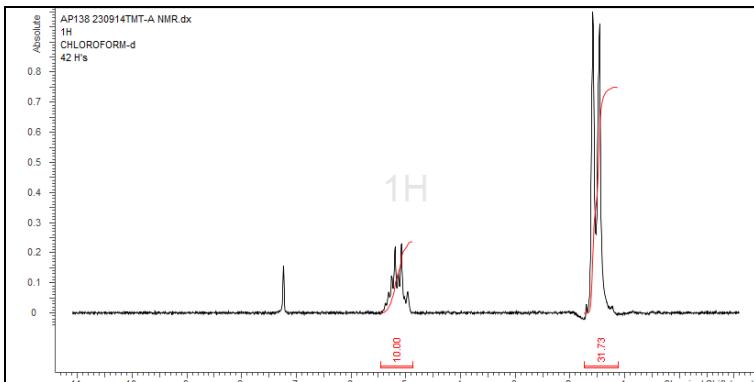


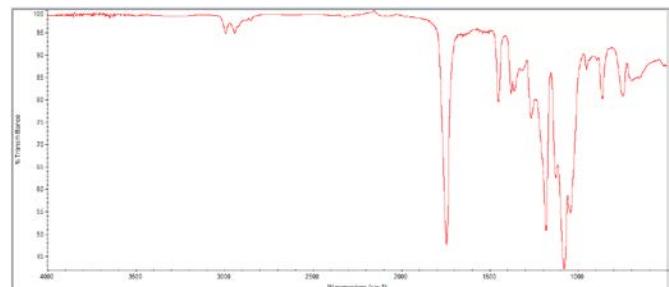
No. AP035

# Certificate of Analysis

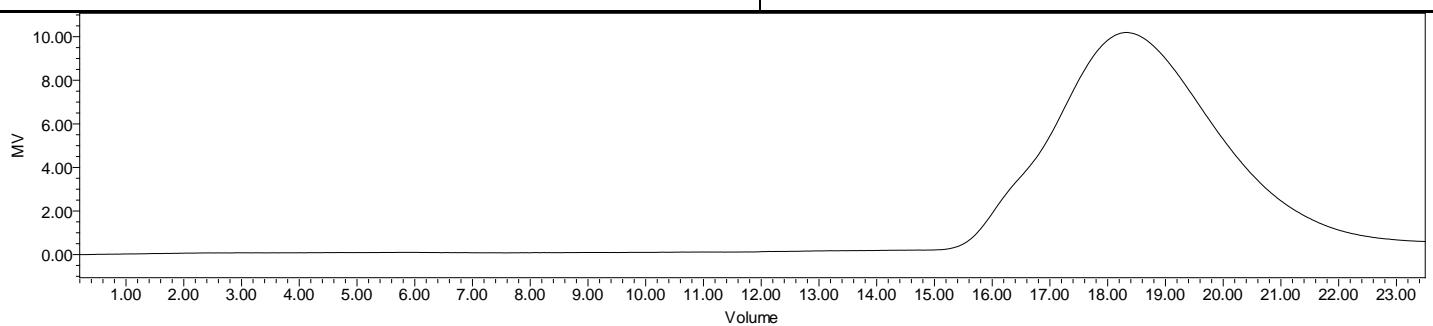
Product Name: Poly(D,L-lactide) acid end cap (M<sub>n</sub> 55,000-65,000 Da)  
(Lot#:230914TMT-A)



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



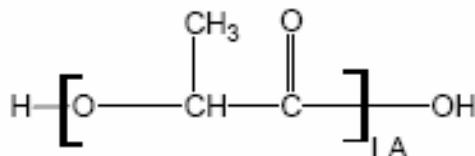
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



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
PDLLA	57,127	104,052	1.82

- Structure of PLGA copolymers



Approved By:  
Amie Tyler  
Quality Manager