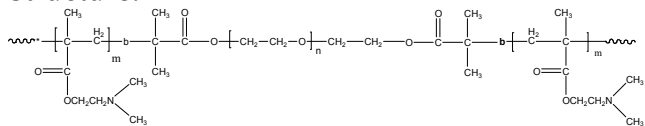


Sample Name:

**Poly(N,N-dimethylaminoethyl methacrylate-
b-ethylene oxide-b-N,N-dimethylaminoethyl
methacrylate)**

Sample #: P5521A-DMAEMAEODMAEMA

Structure:**Composition:**

Mn x 10 ³	PDI
1.6-b-2.0-b-1.6	1.4

Synthesis Procedure:

Polymer is obtained by ATRP polymerization by initiating N,N-dimethyl aminoethyl methacrylate monomer by the bromo terminated polyethylene glycol.

Characterization:

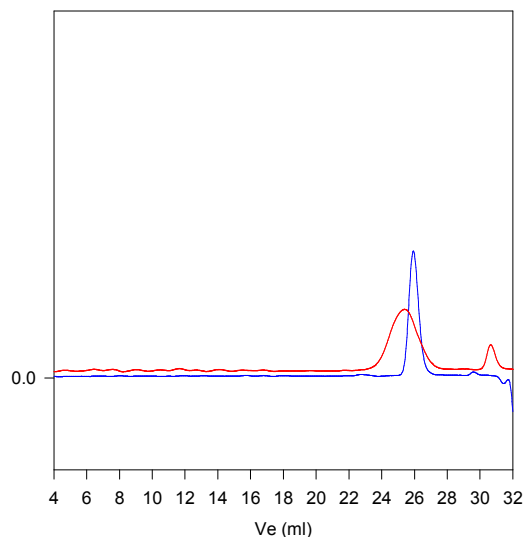
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

The tri-block polymer is soluble in THF, and CHCl₃.

SEC of Sample:

P5521A-DMAEMAEODMAEMA



Size exclusion chromatography of poly(dimethylaminoethyl methacrylate-
b-ethylene oxide-b-dimethylaminoethylmethacrylate):

- Polyethyleneglycol: $M_n=2000$, $M_w=2200$, $PI=1.10$
- Block Copolymer DMAEMA-b-EO-b-DMAEMA
Mn: 1600-b-2000-b-1600, $PI=1.40$
(Composition from ¹H NMR)

¹H NMR of the Polymer: