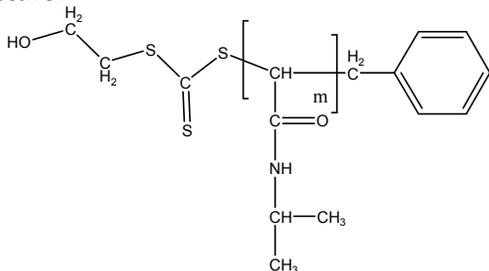


**Sample Name: Hydroxy end terminated Poly(N-isopropyl acrylamide)**

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

**Structure:**

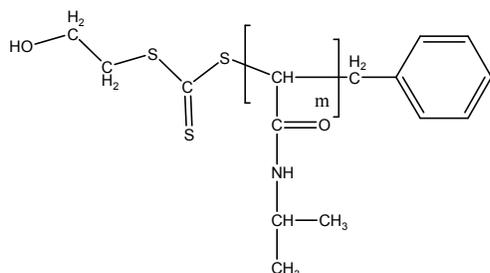
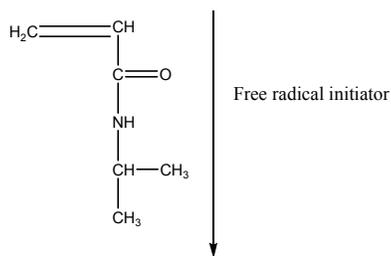
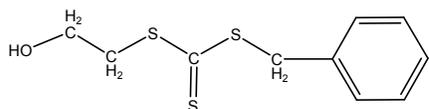


**Composition:**

Mn x 10 <sup>3</sup>	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:

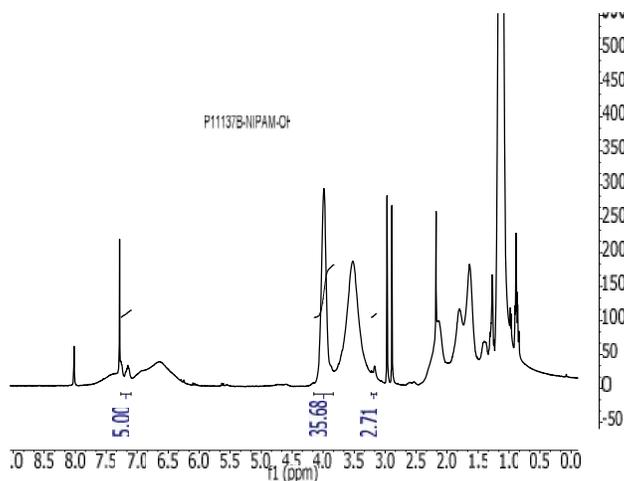


**Characterization:**

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.

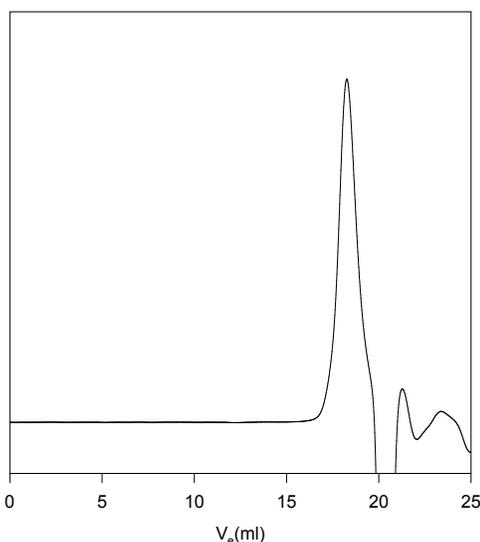
**Solubility:**

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