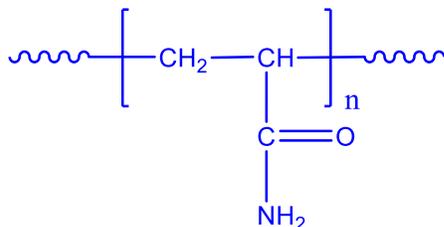


Sample Name: Poly(acrylamide)

Sample #: P16211-AMD

Structure:

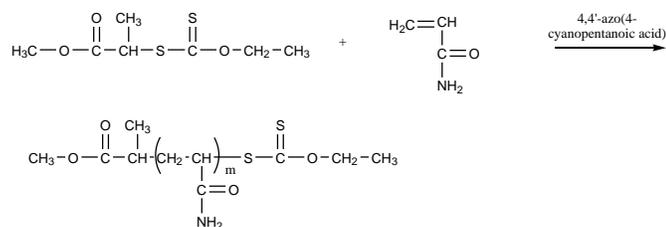


Composition:

$M_n \times 10^3$	Mw/Mn (PDI)
20.0	1.8

Synthesis Procedure:

Poly(acrylamide) is synthesized by RAFT polymerization of acrylamide using 4,4'-azo(4-cyanopentanoic acid) as initiator and xanthate as chain transfer agent in the mixture of water/isopropanol.



Characterization:

Polyacrylamide was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI) using water containing 0.1M NaNO₃ as an eluent and PEG as a standard.

Solubility:

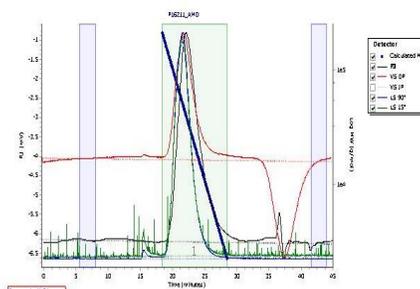
The polymer is soluble in water.

SEC elugram of the polymer:

Agilent GPC/SEC Software

P16211_AMD

Chromatogram Plot



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	4055(1)	2000(2)	3603(3)	5305(4)	6747(2)	4967(4)	1.83(9)

Molecular Weight Averages

Processing Parameters
Method: Last modified by GPC Agilent at 10:33:31 AM on August 28, 2018
Concentration Detector Used in: RI
Analysis:
Injection volume (μL): 100.00
Flow rate (mL/min): 1.00
Concentration options: Calculate Sample Concentration from Entered Sample Properties
Entered eluic. (mL/g): 0.180
Entered Elu. Coeff. [(mg/mL)⁻¹]: (-1.000)
Entered Elu. Coeff. [(mg/mL)⁻¹]: (-1.000)
Calculated RI concentration: 3.809