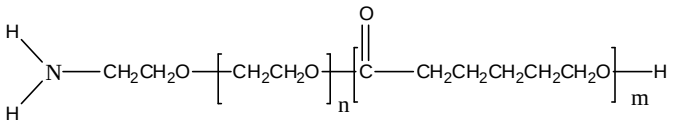
Sample Name:

Amino end functionalized
Poly(ethylene oxide -b- ?-caprolactone)

Sample #: **P10277A- NH2EGCL**

Structure:



Composition:

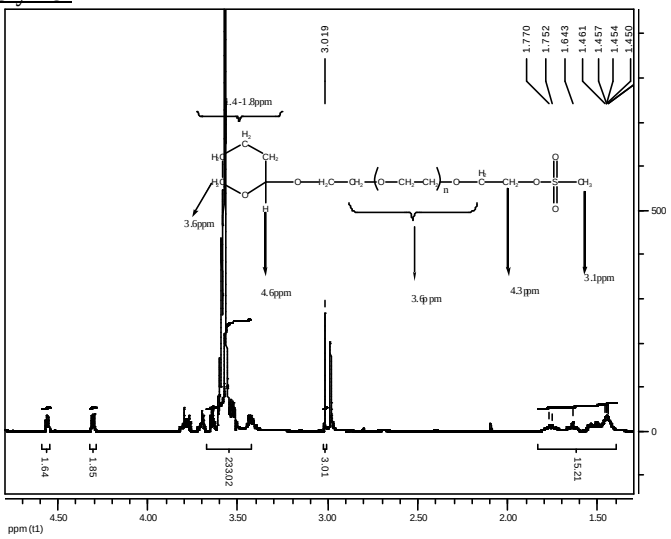
Mn x 10^3 NH2 EG-b-PCL	PDI	NH2 functionality
2.2-b-7.0	1.3	>95%

Characterization:

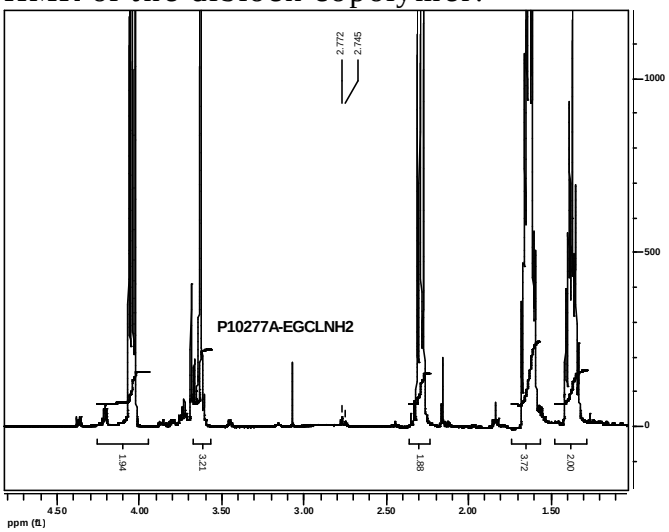
An aliquot of the anionic poly(ethylene oxide) block was terminated before addition of caprolactone and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The polymer obtained at each step and the final block copolymer composition was calculated from ^{1}H-NMR spectroscopy by comparing the peak area of the ethylene oxide protons at about about 3.6 ppm with the ?-caprolactone protons at about 4.1 ppm.

^{1}H-NMR Spectrum of the polymer

?-Mesytylate-? -pyran terminated PEG used in this polymer

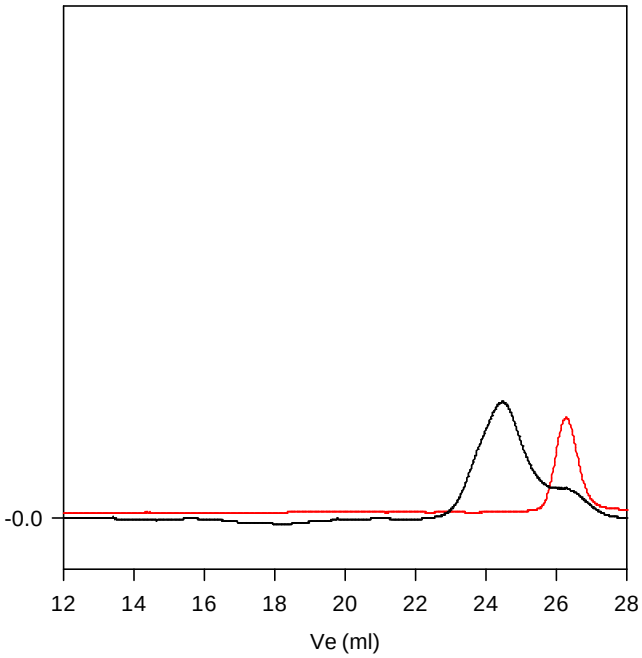


HMR of the diblock copolymer:



SEC of the block copolymer:

P10277A-NH2EGCL



Size exclusion chromatograph of poly(ethylene glycol):

PEG Block: M_n=2200, M_w=3300, PI=1.08

Alkyne-EG-b-CL: 2200-b-7000 Mw/Mn:1.3