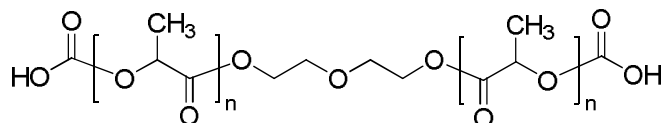


Sample Name:

**Poly(DL-lactide),  $\alpha,\omega$ -bis(hydroxy)-terminated**

Sample # **P18511A-LA2OH**

Structure:

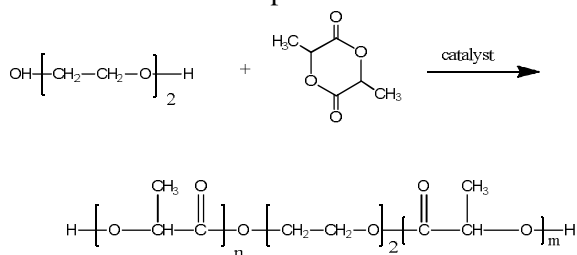


Composition:

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
4.1	1.10

Synthesis procedure:

The scheme of reaction is presented below:



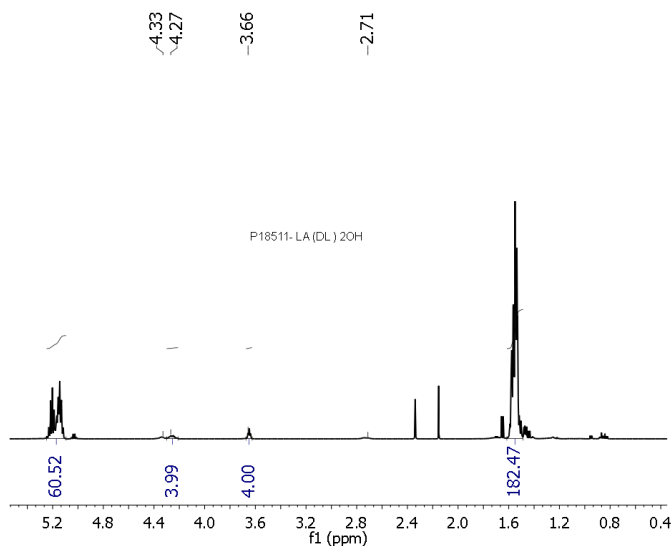
Characterization:

The molecular weight and polydispersity index ( $M_w/M_n$ ) of the polymer were determined by size exclusion chromatography (SEC). The obtained molecular weight is in good correlation with  $^1\text{H}$  NMR data as calculated by comparing peak areas of ethylene glycol protons at ~4.3 ppm and polylactide protons at ~5.1 ppm.

Solubility:

The polymer is soluble in toluene, THF, chloroform, DCM; and is insoluble in methanol, hexanes and ether.

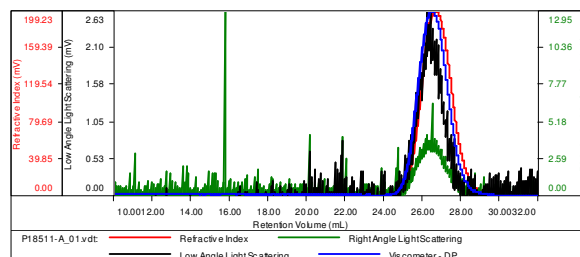
**$^1\text{H}$  NMR spectrum:**



**SEC elugram:**

Sample ID: P18511A-LA 2OH (DL form)

Concentration (mg/mL)	19.1526
Sample dn/dc (mL/g)	0.0460
Method File	PS80K-Feb25-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	$M_n$	$M_w$	$M_p$	$M_w/M_n$	IV
P18511-A_01.vdt	4,103	4,545	4,468	1.108	0.2076