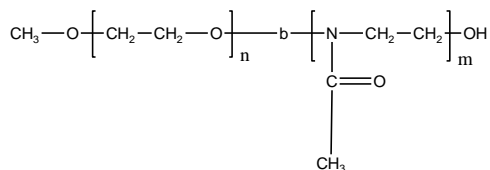


Sample Name: Poly(ethylene oxide -b- 2-Methyl oxazoline)

SEC of the block copolymer:

Sample #: P3455-EOMOXZ

Structure:

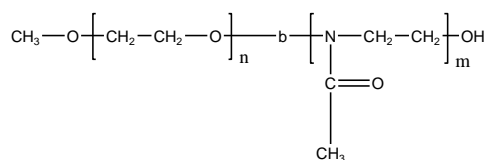
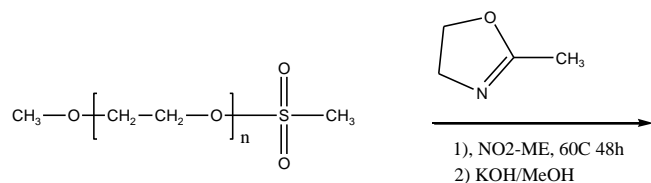
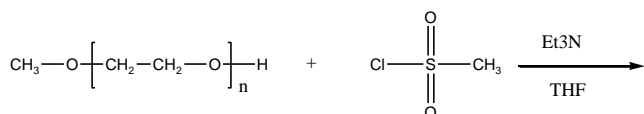


Composition:

| | |
|-------------------------------------|-----|
| Mn x 10 ³ PEO-b-PMOXZ | PDI |
| 2.0-b-3.2 | 1.4 |

Synthesis Procedure:

The polymer is prepared as followed scheme:



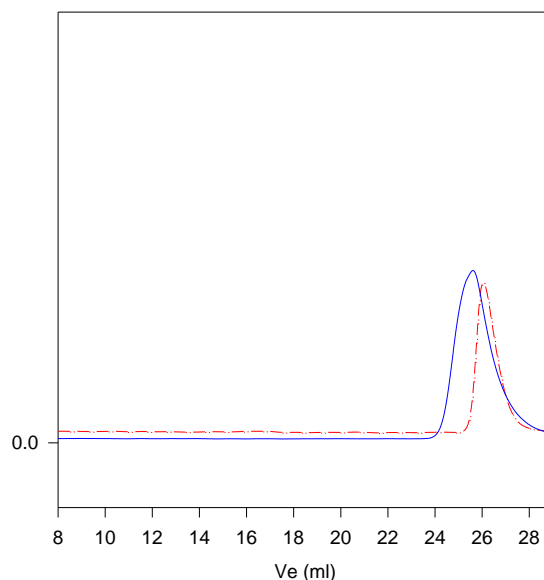
Characterization:

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.

P3455-EOMOXZ



Size exclusion chromatography of the polymer

--- PEO, M_n=2000, M_w=2,200, M_w/M_n=1.09

— Poly(ethylene oxide-b-ethyl oxazoline)

Mn: PEO(2,000)-b-EOXZ(3,000) M_w/M_n=1.4