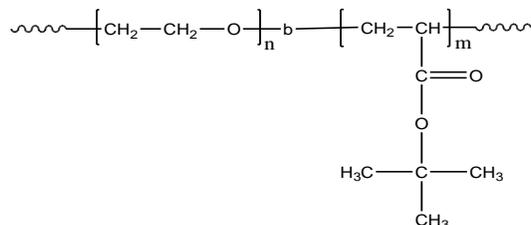


Sample Name: Poly (ethylene oxide-b-t-butyl acrylate)

Sample #: P43912-EOtBuA

Structure:

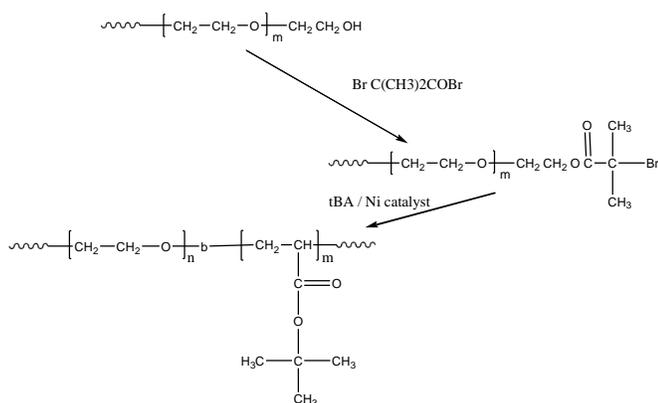


Composition:

Mn x 10 ³ EO-b-tBuA	PDI
5.0-b-7.0	1.6

Synthesis Procedure:

The polymer is prepared as following scheme:



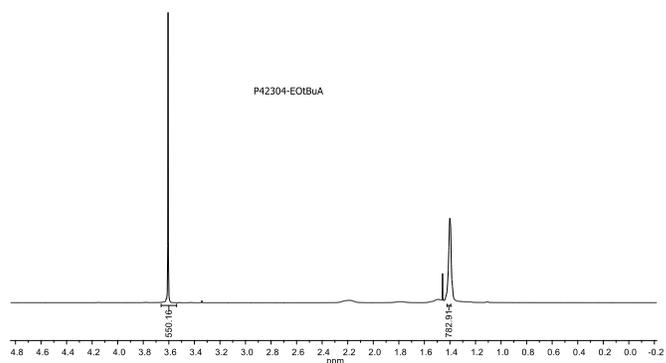
Characterization:

The final block copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area of the t-butyl acrylate protons at 1.43 ppm with the peak area of the ethylene oxide protons at 3.6 ppm. Copolymer PDI is determined by SEC.

Solubility:

The polymer is soluble in CHCl₃, methanol, THF and precipitated out from cold hexane or ether.

¹H-NMR Spectrum of the block copolymer before hydrolysis:



SEC of the block copolymer before hydrolysis:

