-4EG.



Figure S19. Plot of LCST as a function of the percentage of 4EG in copolymer (3 g/L in aqueous solution) of MTC-SO-4EG and MTC-SO-3EG.



Figure S20. Plot of LCST as a function of the percentage of 4EG in copolymer (3 g/L in aqueous solution) of MTC-SO-4EG and MTC-SO-2EG.



Figure S21. ¹H NMR spectra of PC-SO-4EG in D₂O at different temperature.



Figure S22. Temperature dependence of the diameter change for aqueoussolutions of PC (3g/L) with different ratio of 4EG and 3EG (square symbol: heating; circle symbol: cooling).



Figure S23. TEM image of PC-SO-4EG at 50 °C.