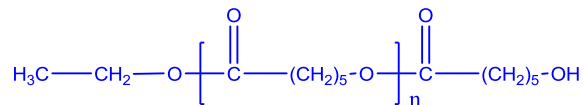


Sample Name: Poly(ϵ -caprolactone)

Sample #: P6795-CL

Structure:



Composition:

$M_n \times 10^3$	PDI
3.5	1.18

Synthesis Procedure:

The polymerization of ϵ -caprolactone can be initiated with a variety of catalysts based on aluminum, tin, barium or HCl.

Purification:

When metal catalysts are employed, the residues are removed by repeated extraction with an aqueous EDTA solution (0.1 mol L^{-1}) followed by washing with water up to neutral pH. The non-polar solvent (usually toluene) is removed under reduced pressure and the polymer is precipitated in a large excess of hexane. The polymer is then freeze-dried after dissolution in benzene.

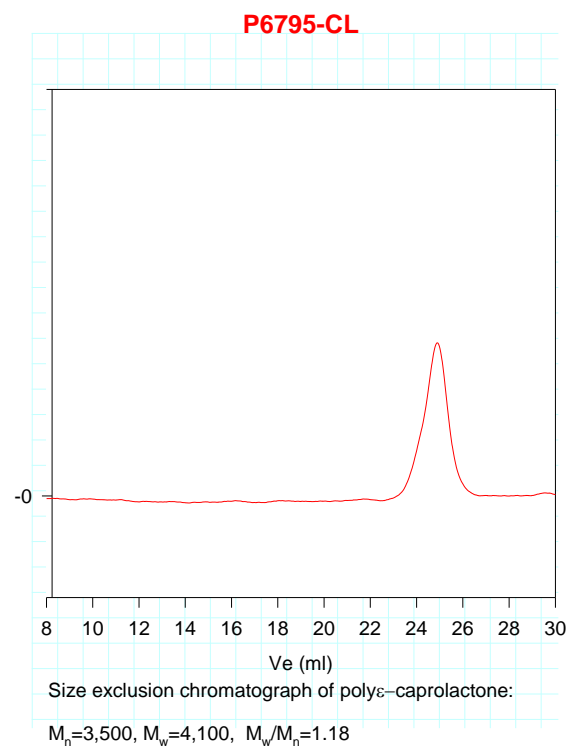
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Solubility:

Poly(ϵ -caprolactone) is soluble in toluene, THF, CHCl_3 and CH_2Cl_2 . The polymer is insoluble in methanol, hexane and ether.

SEC of Sample:



NMR of Sample:

