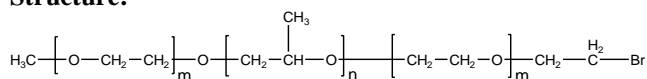


Sample Name:**Mono bromo end Functionalized Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide)****Sample #:** P10527A-EOPOEOBr**Structure:****Composition:**

Mn x 10 ³	PDI
0.3-b-1.6-b-0.5	1.09

Synthesis Procedure:

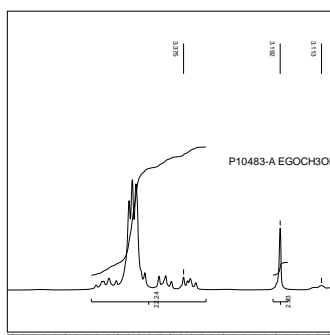
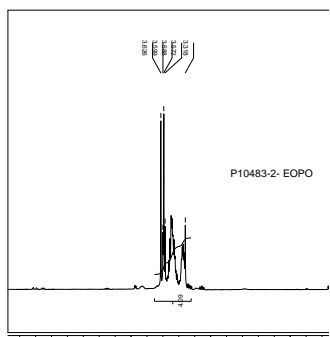
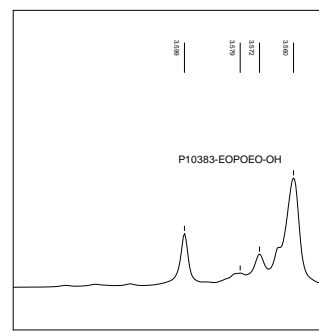
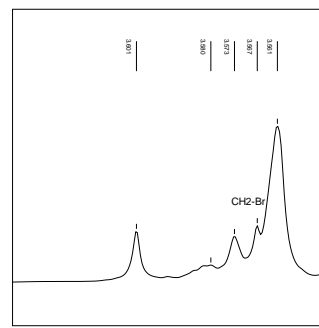
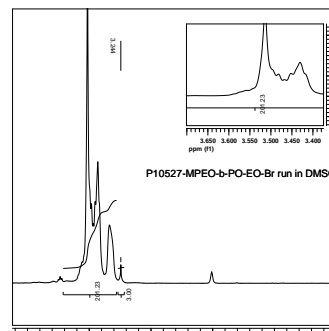
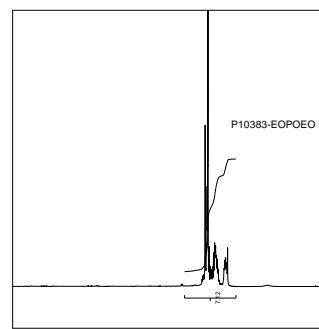
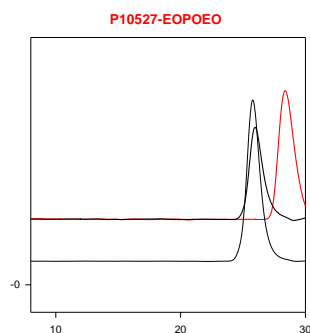
Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer EO and propylene oxide. Functionalization was carried out in toluene using thionyl bromide.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

Polymer is soluble in THF, CHCl₃, and toluene.

First Block mPEG**mPEG-b-PO diblock****Triblock EOPOEO****SEC of Sample:**

Size exclusion chromatography of the product:

- Poly(ethylene glycol methylether) : $M_n=300$, $M_w=320$, $M_w/M_n=1.09$
- Poly(ethylene glycol methylether-b-PO) : $M_n=300-1600$, $M_w/M_n=1.09$
- Poly(ethylene glycol methylether-b-PO-b-EO) : $M_n=300-1600-500$, $M_w/M_n=1.09$