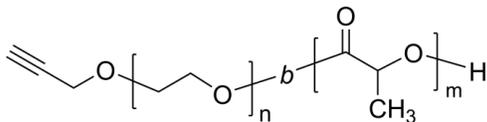


Sample Name: Poly(ethylene oxide)-b-poly(lactide), α -alkyne-terminated

Sample: P43760-AlkyneEOLA

Structure:



Composition:

$M_n \times 10^3$	PDI
2.0-b-1.0	1.27

Synthesis Procedure:

α -hydroxy ω -alkyne terminated poly(ethylene glycol) was synthesized and used for the synthesis of Alkyne-EG-b-LA(DL) form

Characterization:

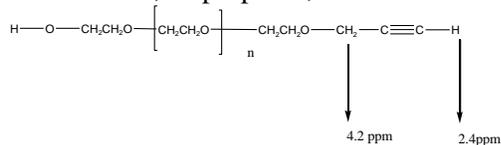
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Functionality:

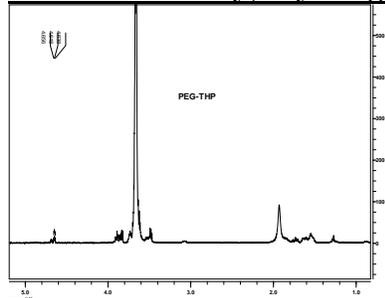
Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy

Solubility:

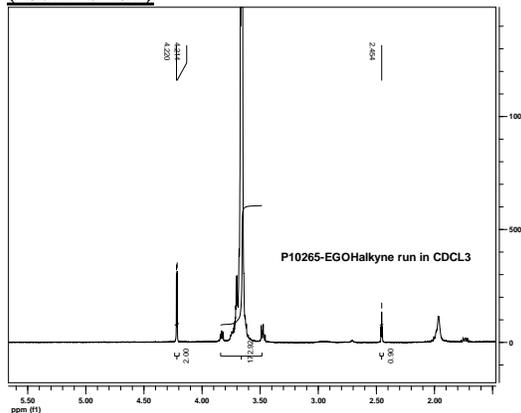
Polymer is soluble in water, methanol and ethanol, THF, $CHCl_3$. It is precipitated out from cold ethanol, isopropanol, hexane and ether.



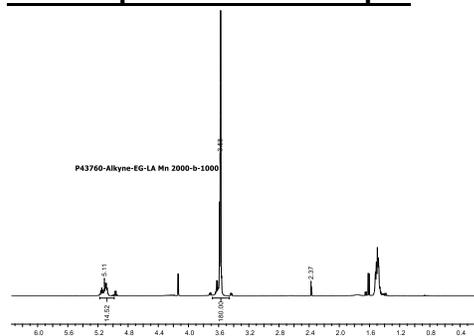
HNMR spectrum of α pyran ω - OH end functionalized Poly(ethylene glycol)



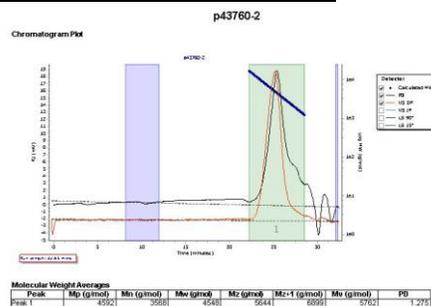
NMR Sepctrum of the EGOH-alkyne sample: (lot# 10265)



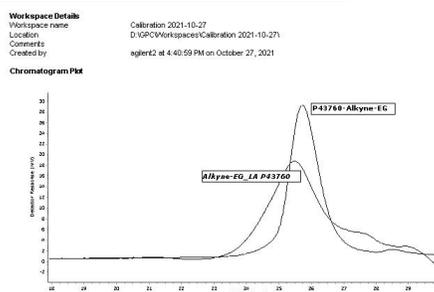
HNMR spectrum of the Sample:



SEC elugram of the Sample:



FTIR spectrum of the Sample:



References:

S. K. Varshney, J.X. Zhang, US patent US Pat. 7,009,033 B2 2006

Heterofunctional Polyethylene glycol and Poly ethylene oxide , process for their Manufacture