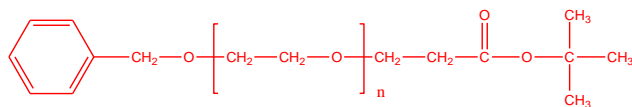


**Sample Name:**

$\alpha$ -Benzyloxy,  $\omega$ -t-Butyl carboxylate  
Terminated Poly(ethylene glycol)

**Sample #:** P6255-EGBztBA

**Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
1.0	1.10

**Synthesis Procedure:**

$\alpha$ -Benzyloxy,  $\omega$ -t-Butyl carboxylate terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide using benzyl alcohol as an initiator followed by the conversion of hydroxyl to carboxyl. The procedure proprietary.

**Characterization:**

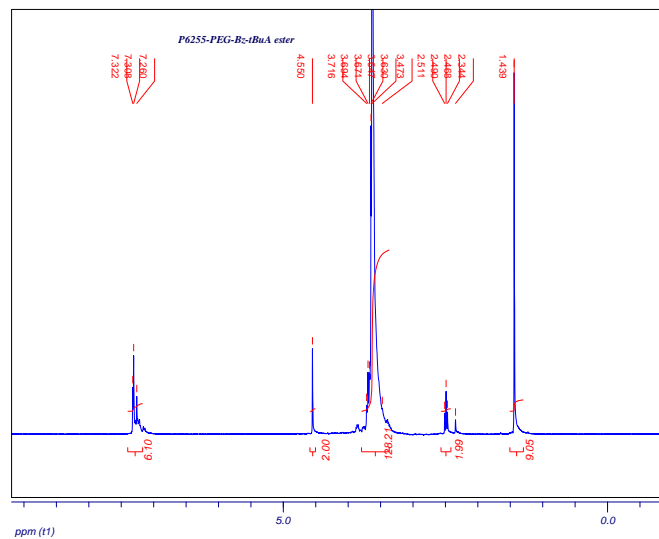
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Functionality:**

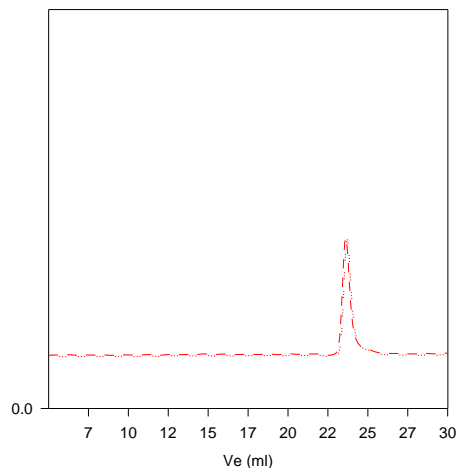
Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy.

**Solubility:**

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

**Proton NMR of the product:****SEC of Sample:**

P6255-EGBztBA



Size exclusion chromatography of  $\alpha$ -Benzyloxy- $\omega$ -t-butyl carboxylate terminated Poly(ethylene glycol):  
M<sub>n</sub>=1000, M<sub>w</sub>=1100, Mw/Mn =1.10