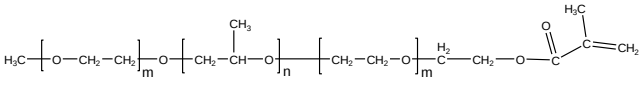
Sample Name:
Methacrylate end Functionalized Poly(ethylene oxide-b- propylene oxide -b- ethylene oxide)
Sample #: P10873-EOPOEOMA

Structure:



Composition:

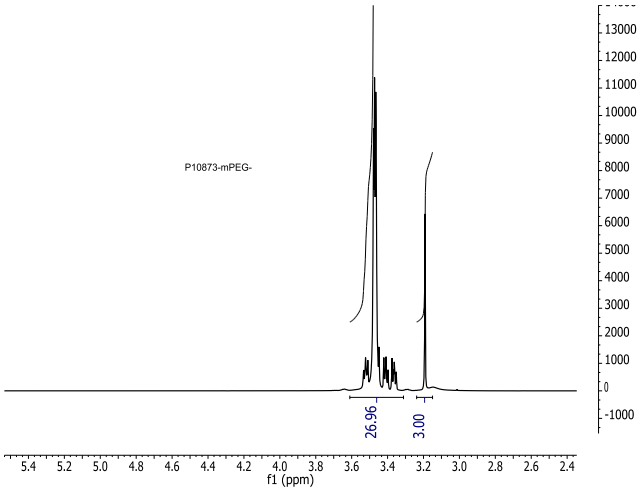
Mn x 10^3	PDI
0.30-b-1.7-b-0.6	1.09
Dp: 7-b-29-b-14	

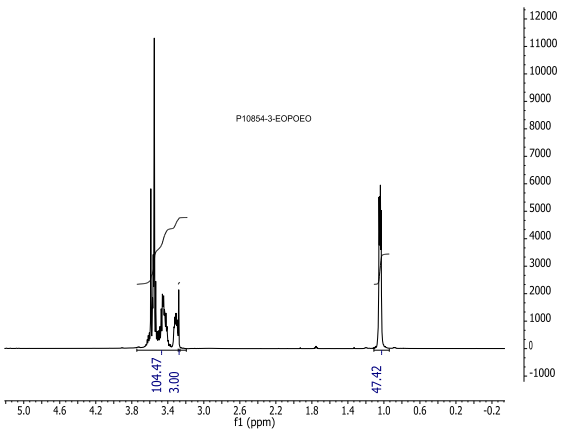
Synthesis Procedure:
Poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer EO and propylene oxide. Functionalization was carried out in DCM using methacrylochloride.

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.

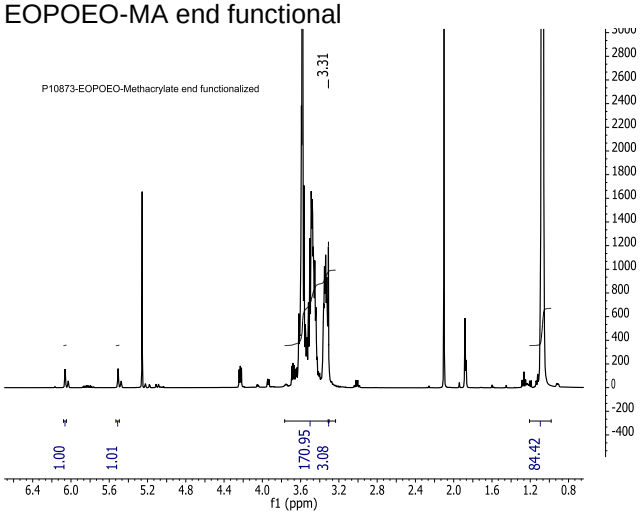
Solubility:
Polymer is soluble in THF, $CHCl_3$, and toluene.

First Block mPEG

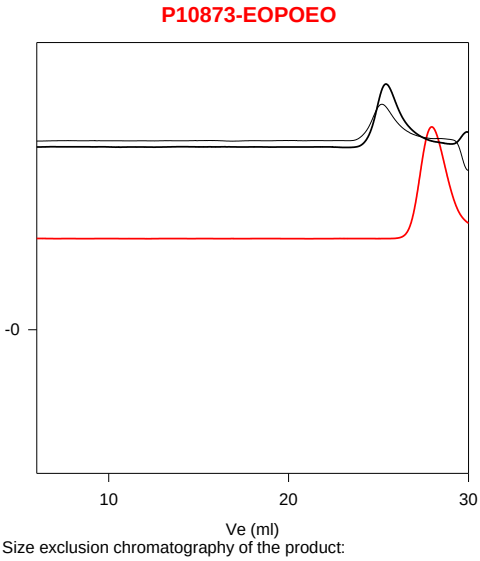




EOPOEO-MA end functional



SEC of Sample:



Size exclusion chromatography of the product:
Poly(ethylene glycol methyleher) : M_n=300 M_w/M_n=1.09
Poly(ethylene glycol methyleher-b-PO) : M_n=300-1700 M_w/M_n=1.09
Poly(ethylene glycol methyleher-b-PO-b-EO) : M_n=300-1700-600 M_w/M_n=1.09