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Supporting Information for

Effects of solvents, additives, and π -allyl ligand structures on the polymerization behavior of diazoacetates initiated by π -allylPd complexes

Hiroaki Shimomoto*, Moemi Nakajima, Akihiro Watanabe, Hirokazu Murakami, Tomomichi Itoh, and Eiji Ihara*

Department of Materials Science and Biotechnology, Graduate School of Science and Engineering, Ehime University, 3

Bunkyo-cho, Matsuyama 790-8577, Japan

Phone & Fax: +81-89-927-8547, E-mail: ihara@ehime-u.ac.jp (E.I)

Phone & Fax: +81-89-927-9949, E-mail: shimomoto.hiroaki.mx@ehime-u.ac.jp (H.S)

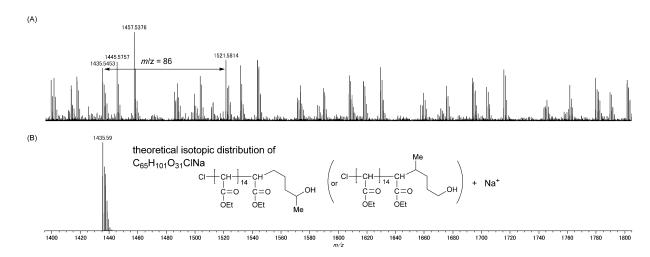


Figure S1. Part of the MALDI-TOF-MS spectrum of the polymer obtained by the polymerization of EDA in 2-MeTHF (A, run 8 in Table 1) and theoretical isotopic distribution of a Na-adduct of the polymer bearing Cl and ring-opened 2-MeTHF at the α - and ω -chain ends, respectively (B).

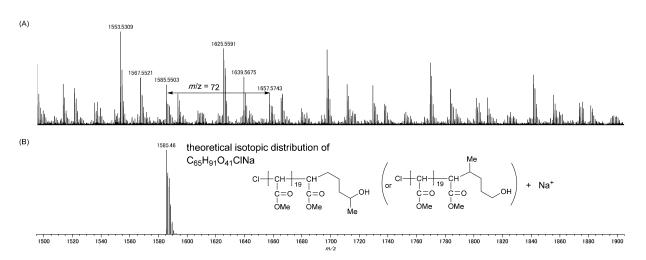


Figure S2. Part of the MALDI-TOF-MS spectrum of the polymer obtained by the polymerization of MDA in 2-MeTHF (A) and theoretical isotopic distribution of a Na-adduct of the polymer bearing Cl and ring-opened 2-MeTHF at the α - and ω -chain ends, respectively (B).

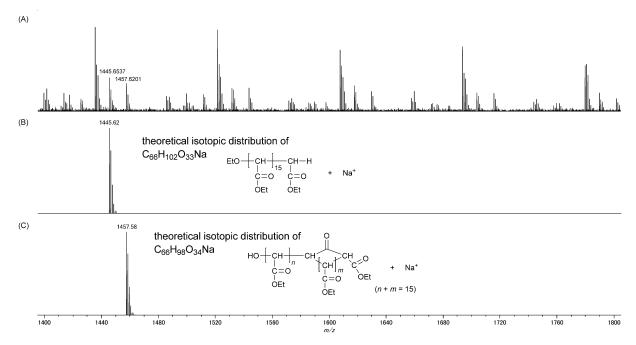


Figure S3. Part of the MALDI-TOF-MS spectrum of the product obtained by the polymerization of EDA in 3-MeTHF (A, run 9 in Table 1), theoretical isotopic distributions of a Na-adduct of the polymer (DP = 16) bearing EtO and H at the α - and ω -chain ends, respectively (B), and theoretical isotopic distributions of a Na-adduct of the HO-initiated polymer (DP = 16) terminated by backbiting (C).

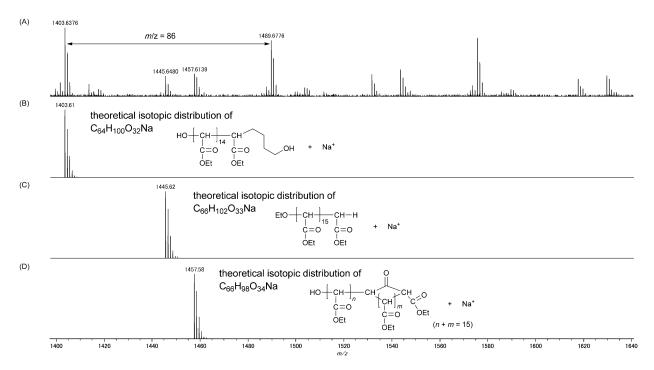


Figure S4. Part of the MALDI-TOF-MS spectrum of the product obtained by the polymerization of EDA with **10** as a catalyst (A, run 6 in Table 4), theoretical isotopic distributions of a Na-adduct of the polymer (DP = 15) bearing HO and ring-opened THF at the α - and ω -chain ends, respectively (B), theoretical isotopic distributions of a Na-adduct of the polymer (DP = 16) bearing EtO and H at the α - and ω -chain ends, respectively (C), and theoretical isotopic distributions of a Na-adduct of the HO-initiated polymer (DP = 16) terminated by backbiting (D).

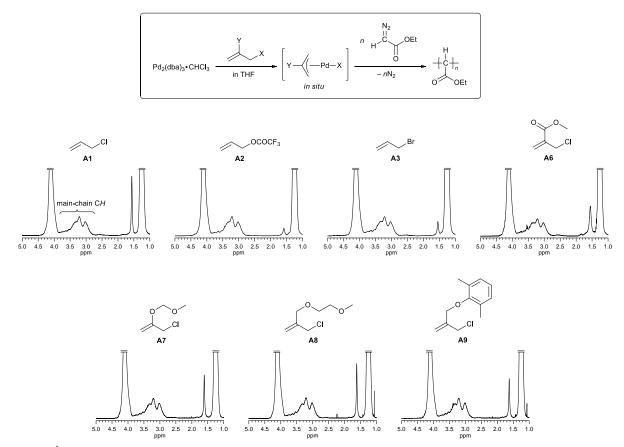


Figure S5. ¹H NMR spectra of the EDA polymers obtained with Pd₂(dba)₃·CHCl₃/allyl compound systems.