

Supporting Information □□□□□□□□

Use of a *N*-Hetero Cyclic Carbene (NHC)-Based Interacting Lewis Pair for Synthesis of a Cyclic Poly(alkyl acrylate) via Chain-Growth Polymerization and Subsequent Ring-Closing Without Extreme Dilution

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Running Head: Interactive Lewis Pair for a Cyclic Poly(alkyl acrylate)

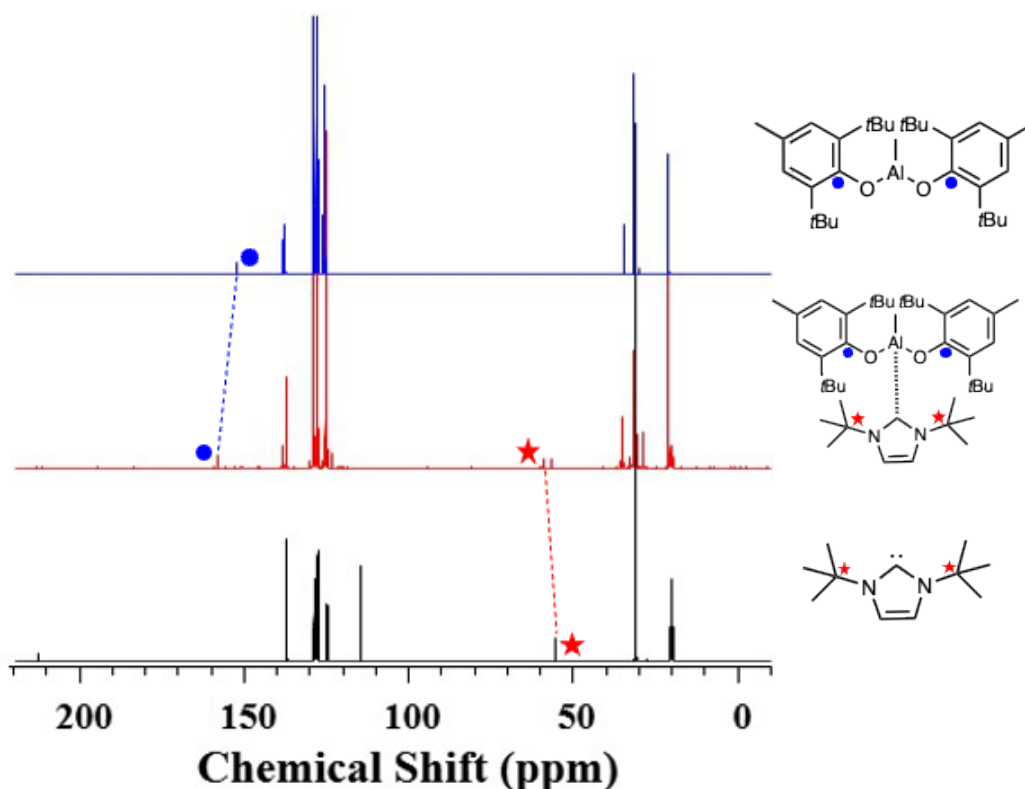


Figure S1. ^{13}C -NMR spectrum of ILP formation between NHC*t*Bu and MAD.

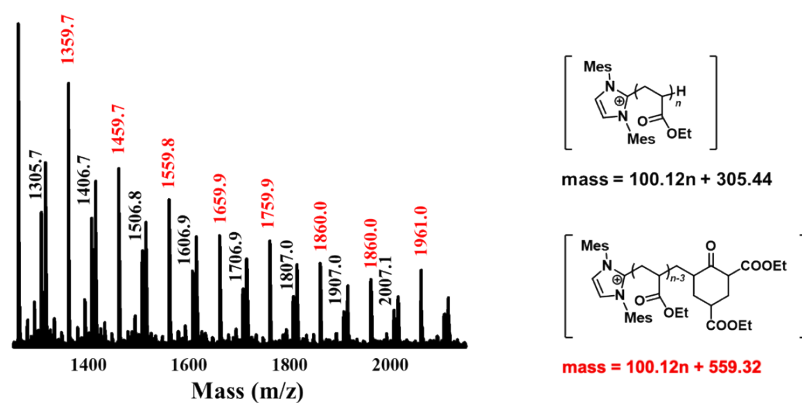


Figure S2. MALDI-TOF mass spectrum of poly(EA) (run 1 in Table 3).

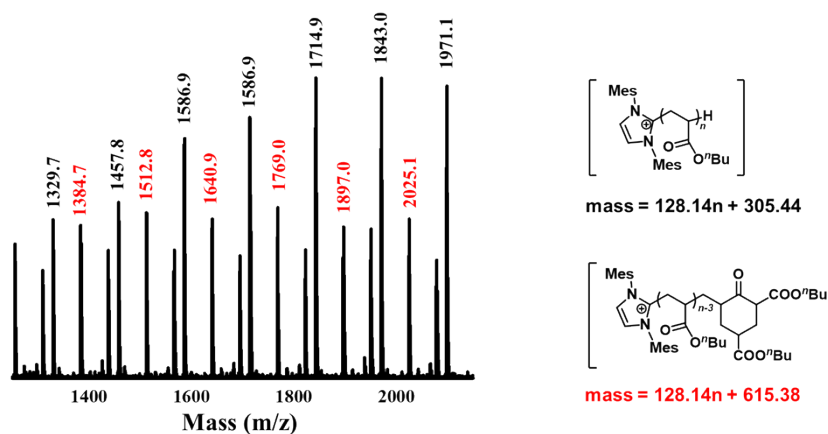


Figure S3. MALDI-TOF mass spectrum of poly(*n*-BA) (run 2 in Table 3).

run 1 in Table 3

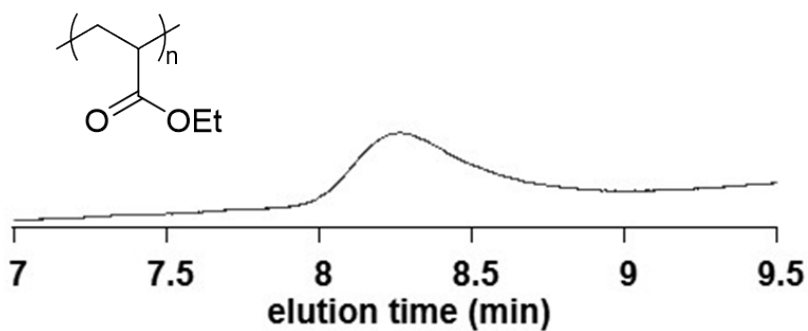


Figure S4. SEC curve of poly(EA) initiated by NHCMeS (run 1 in Table 3).

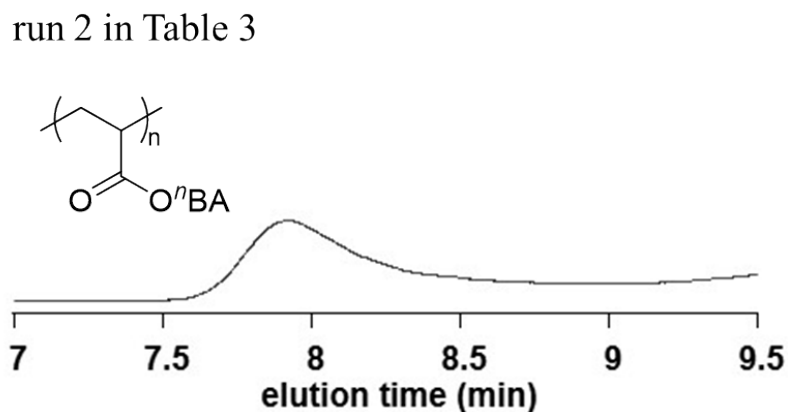


Figure S5. SEC curve of poly(*n*-BA) initiated by NHCMeS (run 2 in Table 3).

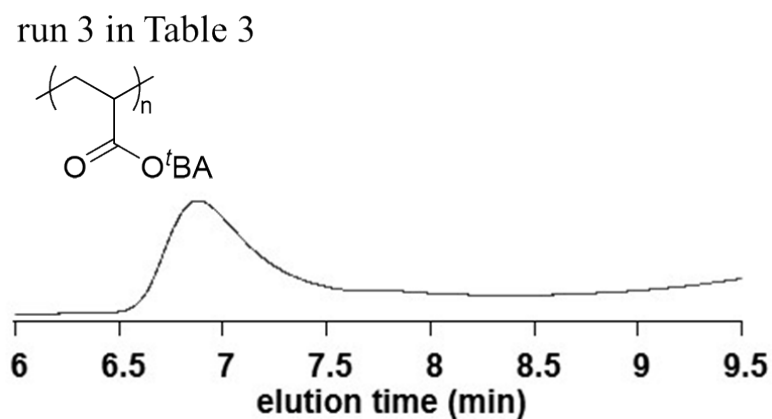


Figure S6. SEC curve of poly(*t*-BA) initiated by NHCMeS (run 3 in Table 3).

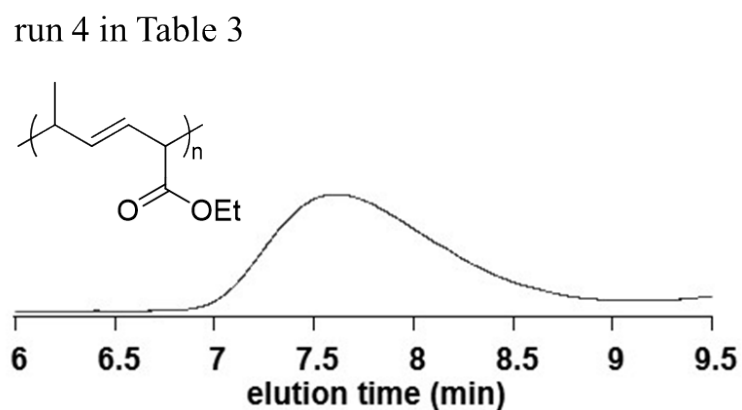


Figure S7. SEC curve of poly(ES) initiated by NHCMeS (run 4 in Table 3).

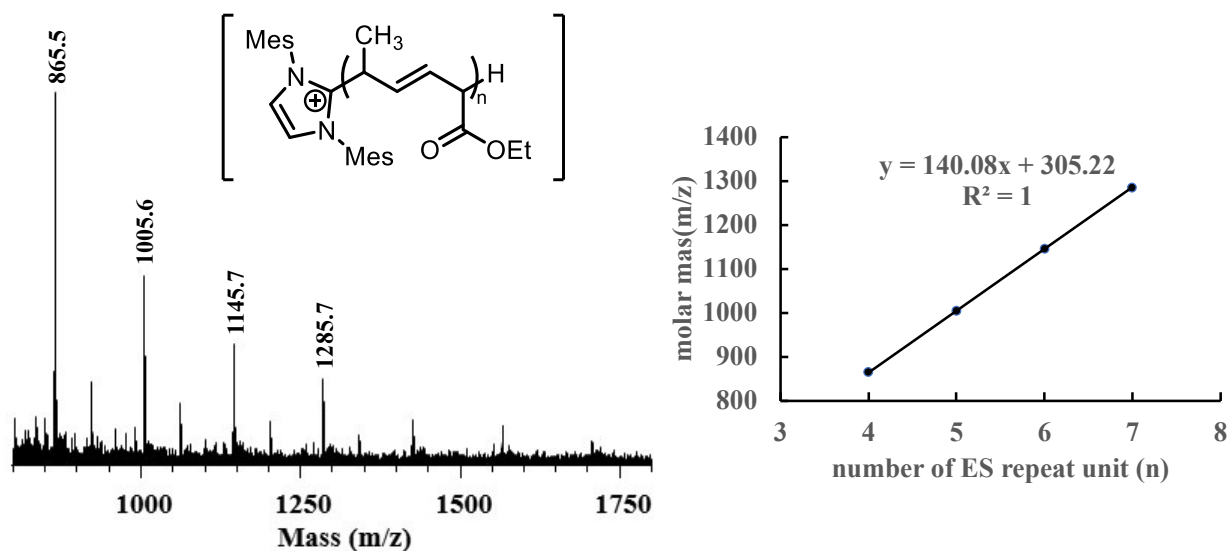


Figure S8. MALDI-TOF mass spectrum of poly(ES) initiated by NHCMeS (run 4 in Table 3).

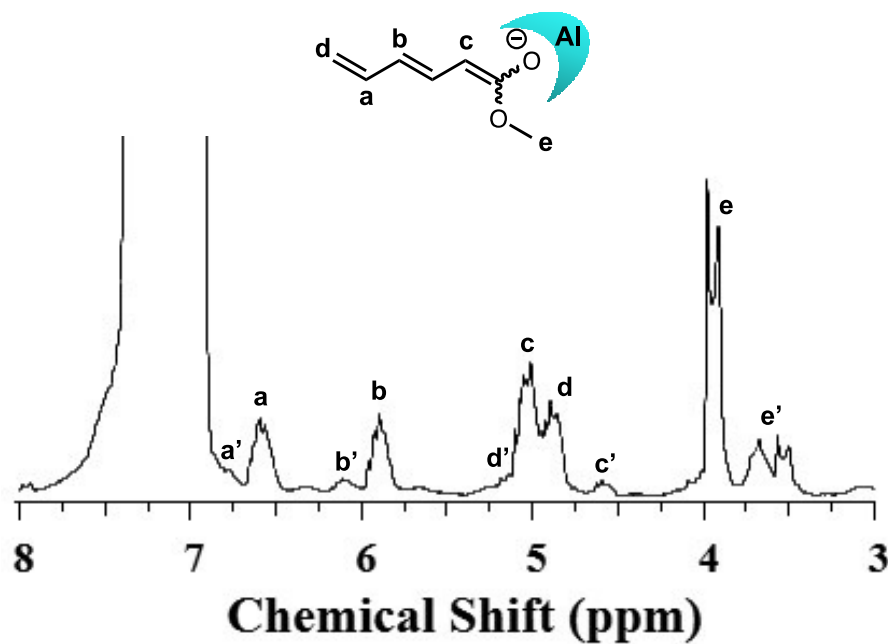


Figure S9. ¹H-NMR spectrum of 1:1 mixture of NHCtBu and MS prepared by toluene-d₈.

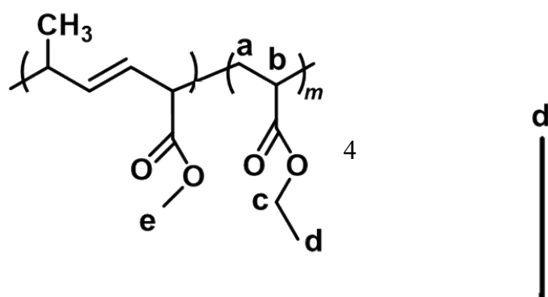


Figure S10. $^1\text{H-NMR}$ spectrum of poly (EA) in CDCl_3 (run 1, Table 4).

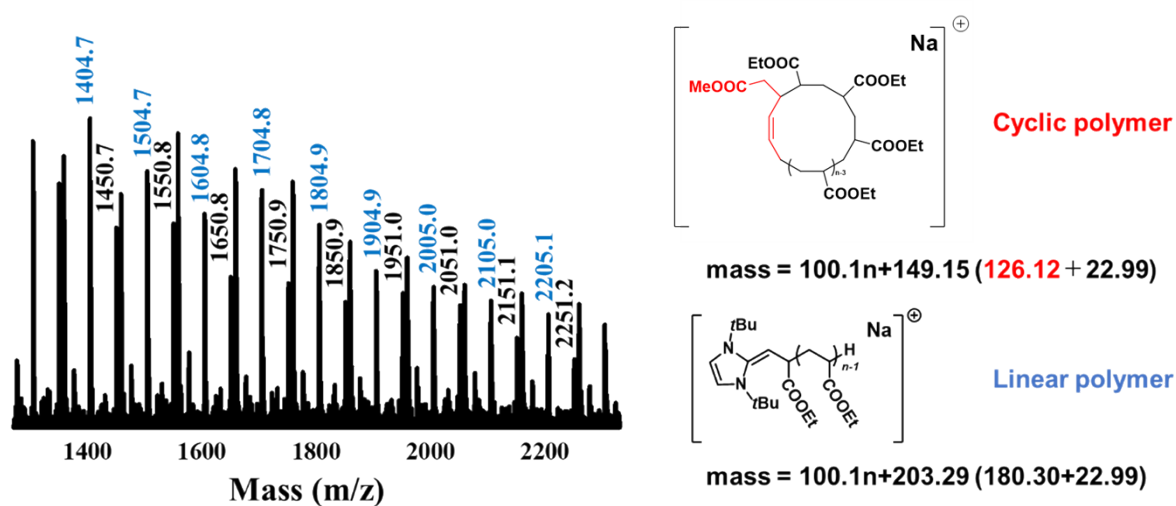


Figure S11. MALDI-TOF mass spectrum of poly(EA) (run 1, Table 4).

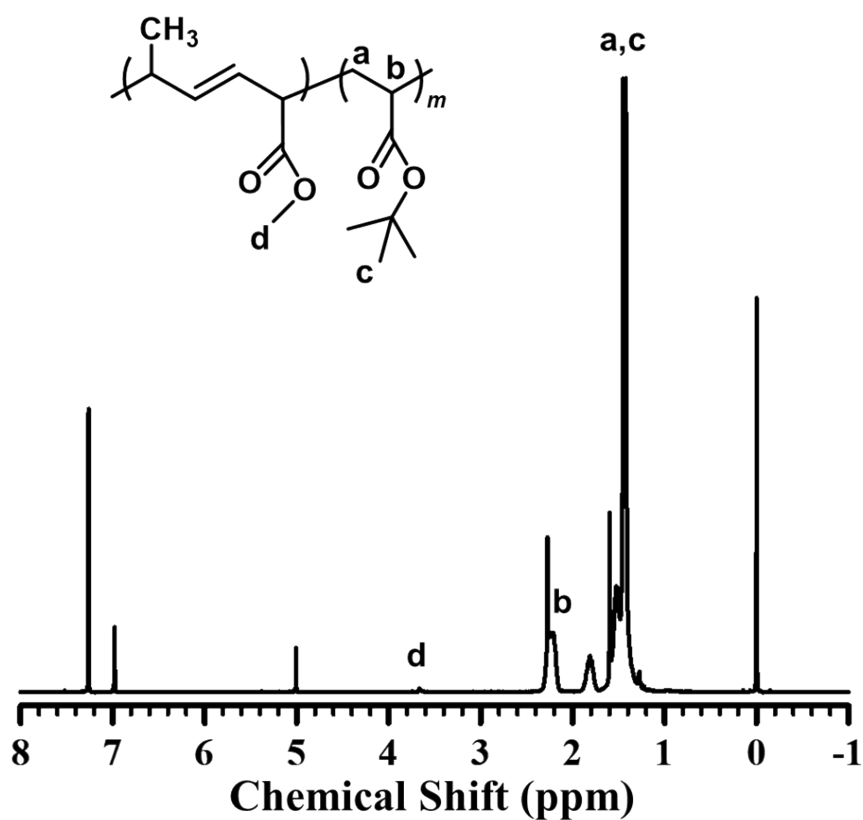


Figure S12. $^1\text{H-NMR}$ spectrum of poly(*t*-BA) in CDCl_3 (run 6, Table 4).

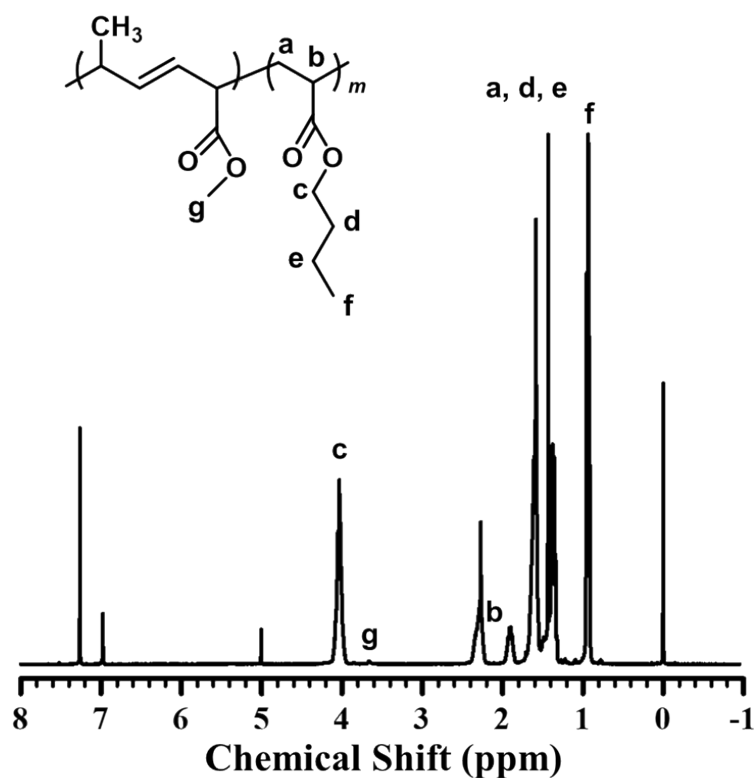


Figure S13. $^1\text{H-NMR}$ spectrum of poly(*n*-BA) in CDCl_3 (run 8, Table 4).

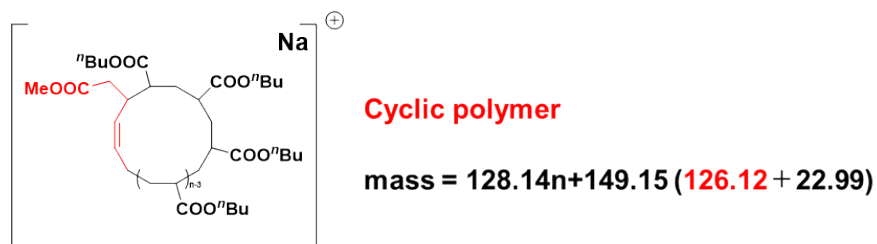
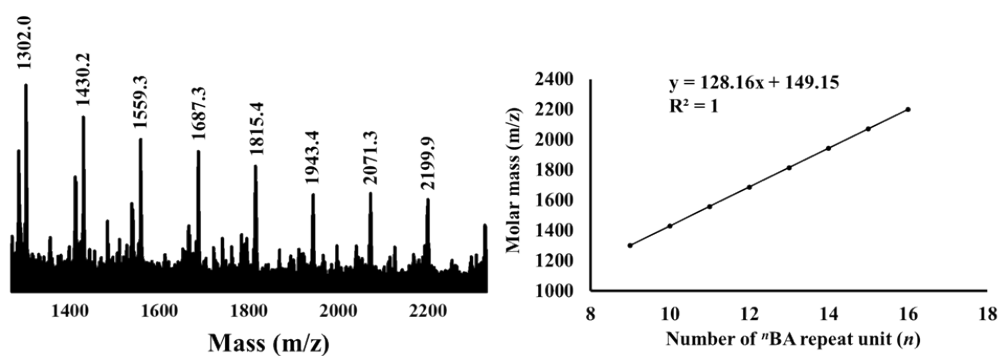


Figure S14. MALDI-TOF mass spectrum of poly(*n*-BA) (run 8, Table 4).

