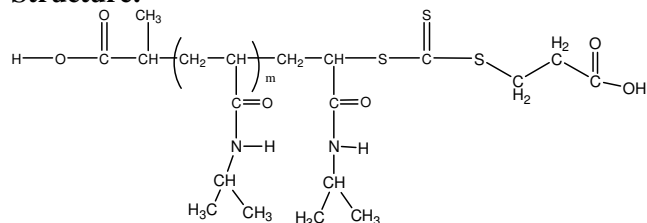


Sample Name: α,ω -dicarboxy terminated poly(N-isopropyl acrylamide)

Sample #: P16040F-NIPAM2COOH

Structure:



Composition:

Mn x 10 ³	PDI
24.5	1.16

Synthesis Procedure:

α,ω -dicarboxy Terminated Poly(N-isopropyl acrylamide) was prepared by RAFT process.

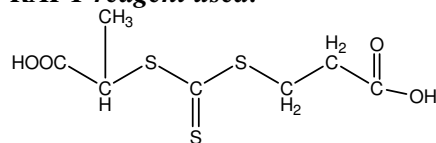
Characterization:

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 with triple detector in DMF at 50°C.

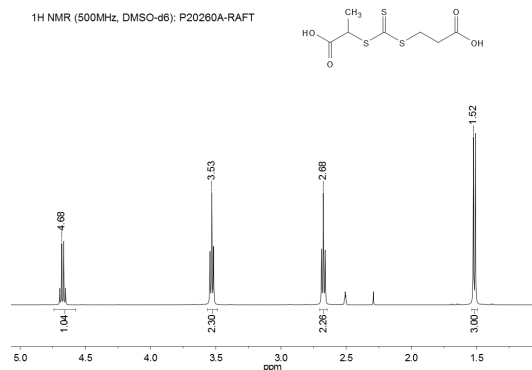
Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

RAFT reagent used:



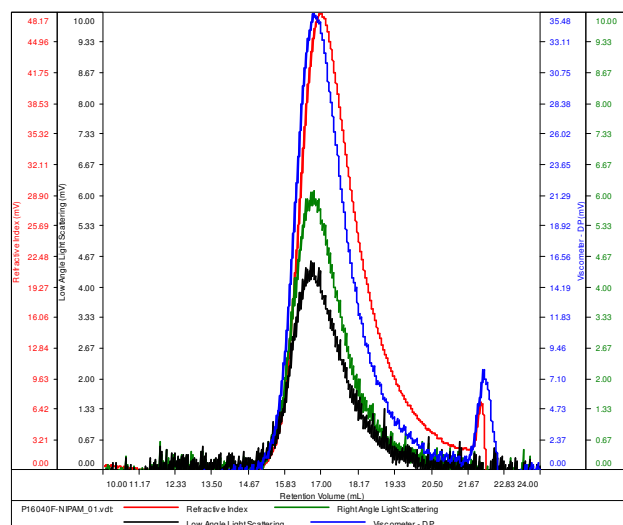
¹H NMR spectrum of the RAFT reagent:



SEC elugram of the polymer:

P16040F-NIPAM2COOH

Conc (mg/mL)	5.2711
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
P16040F-NIPAM_01.vdt	24,436	28,280	30,414	1.157	0.1486

DSC thermogram of the polymer:

