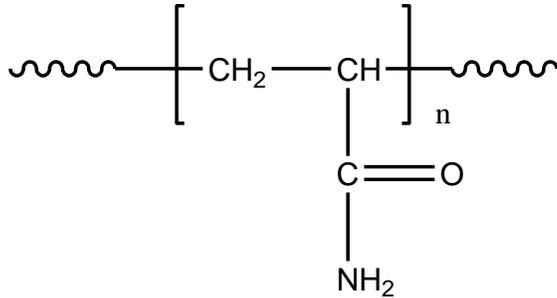


Sample Name: Poly (Acrylamide)

Sample #: P41565-AMD

Structure:



Composition:

$M_n \times 10^3$	M_w/M_n (PDI)
82.0	1.5
T_g ($^{\circ}C$)	184

Synthesis Procedure:

Poly (Acrylamide) was synthesized by controlled radical polymerization process.

Characterization:

The polymer was characterized by size exclusion chromatography (SEC) using State-of-the-art Agilent Technologies 1260 Infinity II GPC system Equipped with triple detector:

Solvent (mobile phase) 2% acetic acid in Millipore water

Filtration: 0.45 μ Nylon Syringe Filter

Columns: Agilent three columns

Flow Rate: 1 ml/min

Injection Volume: 100 μ L

Column Temperature: 30 $^{\circ}C$

Calibration of Instrument using PEO polymer.

Note: Polyacrylamide bearing $M_w > 1M$ are difficult to filter therefore this equipment is highly sensitive where less than 1mg/ml polymer solution can be detected by triple detector.

Solubility:

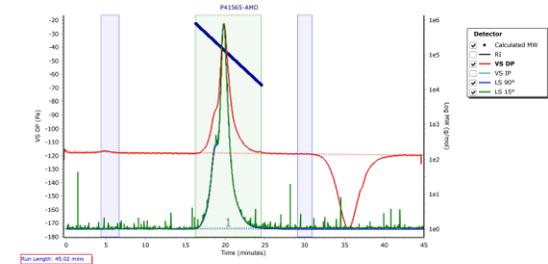
Polymer is soluble in water.

SEC Profile of the Polymer:

Agilent GPC/SEC Software

P41565-AMD

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	140362	82343	129047	186341	211735	158685	1.531

Processing Parameters

Method: Last modified by GPC Agilent at 10:33:31 AM on August 29, 2018
Concentration Detector Used in: RI
Analysis: Concentration Detector Used in
Injection volume (μ L): 100.00
Flow rate (mL/min): 1.00
Concentration options: Calculate Sample Concentration from Entered Sample Properties
Entered dn/dc (mL/g): 0.180
Entered Ext Coeff ((mg/mL) $^{-1}$ cm $^{-1}$): 1.000
Calculated RI concentration (mg/mL): 1.350