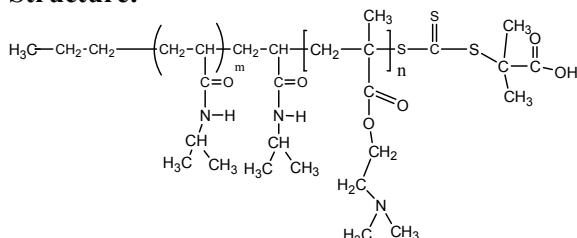


Sample Name:

Poly (N-isopropylacrylamide -b- NN-dimethylaminoethylmethacrylate)

Sample #: **P16068D-NIPAMDMAEMA**

Structure:



Composition:

Mn x 10³ PNIPAM-b-NNDMAEMA	PDI
7.5-b-2.0	1.27

Synthesis Procedure: Poly (N-isopropylacrylamide -b- NN-dimethylaminoethylmethacrylate) was synthesized by atom transfer radical polymerization.

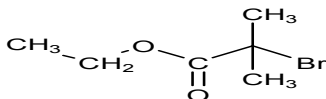
Characterization:

The molecular weight and polydispersity index (PDI) of diblock copolymer were obtained by size exclusion chromatography (SEC). The composition of the polymer was characterized by NMR.

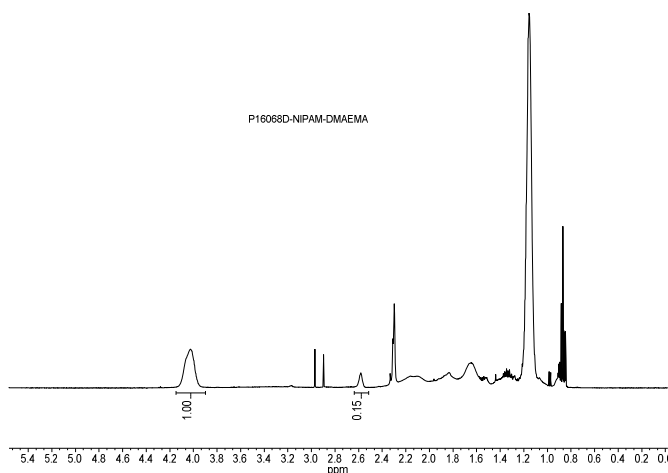
Solubility:

The polymer is soluble in THF, DMF, and Acetone.

ATRP reagent used for polymerization:



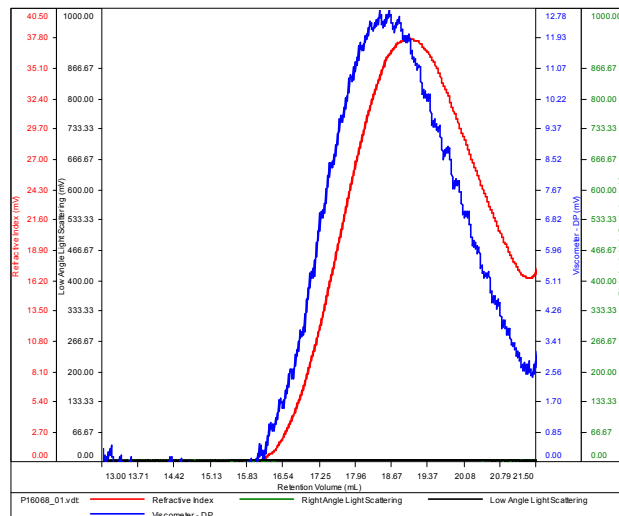
¹H NMR Spectrum of the block copolymer:



SEC elugram of the polymer:

P16068-NIPAM-RAFT

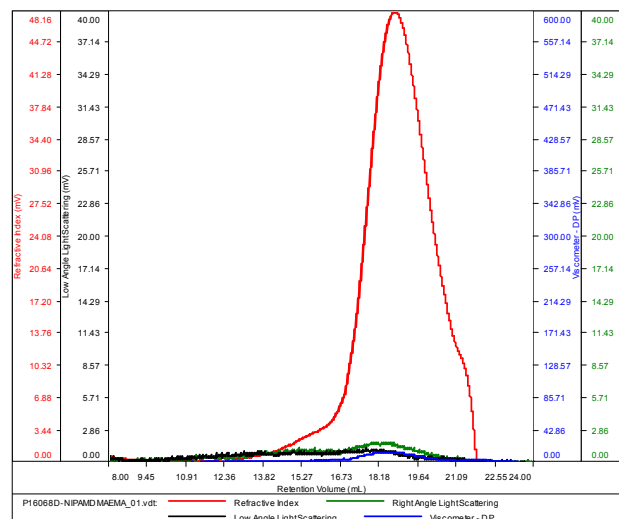
Conc (mg/mL)	5.8012
dn/dc (mL/g)	0.0770
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16068_01.vdt	7,445	9,520	8,240	1.279	0.0722

P16068d-NIPAMDMAEMA

Conc (mg/mL)	12.3019
dn/dc (mL/g)	0.0650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16068D-NIPAMDMAEMA_01.vdt	9,727	12,367	9,822	1.271	0.0236