

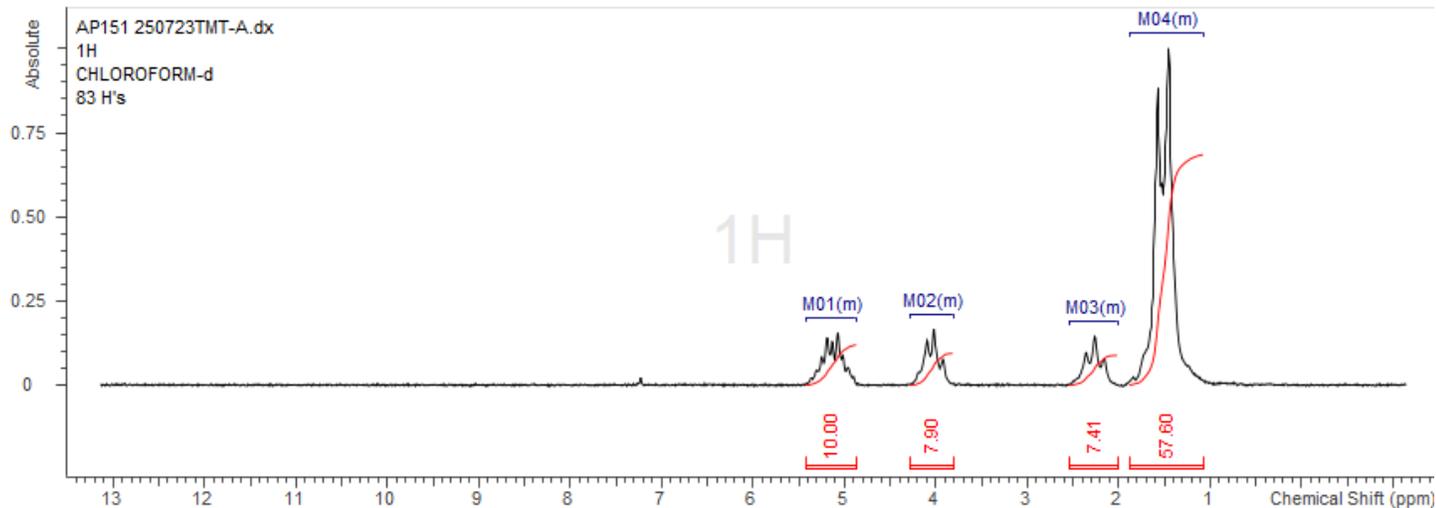
No. AP151

Certificate of Analysis



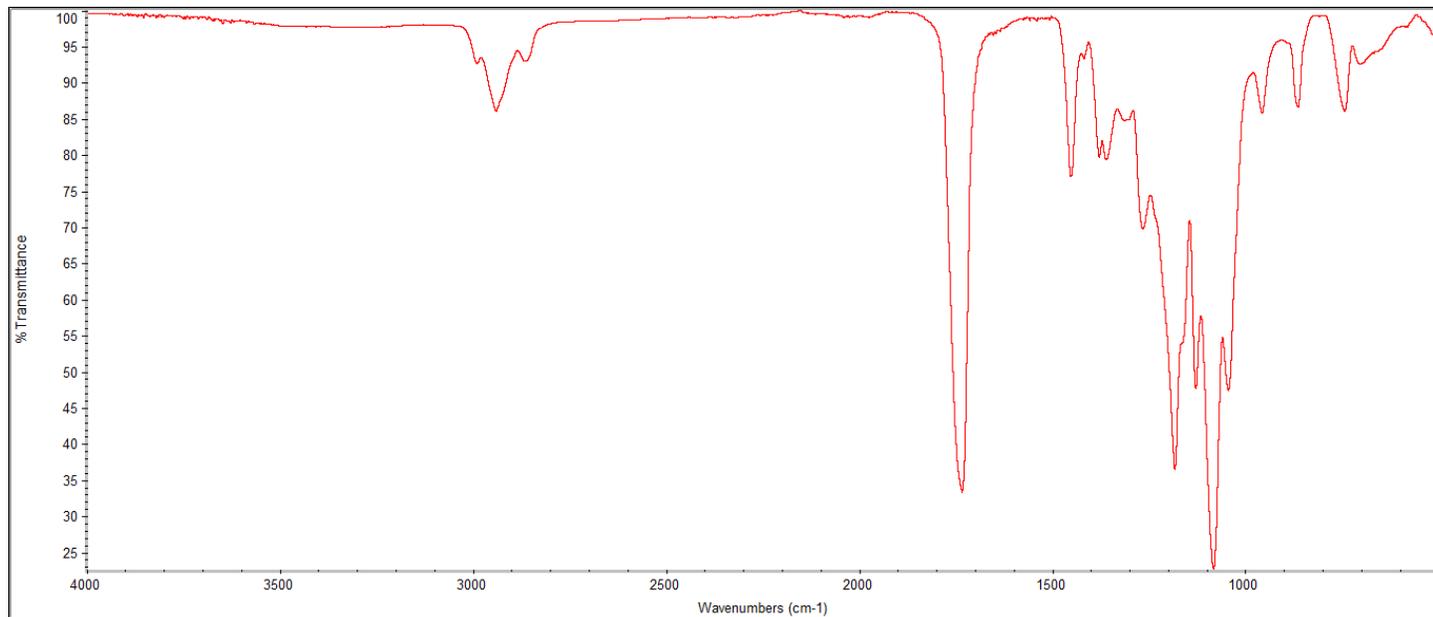
Product Name: Poly((D,L)Lactic-co-caprolactone) Copolymers acid end-capped
(70:30 LA:CL, M_n : 75,000-85,000 Da) Lot#: 250723TMT-A)

H-NMR



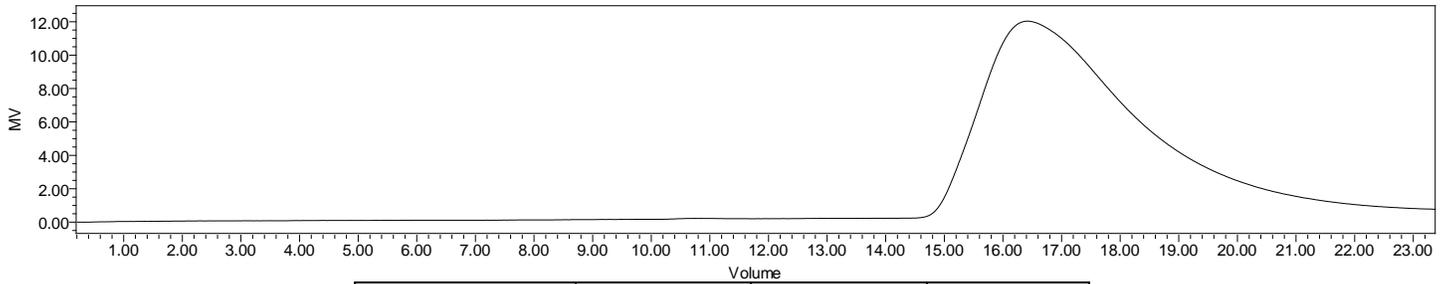
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of P(DL)LCL copolymer: LA-GA =72%-28% molar ratio (LA:GA 76%;24% w:w)

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
P(DL)LCL	72,069	106,460	1.48

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.

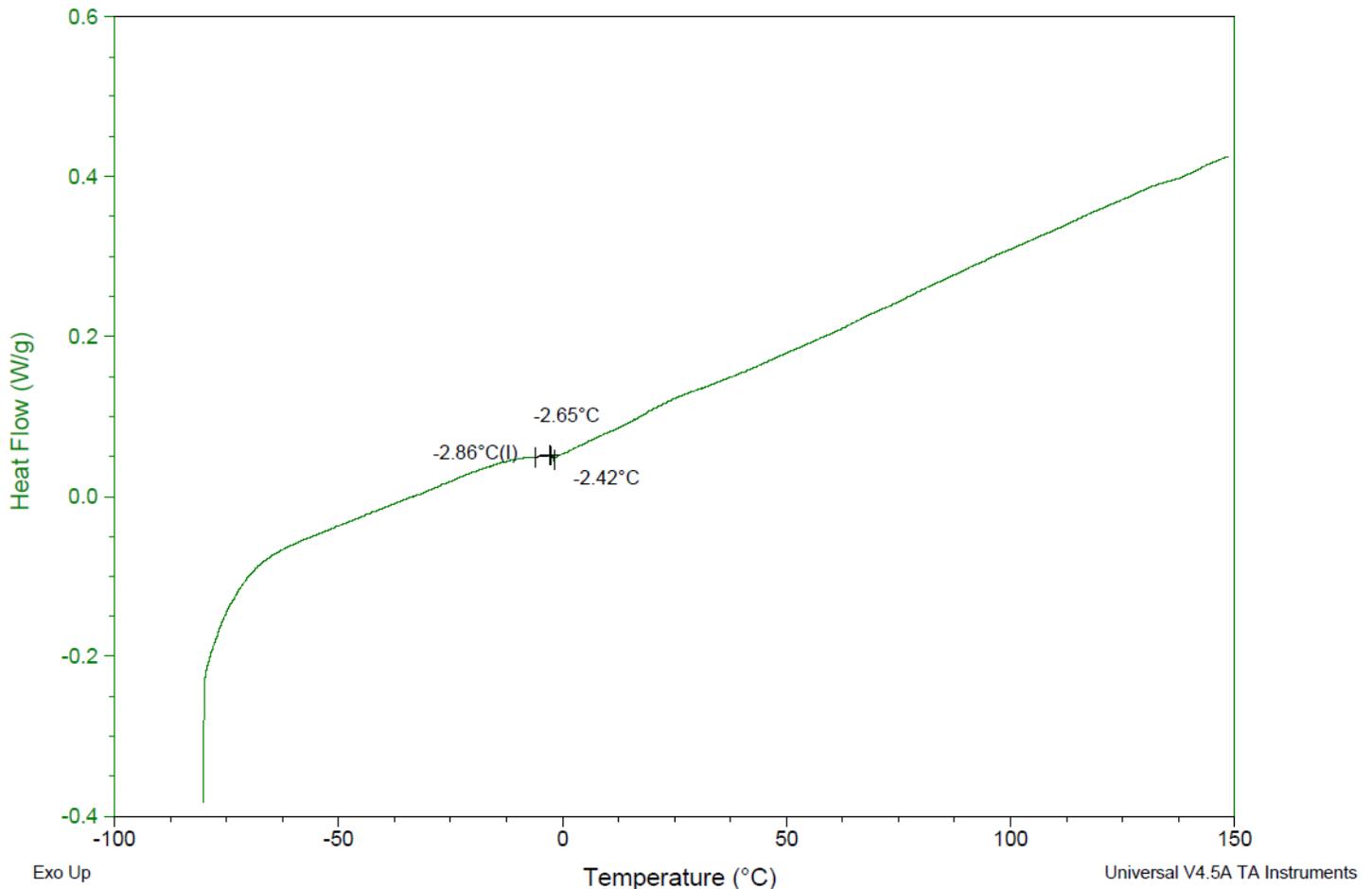
DSC

Sample: AP151 250723TMT-A
Size: 2.6000 mg
Method: Modulate-no-epb

DSC

File: C:\...\COA\AP151 250723TMT-A DSC.001

Run Date: 28-Jul-2025 15:01
Instrument: DSC Q2000 V24.11 Build 124

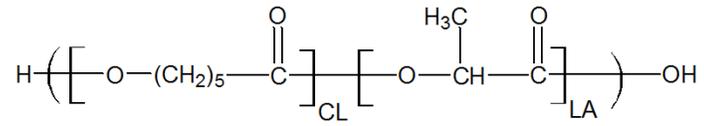


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. T_g = -2.65 °C

IV

Inherent Viscosity: 0.394 ± 0.079 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