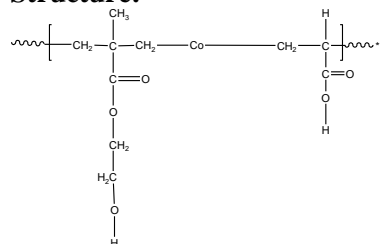


Sample Name: Random Copolymer Poly (2-Hydroxy ethyl methacrylate-co-Acrylamide)

Sample #: P41067A-HEMAAMDran

Structure:



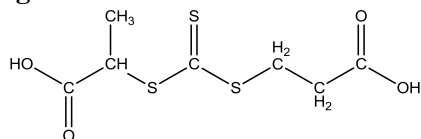
Composition:

| | |
|-------------------------------------|------|
| Mn x 10 ³ HEMA-co-AMD | PDI |
| 39.0 | 1.33 |
| HEMA:AMD molar ratio | 96:4 |
| Solubility in Water | No |

Synthesis Procedure:

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

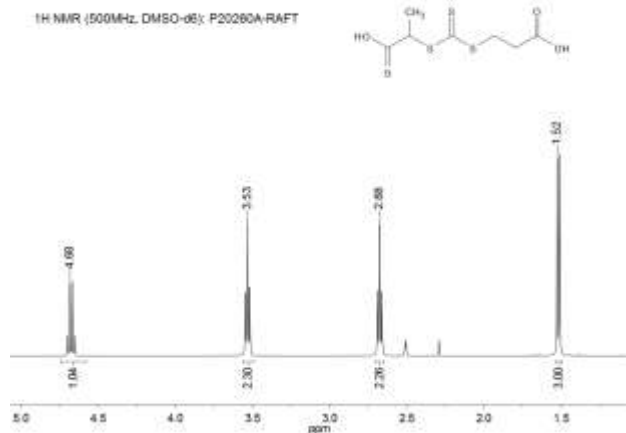
RAFT reagent Structure:



Chemical Formula: C₇H₁₀O₄S₃
Molecular Weight: 254.3

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

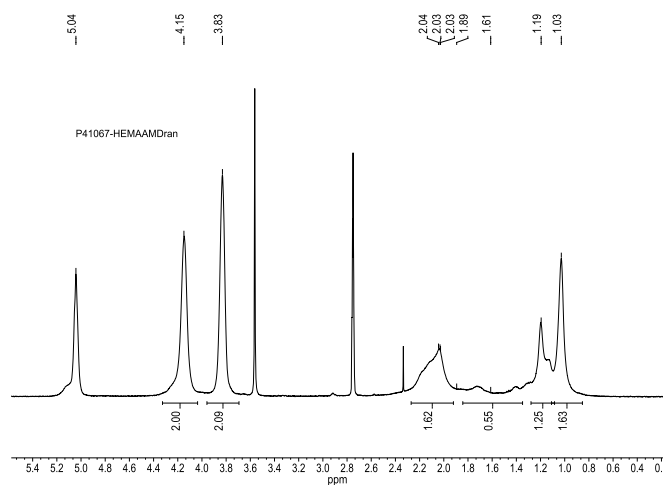
¹H NMR spectrum of RAFT reagent (500 MHz, DMSO-d₆):



Characterization:

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

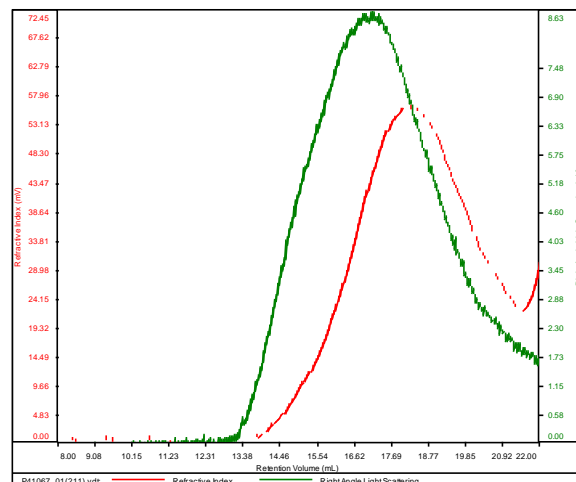
¹H NMR spectrum of the polymer runs in DMF:



SEC elugram of the polymer:

P41067-HEMAAMDran

| | |
|-----------|---------------------------|
| Conc | 14.0268 |
| 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 |
|--------------------|--------|--------|--------|-------|--------|
| P41067_01(211).vdt | 39,192 | 52,246 | 39,439 | 1.333 | 0.1206 |