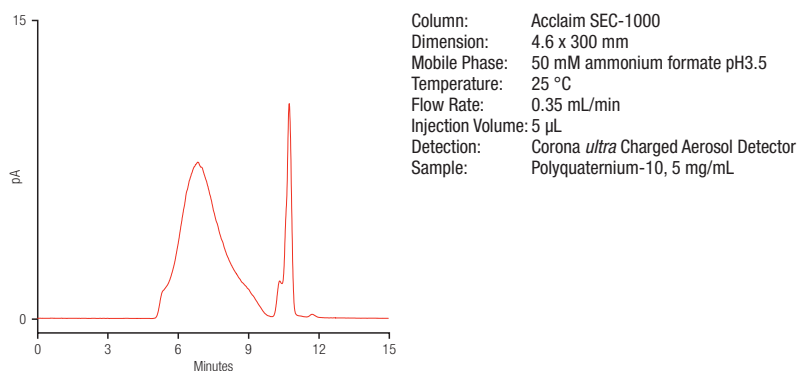


Size Exclusion Chromatography of Polyquaternium-10 Using Acclaim SEC-1000



PB20714_E 01/13S

Polyquaternium-10 is a polymeric quaternary ammonium salt of hydroxyethyl cellulose that is positively charged. At high pH, the presence of hydroxyl groups may reduce the normally high water solubility of quaternary ammonium compounds. The charge on Polyquaternium-10 makes this compound an antistatic agent which helps prevent the condition commonly known as fly-away hair. It is also used as a film former and a hair fixative. Due to the presence of small amount of carboxylate groups in the stationary phase, an acidic buffered mobile phase is required to suppress electrostatic attraction between cationic water-soluble polymers like Polyquaternium-10 and the stationary phase, as shown here.