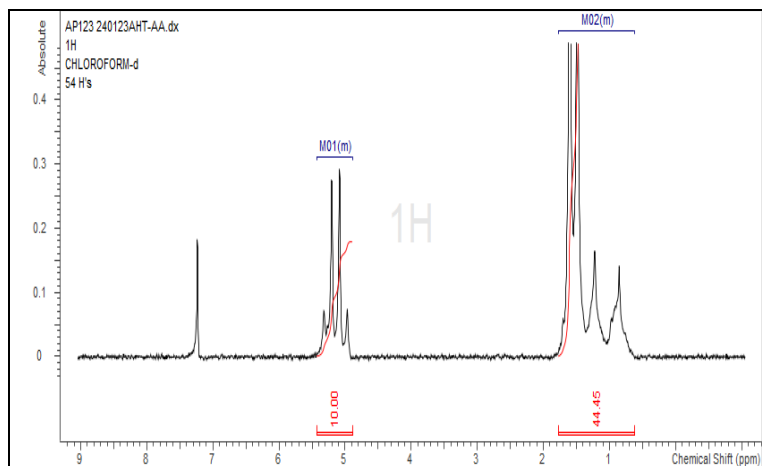


# No. AP123

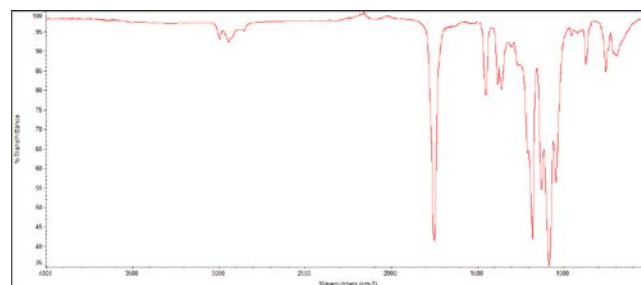
# Certificate of Analysis



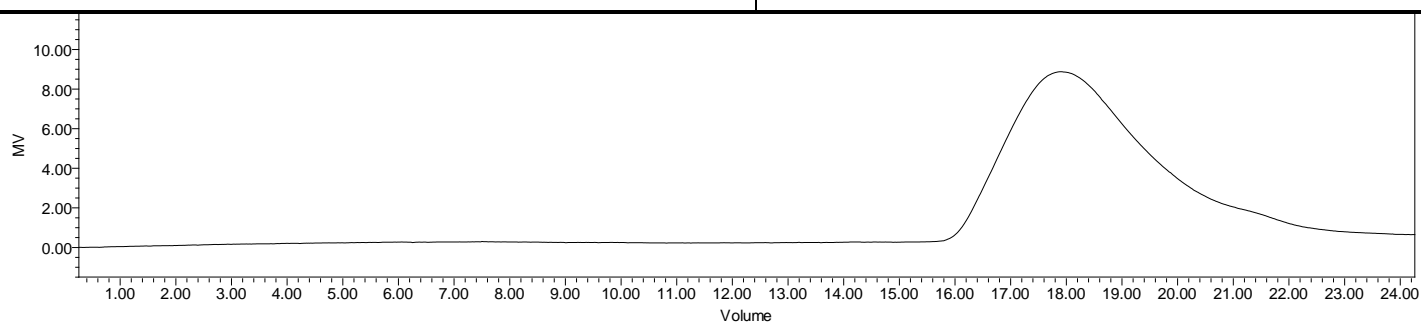
Product Name: Poly((L)Lactic acid) acid endcap (Mn: 75,000-85,000 Da)  
(Lot#:240123AHT-A)



H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (NMReady-60e, Nanalysis 60 MHz) NMR of PLLA Copolymer



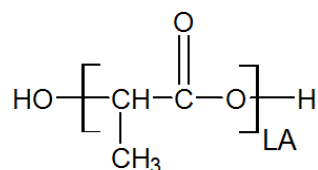
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLLA	76,242	118,220	1.55

- Structure of PLLA copolymers



Approved By:  
*Amie Tyler*  
Quality Manager