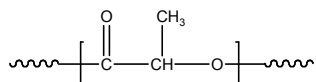


**Sample Name:** Dihydroxyl ended  
Polylactide

**Sample #:** P6467-LA2OH (L-Form)

**Structure:**

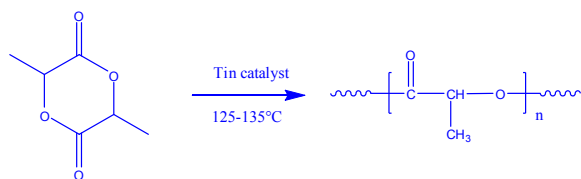


**Composition:**

$M_n \times 10^3$	PDI
150.0	1.70

**Synthesis Procedure:**

The polymerization of D/L-Lactide was initiated with tin catalyst and the reaction was carried out without solvent.



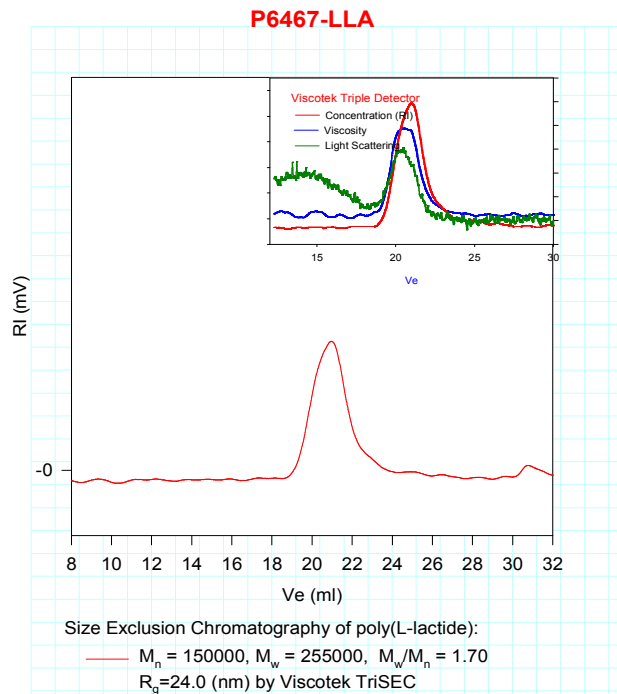
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography with light scattering and viscometer detectors.

**Solubility:**

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

**SEC of Homopolymer:**



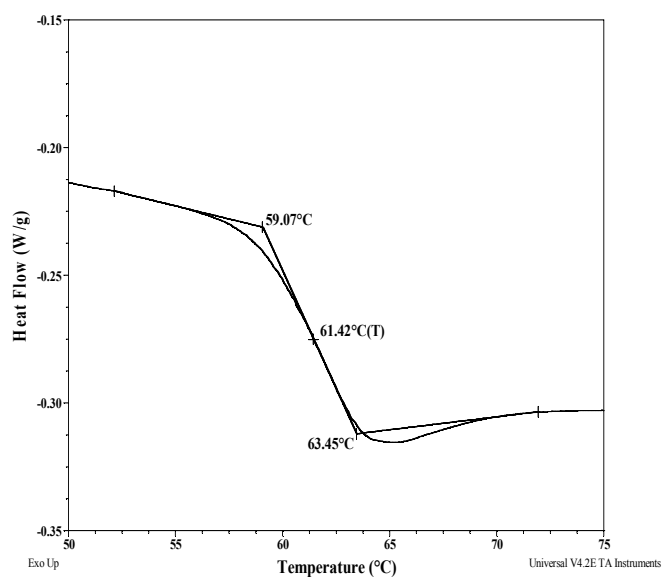
## Thermal analysis of the sample P6467-LA

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature ( $T_g$ ).

### Thermal analysis results at a glance

$T_m$ (°C)	$T_c$ (°C)	$T_g$ (°C)
180	102	61

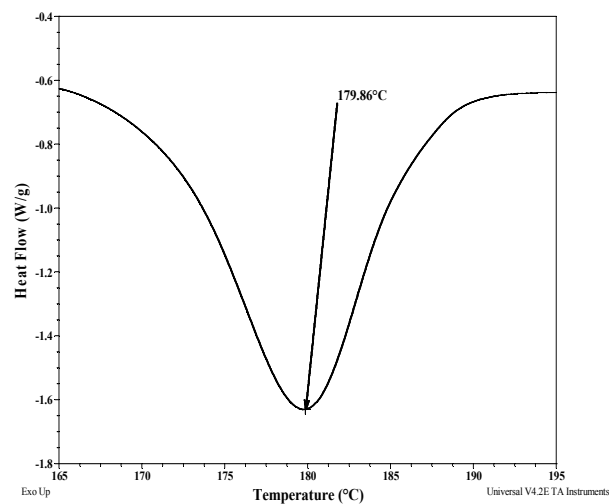
### Thermogram for the sample



## Melting and crystallization curves

The melting temperature ( $T_m$ ) was taken as the maximum of the endothermic peak where as the crystallization temperature ( $T_c$ ) was considered as the minimum of the exothermic peak.

### Melting curve for the LA sample:



### Crystallization curve:

