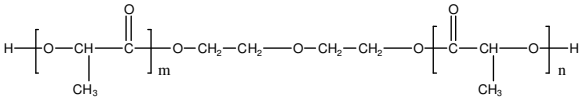
Sample Name: **Dihydroxyl ended polylactide**

Sample #: **P7117-HOLAOH (DL-Form)**

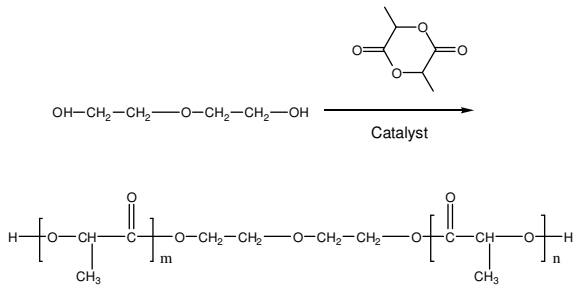
Structure:



Composition:

Mn x 10^3	PDI
2.4	1.2

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

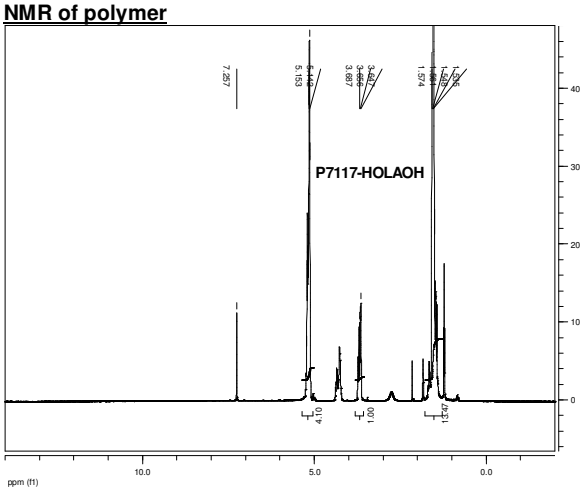


Characterization:

The Mn is calculated from NMR by comparing the peak area of the ethylene oxide protons at about about 3.6 ppm with the lactide protons at about 5.1 ppm and polydispersity index (PDI) are obtained by size exclusion chromatography.

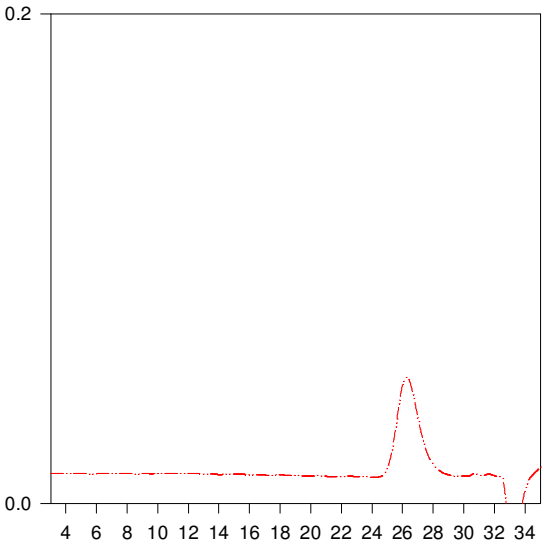
Solubility:
The polymer is soluble in toluene, THF, $CHCl_3$ and CH_2Cl_2.
The polymer is insoluble in methanol, hexane and ether.

NMR of polymer



SEC of polymer:

P7117-HOLAOH



Size exclusion chromatography result:

M_n=2400, Mw=2900 PI=1.2 (Mn calculated from NMR)