

## Supplementary Information

# Lipase catalyzed ring-opening polymerization of benzyl malolactonate: an unusual mechanism?

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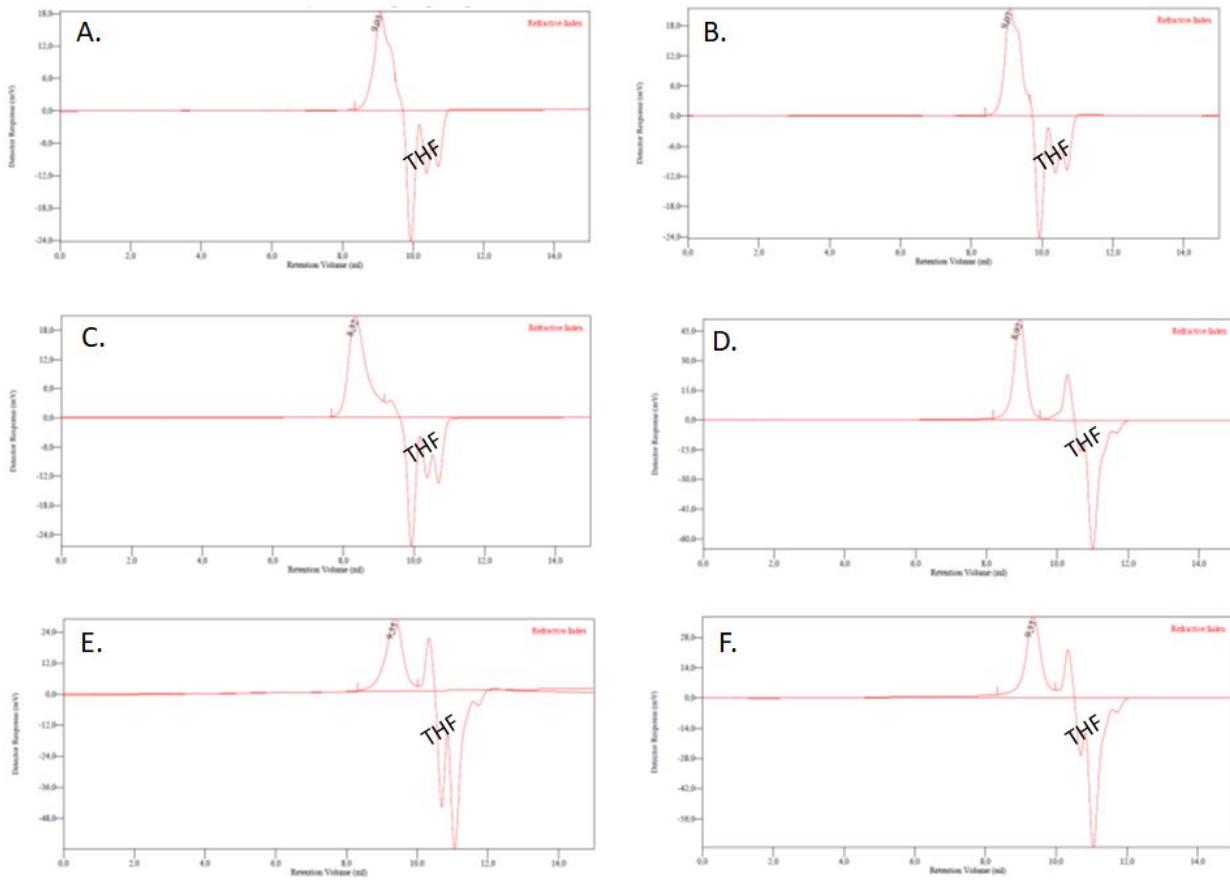


Figure SI.1. SEC chromatograms (THF, Polystyrene standards, 1 mL/min, 40°C) of: A. MLABe + Imidazolium/benzyl alcohol (Table 2, Entry *i*); B. MLABe + Imidazolium (Table 2, Entry *ii*); C. MLABe + Imidazole (Table 2, Entry *v*); D. MLABe + Imidazole  $1.7 \times 10^{-4}$  eq. (Table 2, Entry *v*). E. MLABe + CpLip2 + Tris HCl buffer pH7 (Table 3). F. MLABe + CpLip2\_180A + Tris HCl buffer pH7 (Table 3).

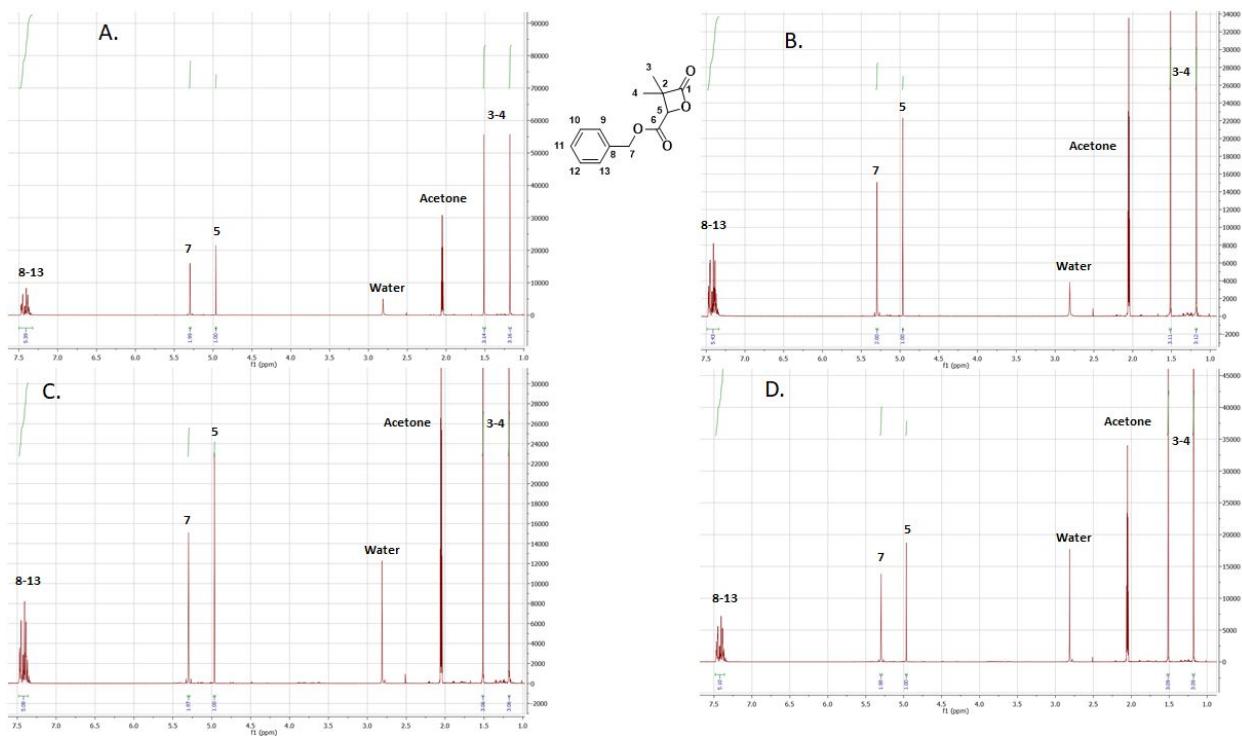


Figure SI.2.  $^1\text{H}$  NMR ( $\text{CD}_3\text{COCD}_3$ , 400MHz) of: A. Pure diMeMLABe, B. Crude product after reaction of diMeMLABe and PPL for 72h at 60°C, C. Crude product after reaction of diMeMLABe and CpLip2 for 72h at 60°C, and D. Crude product after reaction of diMeMLABe and Imidazole for 72h at 60°C.