Product Profile

Identification

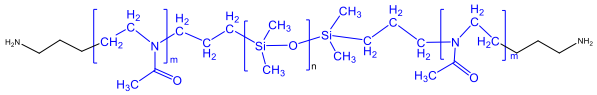
Product Name: Sample Name: **Poly(2-methyl oxazoline)-b-poly(dimethyl siloxane)-b-poly(2-methyl oxazoline), α,ω-bis(amino)-terminated**

Linker Propyl

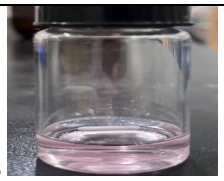
Sample #: **P43905C1-NH2MOXZDMSMOXZNH2**

(poly butadiene block rich in 1,2 microstructure)

Structure:



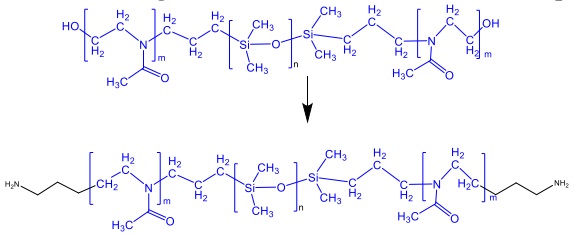
Composition:

$M_n \times 10^3$	PDI
0.5 -b-3.5-b-0.5	1.45
Dp: 6-b-47 -6	
Ninhydrine test -light blue coloe-pass 	

Method of Synthesis : By ionic process

Synthesis Procedure:

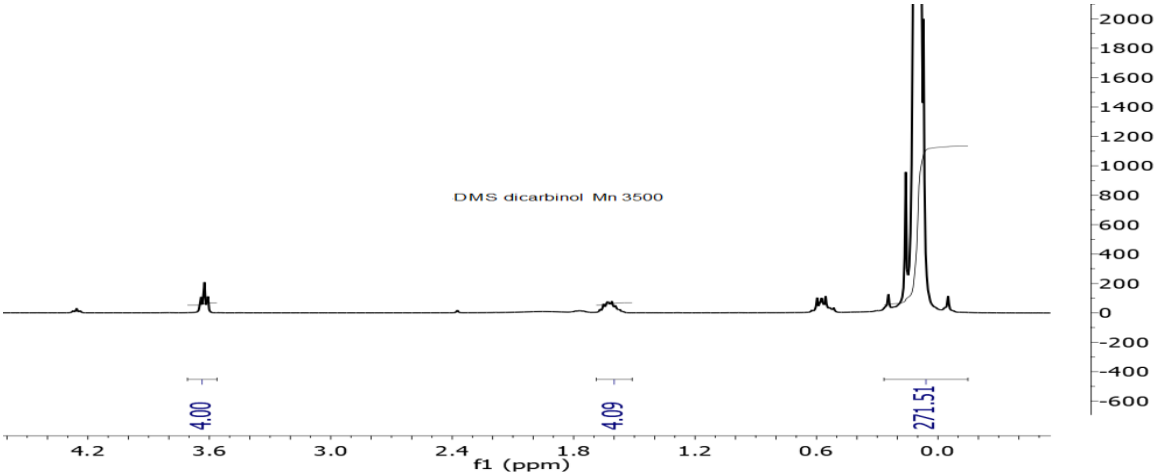
The following reaction scheme shows how the product was prepared:



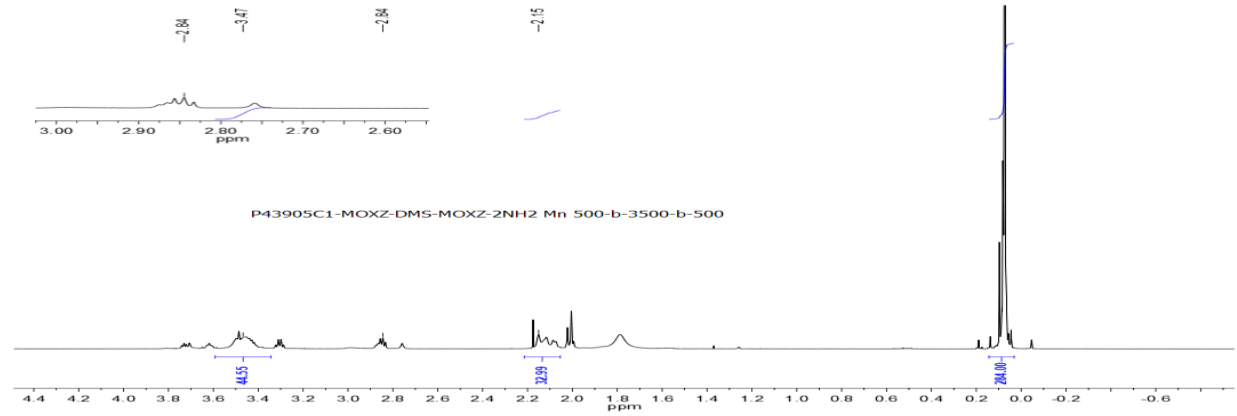
Characterization:

The product was characterized by ^{1}H NMR spectroscopy. Size exclusion chromatography (SEC) of such polymer cannot be carried out in THF or DMF as eluants. A mixture of DMF/THF (20/80 by volume) in addition of 3 V% (Et)3N has been used to elute the sample. The values of Mw/Mn, and the composition of the polymer were determined by its HNMR data analysis.

^{1}HNMR spectrum of PDMS-2OH (dicarbinol):



^{1}H NMR spectrum of MEOXZ-DMS-MEOXZ triblock copolymer:



SEC elugram of the Sample: