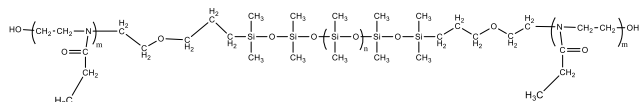


Sample Name:

**Poly(2-ethyloxazoline-b-dimethylsiloxane-b-2-ethyloxazoline) Triblock Copolymer**

Sample #: **P42761A-EtOXZDMSEtOXZ**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.0-b-10.0-b-1.0	1.2
Dp of each units: (10-b-135-b-10)	

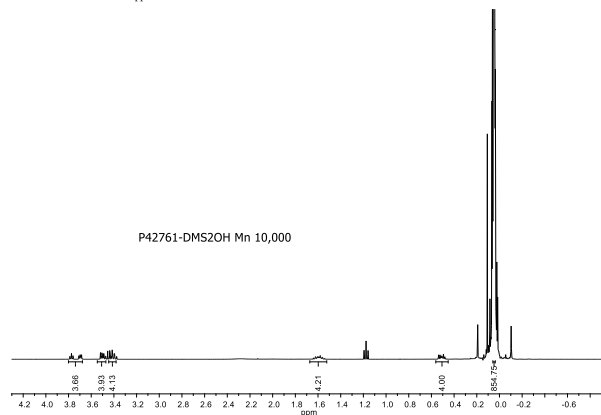
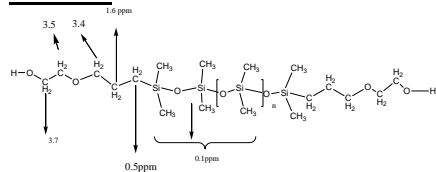
**Synthesis Procedure:**

The  $\alpha$ - $\omega$  dihydroxy terminated Poly(2-ethylloxazoline-b-dimethylsiloxane-b-2-ethyloxazoline) triblock copolymer was prepared by combination of anionic living polymerization of hexamethylcyclotrisiloxane (D3) and cationic polymerization of 2-ethyl oxazoline, using difunctional initiator. Polymer was treated with equivalent amount of end functional moieties with NaOH/Methanol. Polymer was recovered in cold acetone, wash couple of times with cold acetone to remove the unreacted any trace amount of monomer.

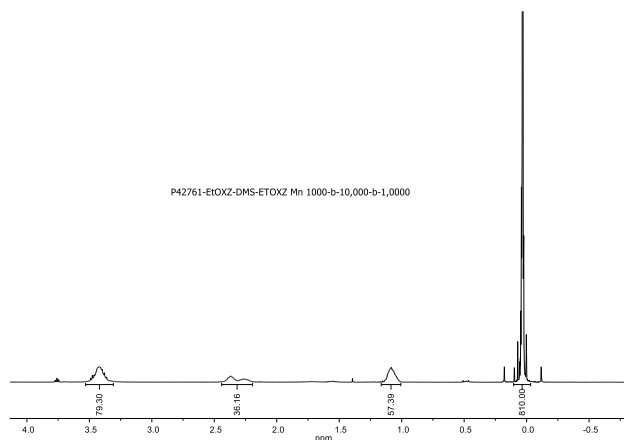
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

**<sup>1</sup>H-NMR spectrum of the PDMS end functionalized with Carbinol to determine molecular weights by HNMR:**

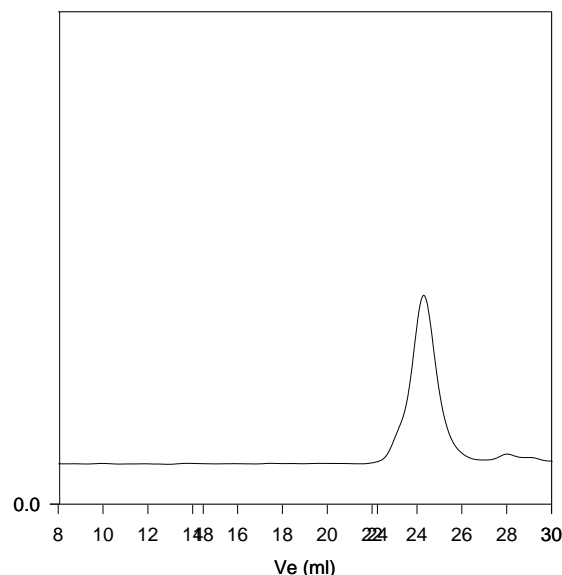


**<sup>1</sup>H-NMR spectrum of the sample:**



**SEC profile of the Sample:**

**P42761-DMS2OH**



Size exclusion chromatography of the polymer:

..... Polydimethylsiloxane M<sub>n</sub>=10,000, M<sub>w</sub>=12,500, PI=1.25