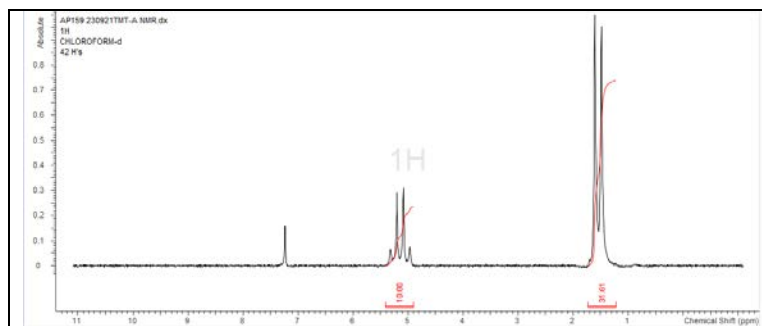


# No. AP308

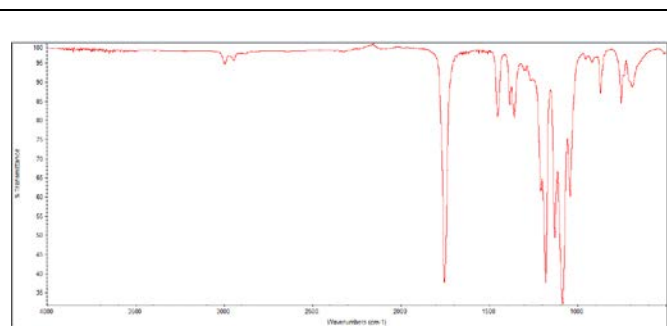
# Certificate of Analysis



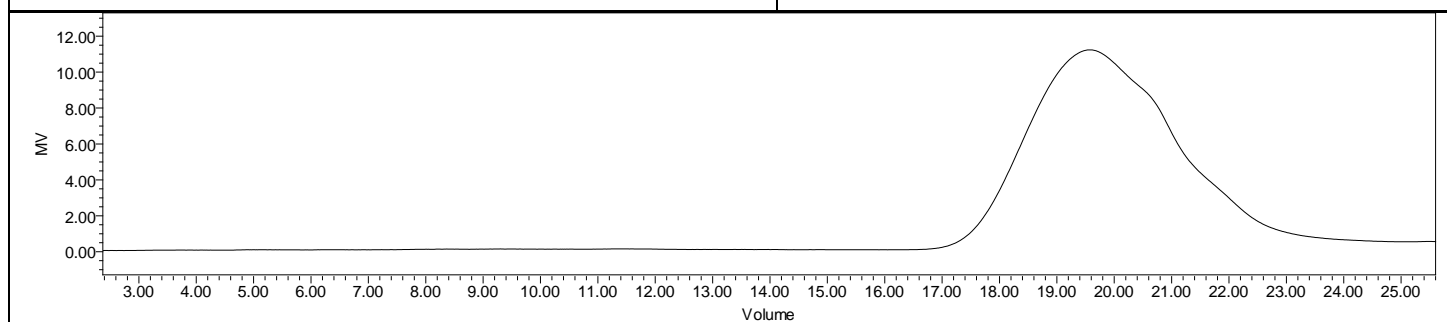
Product Name: Poly(D-lactide) acid endcap ( $M_n$ : 15,000-20,000 Da) (Lot#: 230921TMT-A)



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



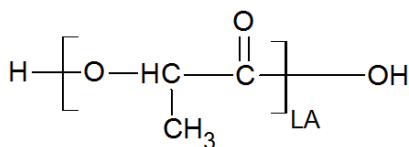
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



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	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
P(D)LA	18,020	4,380	1.91

- Structure of P(D)LA copolymers**



Approved By:  
*Amie Tyler*  
Quality Manager