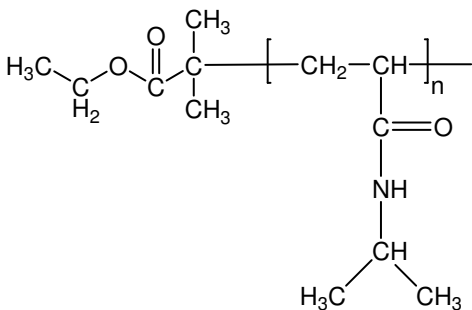


Sample Name: Poly(N-Isopropyl Acrylamide)

Sample #: P16044-NIPAM

Structure:



Composition:

Mn x 10 ³	PDI
338.5	2.15

Synthesis Procedure:

Poly(N-isopropyl acrylamide) was prepared by ATRP polymerization process.

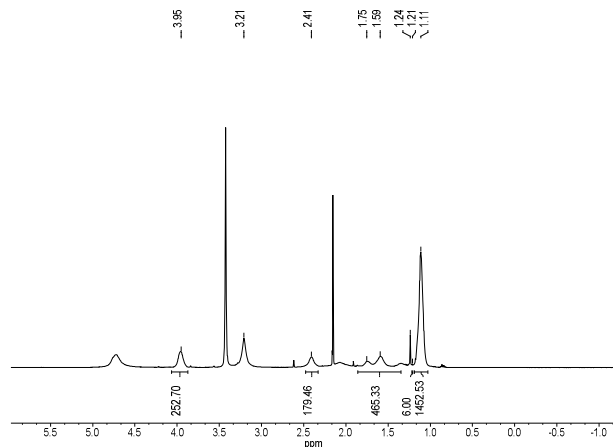
Characterization:

The polymer was characterized by SEC in DMF and ¹H NMR.

Purification of polymer:

Unreacted monomer was removed by dissolving the product in cold water, followed by warming the solution. The polymer separated out. This procedure was applied 2 times to remove the un-reacted monomer. The obtained polymer was dissolved in acetone and fractionated from hexane.

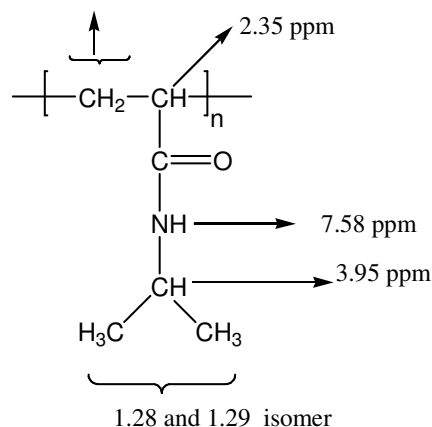
¹H NMR spectrum of the polymer:



m, m isocontents

1.9 and 1.7

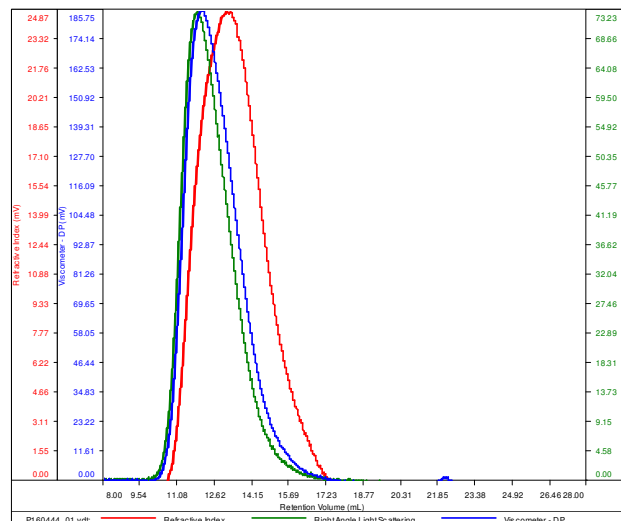
while r contents : 1.6ppm



SEC elugram of the polymer in DMF:

P16044-NIPAM

Conc (mg/mL)	3.8359
dn/dc (mL/g)	0.0770
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
_P160444_01.vdt	338,692	736,319	484,943	2.174	1.3236