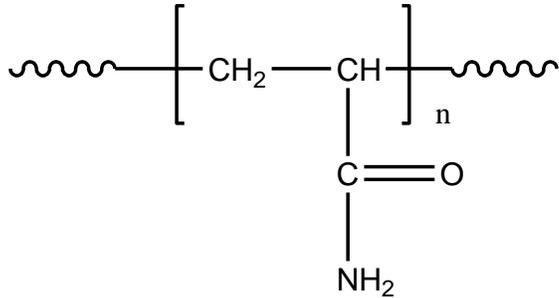


Sample Name: Poly (Acrylamide)

Sample #: P41564-AMD

Structure:



Composition:

Mn × 10 ³	Mw/Mn (PDI)
126.0	1.8
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.

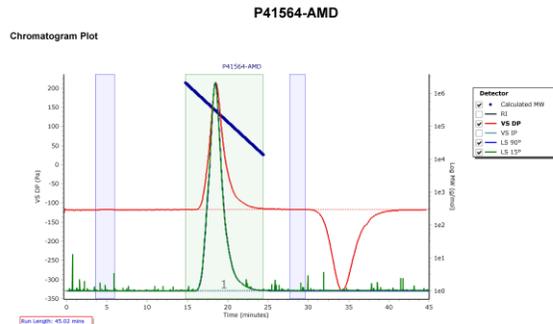
Note: Polyacrylamide bearing Mw > 1M are difficult to filter therefore this equipment is highly sensitive where less than 1mg/ml polymer solution can be detected by triple detector.

Solubility:

Polymer is soluble in water.

SEC Profile of the Polymer:

Agilent GPC/SEC Software



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	277913	126432	226877	305545	368836	293698	1.784

Processing Parameters

Method	Last modified by GPC Agilent at 10:33:31 AM on August 29, 2018
Concentration Detector Used in Analysis	RI
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)	3.428