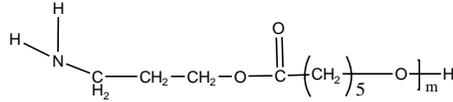


Sample Name:

α -Amino ω -Hydroxy ended **Poly(ϵ -caprolactone)**

Sample #: **P10932B-CLNH2**

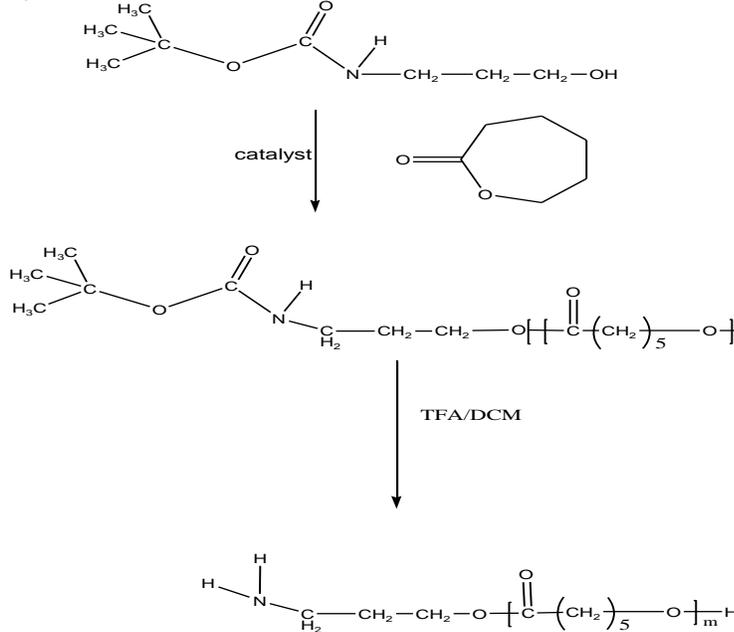
Structure:



Composition:

Mn x 10 ³	PDI
3.8	1.6
Amino Functionality >	99%

Synthesis Procedure:



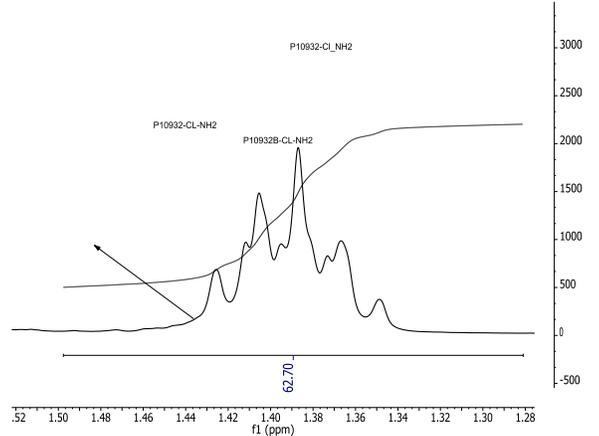
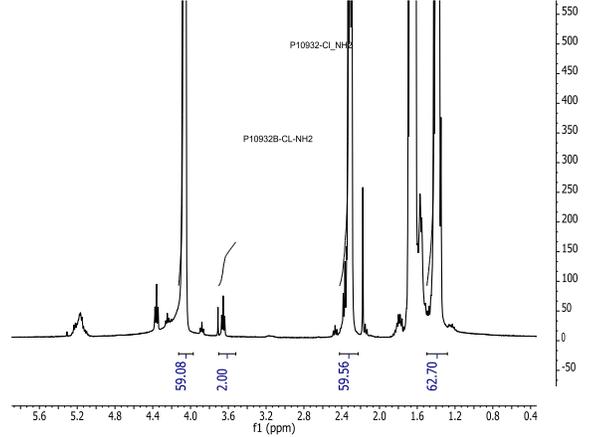
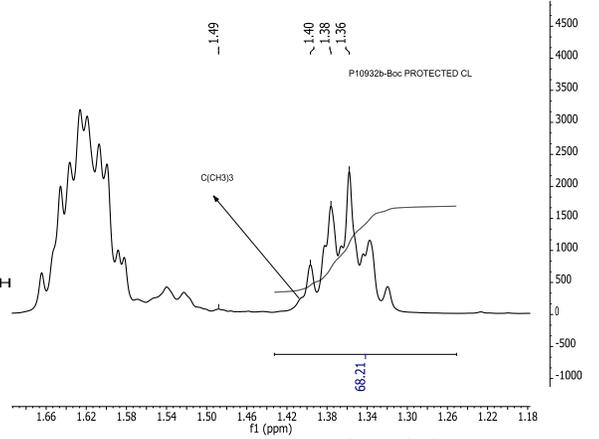
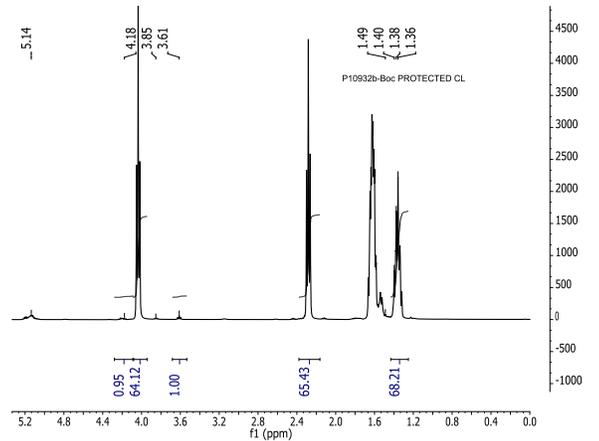
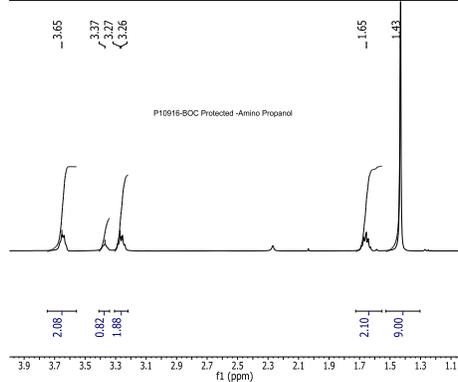
Characterization:

The molecular weight is calculated from NMR of poly(ϵ -caprolactone) by comparing the peak area of the protons of anthracenemethanol at about 1.49 ppm with the ϵ -caprolactone protons at about 4.1 ppm. The polydispersity index (PDI) is obtained by size exclusion chromatography.

Solubility:

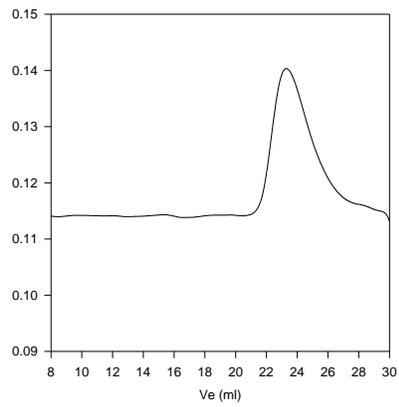
The polymer is soluble in toluene, THF, CHCl₃ and CH₂Cl₂. The polymer is insoluble in methanol, hexane and ether.

NMR of the BOC PROTECTED AMINO PROPANOL:



SEC of Sample:

P10932B-CLNH2



Size Exclusion Chromatogram
— $M_n=3,800$, $M_w=6000$, $M_w/M_n=1.6$