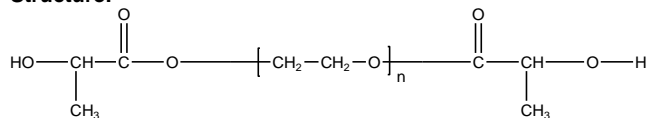


Sample Name:

α - ω lactide end functionalized Poly ethylene oxide (DL form)

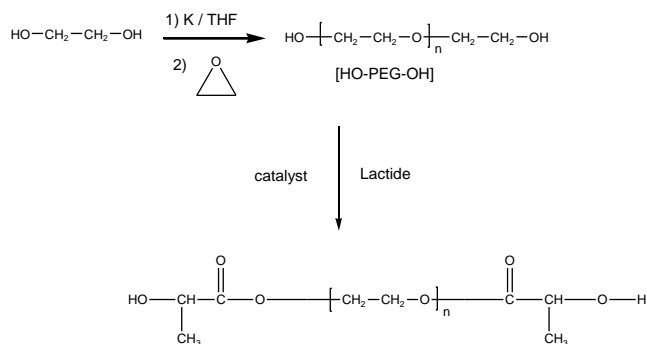
Sample #: P8474-EO2LA (DL form)

Structure:**Composition:**

Mn x 10 ³	PDI
8.0	1.09

Synthesis Procedure:

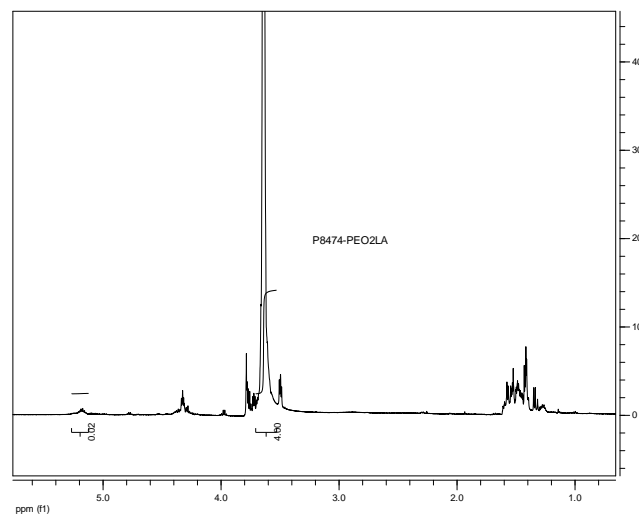
Poly was prepared by of living anionic polymerization of ethylene oxide(EO) followed by living coordination polymerization of D,L-lactide(LA) using a Tin catalyst. The scheme of the reaction is illustrated below:

**Characterization:**

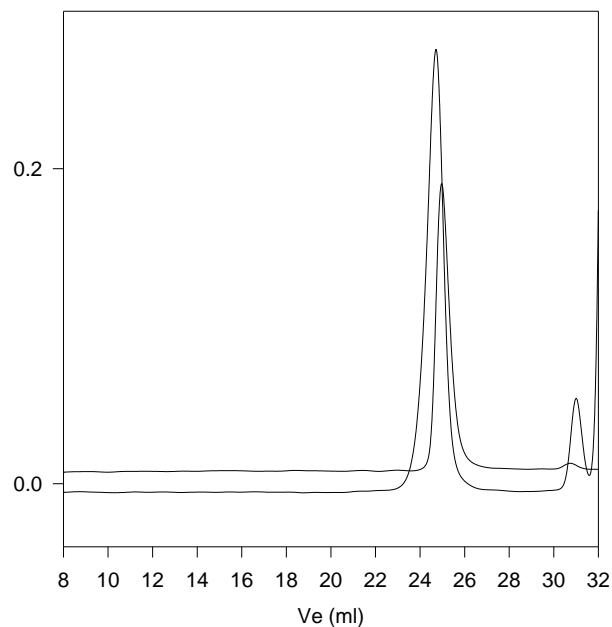
The molecular weight and polydispersity index of the poly(ethylene oxide) block was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. The composition of the lactide ABA triblock copolymer was determined using ¹H-NMR spectroscopy by comparing the integration of the lactide peaks (5.2ppm) with that of the ethylene oxide peaks (3.6ppm).

Solubility:

Soluble in THF, chloroform, DMF and toluene, not soluble in hexane.

NMR of Sample:**SEC of Sample:**

P8474- EO2LA (DL form)



Size exclusion chromatography:

- Poly(ethylene glycol) diol, M_n=8000, M_w=8400, PI=1.05
- After adding Lactide monomer PI=1.09
- Composition from ¹H NMR
- Dp: LA(1)-EO(182)-b-LA(1)