

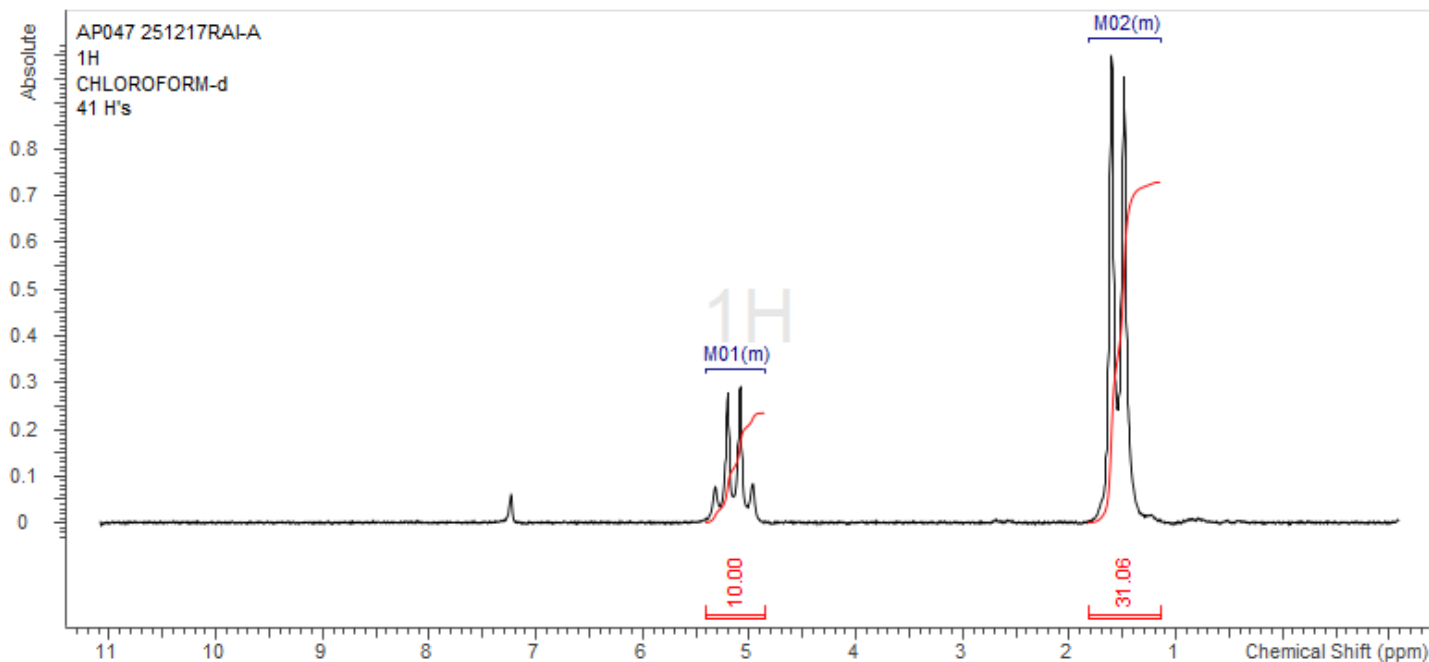
No. AP047

Certificate of Analysis



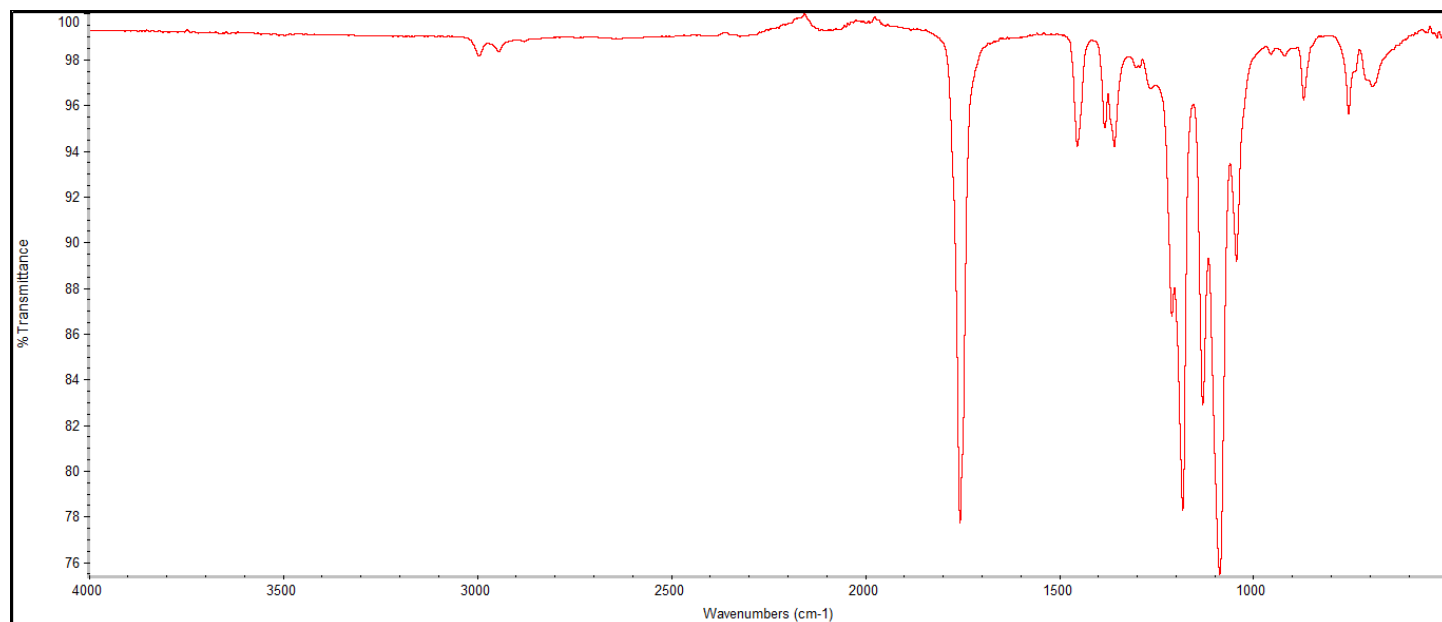
Product Name: Poly(L-lactic acid) acid endcap (M_n : 45,000-55,000 Da)
(Lot#: 251217RAI-A)

H-NMR



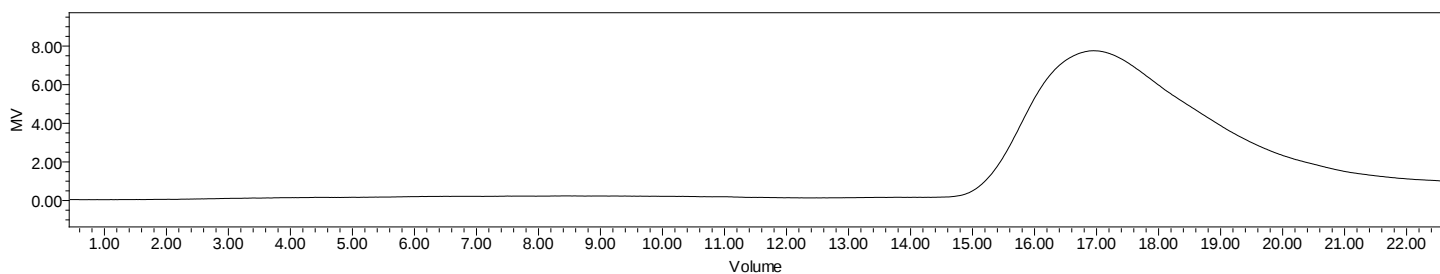
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLLA copolymer.

FTIR



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

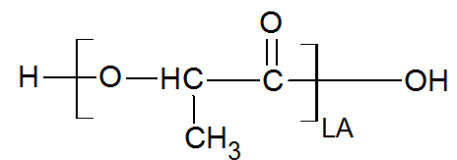
GPC-ES



Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLLA	52,489	82,104	1.58

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.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager