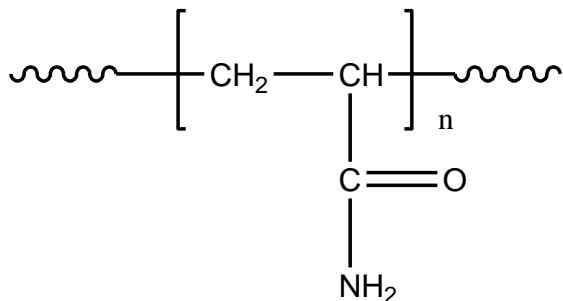


Sample Name: Poly (Acrylamide)

Sample #: P41567-AMD

Structure:



Composition:

Mn × 10 ³	Mw/Mn (PDI)
31.0	1.21
T _g (°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 µNylon Syringe Filter

Columns: Agilent three columns

Flow Rate: 1 ml/min

Injection Volume: 100 µL

Column Temperature: 30 °C

Calibration of Instrument using PEO polymer.

Note: Polyacrylamide bearing Mw > 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:

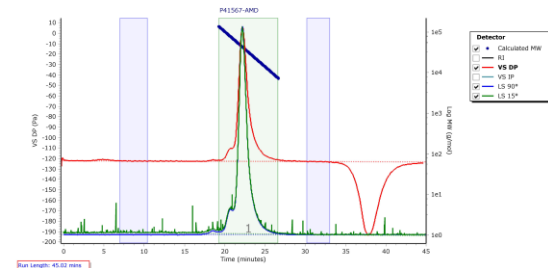
Polymer is soluble in water.

SEC Profile of the Polymer:

Agilent GPC/SEC Software

P41567-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
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Peak 1	42431	31052	37629	43057	48320	42080	1.212
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Processing Parameters

Method	RI	Last modified by GPC Agilent at 10:33:31 AM on August 29, 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 dn/dc (mL/g)	0.180	
Entered Ext Coeff ((mg/mL) ⁻¹ cm ⁻¹)	1.000	
Calculated RI concentration (mg/mL)	3.233	