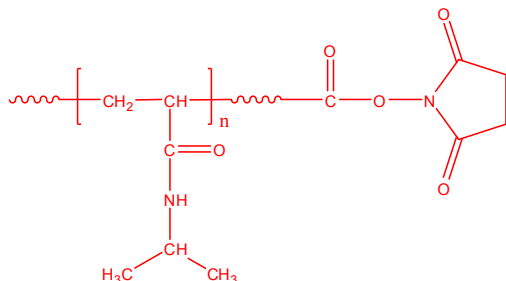


Sample Name: NHS Terminated Poly(N-isopropyl acrylamide)

Sample #: P6850-NIPAMNHS

Structure:

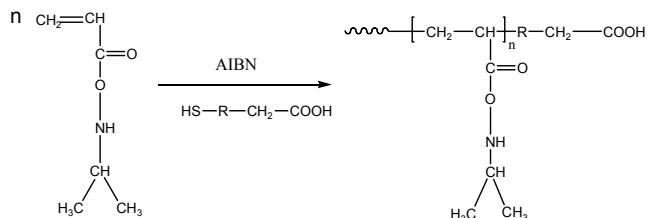


Composition:

Mn x 10 ³	PDI
9.0	1.80

Synthesis Procedure:

Carboxy Terminated Poly(N-isopropyl acrylamide) was prepared by free-radical polymerization of N-isopropyl acrylamide with a carboxyl containing chain-transfer agent. The final polymer was purified by fractionation and the scheme of the reaction is illustrated below:

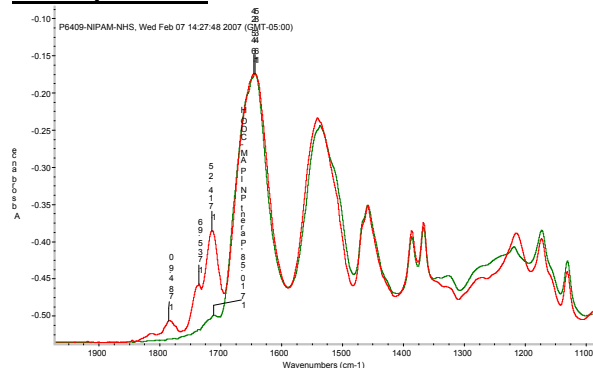


NHS group was converted by reacting with N-hydroxysuccinimide under catalysis of DCC.

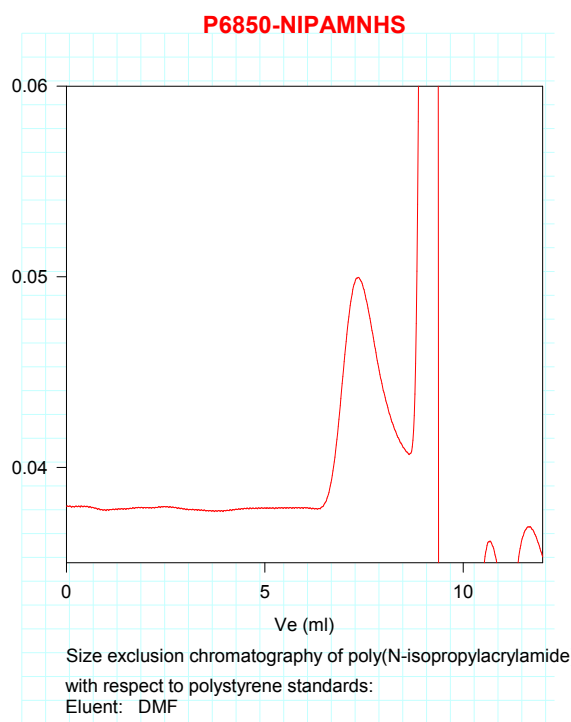
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

FTIR spectrum:



SEC of Sample:



NMR spectrum:

