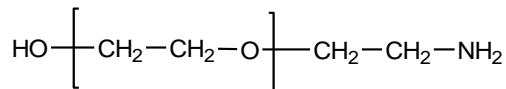


Sample Name:

α -amino ω -hydroxyl Terminated Poly(ethylene glycol)

Sample: **P40571-EGNH2OH**

Structure:



Composition:

Mn x 10 ³	PDI	NH2 functionality
3.5	1.14	> 99%

Synthesis Procedure:

α -Amino ω -hydroxyl 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.

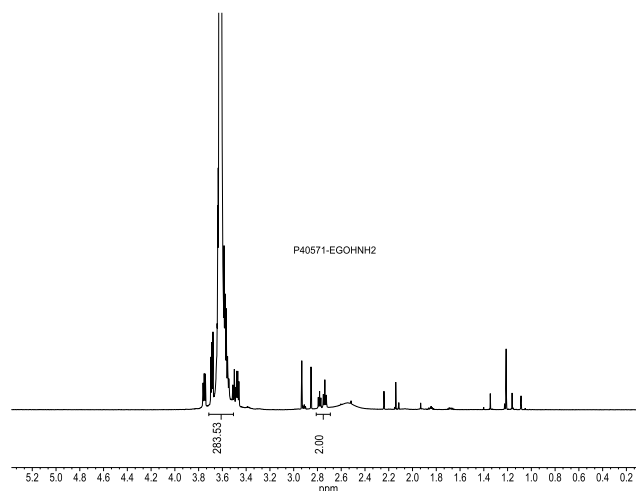
Functionality:

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

Solubility:

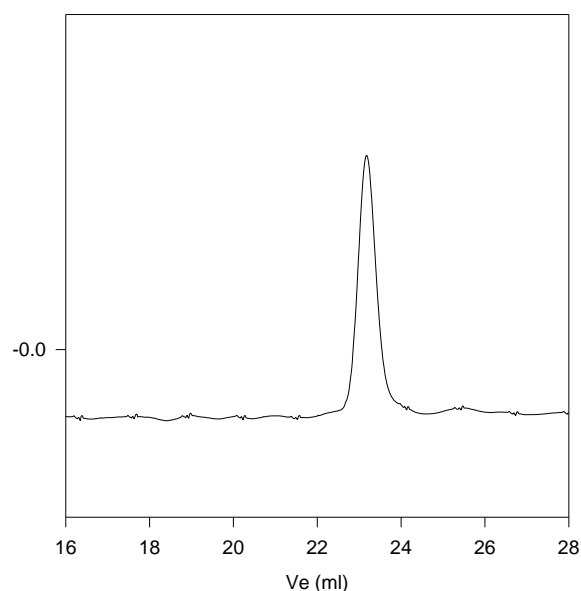
Polymer is soluble in water, methanol and ethanol, THF, CHCl₃. It is precipitated out from cold ethanol, isopropanol, hexane and ether.

¹H NMR spectrum of the polymer:



SEC elugram of the Sample:

P40571-EGNH2OH



Size exclusion chromatograph of
 α , OH ω amino terminated poly(ethylene glycol):

M_n=3,500, M_w=4,000, PI=1.14

References:

S. K. Varshney, J.X. Zhang, Apply US patent 09/895,323, 2001. Heterofunctional Polyethylene glycol and Poly ethylene oxide, process for their Manufacture.