

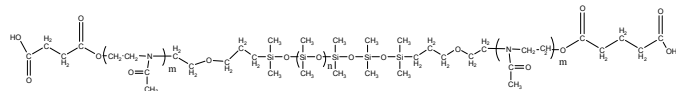
Sample Name:

**$\alpha$ - $\omega$ - dicarboxylic acid End Functionalized  
Poly(2-methyloxazoline-b-dimethylsiloxane-b-  
2-methyloxazoline) Triblock Copolymer**

Sample #:

**P19431-MEOXZDMSMEOXZ2COOH**

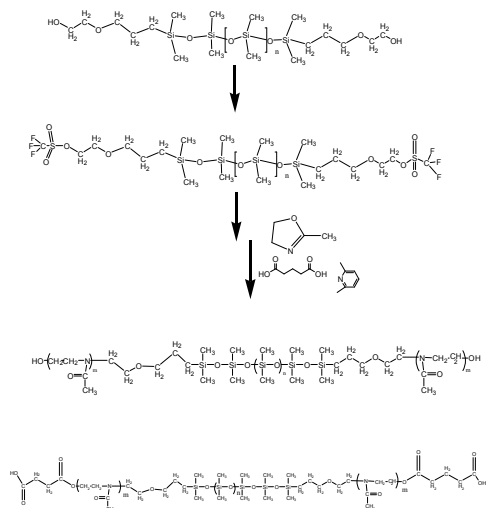
Structure:



Composition:

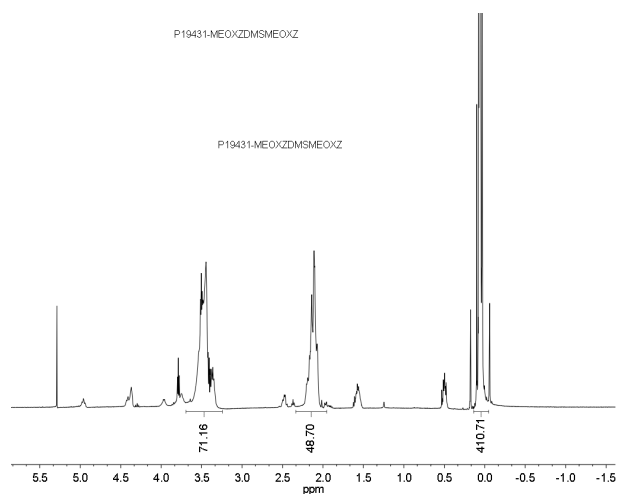
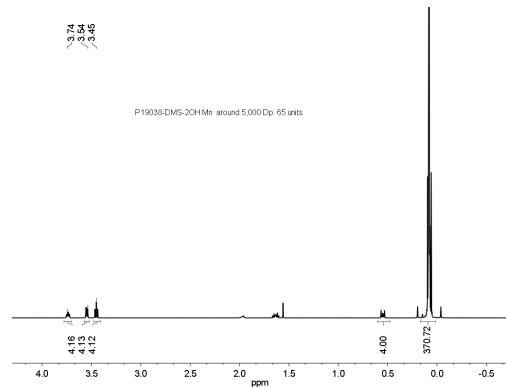
Mn x 10 <sup>3</sup> (g/mol)	M <sub>w</sub> /M <sub>n</sub>
1.0-b-5.0-b-1.0	1.4

**Synthesis:** The reaction of polymerization can be illustrated as follows:

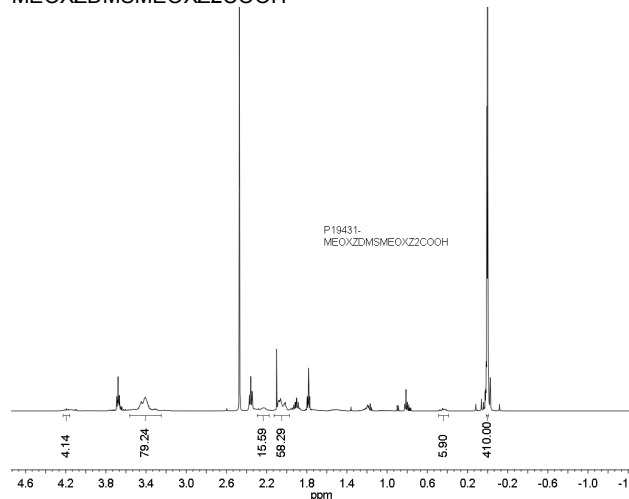


**Characterization: SEC and <sup>1</sup>H NMR**

HNMR of dicarbinol terminated PDMS

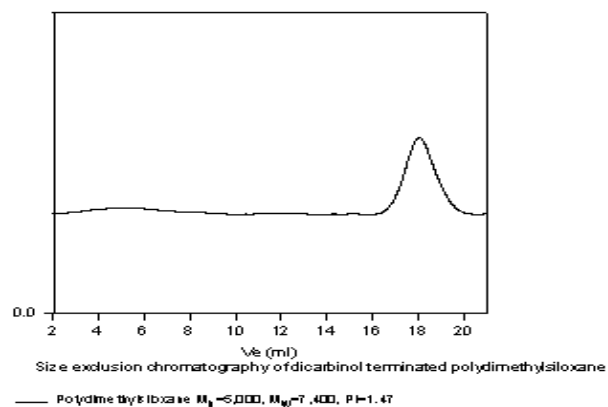


MEOXZDMSMEOXZ2COOH



PDMSdicarbinol used in this polymer:

**DMS2OH (Propyl ethoxy linker)**



Size exclusion chromatography of dicarbinol terminated polydimethylsiloxane

— Polydimethylsiloxane M<sub>n</sub> ~5,000, M<sub>w</sub> ~7,400, PDI ~1.47