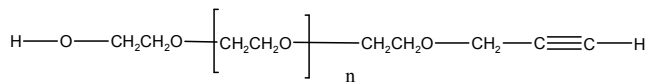


**Sample Name:** **$\alpha$ -hydroxy  $\omega$ -alkyne-Terminated Poly(ethylene glycol)****Sample:** P10253-EGOH-alkyne**Structure:****Composition:**

$M_n \times 10^3$	PDI
3.5	1.09

**Synthesis Procedure:**

$\alpha$ -hydroxy  $\omega$ -alkyne terminated poly(ethylene glycol) was synthesized by proprietary method.<sup>1</sup>Please call us if you would like to know more.

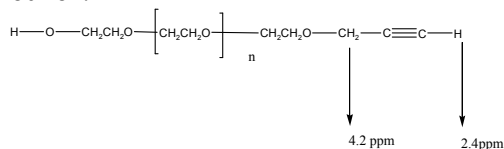
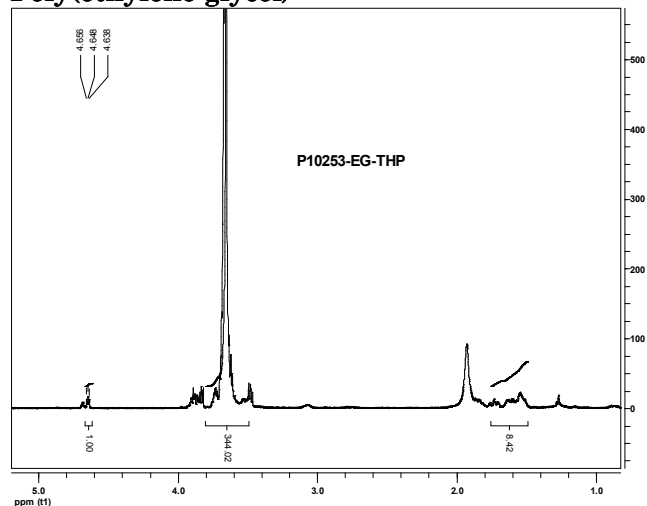
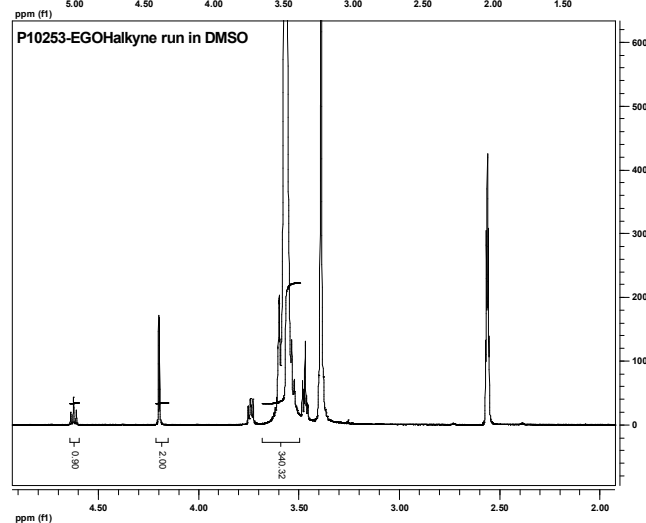
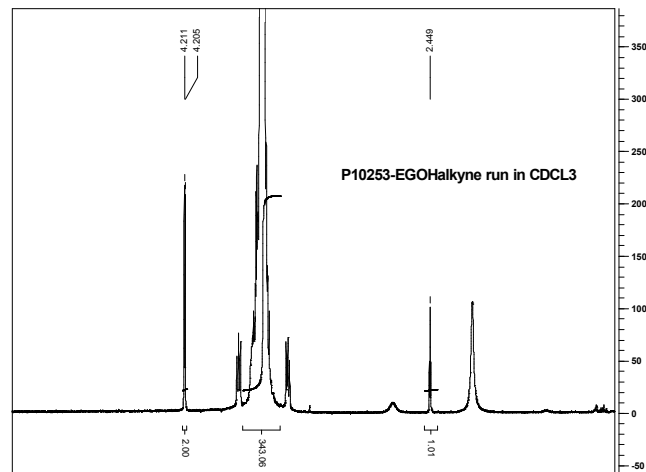
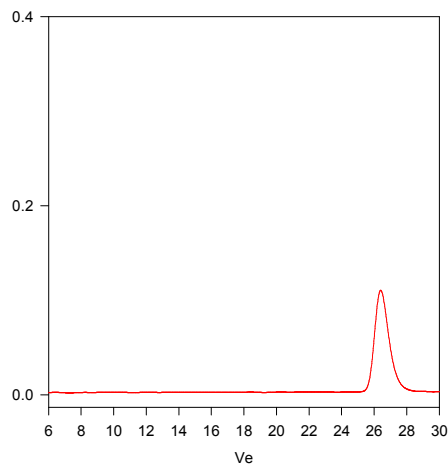
**Characterization:**

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,  $\text{CHCl}_3$ . It is precipitated out from cold ethanol, isopropanol, hexane and ether.

**HNMR  $\alpha$  pyran  $\omega$ -OH end functionalized Poly(ethylene glycol)****NMR Spectrum of the product:****P10253-EGOHalkyne**

Size Exclusion Chromatography of the Polymer:

 $M_w = 3500$ ,  $M_n = 3800$ ,  $M_w/M_n = 1.09$ **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