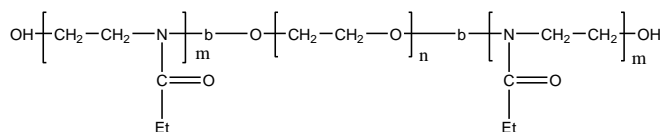


Sample Name: Poly(2-ethyl oxazoline-b-ethylene oxide -b- 2-ethyl oxazoline)

Sample #: P7410-EOXZEOEOXZ

Structure:

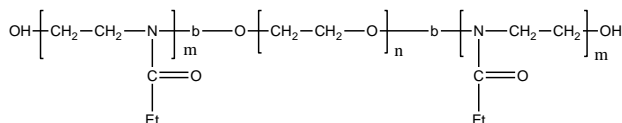
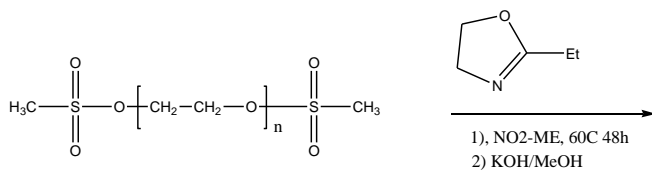
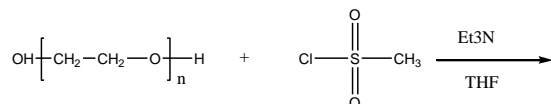


Composition:

Mn x 10 ³ PEOXZ-b-PEO-b-PEOXZ (k)	PDI
6.5-b-5.8-b-6.5	1.4

Synthesis Procedure:

The polymer is prepared as followed scheme:



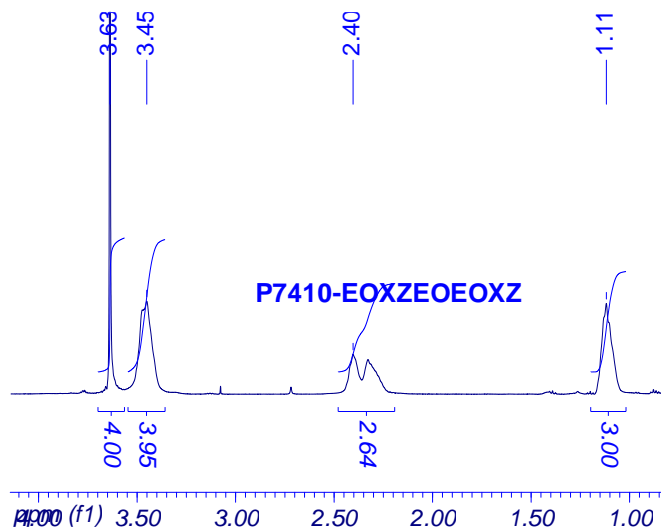
Characterization:

The Mn is calculated from NMR by comparing the peak area of the ethylene glycol protons at 3.64 ppm and CH3 in ethyl oxazoline at about 1.12 ppm and polydispersity index (PDI) are obtained by size exclusion chromatography.

Solubility:

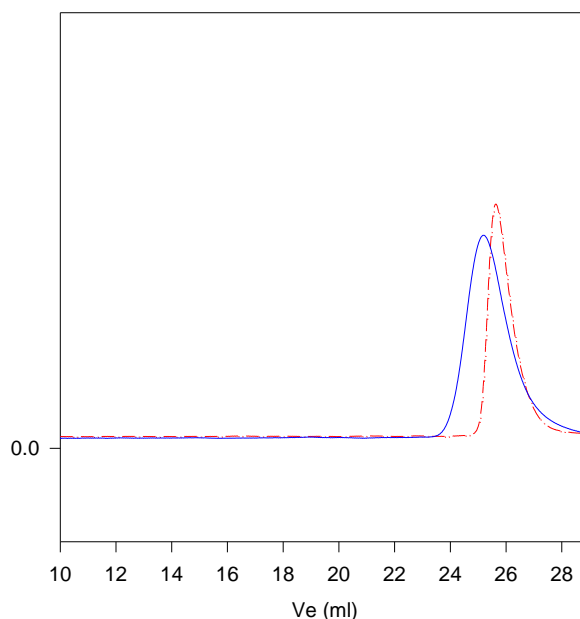
The polymer is soluble in THF, water, CHCl₃ and precipitated in hexane and ether.

¹H-NMR Spectrum of the block copolymer:



SEC of the block copolymer:

P7410-EOXZEOEOXZ



Size exclusion chromatography of the polymer

--- PEO2OH, M_n=5800, M_w=6300, M_w/M_n=1.1

— Poly(ethyl oxazoline-b-ethylene oxide-b-ethyl oxazoline)

Mn: PEOXZ(6500)-b-PEO(5800)-b-EOXZ(6500) M_w/M_n=1.4