

Supplementary Information

Monoamidinate Titanium complexes: Highly Active Catalysts for the Polymerization and Copolymerization of L-Lactide and ϵ -Caprolactone.

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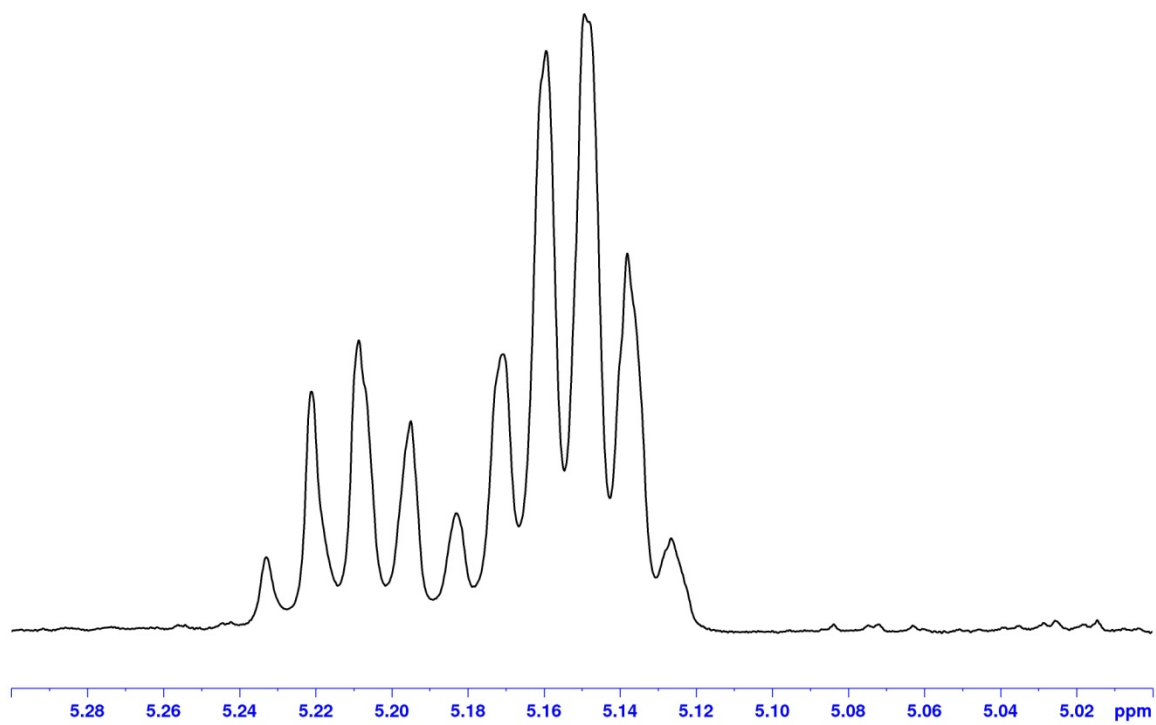
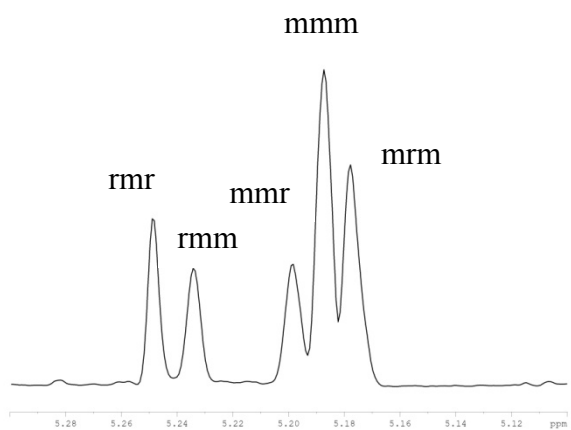


Figure S1. Methine regions ($\delta=5.00\text{--}5.30\text{ppm}$) of the ^1H and homodecoupled NMR spectra (600 MHz, CDCl_3 , 298 K) of the PLA sample obtained by **3**.

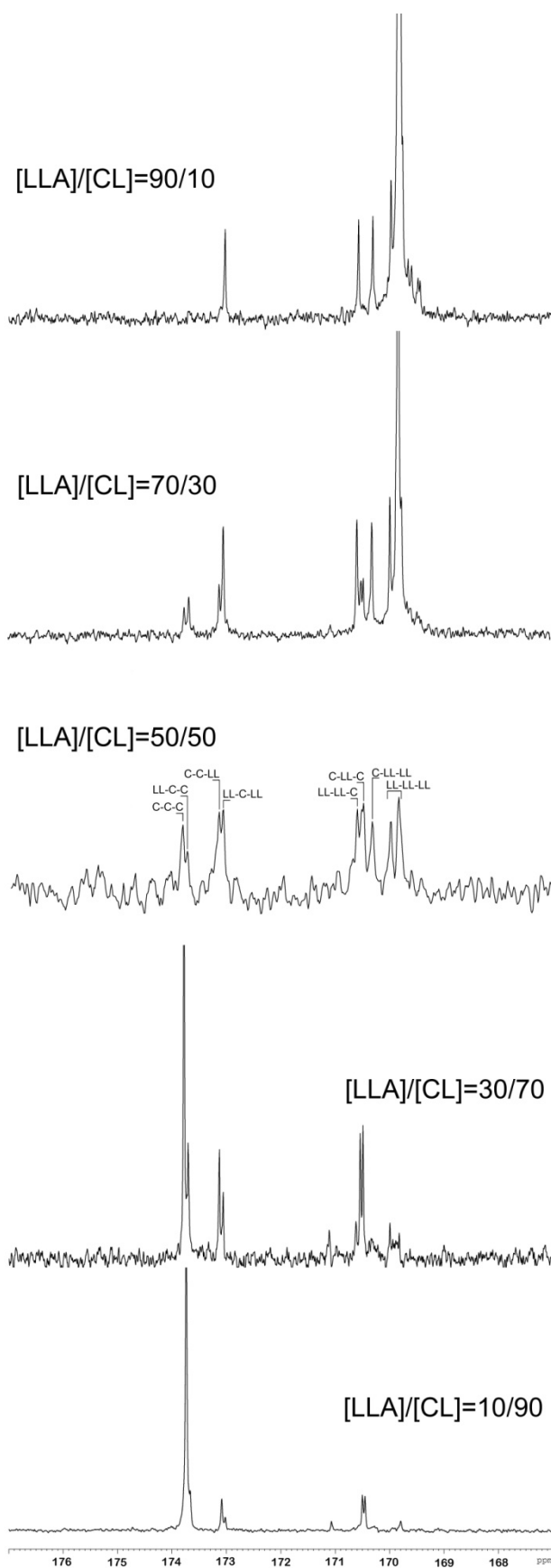


Figure S2. ^{13}C NMR spectra (CDCl_3 , 25°C) of PCL-co-PLLA copolymers by **3** and triad assignments. C represents the CL unit and L is the lactyl unit.

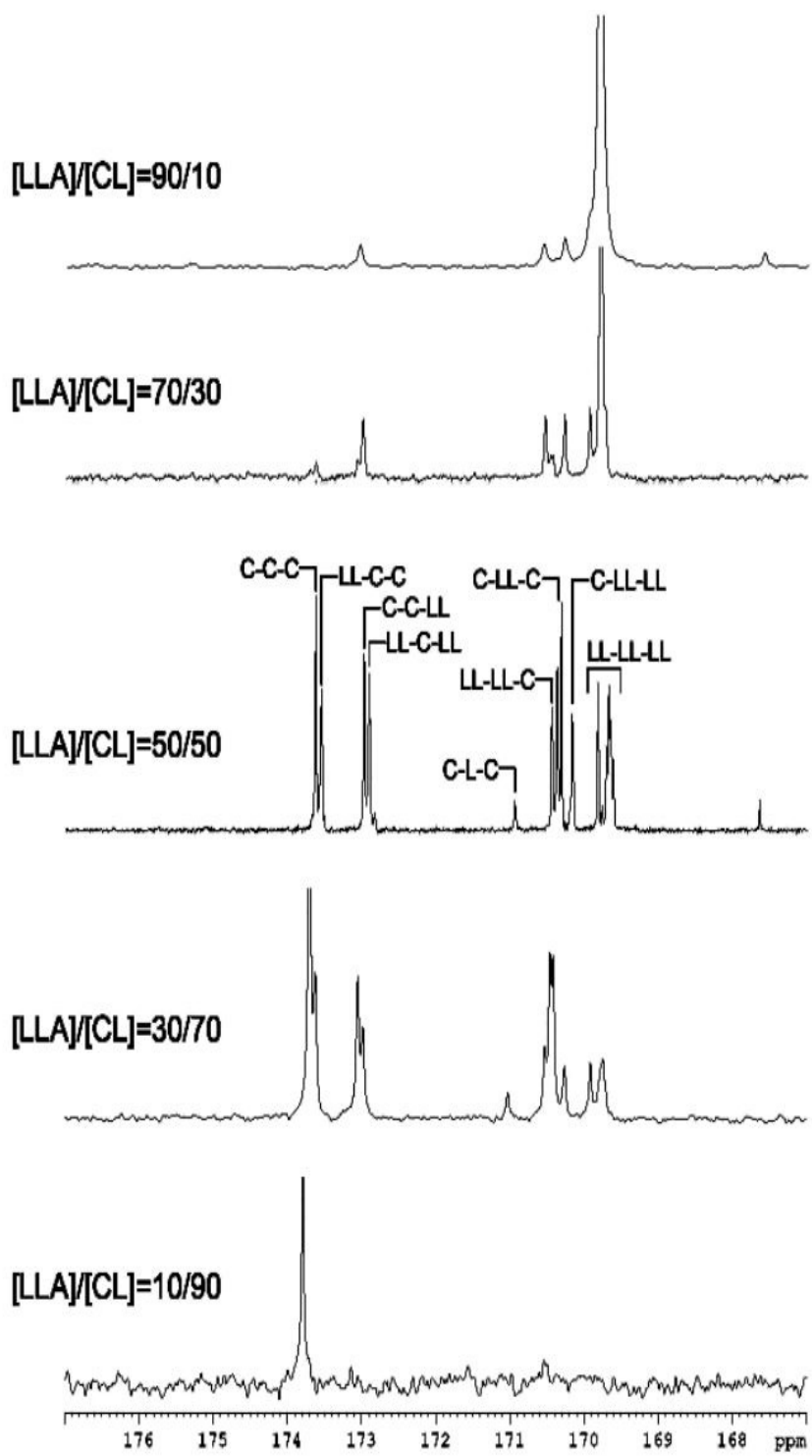


Figure S3. ^{13}C NMR spectra (CDCl_3 , 25°C) of PCL-co-PLLA copolymers by **1** and triad assignments. C represents the CL unit and L is the lactyl unit.

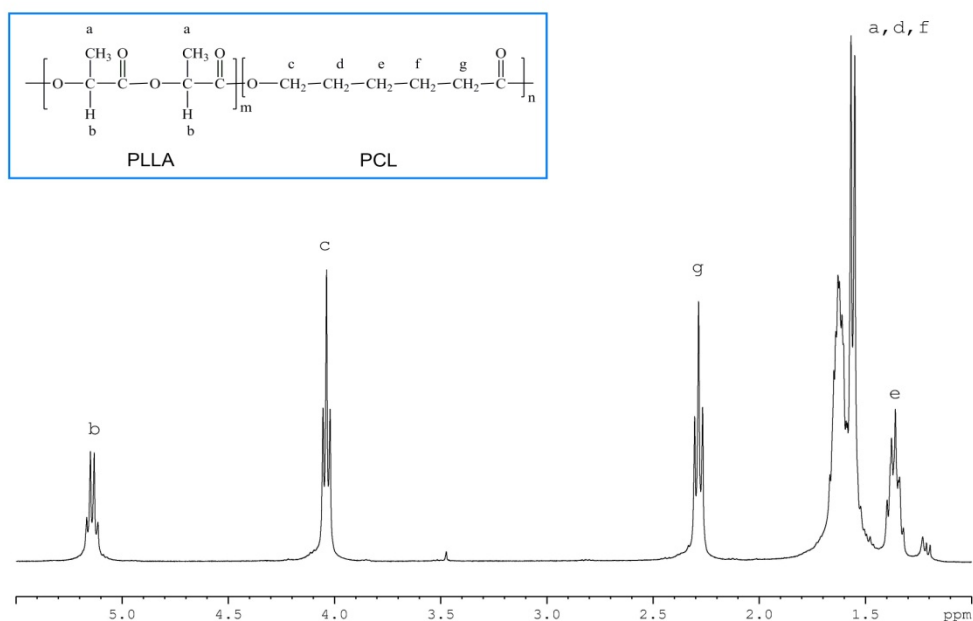


Figure S4. ^1H NMR spectrum (600 MHz, CDCl_3 , 298 K) of PCL-block-PLLA copolymer by **3**.

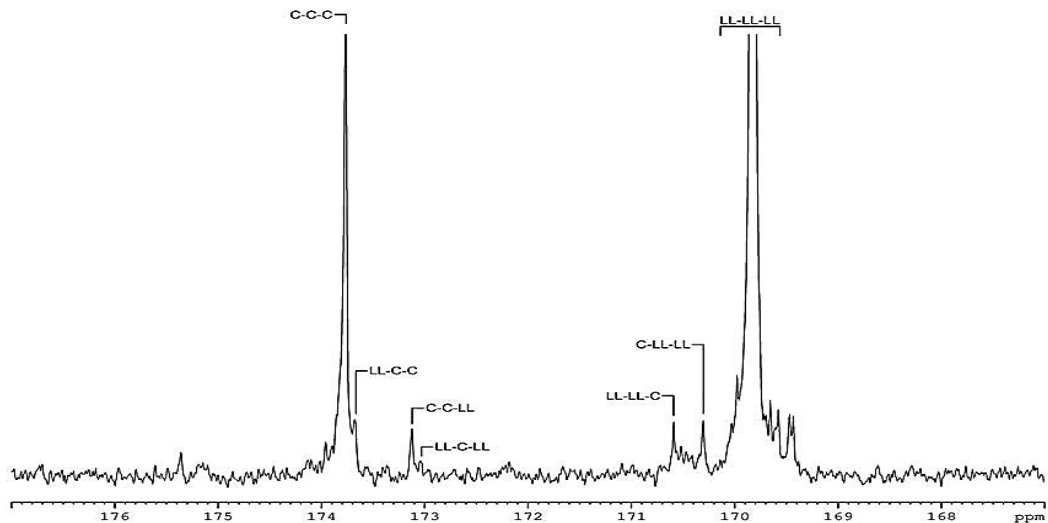


Figure S5. ^{13}C NMR spectrum (150 MHz, CDCl_3 , 298 K) of PCL-block-PLLA copolymer by **3**.

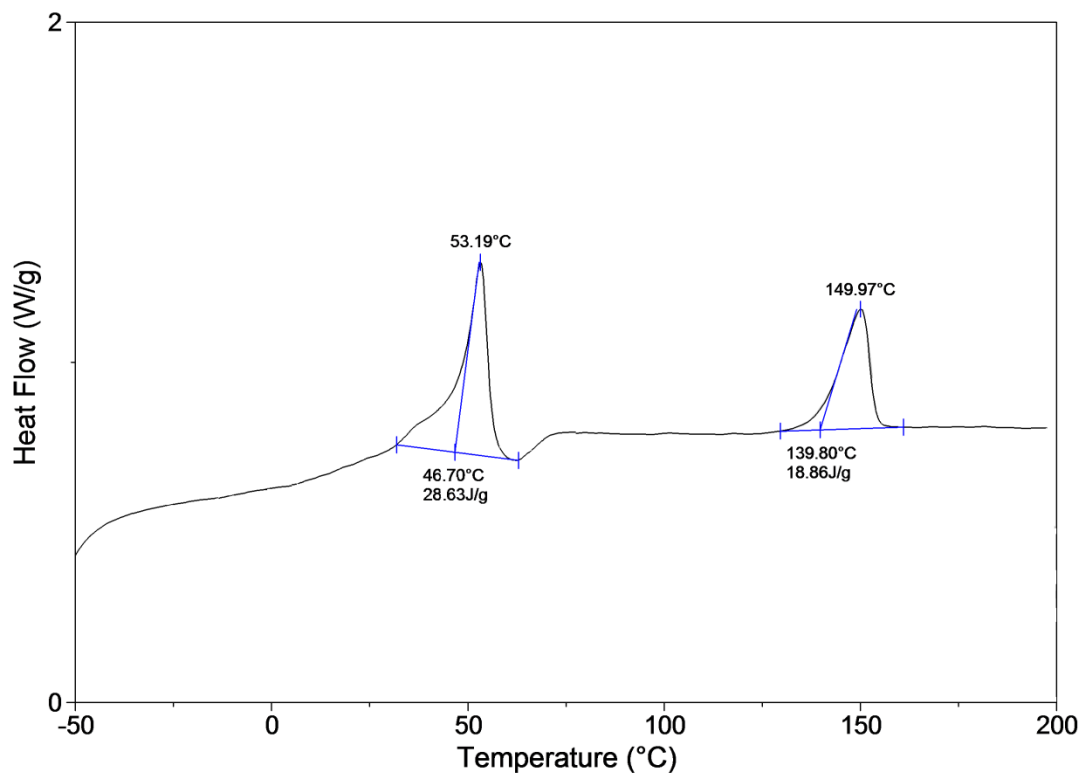


Figure S6. DSC thermogram (second heating cycle, 10°C/min) of the copolymer PCL-b-PLLA obtained with complex **3**.

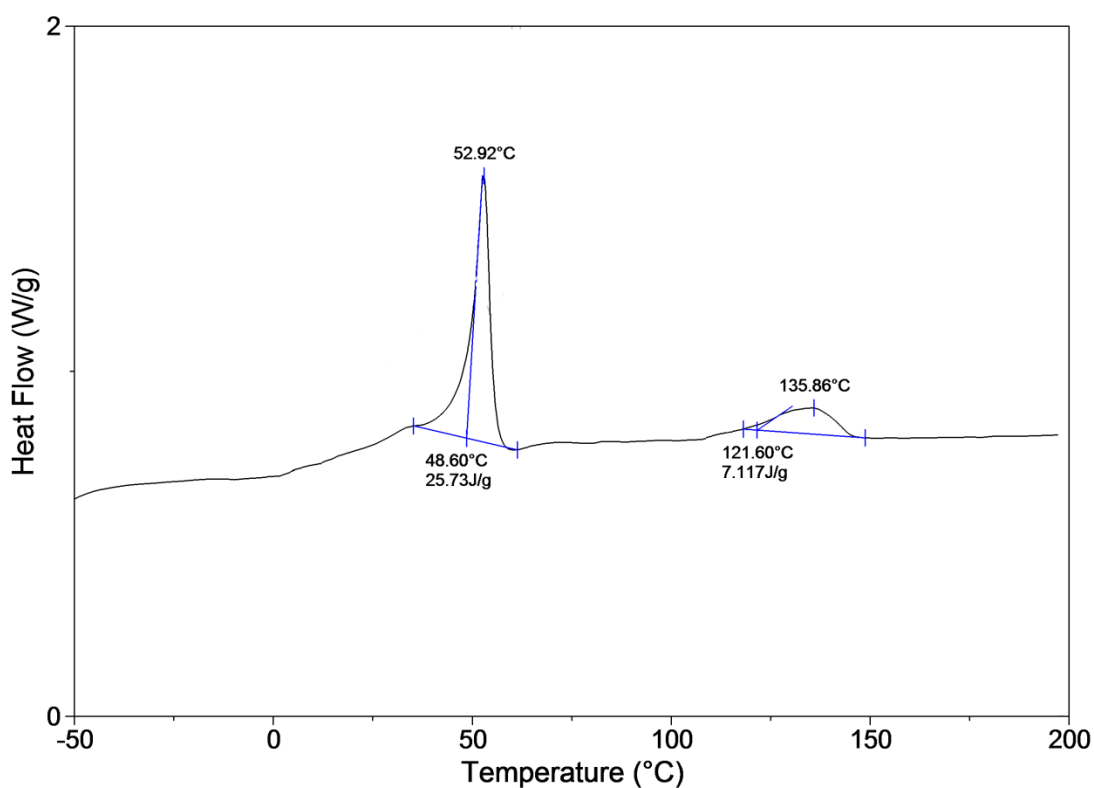


Figure S7. DSC thermogram (second heating cycle, 10°C/min) of the copolymer PCL-b-PLLA obtained with complex **1**.

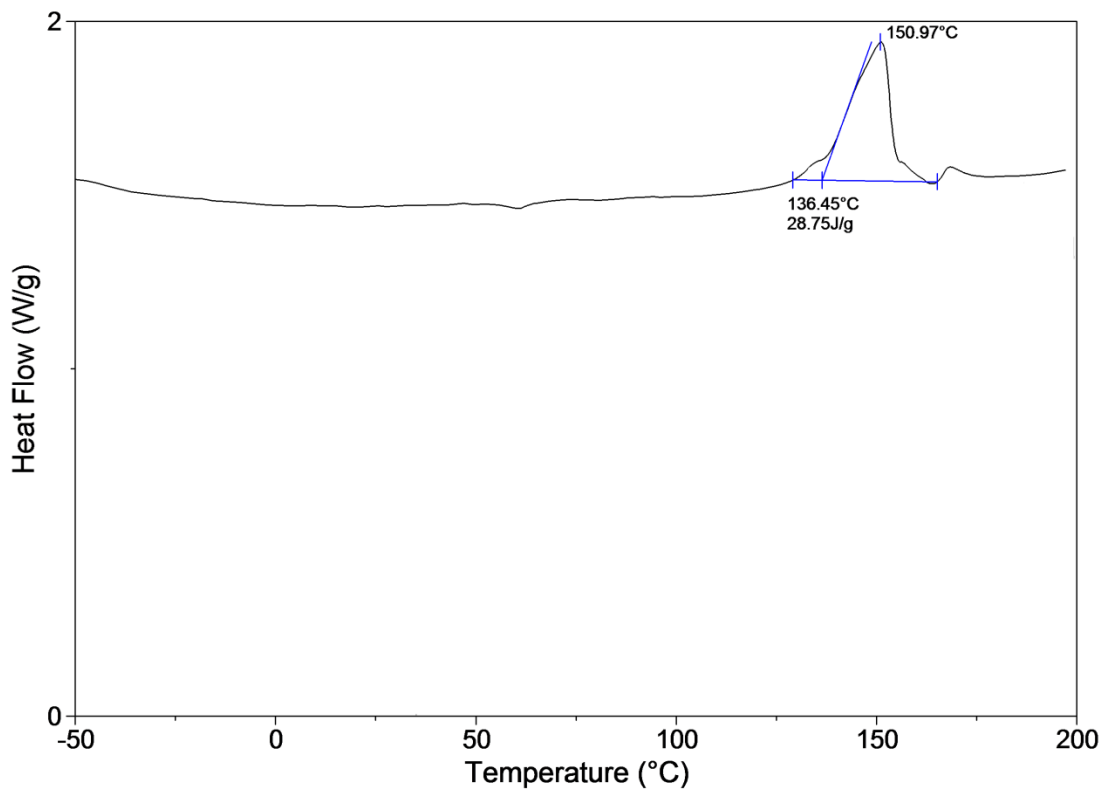


Figure S8. DSC thermogram (second heating cycle, 10°C/min) of the copolymer PLLA-b-PCL obtained with complex 3.

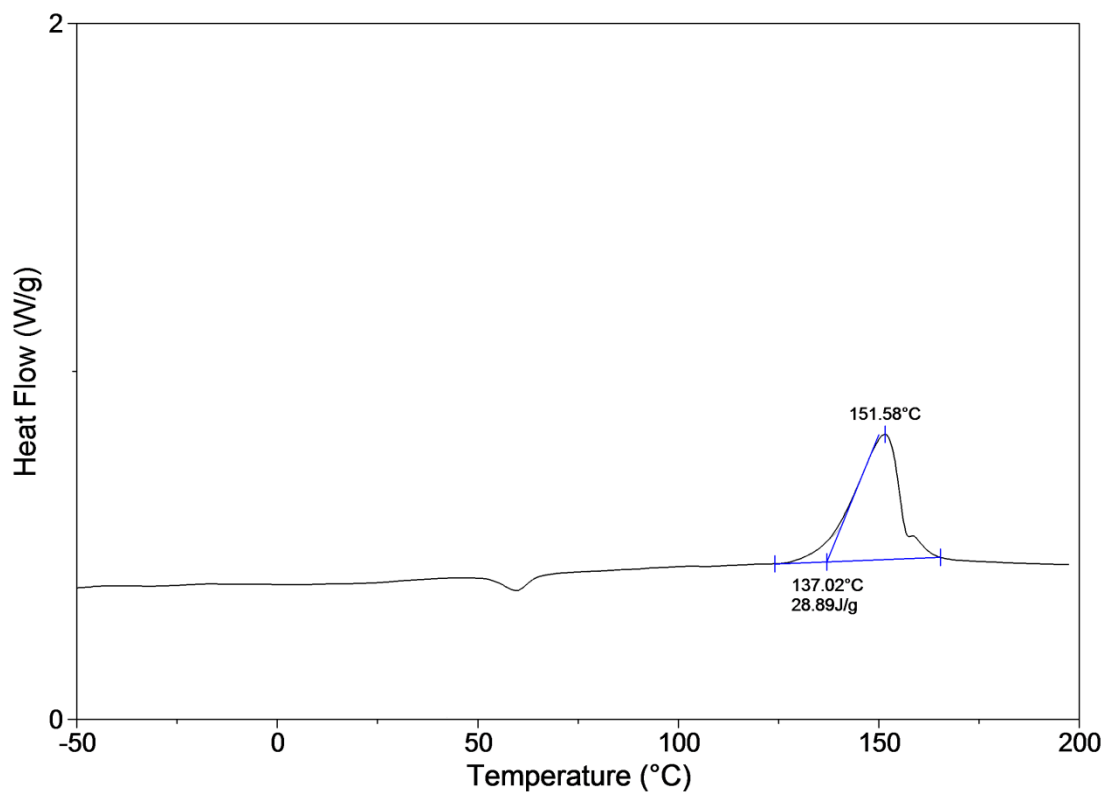


Figure S9. DSC thermogram (second heating cycle, 10°C/min) of the copolymer PLLA-b-PCL obtained with complex 1.

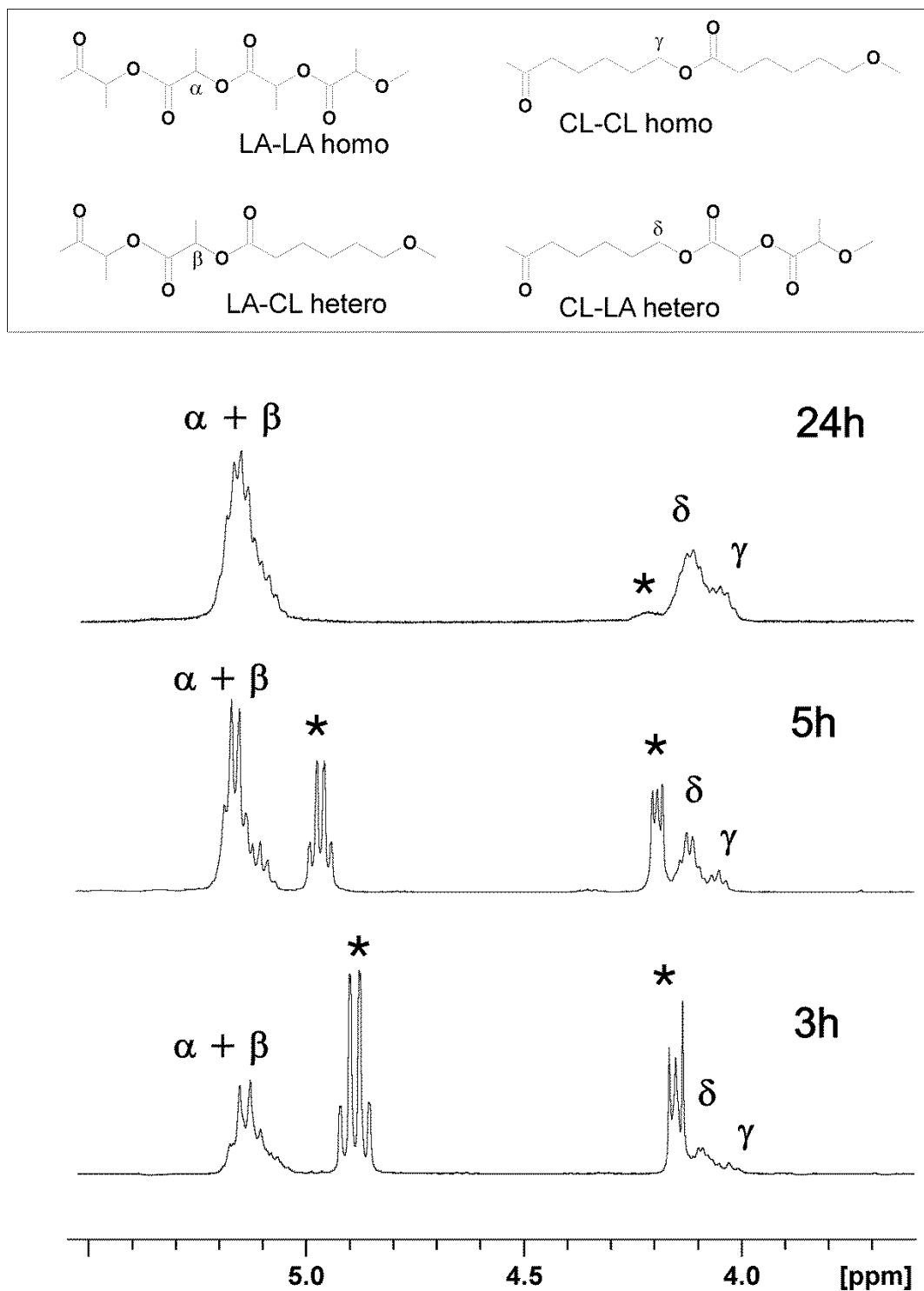


Figure S10. ^1H NMR spectra (300 MHz, CDCl_3 , 25 $^\circ\text{C}$) at 3, 5 and 24h of the reaction mixture of run 29 of Table 4. * unreacted monomer.