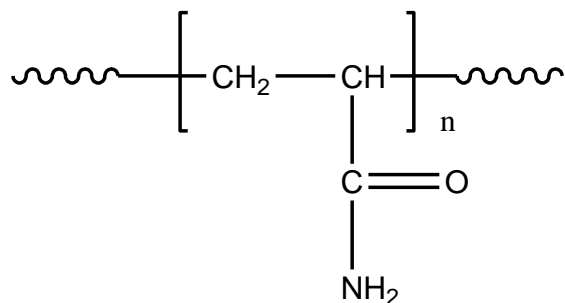


Sample Name: Poly (Acrylamide)

Sample #: P41548-AMD

Structure:



Composition:

| Mn $\times 10^3$ | Mw/Mn (PDI) |
|---------------------|-------------|
| 1,136.0 | 1.15 |
| 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 μ Nylon Syringe Filter

Columns: Agilent three columns

Flow Rate: 1 ml/min

Injection Volume: 100 μ L

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

