Supporting Information

Binary Catalytic System for Homo- and Block Copolymerization of ε-Caprolactone with δ-valerolactone

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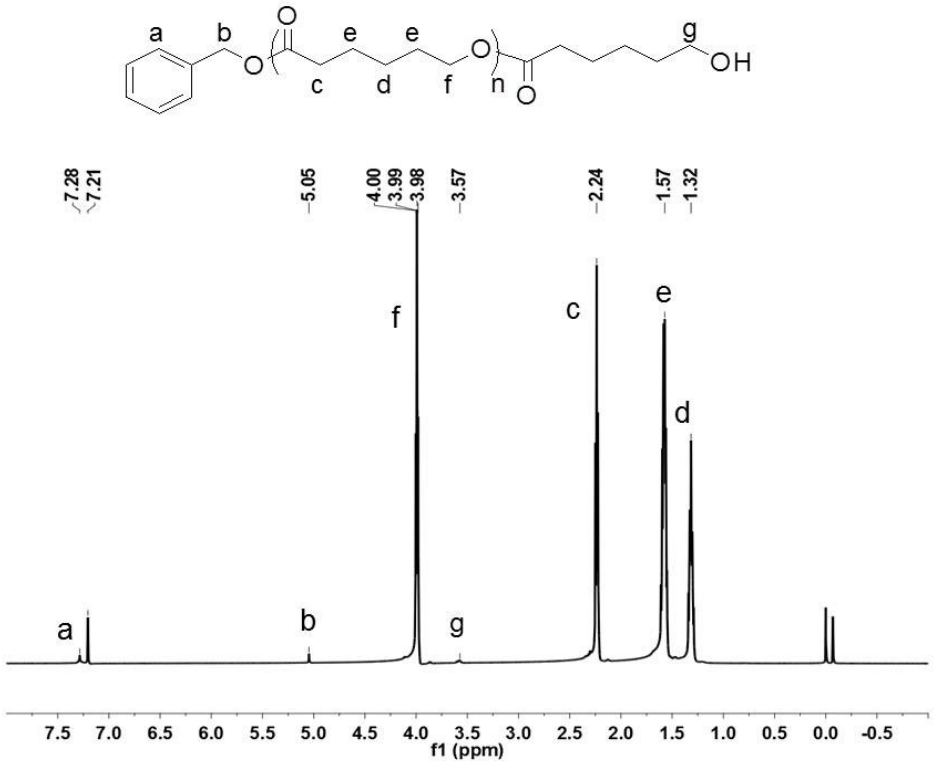


Fig. S1 ^{1}H NMR spectra of PCL.

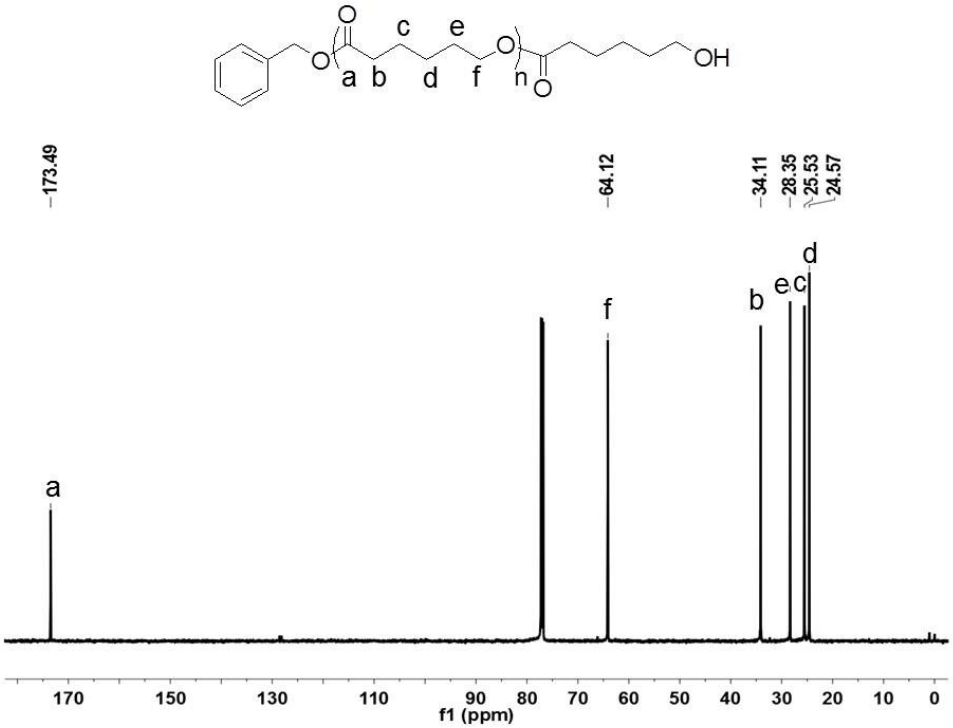


Fig. S2 ^{13}C NMR spectra of PCL.

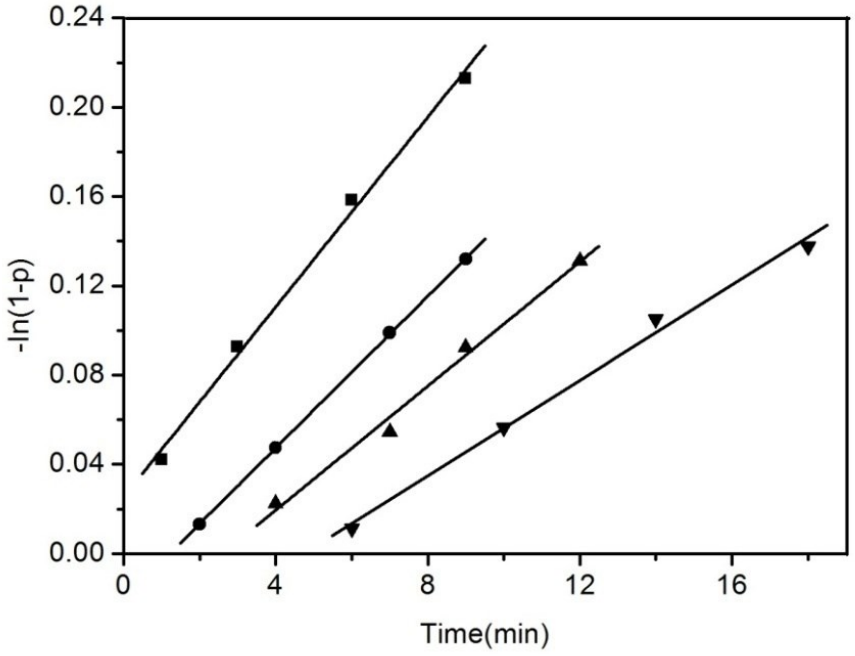
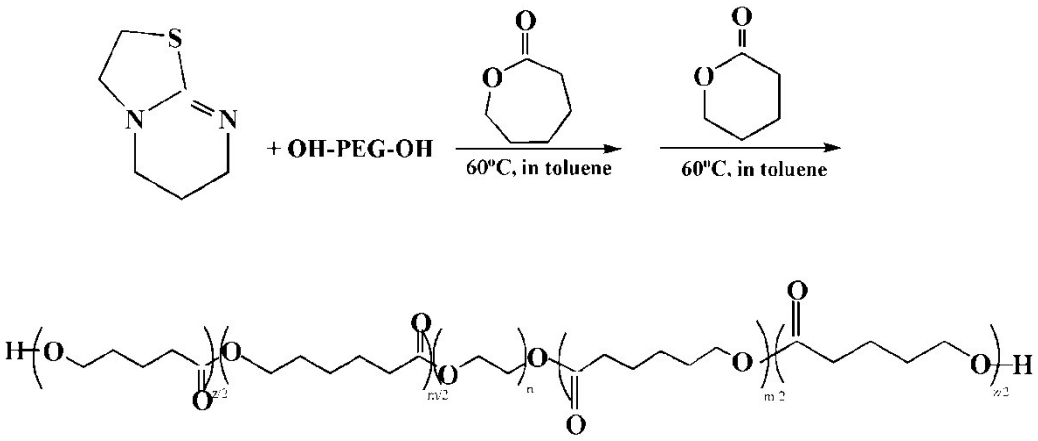


Fig. S3 –ln(1-p) as a function of time with different catalyst concentration.

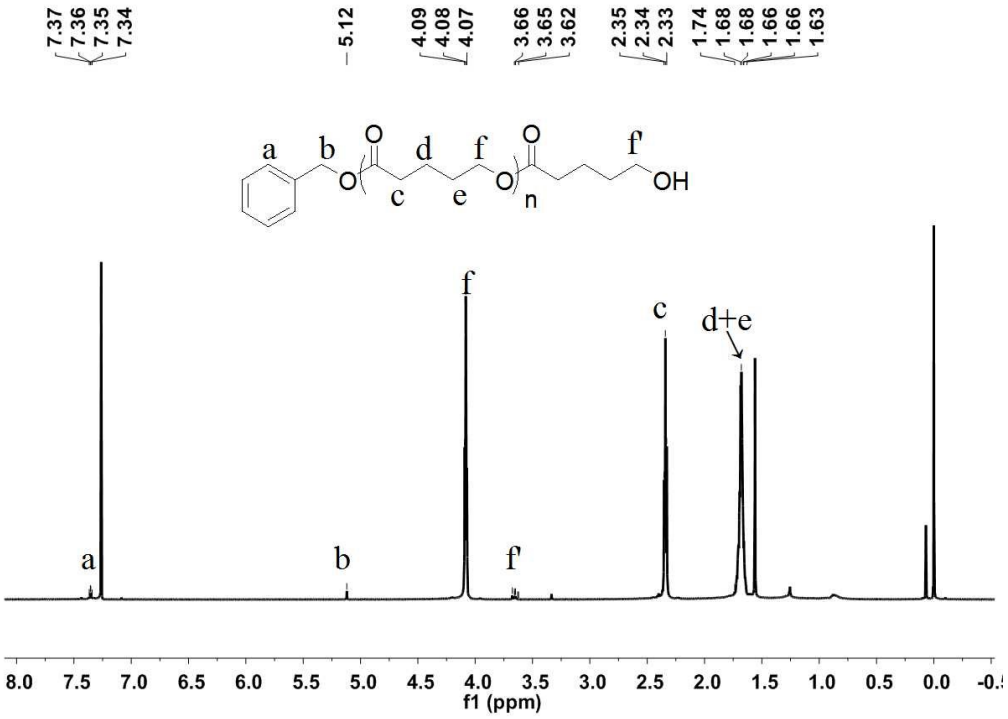
Conditions: [CL] = 2.0 mol/L, [ITU]/[YCl_3] = 1:1, [CL]/[BnOH] = 100:1, 25°C, in toluene.

■[C] = 12.5 × 10^{-3} mol/L ● [C] = 10 × 10^{-3} mol/L

▲[C] = 8.33 × 10^{-3} mol/L ▼ [C] = 6.67 × 10^{-3} mol/L



Scheme S1 Synthesis of PVL-PCL-PEG-PCL-PVL pentablock copolymer.



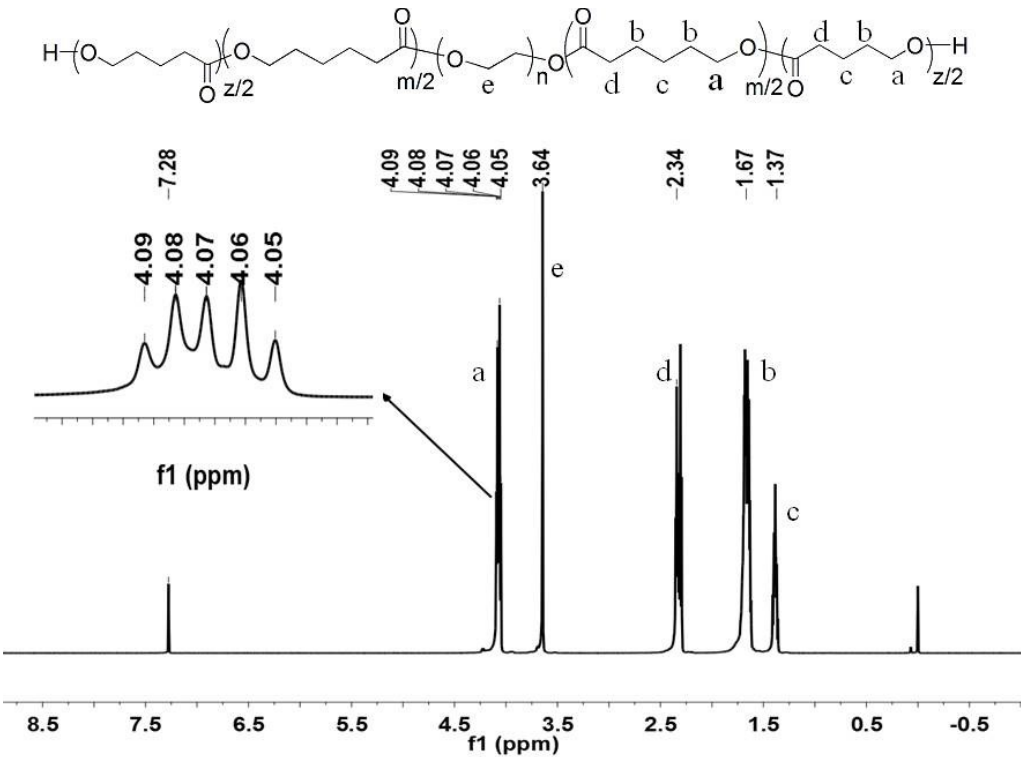
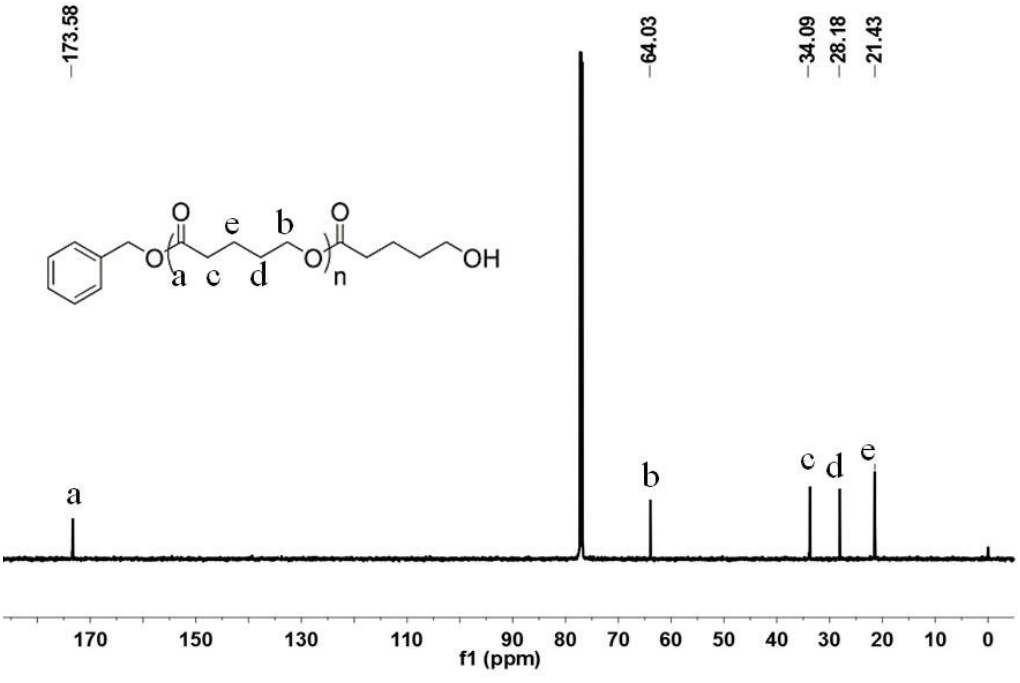


Fig. S4 ^{1}H NMR spectra of PVL, PCL and PVL-PCL-PEG-PCL-PVL.



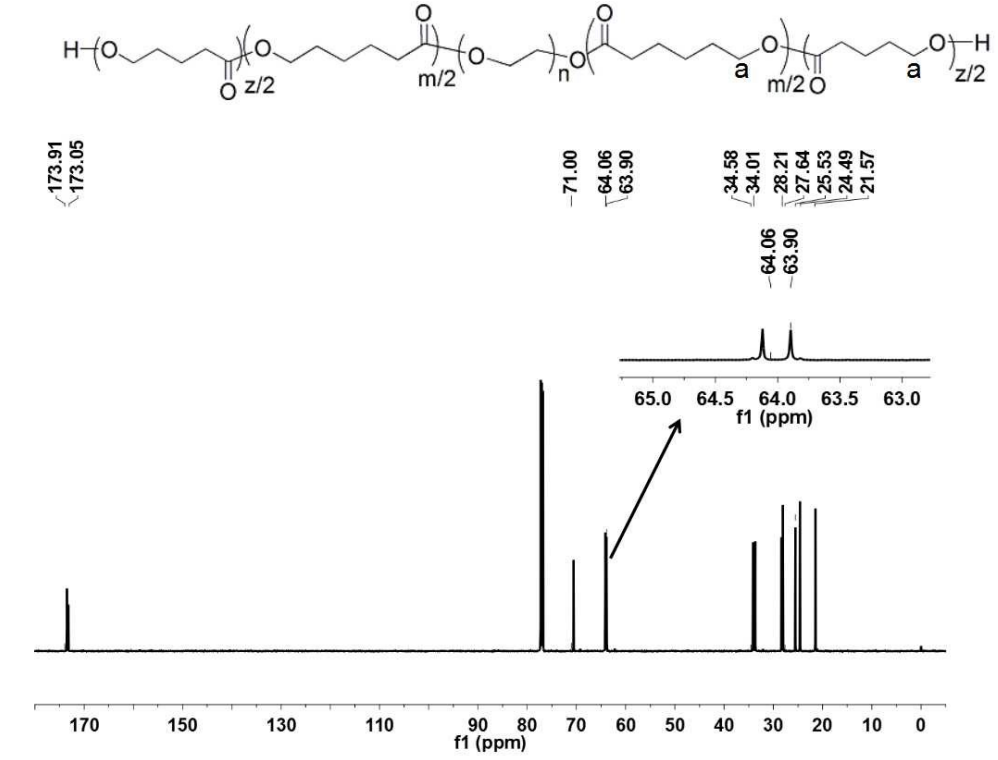


Fig. S5 ^{13}C NMR spectra of PVL, PCL and PVL-PCL-PEG-PCL-PVL.