Supporting Information



Figure 1. GPC traces for glycopolymers (**G10** and **G24**) synthesized from ATRP of AEL monomer in chlorobenzene at 100 °C.



Figure 2. Dependence of M_n on the molar ratio of [M]/[I] and monomer conversion for the ATRP of AEL glycomonomer using DBX as bifunctional initiator in chlorobenzene at 100 °C.



Figure 3. ¹H NMR spectroscopy (CDCl₃) of di-BOC terminated glycopolymer (**G24-BOC**) obtained from the end group transformation of glycopolymer with dibromo end groups (**G24**).



Figure 4. GPC traces for diamino-terminated glycopolymers $(G10-NH_2 \text{ and } G24-NH_2)$ from the end-group transformation of the related counterparts.



Figure 5. Dependence of M_n on the molar ratio of [M]/[I] and monomer conversion using glycopolymer with diamino end groups as macroinitiator for the ROP of Ala-NCA in DMF at room temperature.



Figure 6. GPC traces of $G10\text{-}NH_2$ macroinitiator, A37G10A37 and A93G10A93 triblock copolymers



Figure 7. GPC traces of A9G52A9 triblock copolymer