Supporting information for:

Highly Efficient Magnesium Initiators for Lactide Polymerization

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**Figure 1.** $^1$H NMR spectra (300 MHz) of L$^3$ ligand in benzene-d$_6$ (a), of compound 1 in benzene-d$_6$ (b), of L-LA living oligomer obtained by 1 and L-LA in toluene-d$_8$ (c) and purified oligomer in benzene-d$_6$(d). The meanings of the distinguished signals are as follows: m – monomer, p – polymer, s – solvent, impurities are denoted by asterix.
Figure 2. $^1$H NMR spectra (300 MHz) of L$^2$ ligand in CDCl$_3$ (a), of compound 2 in CDCl$_3$ (b), of L-LA living oligomer obtained by 2 and L-LA in toluene-d$_8$ (c) and purified oligomer in tolene-d$_8$(d). The meanings of the distinguished signals are as follows: m – monomer, p – polymer, s – solvent, impurities are denoted by asterix.