

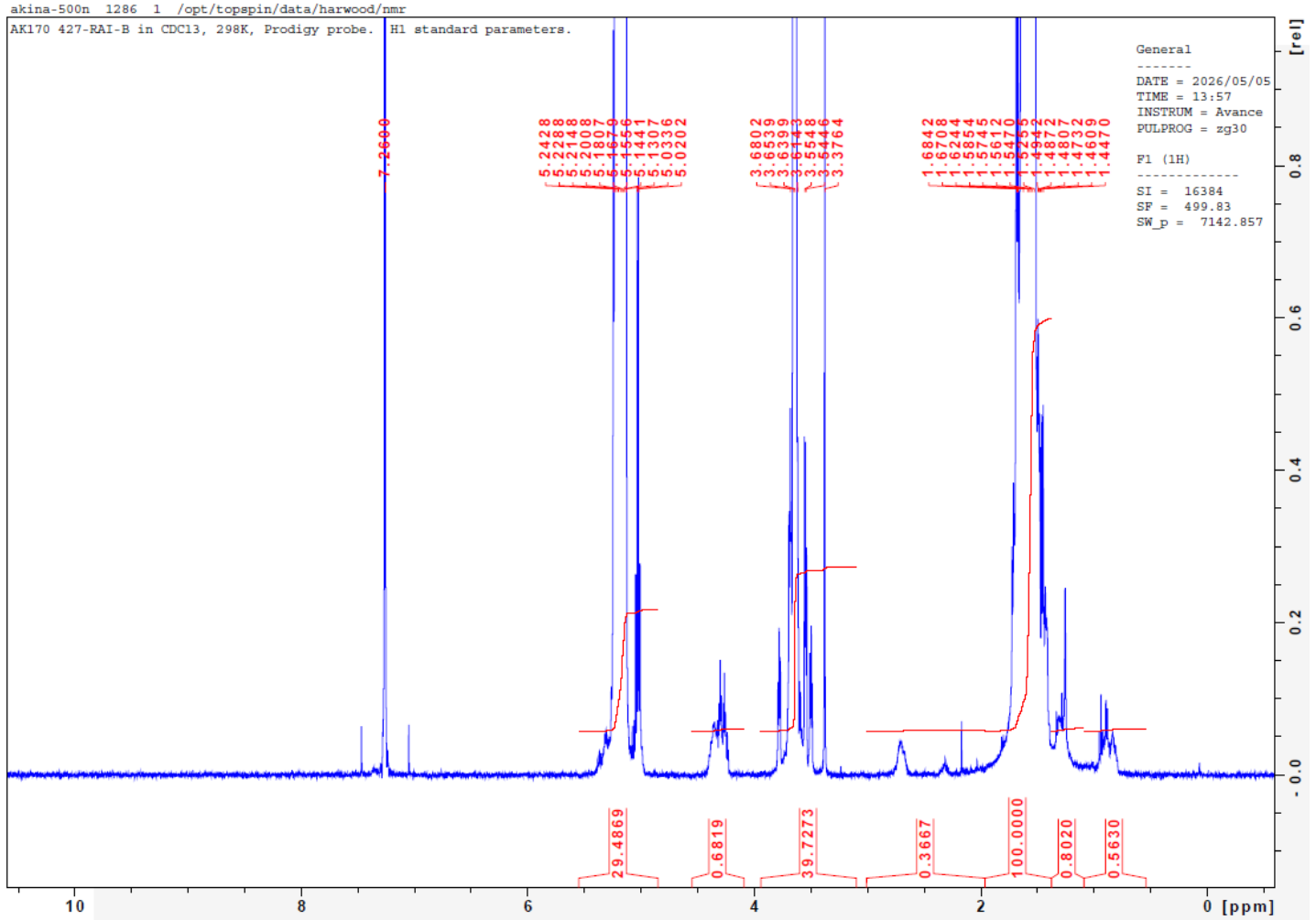
No. AK170

Certificate of Analysis



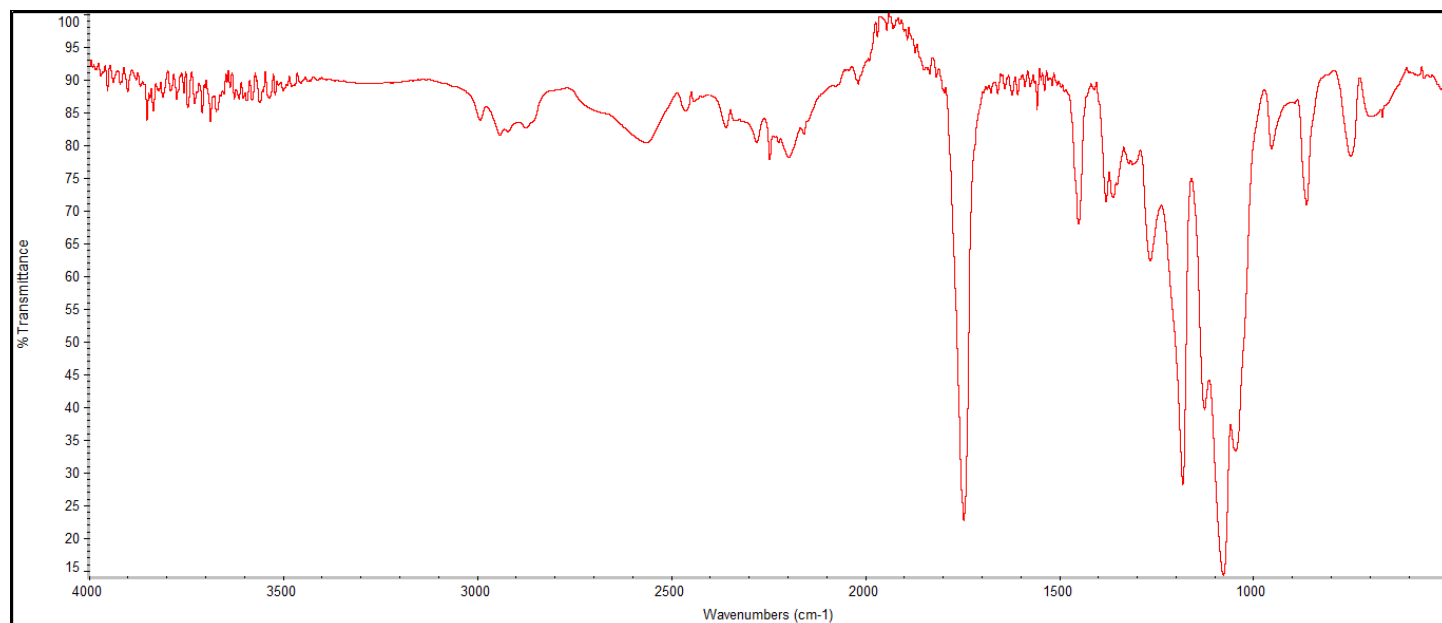
Product Name: : Methoxy Poly(ethylene glycol)-b-Poly((D,L) lactic acid) copolymers (2000:10,000 Da) (Lot#: 260427RAI-B)

H-NMR



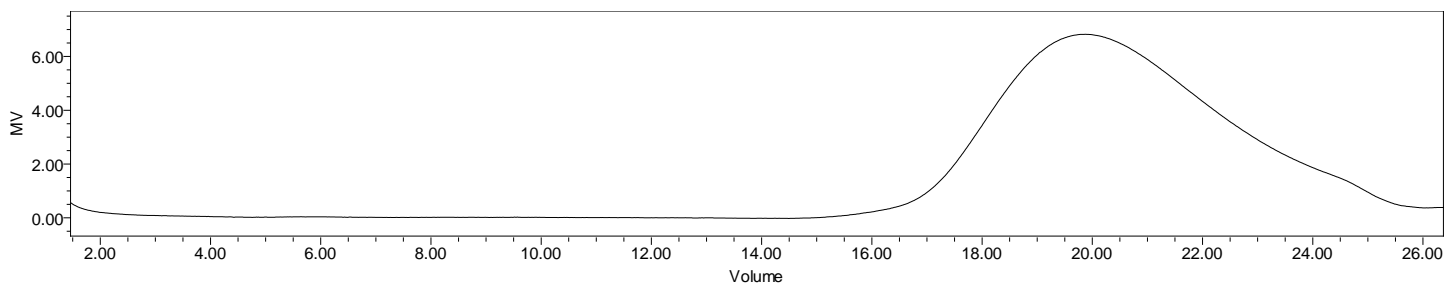
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of mPEG-PDLLA copolymer: EG/LA =46*/137 (Mn EG/LA 2026*/9833 Da) *- from MFG data

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
PLGA-PEG	21,225	28,148	1.33
PEG-Precursor*	2044*		

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. *- from MFG data

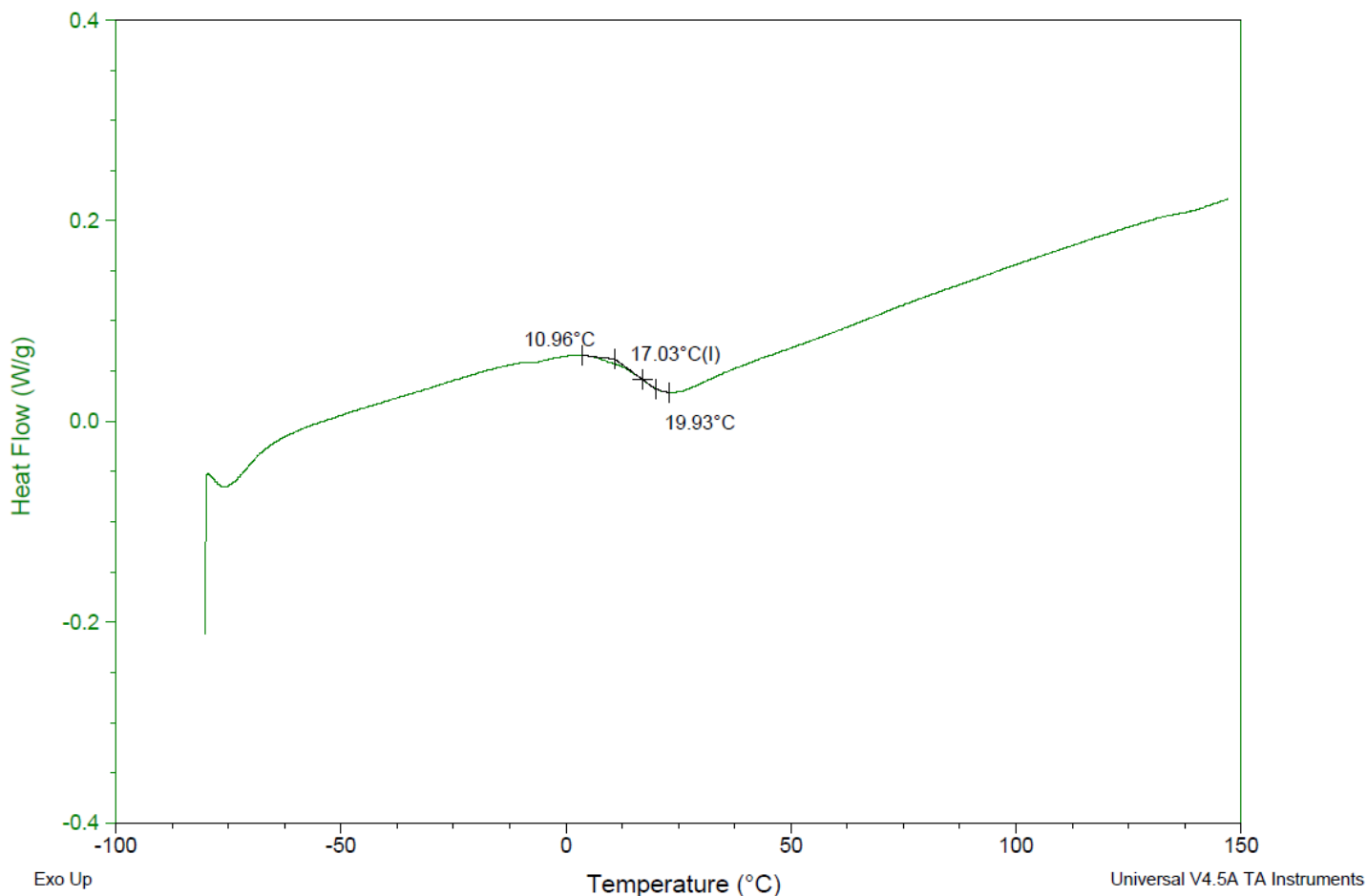
DSC

Sample: AK170 260427RAI-B
Size: 5.0000 mg
Method: Ramp

DSC

File: C:\COA\AK170 260427RAI-B.001

Run Date: 07-May-2026 14:09
Instrument: DSC Q2000 V24.11 Build 124

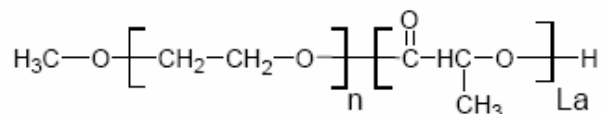


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 17.03 °C

IV

Inherent Viscosity: 0.199 ± 0.009 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