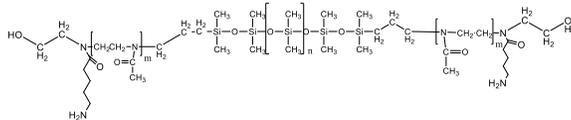


Sample Name: Poly(2-methyl oxazoline)-b-poly(dimethyl siloxane)-b-poly(2-methyl oxazoline), α,ω -bis(amino)-terminated

Linker Propyl

Sample #: P43178-NH2MOXZDMSMOXZNH2

Structure:

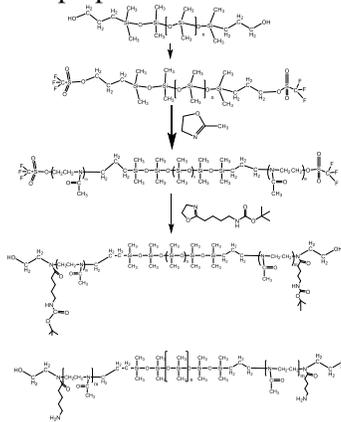


Composition:

$M_n \times 10^3$	PDI
0.5 -b- 2.5 -b- 0.5	1.25

Synthesis Procedure:

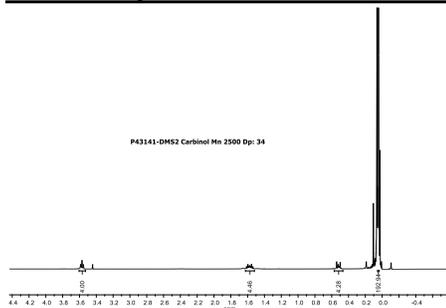
The following reaction scheme shows how the product was prepared:



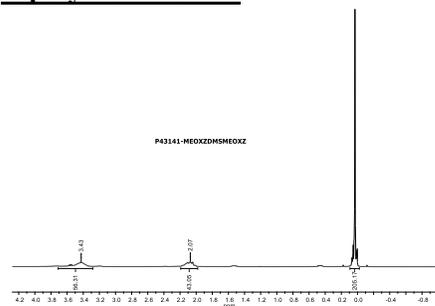
Deprotection of Amino BOC to free NH₂ group:

Because of the presence of PDMS block, the deprotection of BOC-Amino cannot be carried out in acidic conditions. PDMS block can be destroyed under acidic conditions. It was carried out under basic conditions using Cs₂CO₃/imidazole conditions and deprotection was checked after by FT-IR and SEC analysis illustrating no degradation of PDMS block.

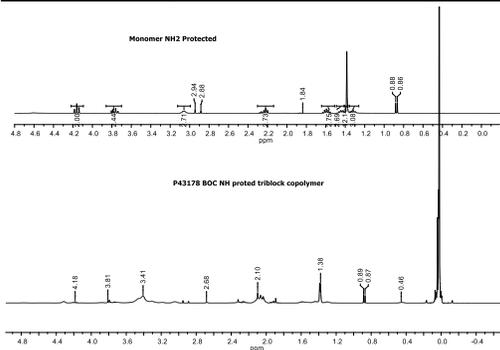
¹H-NMR spectrum of DMS2OH Lot # P43141:



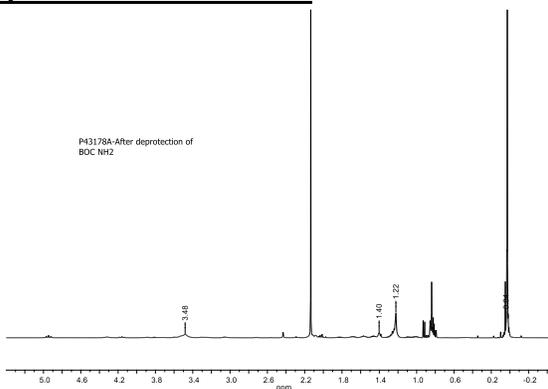
¹H-NMR spectrum of MOXZ-DMS-MOXZ triblock copolymer P43141:



¹H-NMR spectrum of NH₂protected monomer and BOC-Amino protected triblock copolymer:

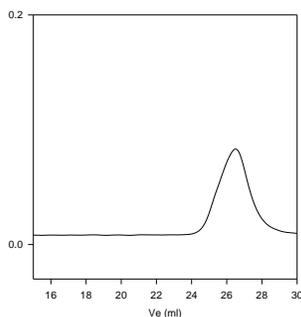


¹H-NMR spectrum of the Polymer after deprotection of BOC NH₂:



SEC profile of MOXZ-DMS-MOXZ triblock used:

MEOXZDMSMEOXZ Used for P43178



Size exclusion chromatography of the polymer

— ABA triblock copolymer Mw/Mn=1.25 Composition from HNMR