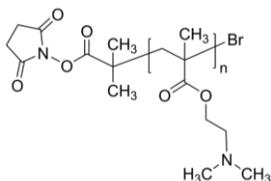


**Sample Name:** Poly(N,N-dimethylaminoethyl methacrylate),  $\alpha$ -(N-hydroxysuccinimidyl)-terminated

**Sample #:** P60703C-DMAEMA-NHS

**Structure:**

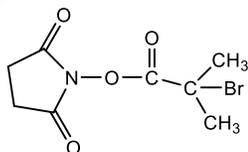


**Composition:**

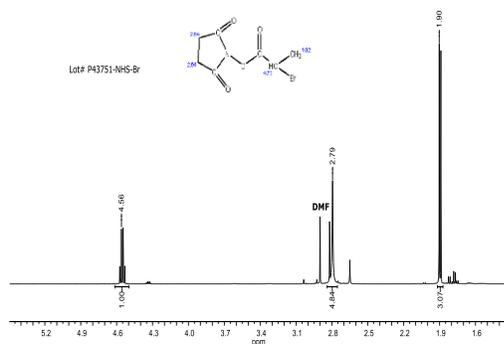
$M_n \times 10^3$	PDI
42.0	1.4

**Synthesis Procedure:**

The polymer was synthesized by ATRP polymerization process using following ATRP Reagent:



**$^1\text{H}$  NMR spectrum of ATRP (400 MHz,  $\text{CDCl}_3$ ):**



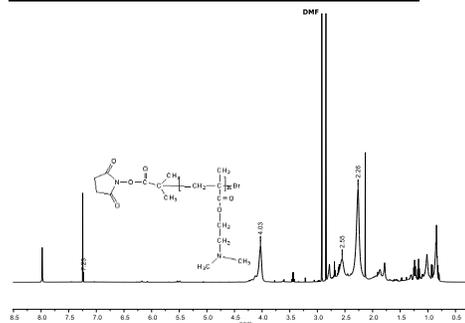
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and  $^1\text{H}$  NMR data analysis, and FTIR for qualitative analysis.

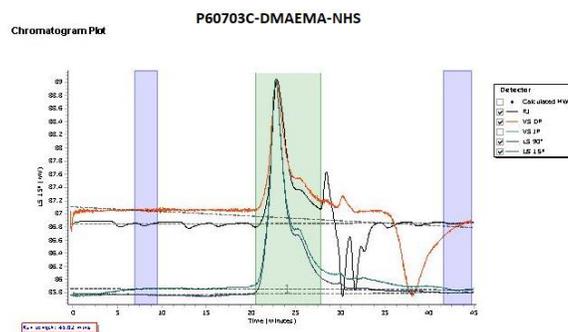
**Solubility:**

Polymer is soluble in water.

**$^1\text{H}$  NMR spectrum of the monomer run  $\text{CDCl}_3$  Poly NNDMAEMA-NHS:**



**SEC elugram of the Sample:**



**Molecular Weight Averages**

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	75346	41377	59454	72651	82040	72483	1.416

**FTIR spectrum of the Sample:**

