Electronic Supplementary Material (ESI) for RSC Advances.

Supplemental information

High Tm linear poly(L-lactide)s prepared via alcohol-initiated ROPs of L-lactide

Hans R. Kricheldorf[a], Steffen. M. Weidner[b] and Andreas Meyer[c]

a) Institut für Technische und Makromolekulare Chemie der Universität Hamburg, Bundesstr. 45, D-20146 Hamburg.

b) BAM, Bundesanstalt für Materialforschung und -prüfung, Richard Willstätter Straße 11, 12489 Berlin.

c) Institut für Physikalische Chemie der Universität Hamburg, Grindelallee 117, D-20147 Hamburg

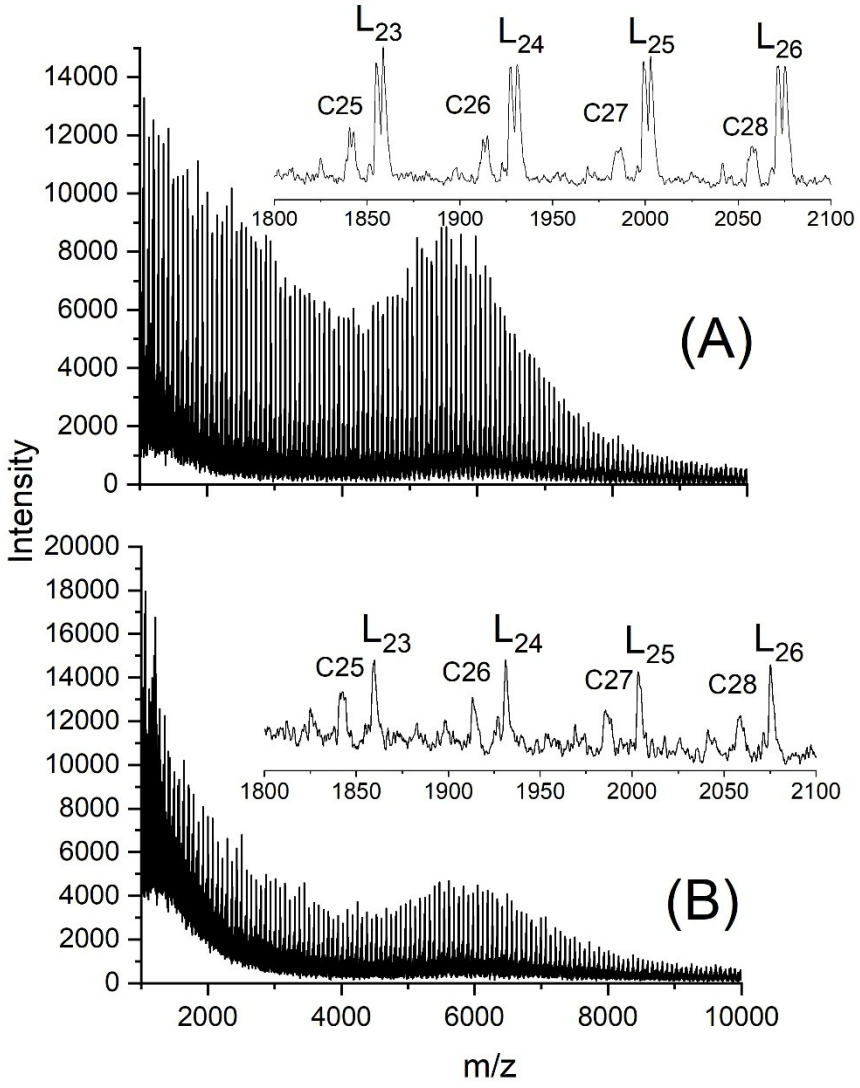

Figure S1. MALDI TOF mass spectra of polyLAs polymerized with SnBiph and 1-hydroxymethylnaphthalene at 160°C: (A) LA/Cat = 100/1 (No. 6,Table 2), (B) LA/Cat = 200/1 (No. 7, Table 2)

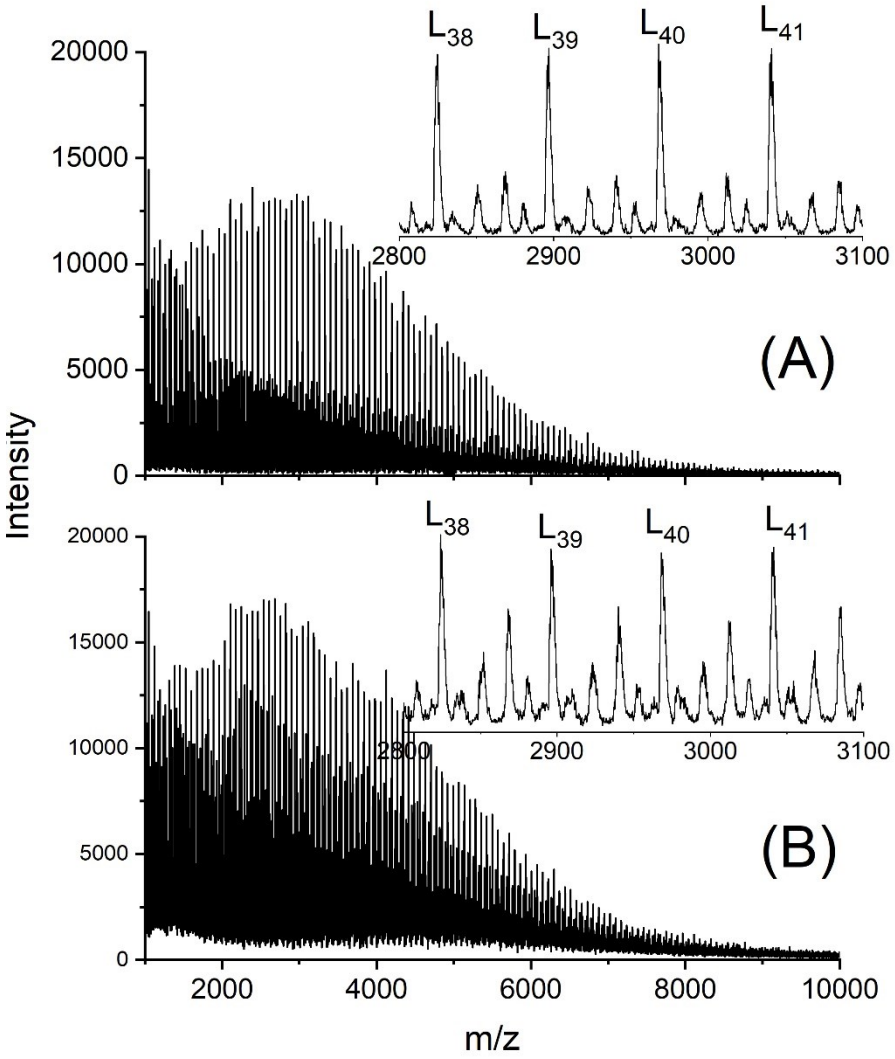

Figure S2. MALDI TOF mass spectra of polyLAs polymerized with ethyl L-lactate as initiator at 160°C: (A) SnNaph as catalyst (No. 11, Table 1), (B) BuSnNaph as catalyst (No. 6, Table 1)

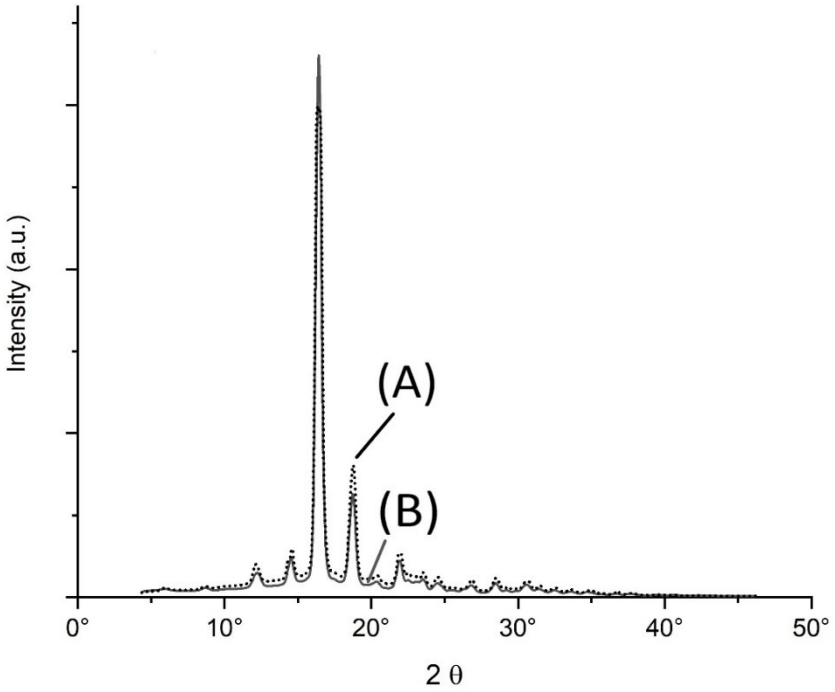

Figure S3. WAXS powder patterns of polyLAs polymerized with ethyl L-lactate as initiator at 130°C in bulk: (A) with SnBiph as catalyst (No. 4. Table 5), (B) with $SnOct_2$ as catalyst (No. 8, Table 5)

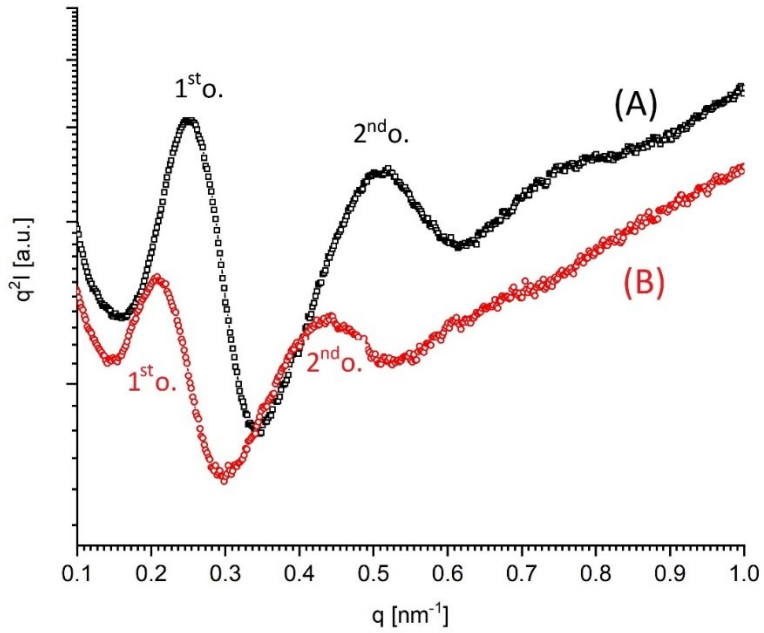

Figure 4. SAXS powder patters (Kratky plots) of polyLAs polymerized with SnBiph at 160°C/3d: (A) ethyl L-lactate as initiator, LA/ In = 300/1 (No. 2, Table 2), (B) 11-undecenol as initiator, LA/In = 100/1 (No. 4, Table 2)