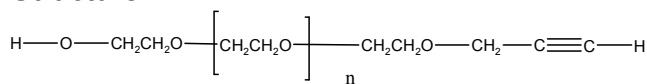


Sample Name: **α -hydroxy ω -alkyne-Terminated Poly(ethylene glycol)****Sample:** P10265-EGOH-alkyne**Structure:****Composition:**

$M_n \times 10^3$	PDI
2.2	1.09

Synthesis Procedure:

α -hydroxy ω -alkyne terminated poly(ethylene glycol) was synthesized by proprietary method.¹Please call us if you would like to know more.

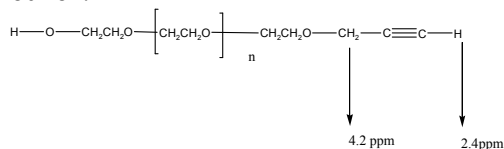
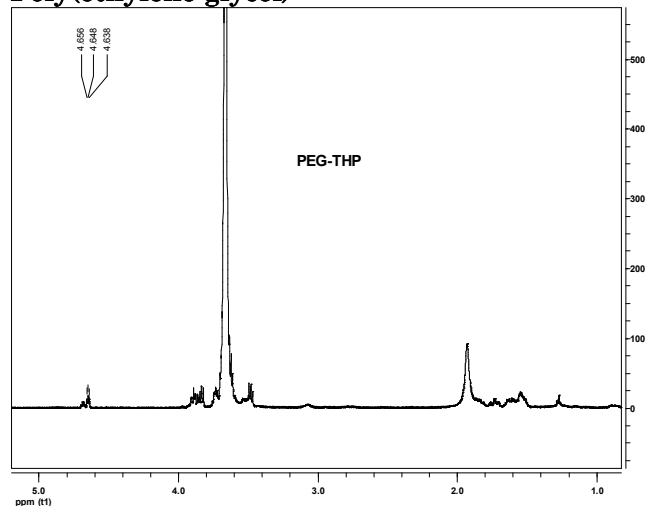
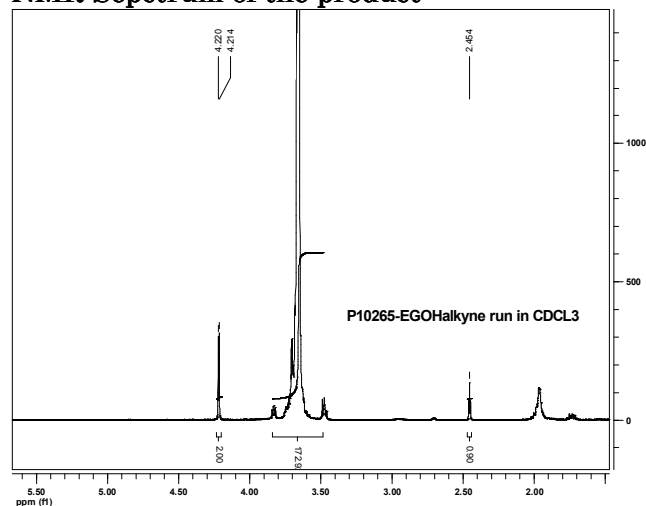
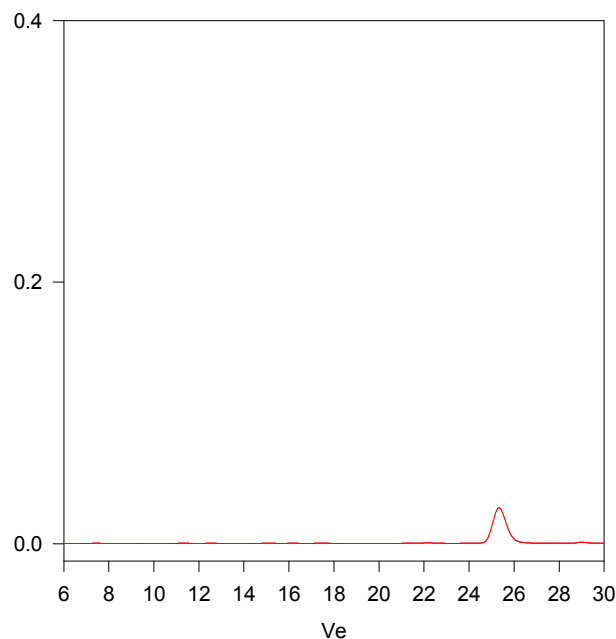
Characterization:

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 α pyran ω - OH end functionalized Poly(ethylene glycol)****NMR Sepctrum of the product:****P10265-EGOHAlkyne**

Size Exclusion Chromatography of the Polymer:

 $M_w = 2200$, $M_n = 2400$, $M_w/M_n = 1.09$ **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