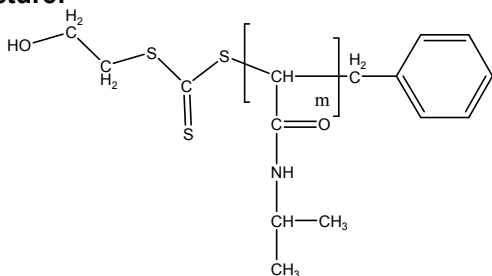


Sample Name: Hydroxy end terminated Poly(N-isopropyl acrylamide)

Sample #: # P11137B-NIPAMOH
synthesized using RAFT polymerization process

Structure:

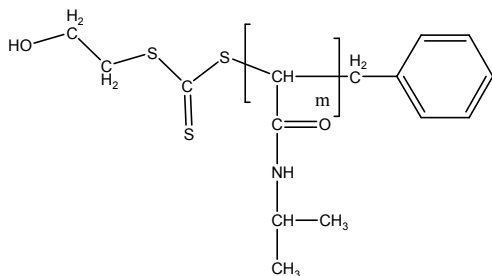
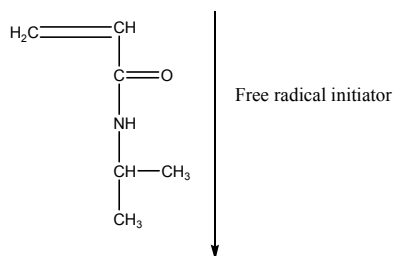
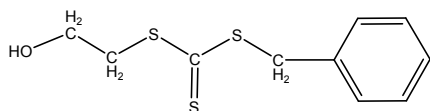


Composition:

Mn x 10 ³	PDI
5.0	1.05

Synthesis Procedure:

OH end terminated Poly(N-isopropyl acrylamide) is obtained by RAFT polymerization as reported in Macromolecules 2002, 35, 6819. The scheme of the polymerization is illustrated below:

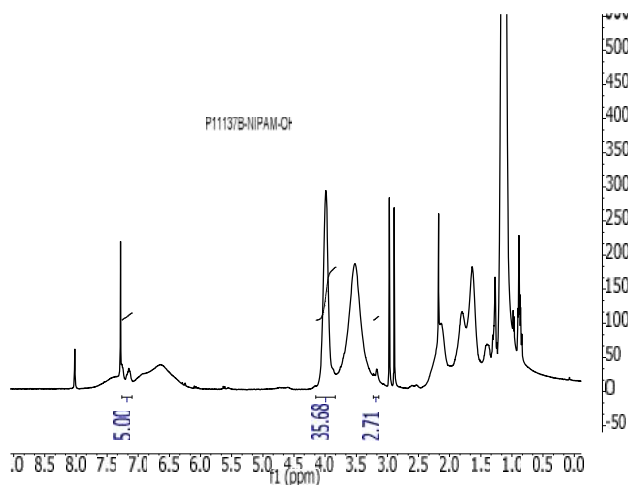


Characterization:

The molecular weight and polydispersity index (PDI) of poly(N-isopropyl acrylamide) are obtained by size exclusion chromatography in DMF using LiBr 0.01M solution.

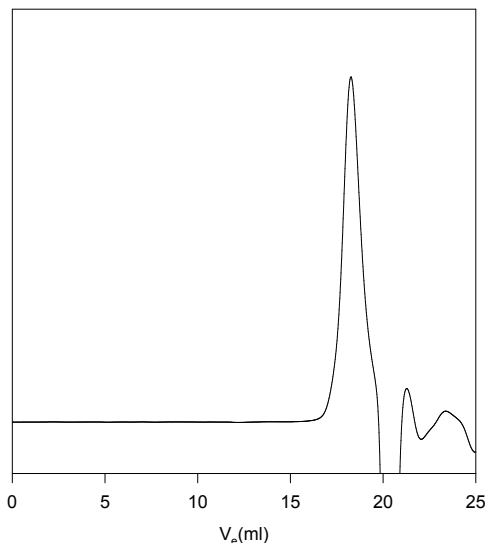
Solubility:

Poly(N-isopropyl acrylamide) is soluble in water, DMF, THF, acetone, insoluble in hexane and ether.



SEC of Homopolymer:

P11137B-NIPAM



Size exclusion chromatography of N-Isopropyl Acrylamide in DMF/LiBr(0.01M)

Molecular Weight Distribution with respect to Polystyrene Standards:

Mn : 5,000 Mw/Mn = 1.05