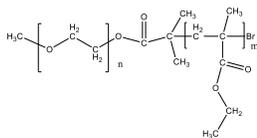


Sample Name:
Poly(ethylene oxide)-b-Poly(ethyl methacrylate)

Sample #: P43945-EOEtMA

Structure:

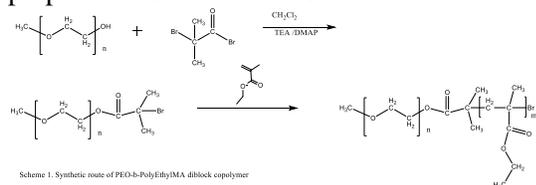


Composition:

Mn x 10 ³ PEO-b-EtMA 5.0-b-3.0	PDI 1.8
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Synthesis Procedure:

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



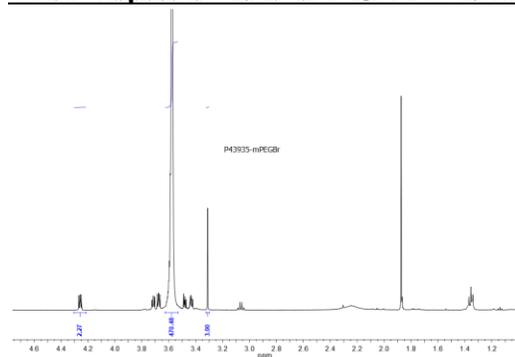
Characterization:

Polymer composition was determined by H NMR taking the integration of PEG block at 3.66 ppm and methyl ester of EtMA block at 3.92 ppm. Molecular weights of the first block and the Mw/Mn of the final and the first block was determined by SEC in THF.

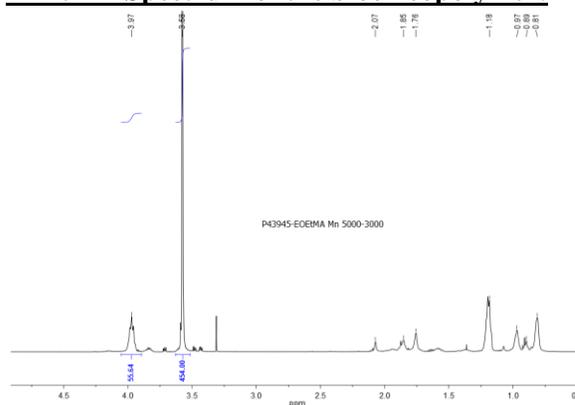
Solubility:

Poly(ethylene oxide -b- EtMA) is soluble in CHCl₃, THF, toluene. The polymer precipitated out from hexane.

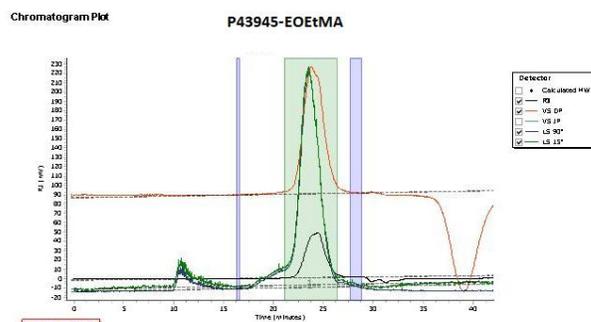
H NMR spectrum of the PEGBr Mn of 5000:



1H-NMR Spectrum of the block copolymer:



SEC profile of the Sample:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1		9167	8466	15327	26064	39978	22782
							1.81