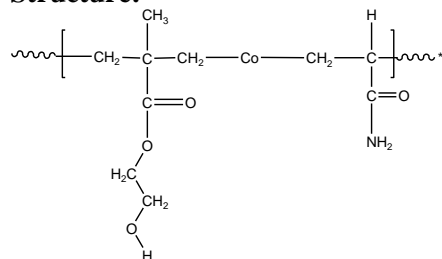


Sample Name: Random Copolymer Poly (2-Hydroxy ethyl methacrylate-co-Acrylamide)

Sample #: P41067D-HEMAAMDran

Structure:



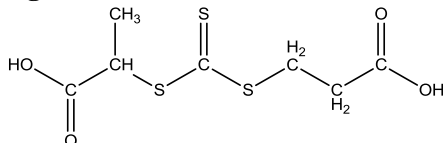
Composition:

Mn x 10 ³ HEMA-co-AMD	PDI
40.0	1.3
HEMA:AMD molar ratio	65:35
Solubility in Water	yes

Synthesis Procedure:

The polymer was synthesized by RAFT process using following RAFT reagent:

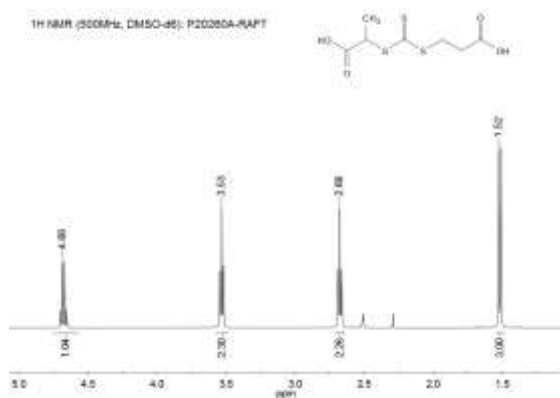
RAFT reagent Structure:



Chemical Formula: C₇H₁₀O₄S₃
Molecular Weight: 254.3

Purity:	> 95 %
Storage temperature:	2–8°C

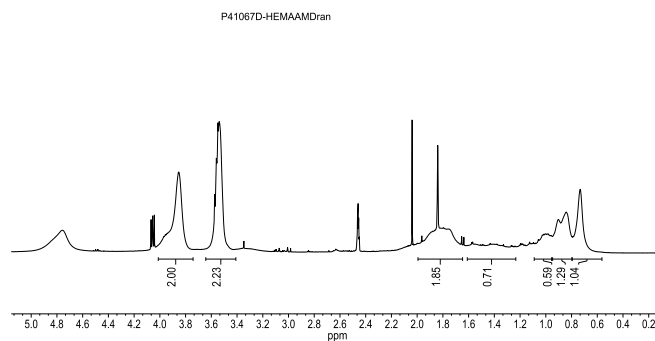
¹H NMR spectrum of RAFT reagent (500 MHz, DMSO-d₆):



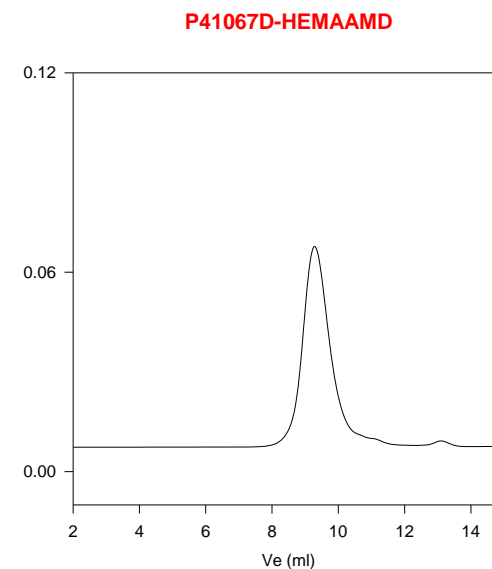
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

¹H NMR spectrum of the polymer runs in DMF:



SEC elugram of the polymer:



Size Exclusion Chromatography of Poly(acrylamide)

Mn :40,000 MW: 52,000 M_w/M_n=1.3