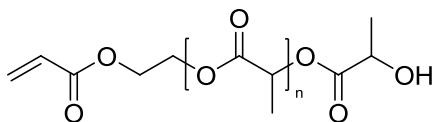


Sample Name: α -Acryloyloxy- ω -Hydroxy-terminated Poly(DL-lactide)

Sample #: P20154-DLLA-Acr

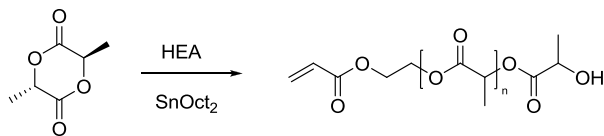


Composition:

$M_n \times 10^3$ PDLLA-Acr	PDI
2.5 (NMR)	1.13
Acrylic functionality $\geq 97\%$ (NMR)	

Synthetic Procedure:

PDLLA-Acr is prepared by ring-opening polymerization of DL-lactide by tin octoate using 2-hydroxyethyl acrylate (HEA) as an initiator. The scheme of the reaction is illustrated below:



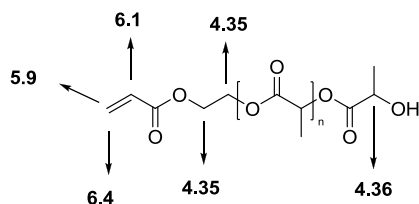
Solubility:

PDLLA is soluble in CHCl_3 , Acetone, THF, insoluble in ethanol, hexane. Precipitated from Acetone or CHCl_3 into EtOH or hexane/EtOH.

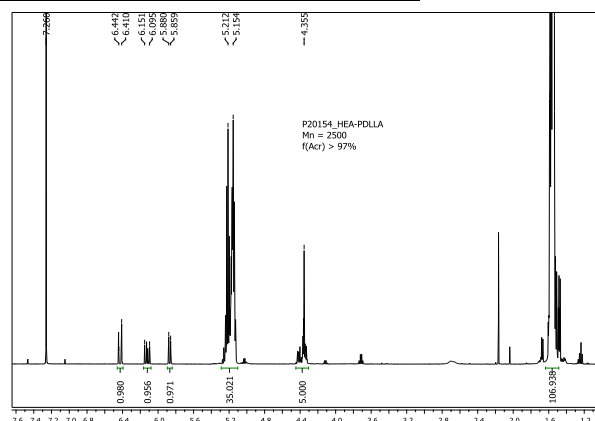
Characterization:

PDLLAs bearing an acryloyl moiety was analyzed by size exclusion chromatography (SEC) to obtain the polydispersity index (PDI). M_n was estimated by NMR. Percentage of vinyl functionality was determined from the integrals ratio of the peaks at 4.40 and 5.9, 6.1 and 6.4 ppm.

Chemical shifts assignments



PDLLA bearing an acryloyl moiety



SEC of the polymer:

