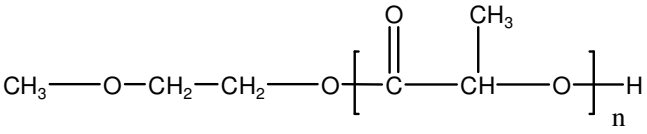
Sample Name: **POLYLACTIDE**

Sample #: **P20197-LA (DL-Form)**

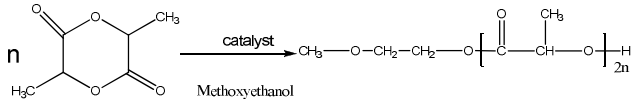
Structure:



Composition:

Mn, g/mol	Mw, g/mol	Mw/Mn
31,500	50,500	1.6

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 $CHCl_3$ and/or acetone into a large excess of ether.

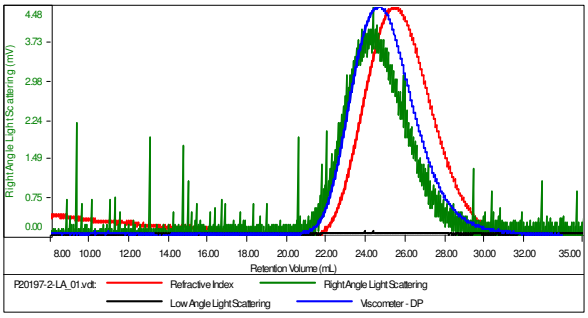
Solubility:
Poly(DL-lactide) is soluble in toluene, THF, $CHCl_3$ and CH_2Cl_2. The polymer is insoluble in methanol, hexane and ether.

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

SEC of polylactide:

Sample ID: P20197-LA (DL)

Concentration (mg/mL)	10.7390
Sample dn/dc (mL/g)	0.0450
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersit	Intrinsic Viscosity (dL/g)
P20197-2-LA_01.vdt	31,488	50,246	38,397	1.596	0.3391