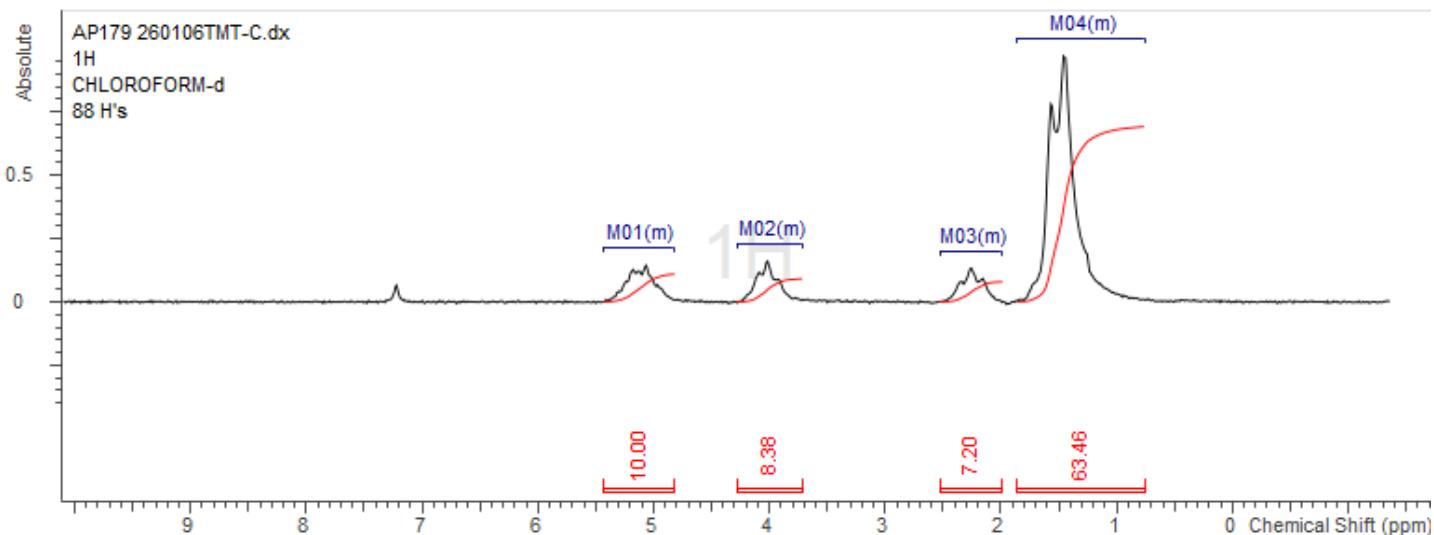


No. AP179

Certificate of Analysis

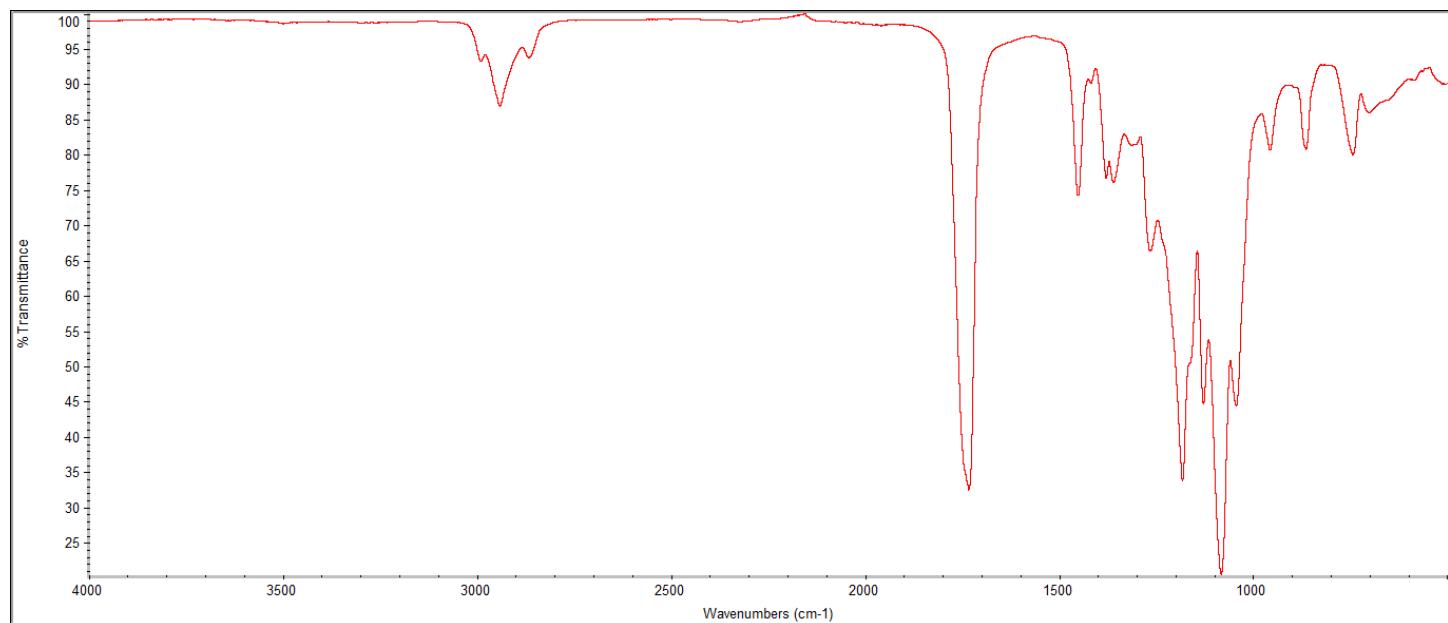
Product Name: Poly((D,L)Lactide-co-caprolactone) copolymers acid end-capped (70:30 LA:CL, M_n : 35,000-45,000 Da) (Lot#: 260106TMT-C)

H-NMR



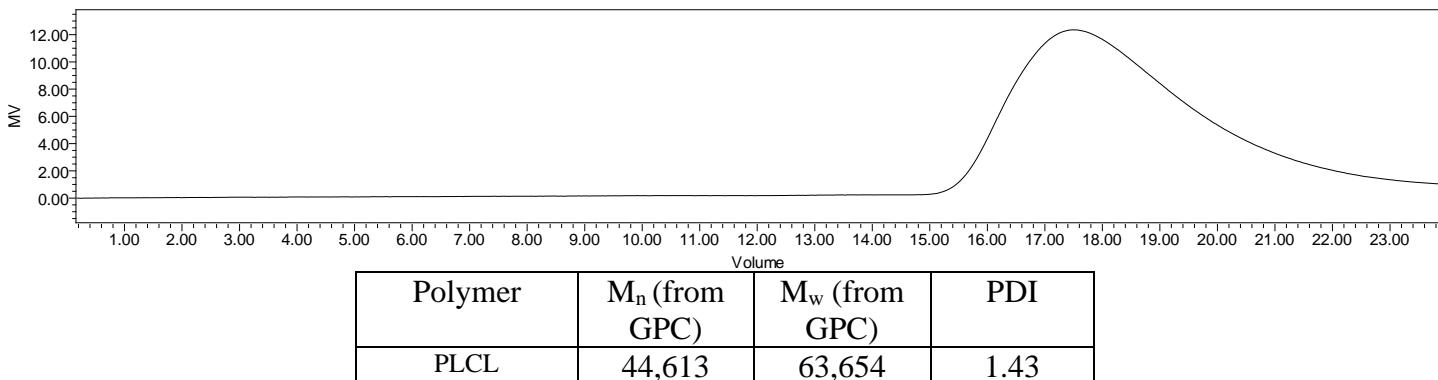
H-NMR Spectrum of copolymers in CDCl_3 (NMReady-60e, Nanalysis 60 MHz) NMR of PLCL copolymer: LA-CL = 70%-30% molar ratio (LA:CL 59%:41% w:w)

FTIR



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

GPC-ES



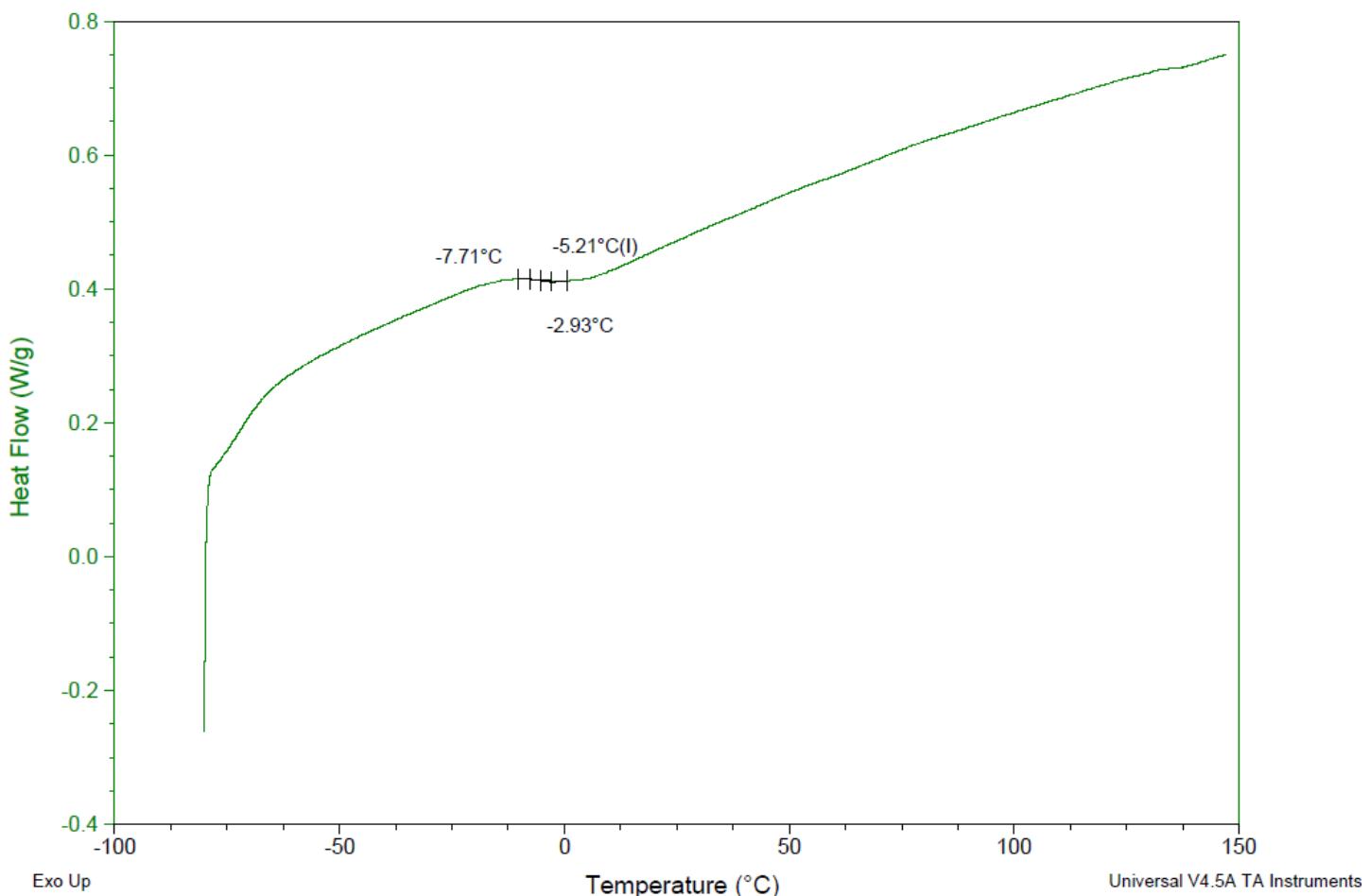
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

DSC

Sample: AP179 260106TMT-C
Size: 3.8000 mg
Method: Ramp

DSC

File: \\...\\COA\\AP179 260106TMT-C.001
Run Date: 15-Jan-2026 11:22
Instrument: DSC Q2000 V24.11 Build 124

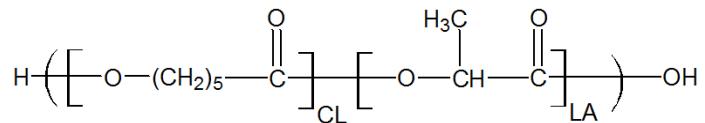


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -5.21 °C

IV

Inherent Viscosity: 0.413 ± 0.011 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