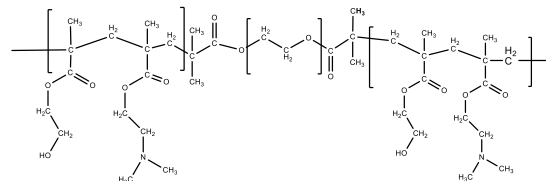


Sample Name: Poly(2-hydroxyethyl methacrylate-co-N,N-dimethylaminoethyl methacrylate)-b-PEG-b-Poly(2-hydroxyethyl methacrylate-co-N,N-dimethylaminoethyl methacrylate),random

Sample #: P43956A-HEMADMAEMA-EG-HEMADMAEMA

Structure:



Composition:

Mn (g mol ⁻¹) PEG Block	Mn total (g mol ⁻¹)	Mw/Mn
20.0	74.0	1.2
HEMADMAEMA-PEG-HEMADMAEMA DP: 209-33-b-454-b-209-33		

Synthesis Procedure:

The polymer is prepared by ATRP process using α,ω -dibromo PEG.

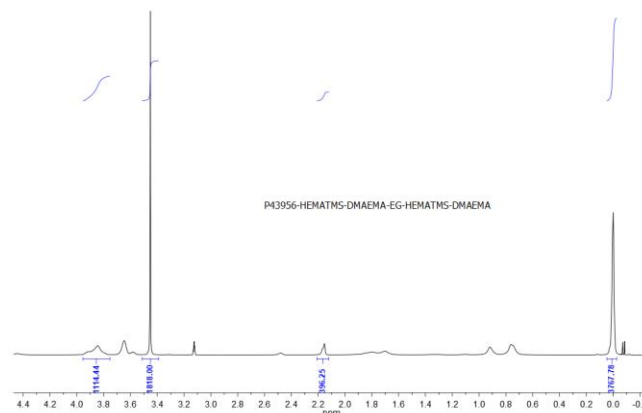
Characterization:

The molecular weight and polydispersity index (PDI) were calculated by SEC using water as an eluent. The copolymer composition was calculated from ¹H-NMR spectroscopy.

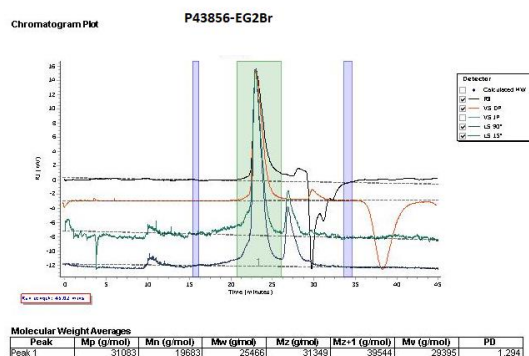
Solubility:

The polymer is soluble in water.

¹H-NMR Spectrum of Copolymer:



SEC elugram of the PEG Block:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Me (g/mol)	PDI
Peak 1	31083	19683	25466	31349	39544	29395	1.294

SEC elugram of the random copolymer:

