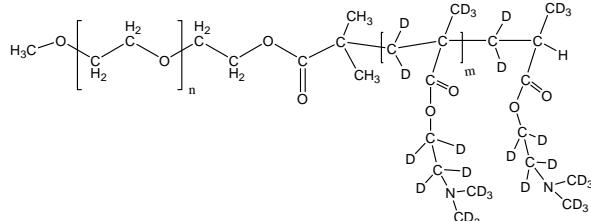


Sample Name:

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

Sample #: P19365-EOd(15)DMAEMA

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| PEO-b-Pd15-DMAEMA | |
| 9.0-b-6.5 | 1.19 |
| Dp: 204-b-42 | |

Synthesis Procedure:

By anionic and control radical process.

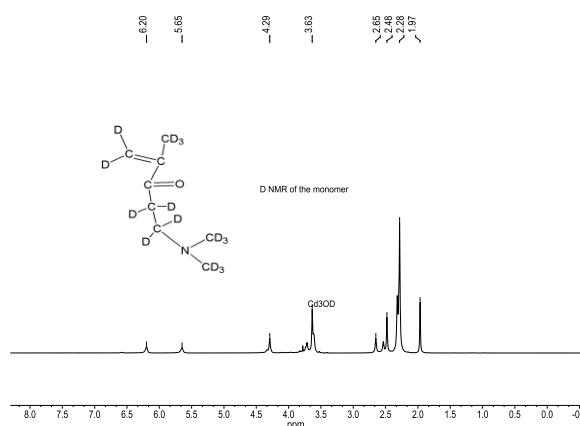
Characterization:

By SEC and HNMR and DNMR.

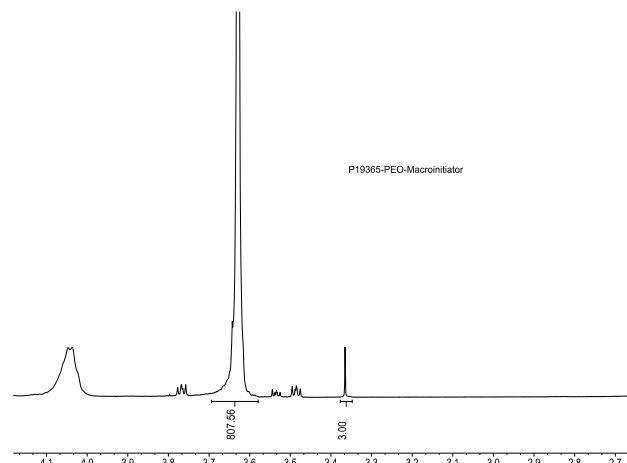
Purification of the polymer and removal of any un-reacted homopolyethylene oxide from the diblock copolymer

Solubility: The polymer is soluble in water.

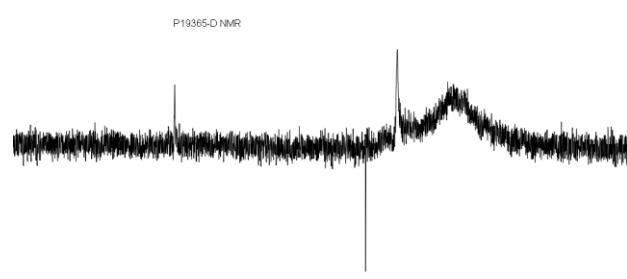
DNMR of the monomer:



¹H-NMR Spectrum of the block copolymer:

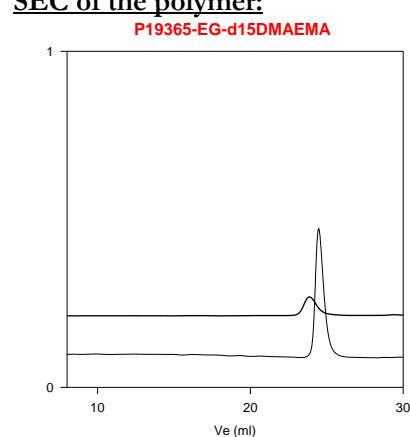


D NMR of the block copolymer



SEC of the polymer:

P19365-EG-d15DMAEMA



Size exclusion chromatography of the product:

Poly(ethylene glycol methyl ether): M_n=9,000, M_w=9,800, M_w/M_n=1.09
PEO-b-d15 DMAEMA: 9,000-b-6,500 Mw/Mn : 1.19