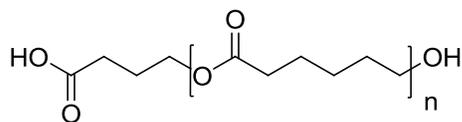


Sample Name: α -Carboxy- ω -Hydroxy-terminated Poly(ϵ -caprolactone)

Sample #: P20108-CL-COOH-OH

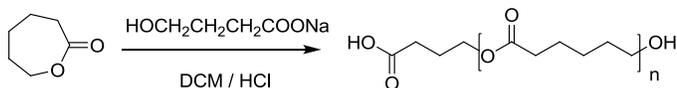


Composition:

$M_n \times 10^3$ HOOC-PCL-OH	PDI
5.2 (NMR)	
5.2 (SEC)	1.4 *

Synthetic Procedure:

HOOC-PCL-OH is prepared by ring-opening polymerization of ϵ -caprolactone according to the scheme illustrated below:



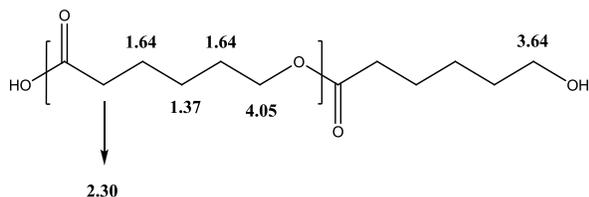
Solubility:

Poly(ϵ -caprolactone) is soluble in CHCl_3 , Acetone, THF, insoluble in methanol, ethanol, ether. Precipitated from Acetone or DCM into hexane or ether.

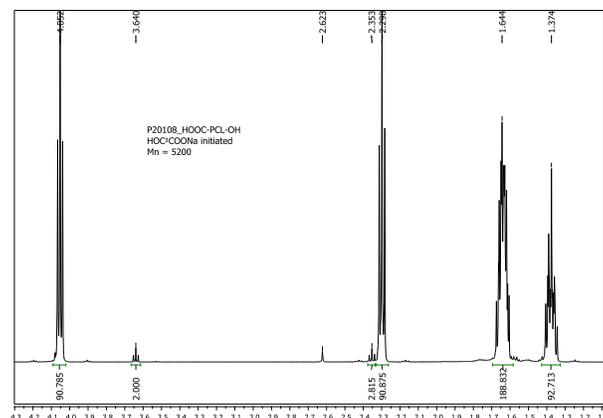
Characterization:

PCL, bearing carboxylic terminal unit, was analyzed by size exclusion chromatography (SEC) to obtain the polydispersity index (PDI) and M_n . M_n was also determined by NMR.

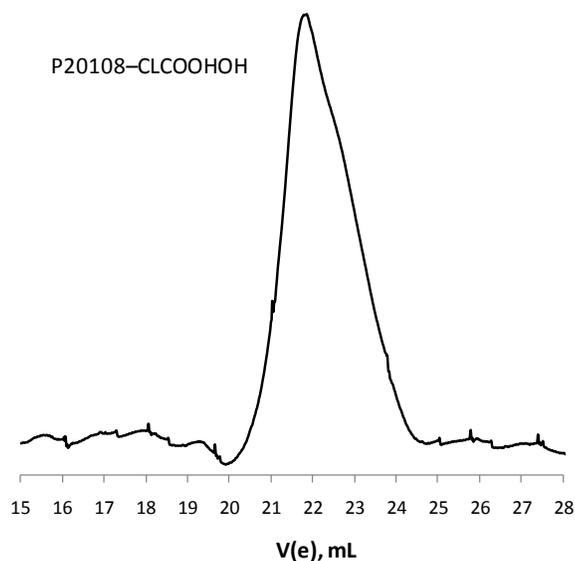
Chemical shifts assignments



^1H NMR of HOOC-PCL-OH



SEC of the polymer:



* N.B.: Certain broadening of the elugram might be due to the strong interaction of COOH-group with the column packing material