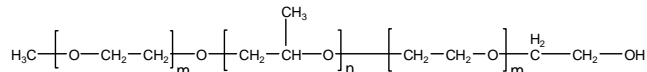


**Sample Name:**

**Poly(ethylene oxide-b-propylene oxide-b-ethylene oxide)**

**Sample #: P18096-EOPOEO**

**Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
0.7-b-1.0-b-0.7	1.2
Dp: 16-b-18-b-16	

**Synthesis Procedure:**

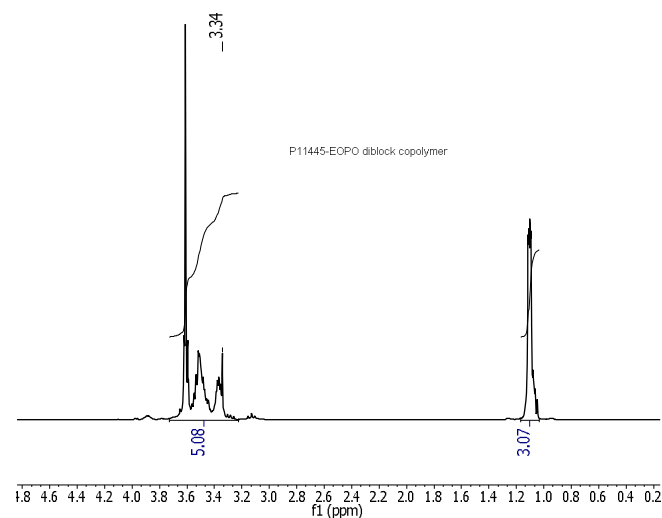
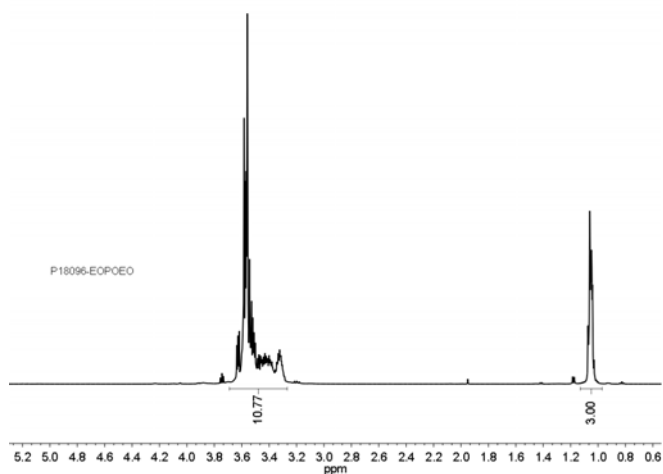
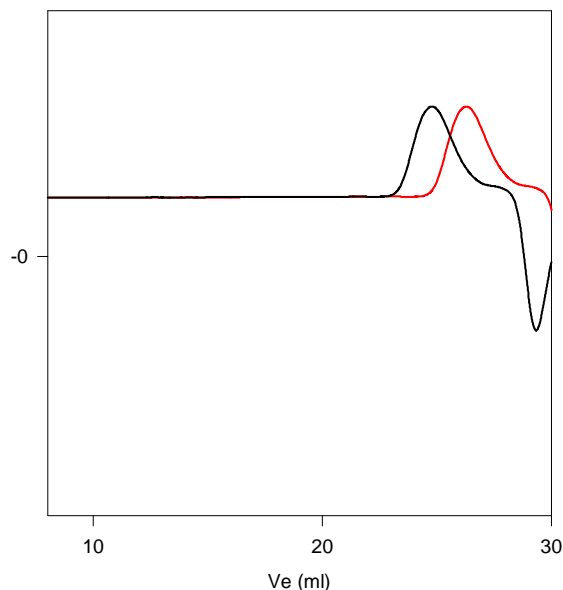
Poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer PO and EO using difunctional potassium salt of ethylene glycol.

**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<sub>3</sub>, and toluene.

**<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) spectra:****PO-2OH (first block):****EO-b-PO-EO triblock copolymer:****SEC elugram of EO-PO-EO triblock copolymer:****P18096-EOPOEO**

Size exclusion chromatography of the product:

- Poly(propylene glycol) : M<sub>n</sub>=1,000, M<sub>w</sub>/M<sub>n</sub>=1.2
- Poly(EO-b-PO-b-EO) : M<sub>n</sub>=700-1,000-700 M<sub>w</sub>/M<sub>n</sub>=1.2