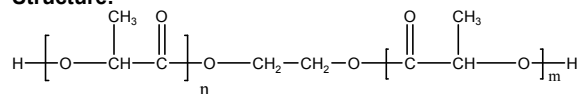


**Sample Name: Dihydroxyl ended polylactide**

**Sample #: P9845-HOLAOH (L-Form)**

**Structure:**

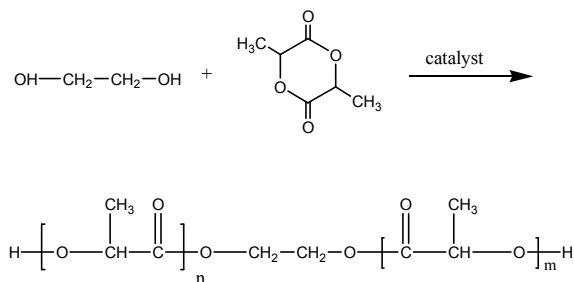


**Composition:**

Mn x 10 <sup>3</sup>	PDI
0.45	1.3

**Synthesis Procedure:**

The polymerization of 3, 6-dimethyl-1,4-dioxane-2,5-dione was initiated with catalyst, and the reaction is showed as below:



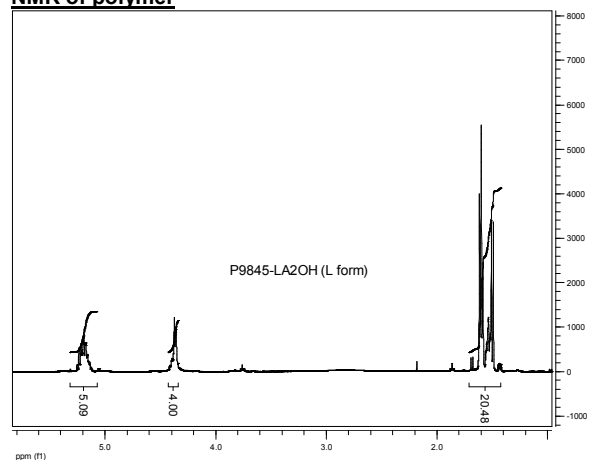
**Characterization:**

The Mn is calculated from NMR by comparing the peak area of the ethylene glycol protons at about about 4.3 ppm with the lactide protons at about 5.1 ppm and polydispersity index (PDI) are obtained by size exclusion chromatography.

**Solubility:**

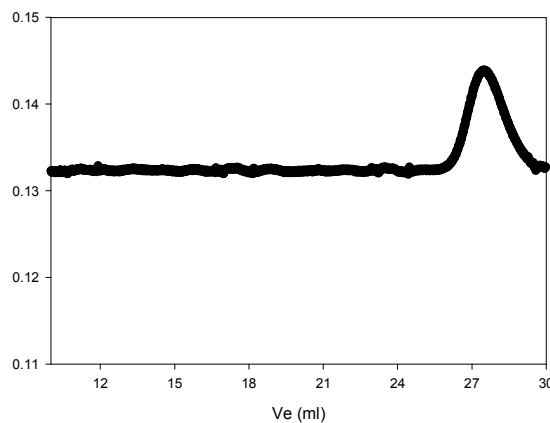
The polymer is soluble in toluene, THF, CHCl<sub>3</sub> and CH<sub>2</sub>Cl<sub>2</sub>. The polymer is insoluble in methanol, hexane and ether.

**NMR of polymer**



**SEC of polymer:**

P9844-LA2OH (DL form)



Size Exclusion Chromatography :  
Mn =450 Mw= 580and PDI =1.3