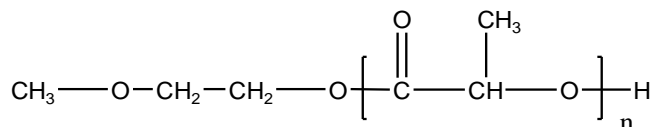


**Sample Name: POLYLACTIDE**

**Sample #: P20040-LA (DL-Form)**

**Structure:**

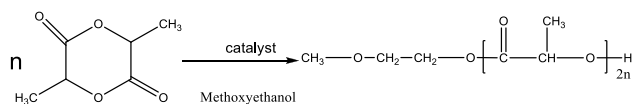


**Composition:**

Mn, g/mol	Mw, g/mol	Mw/Mn
10,300	12,300	1.19

**Synthesis Procedure:**

The polymerization of 3,6-dimethyl-1,4-dioxane-2,5-dione was carried out in bulk.



**Purification:**

The polymeric solution was precipitated from  $\text{CHCl}_3$  and/or acetone into a large excess of ether.

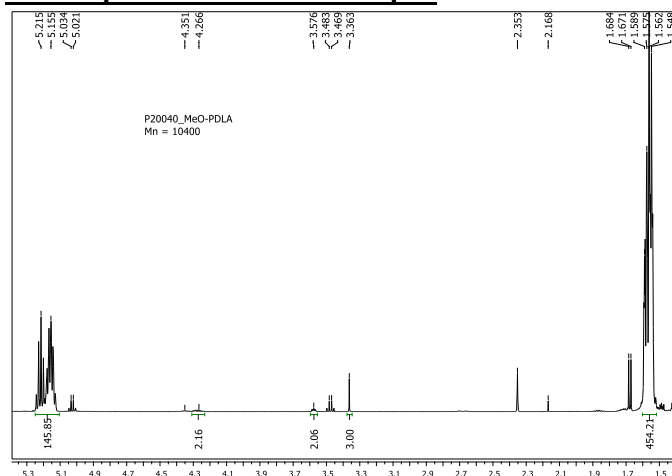
**Solubility:**

Poly(DL-lactide) is soluble in toluene, THF,  $\text{CHCl}_3$  and  $\text{CH}_2\text{Cl}_2$ . The polymer is insoluble in methanol, hexane and ether.

**Characterization:**

The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography with a static light-scattering detector.

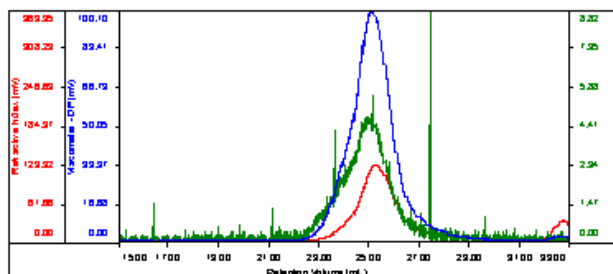
**NMR spectrum of PDLA Sample:**



**SEC elugram of polylactide Sample:**

**Sample ID: P20040-LA DL form**

Concentration (mg/mL)	29.2484
Sample dn/dc (mL/g)	0.0450
Method File	PS80K-Merck17-2014-0000.urom
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	PDI
P20040-LA_01.udt	10,300	12,257	10,160	1.190	0.1497