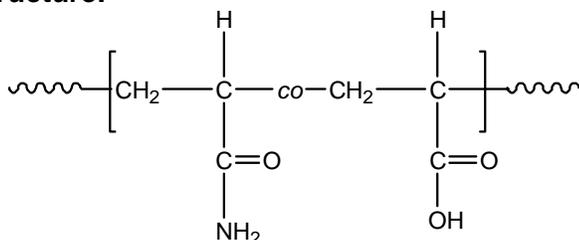


Sample Name: Random Copolymer
Poly(Acrylamide-co-Acrylic Acid)

Sample #: P14812A-AMDAAran

SEC elugram:
P14812-AMDAAran

Structure:



Composition:

| | |
|----------------------|-------|
| Mn x 10 ³ | PDI |
| 140.0 | 1.5 |
| Ratio AMD:AA | 90:10 |

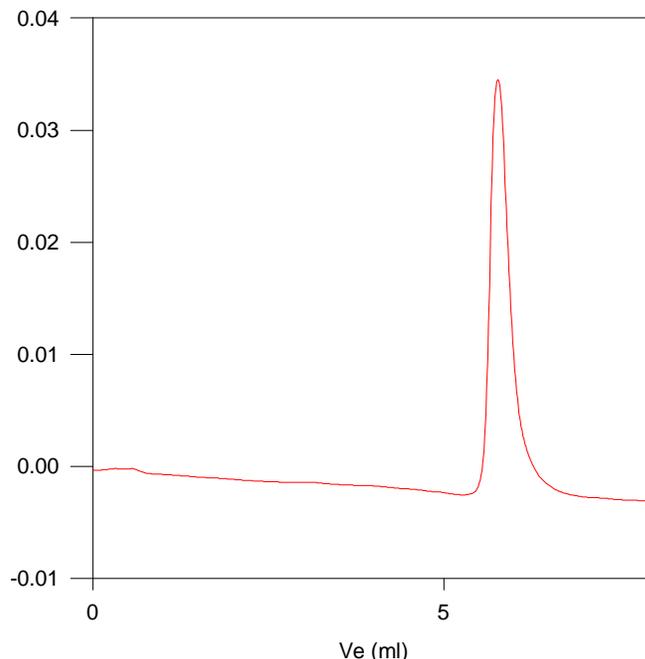
Synthesis Procedure:

The polymer was prepared by RAFT process.

Characterization:

The molecular weight and polydispersity index (PDI) were calculated by size exclusion chromatography (SEC) using water buffer solution (0.05M NaHCO₃; 0.1M NaNO₃; 0.02M triethanol amine; 0.03% NaN₃) as an eluent and TSK 3300SWXL cat# 08541 column.

The copolymer composition was calculated by acid base titration.



Size exclusion chromatograph of random copolymer of Acrylamide and acrylic acid:
M_n = 140,000 Mw: 210,000 Mw/Mn 1.5

¹H NMR spectrum (500MHz, D₂O):

