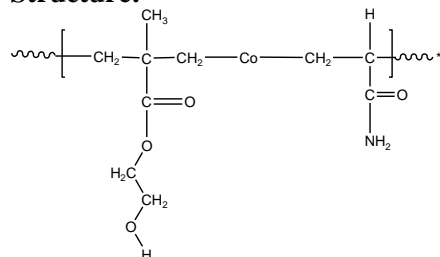


Sample Name: Random Copolymer Poly (2-Hydroxy ethyl methacrylate-co-Acrylamide)

Sample #: P41067B-HEMAAMDran

Structure:



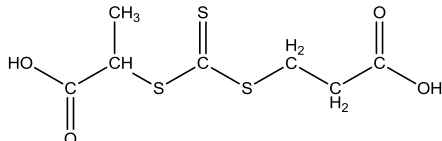
Composition:

Mn x 10 ³ HEMA-co-AMD	PDI
50.0	1.16
HEMA:AMD molar ratio	95:5
Solubility in Water	NO

Synthesis Procedure:

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

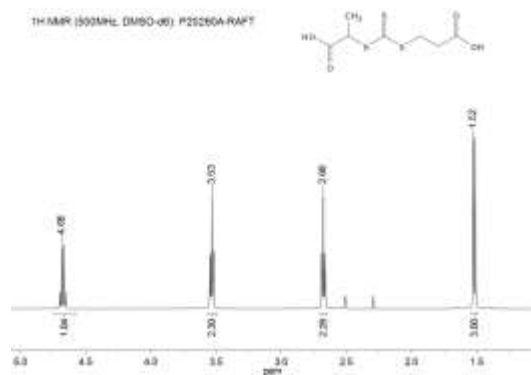
RAFT reagent Structure:



Chemical Formula: C₇H₁₀O₄S₂
Molecular Weight: 254.3

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

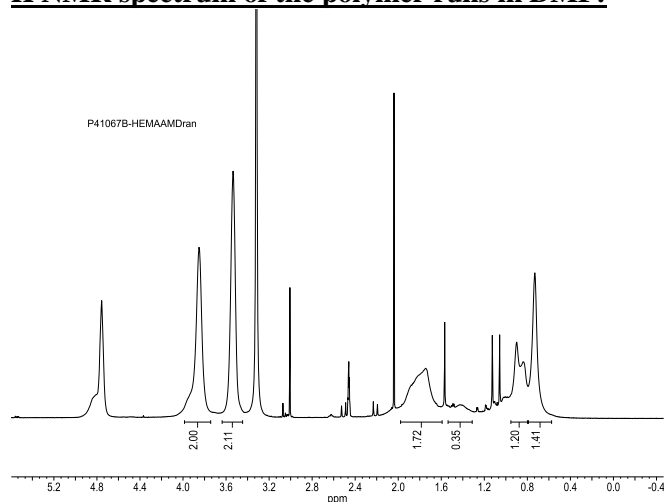
¹H NMR spectrum of RAFT reagent (500 MHz, DMSO-d₆):



Characterization:

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

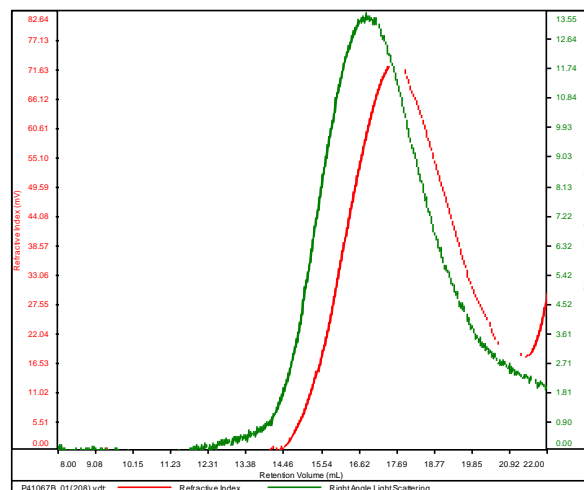
H NMR spectrum of the polymer runs in DMF:



SEC elugram of the polymer:

P41067B-HEMAAMDran

Conc	15.7423
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-02-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41067B_01(208).vdt	50,058	58,310	51,248	1.165	0.1705