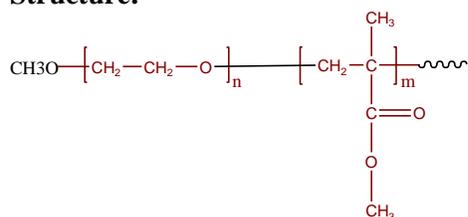


Sample Name:  
**Poly(ethylene oxide-b-methyl methacrylate)**

Sample #: **P43908-EOMMA**

**Structure:**

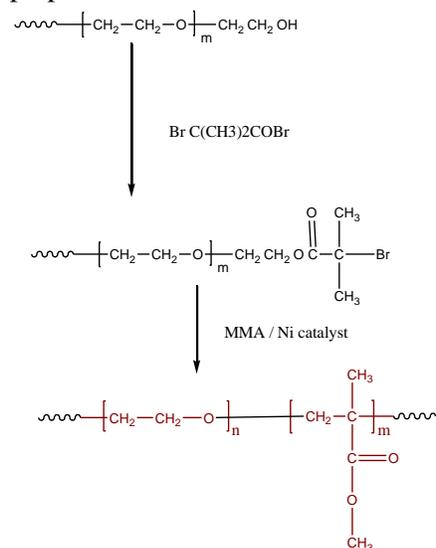


**Composition:**

Mn x 10 <sup>3</sup> PEO-b-MMA	PDI
5.0-b-22.0	1.4

**Synthesis Procedure:**

Poly(Ethylene oxide-methyl methacrylate) is prepared as shown in the scheme below:



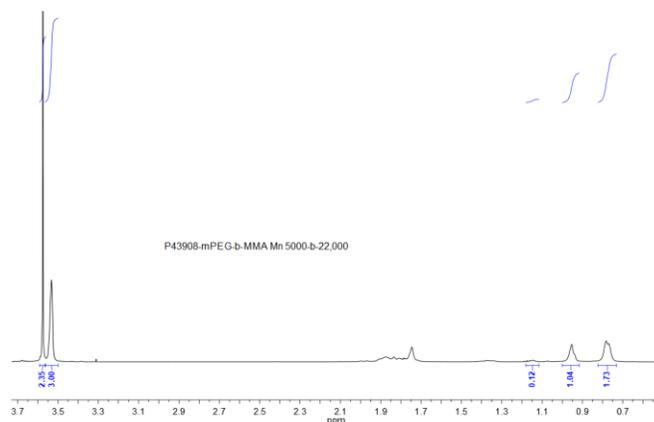
**Characterization:**

Polymer composition was determined by H NMR taking the integration of PEG block at 3.66 ppm and methyl ester of PMMA block at 3.62 ppm. Molecular weights of the first block and the Mw/Mn of the final and the first block was determined by SEC in THF.

**Solubility:**

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

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



**SEC of the block copolymer:**

