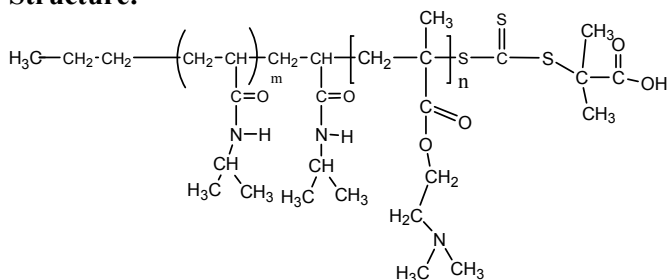


Sample Name:

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

Sample #: **P16068A-NIPAMDMAEMA**

Structure:



Composition:

$\text{Mn} \times 10^3$ PNIPAM-b-NNDMAEMA	PDI
11.0-b-0.9	1.25

Synthesis Procedure:

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

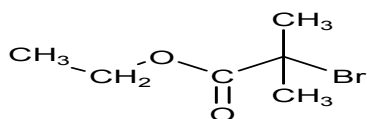
Characterization:

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.

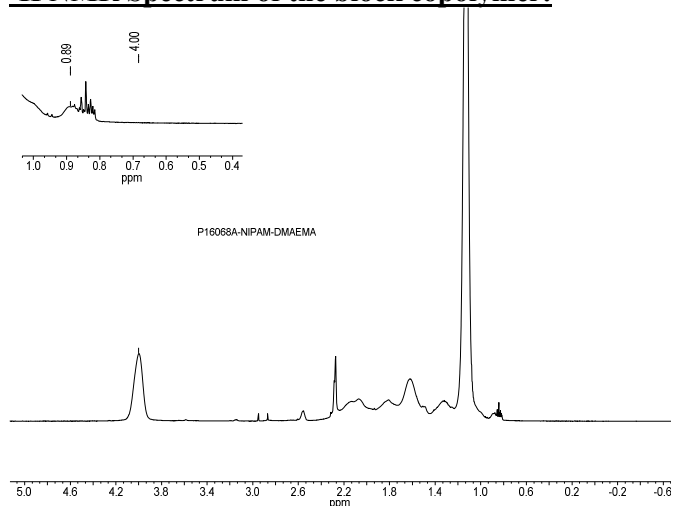
Solubility:

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

ATRP reagent used for polymerization:



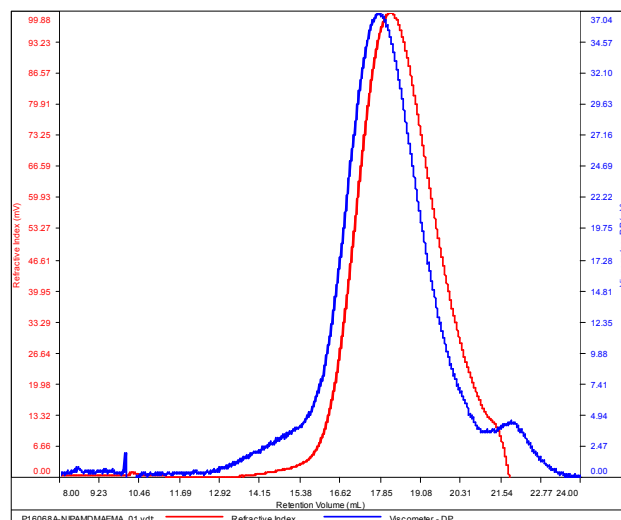
¹H NMR Spectrum of the block copolymer:



SEC elugram of the polymer:

P16068A-NIPAM-DMAEMA

Conc (mg/mL)	26.6631
dn/dc (mL/g)	0.0650
Method	PSS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16068A-NIPAMDMAEMA_01.vdt	11,915	14,919	13,753	1.252	0.0428