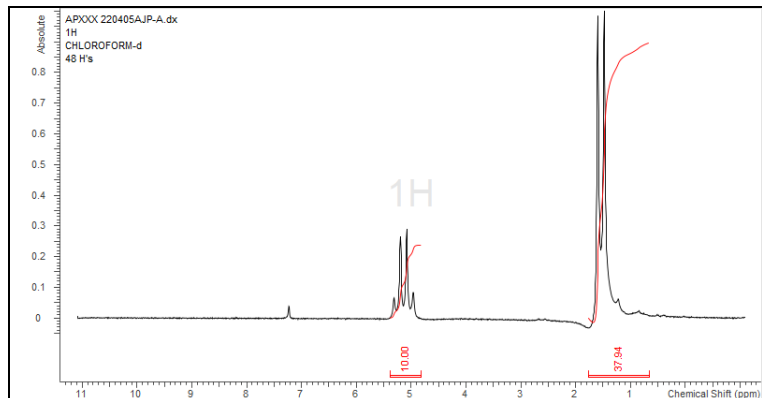


No. AP235

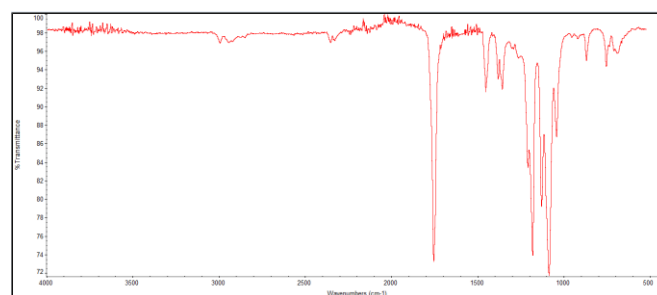
Certificate of Analysis



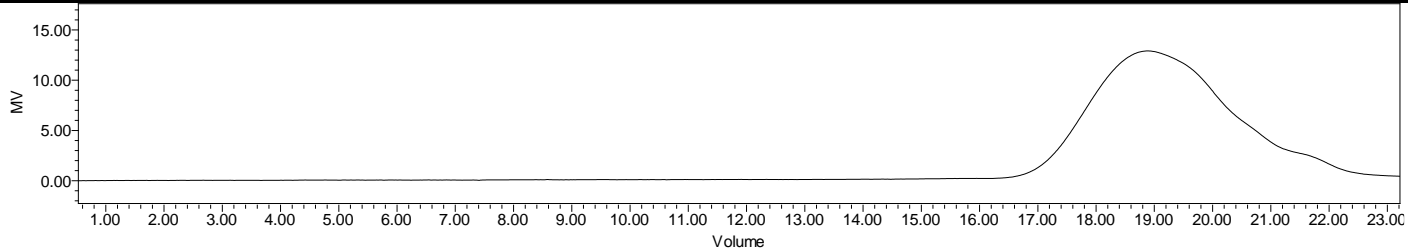
Product Name: Poly(L-lactic acid) ester endcapped
(Mn: 25,000-35,000 Da) (Lot#: 220405AJP-A)



H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLLA Copolymer



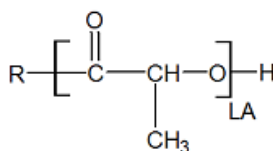
FTIR Analysis: Collected from Nicolet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.



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
PLLA	31,556	54,291	1.72

• Structure of PLLA copolymers



R – 1-decanol ester endcap