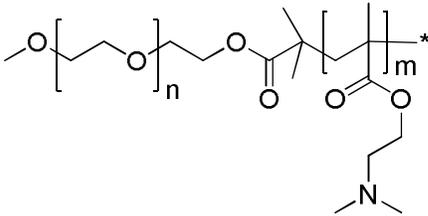


Sample Name:

**Poly[ethylene oxide-b-(2-dimethylaminoethyl) methacrylate]**

Sample #: **P19597A-EODMAEMA**

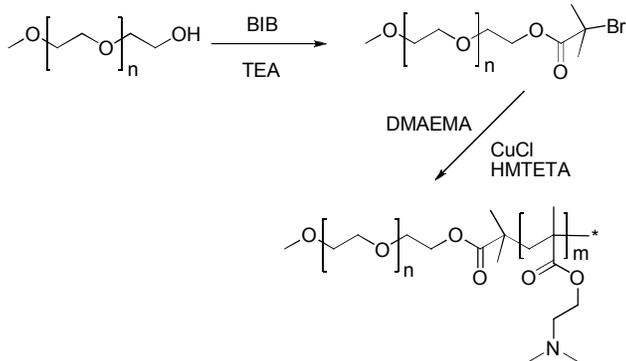
Structure:



Composition:

$M_n \times 10^3$ EO-b-DMAEMA	PDI
1.9-b-2.0	1.25

Synthetic Procedure:



Characterization:

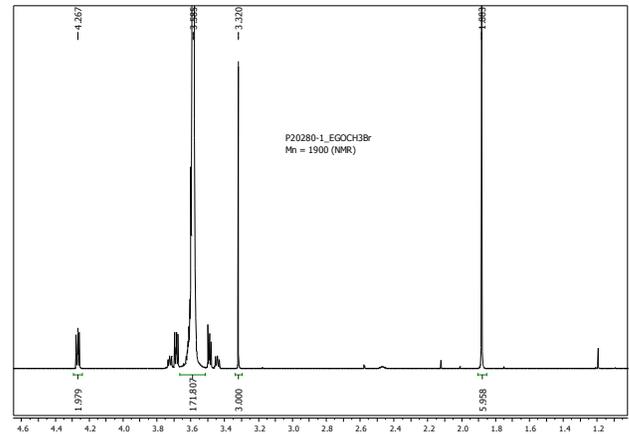
The molecular weight characterization was performed by  $^1\text{H}$  NMR and size exclusion chromatography (SEC) using refractive index and light-scattering detectors.

**Composition:** Composition of the diblock copolymer was determined by  $^1\text{H}$  NMR.

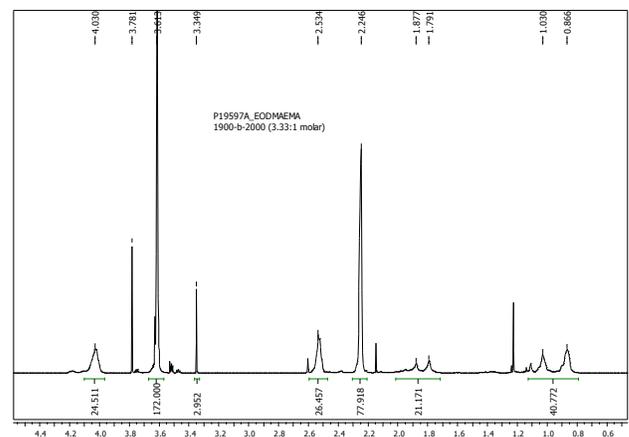
Solubility:

Polymer is soluble in acetone, THF,  $\text{CHCl}_3$  and water. It was precipitated from hexane.

**$^1\text{H}$  NMR of poly(ethylene glycol) bromide:**

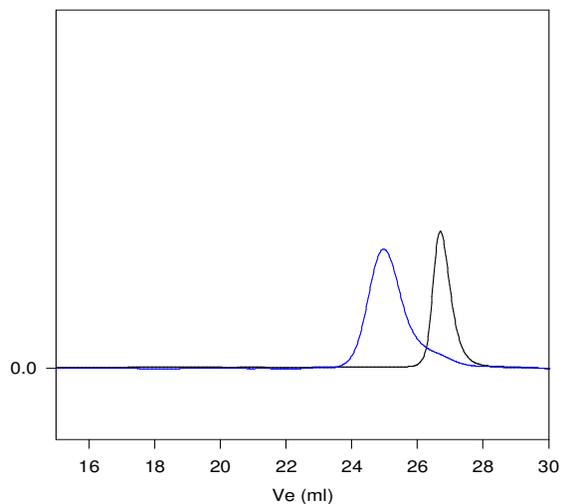


**$^1\text{H}$  NMR of diblock copolymer:**



**SEC elugram:**

**P19597A-EODMAEMA**



Size exclusion chromatography of the product

— PEO,  $M_n=1,900$ ,  $M_w=2,000$ ,  $M_w/M_n=1.05$

— Poly(ethylene oxide-b-N,N-dimethylaminoethylmethacrylate)

$M_n$ : PEO(1,900)-b-DMAEMA( 2,000)  $M_w/M_n=1.25$

(v.K-01)