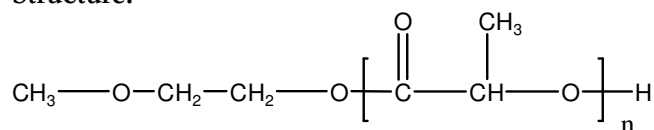


Sample Name: **POLYLACTIDE**

Sample #: **P20198-LA (DL-Form)**

**Structure:**

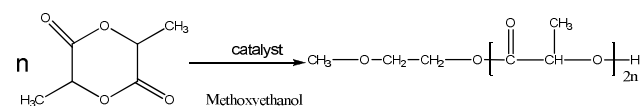


**Composition:**

Mn, g/mol	Mw, g/mol	Mw/Mn
46,000	53,000	1.15

**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.

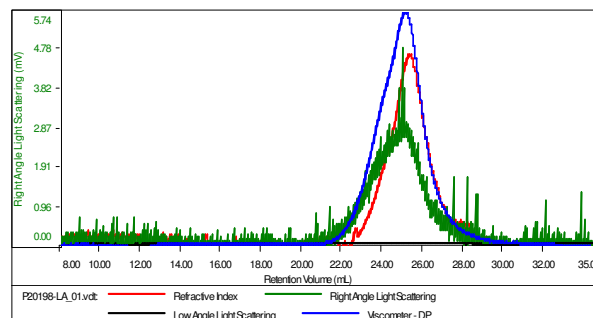
**Characterization:**

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

SEC of polylactide:

**Sample ID: P20198-LA(DL form)**

Concentration (mg/mL)	5.8907
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)	Polydispersity	Intrinsic Viscosity (dL/g)
P20198-LA_01.vdt	45,833	52,963	41,903	1.156	0.3400