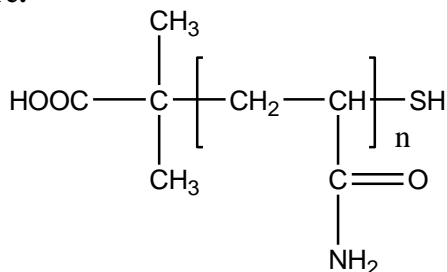


**Sample Name:** Poly(acrylamide)

**Sample #:** P20261A-AMD

**Structure:**

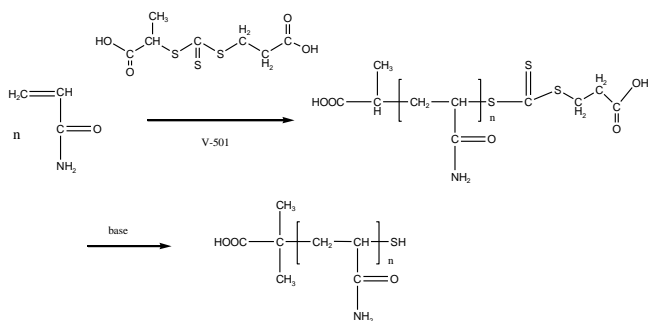


**Composition:**

$\text{Mn} \times 10^3$	Mw/Mn (PDI)
149.0	1.57

**Synthesis Procedure:**

Poly(acrylamide) was synthesized by RAFT polymerization of acrylamide using 4,4'-azo(4-cyanopentanoic acid) as initiator and trithiocarbonate as chain transfer agent in water. The reaction scheme is shown below:



**Characterization:**

Polyacrylamide was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight polydispersity index (PDI) using water containing 0.1MNaNO<sub>3</sub> as eluent.

The molecular weight can be calculated by intrinsic viscosity and by SEC the distribution of the polymer calculated using PEG standards polymers. [Ref.: Suresh K. Jewrajka, and Broja M. Mandal, *Macromolecules*, 2003, 36 (2), 311-317]

**Solubility:**

The polymer is soluble only in water.

**SEC elugram of the polymer:**

Agilent GPC/SEC Software

