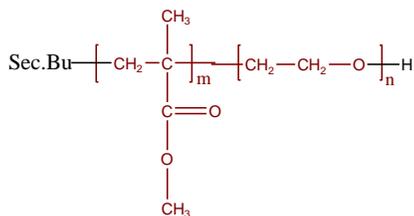


Sample Name:

**Poly (Ethylene oxide-b- methyl methacrylate)**

Sample #: **P8087-EOMMA**

Structure:

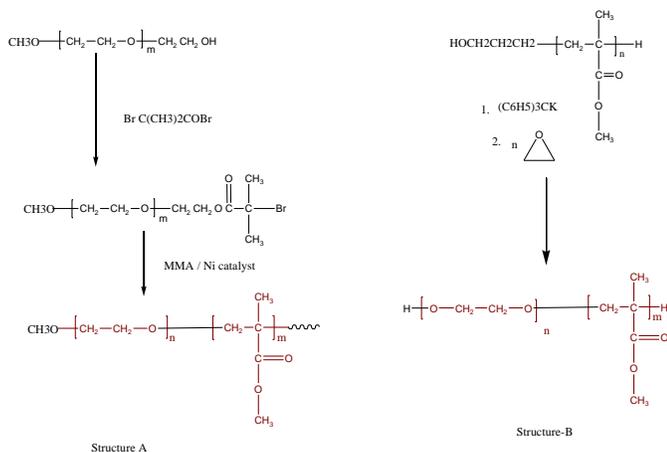


Composition:

Mn x 10 <sup>3</sup> PEO-b-MMA	PDI
1.0-b-11.0	1.42

Synthesis Procedure:

Poly (Ethylene oxide-b- methyl methacrylate) is prepared by different routes. The scheme of the reactions is illustrated below:



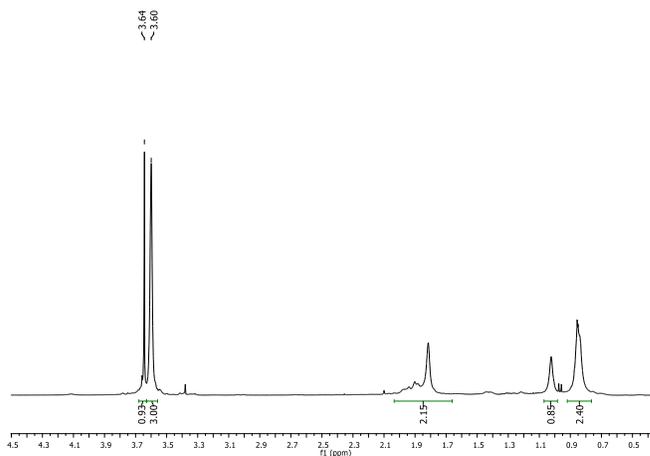
Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

Solubility:

Poly(ethylene oxide -b- MMA) is soluble in CHCl<sub>3</sub>, THF, and toluene. The polymer precipitated out from hexane.

**<sup>1</sup>H-NMR Spectrum of the block copolymer:**



**SEC elugram of the block copolymer:**

