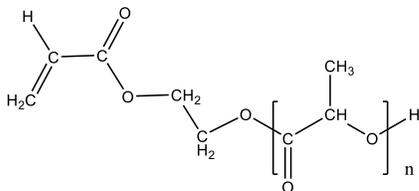


**Sample Name:**  
**Poly(DL-lactide),  $\alpha$ -acryloyloxy terminated**

**Sample #:** P44080B-LA-Acr

**Structure:**

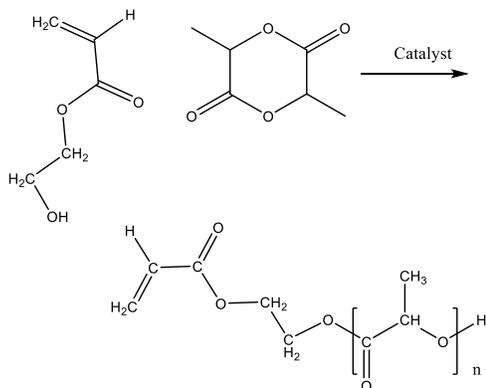


**Composition:**

$M_n \times 10^3$	PDI
9.5	1.2

**Synthetic Procedure:**

The scheme of the reaction is illustrated below:



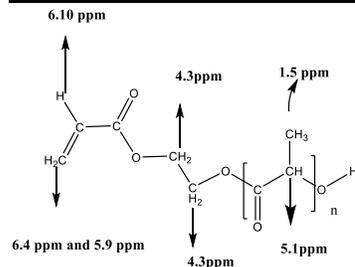
**Solubility:**

PDLLA is soluble in  $\text{CHCl}_3$ , Acetone, THF and it is insoluble in ethanol, hexane. It Precipitated from Acetone or  $\text{CHCl}_3$  into EtOH or hexane/EtOH.

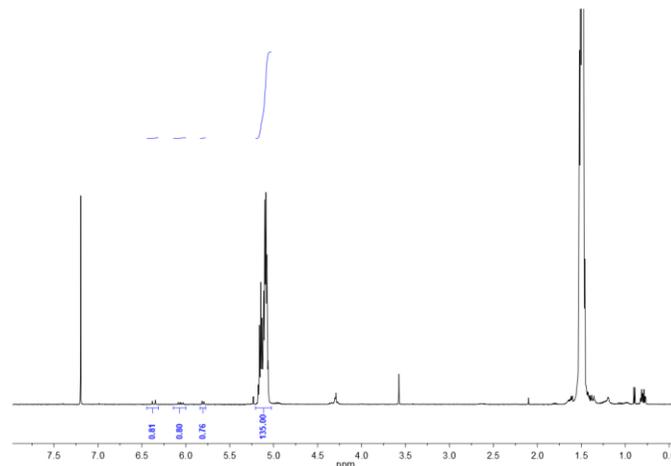
**Characterization:**

PDLLAs were 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 2.90 and 5.9, 6.1 and 6.4 ppm.

**Chemical shifts assignments**



**HNMR spectrum of PDLLA bearing acryloyl moieties:**



**SEC profile of the polymer:**

**Workspace Details**  
 Workspace name: Calibration 2021-10-27  
 Location: D:\GPC\Workspaces\Calibration 2021-10-27\  
 Comments:  
 Created by: agilent2 at 4:40:59 PM on October 27, 2021

**Chromatogram Plot**

