

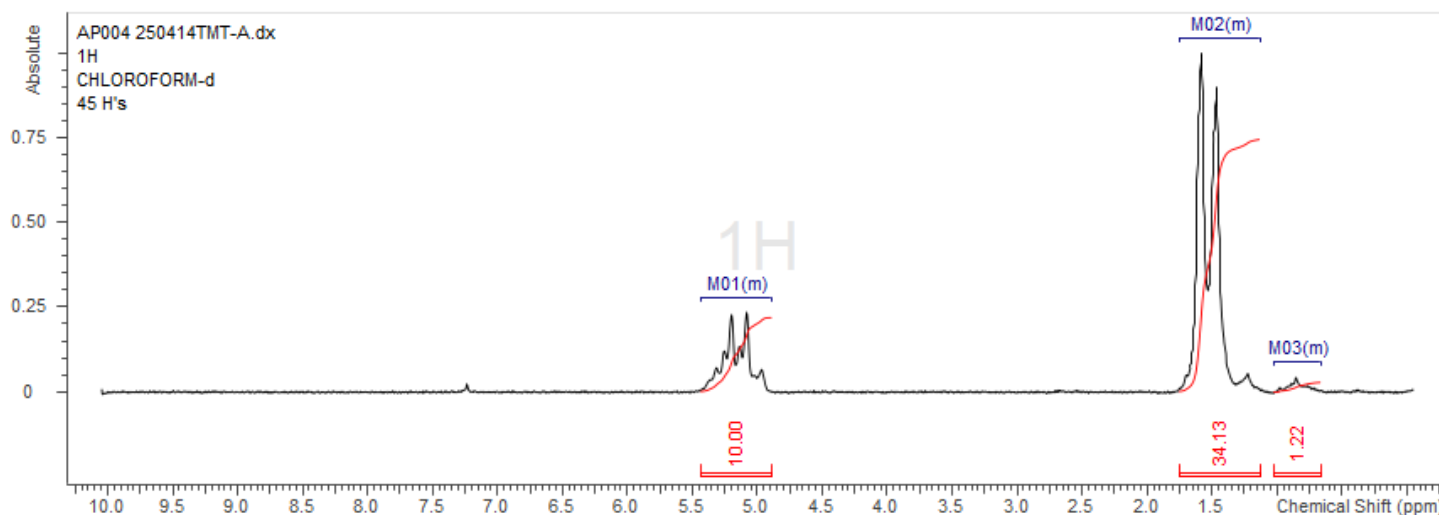
No. AP004

Certificate of Analysis



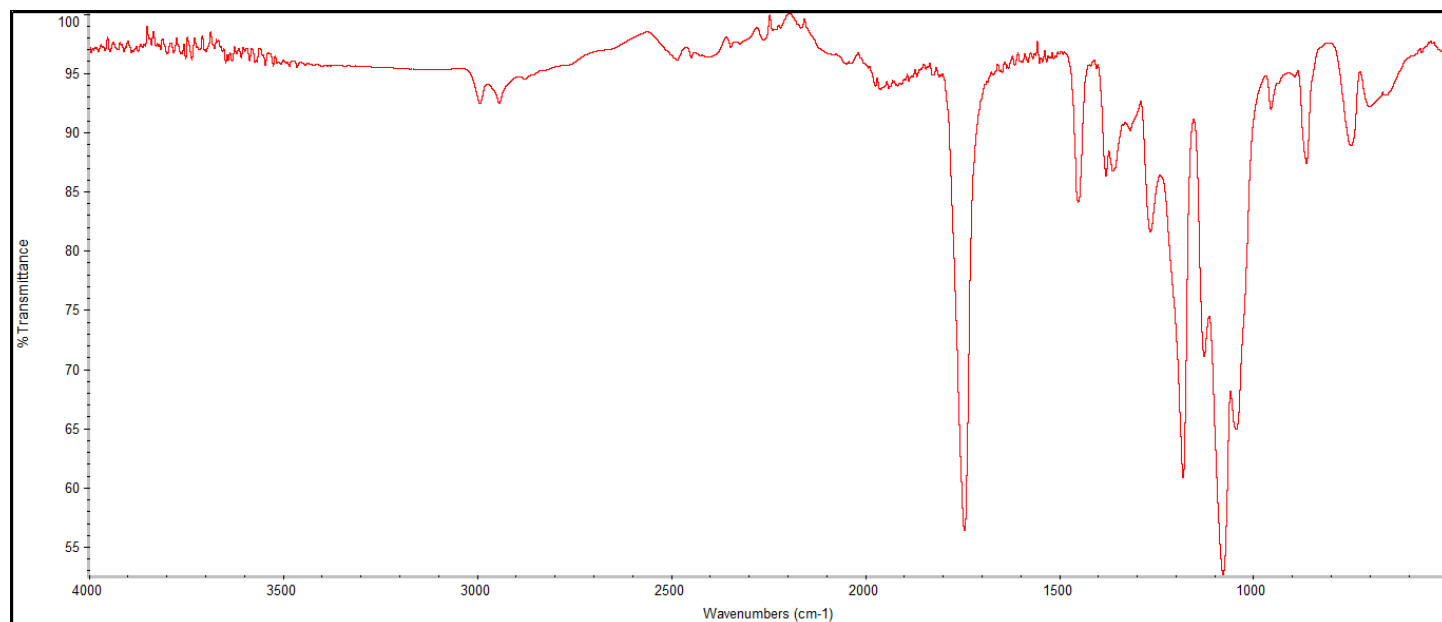
Product Name: Poly(DL-lactide) ester endcapped (Mn: 65,000-75,000 Da) (Lot#: 250414TMT-A)

H-NMR



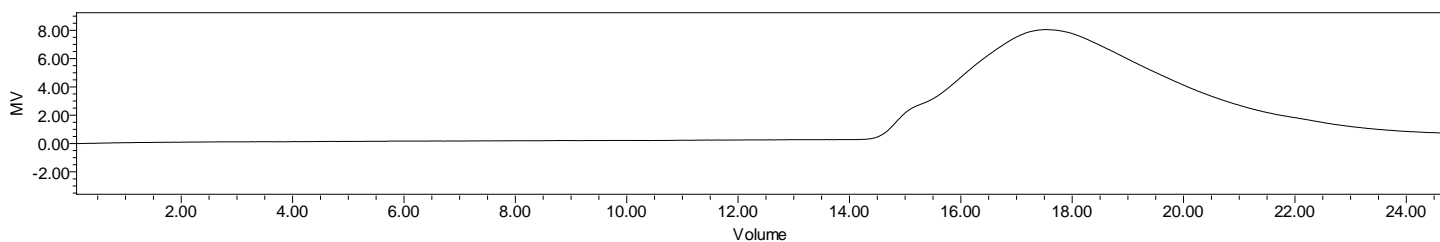
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PDLLA copolymer

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
PDLA	65,772	99,205	1.51

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.

DSC

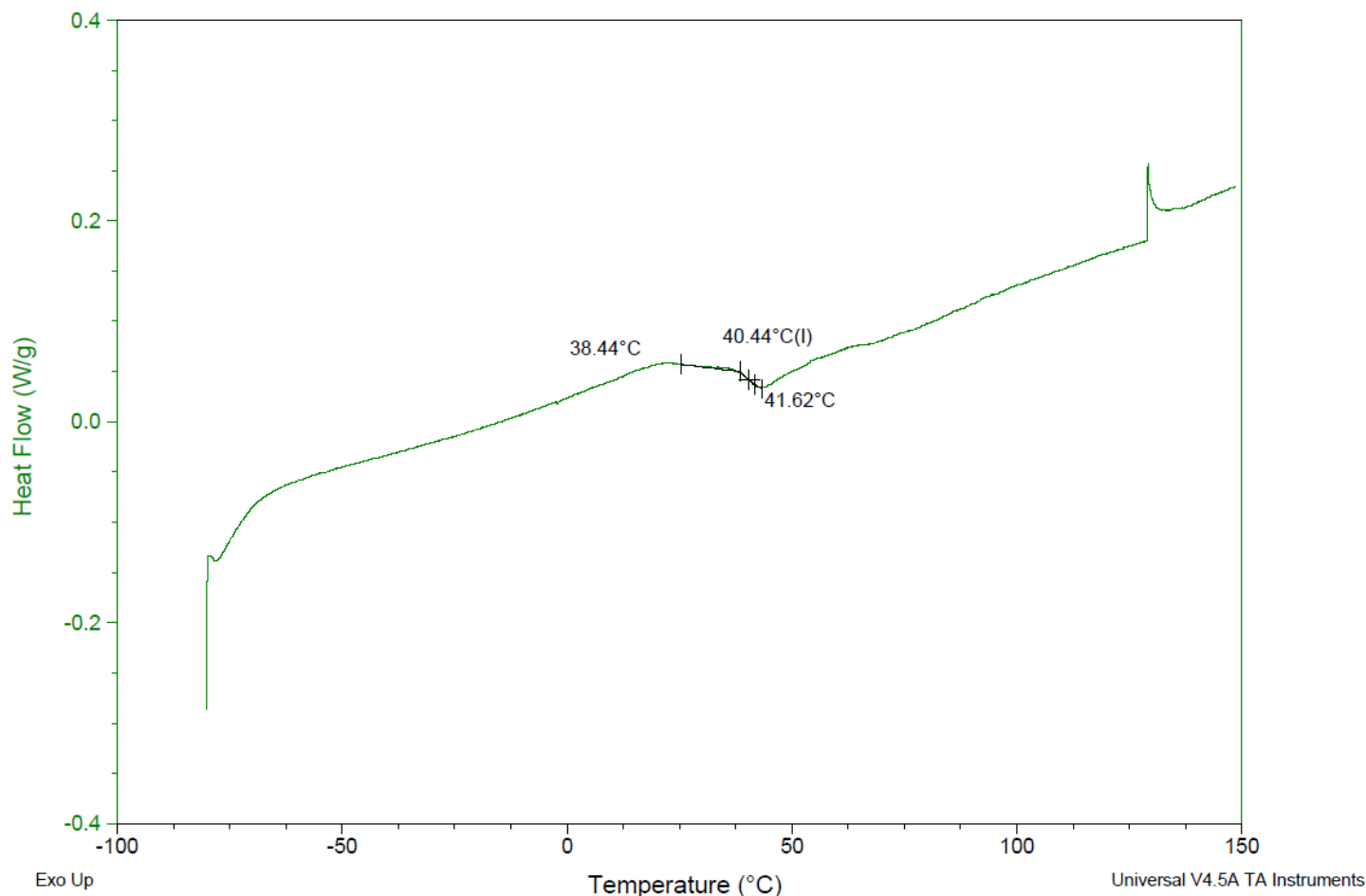
Sample: AP004 250414TMT-A
Size: 3.3000 mg
Method: Modulate-no-eqb

DSC

File: C:\...\COA\AP004 250414TMT-A.001

Run Date: 22-Apr-2025 12:44

Instrument: DSC Q2000 V24.11 Build 124

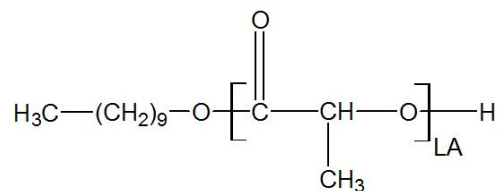


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. T_g = 40.44 °C

IV

Inherent Viscosity: 0.392 ± 0.044 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager