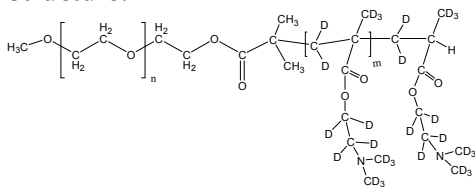


Sample Name:

Poly (ethylene oxide -b- Deuterated (d15)2-(dimethylamino) ethyl methacrylate)

Sample #: P19347- EO d (15) DMAEMA

Structure:



Composition:

Mn x 10 ³	PDI
PEO-b-Pd15-DMAEMA	
9.0-b-7.0	1.19
Dp: 204-b-40	

Synthesis Procedure:

By anionic and control radical process.

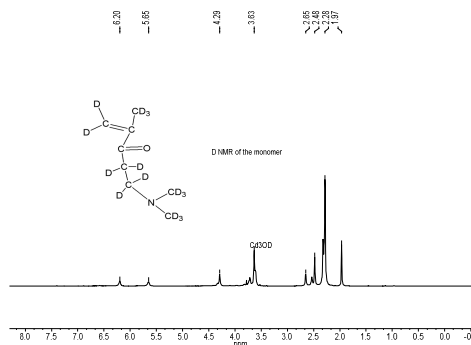
Characterization:

By SEC and HNMR and DNMR.

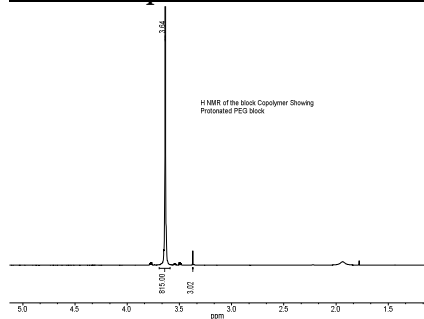
Purification of the polymer and removal of any un-reacted homopolyethylene oxide from the diblock copolymer

Solubility: The polymer is soluble in water.

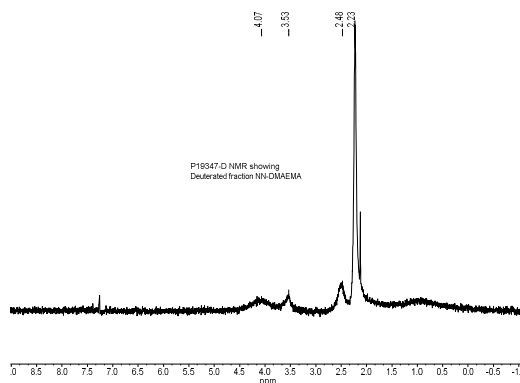
DNMR of the monomer:



¹H-NMR Spectrum of the block copolymer:

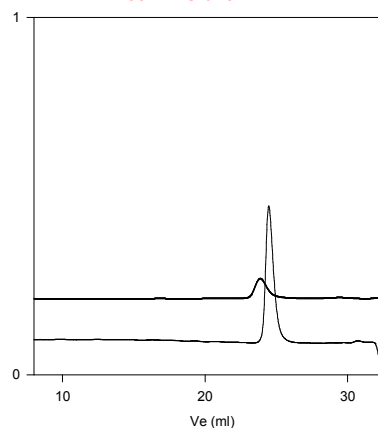


D NMR of the block copolymer



SEC of the polymer:

P19347-EG-d15DMAEMA

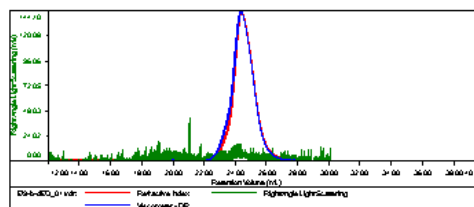


Size exclusion chromatography of the product:

— Poly(ethylene glycol methylether) : M_n=9,000, M_w=9,800, M_w/M_n=1.09
PEO-b-d15 DMAEMA: 9,000-b-7,000 Mw/Mn : 1.19

Sample ID: P19347-EG-d15 DMAEMA

Concentration (mg/mL)	5.5742
Sample chkb (mL/g)	0.0600
Method file	PS80KJune26-2015-0001.vnm
Column set	3x PL 1113-6000
Solvent	THF



Sample	MW/Lower Average (Da)	MW/Upper Average (Da)	MW/Peak (Da)	Polydispersity (Da)	Intrinsic Viscosity (dL/g)
	16,006	19,004	22,073	1.196	0.1822