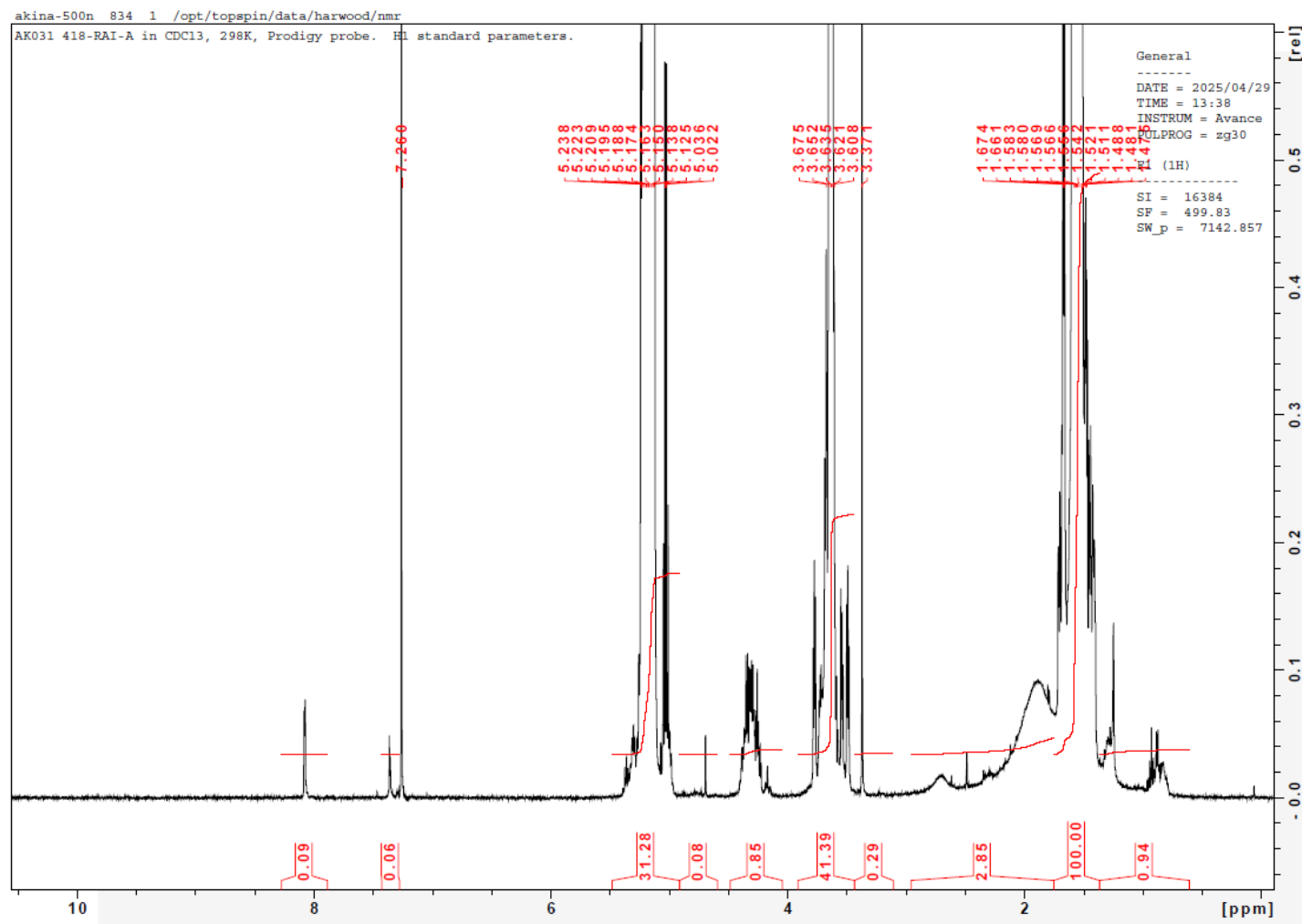


No. AK031 Certificate of Analysis

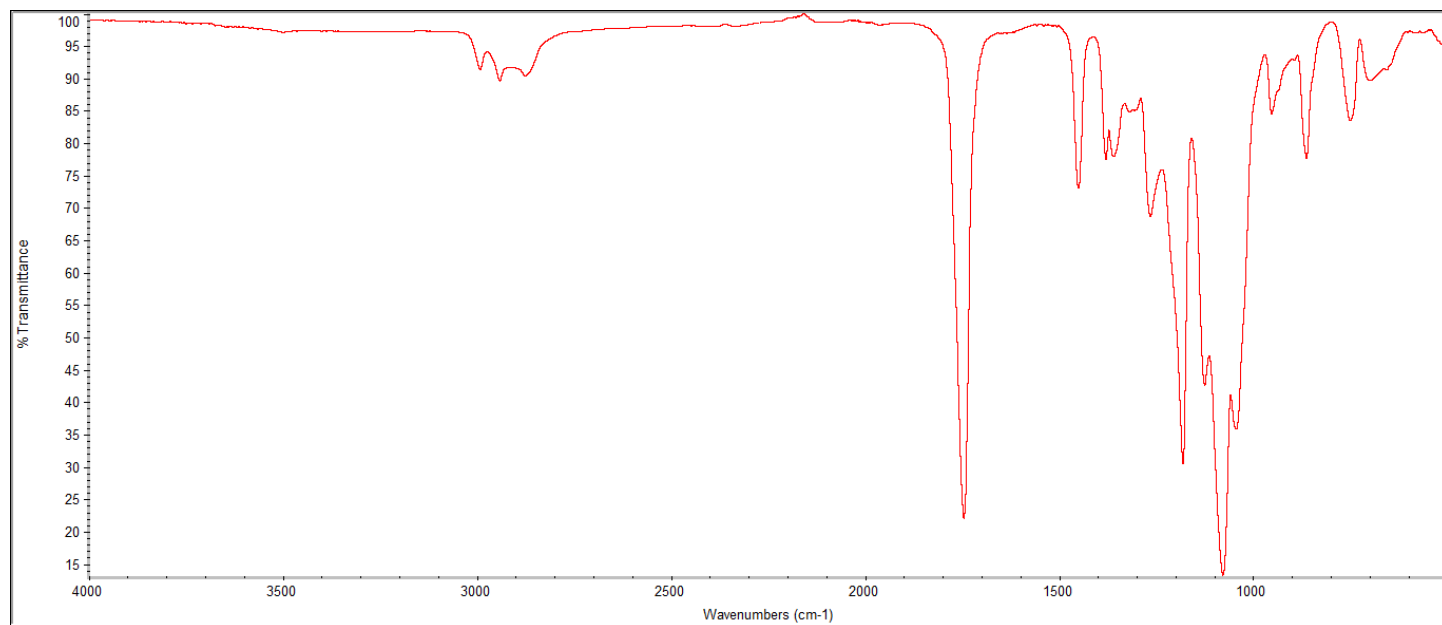
Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly((D,L)-lactic acid) diblock copolymers (5,000:35,000Da) (Lot#: 250418RAI-B)

H-NMR



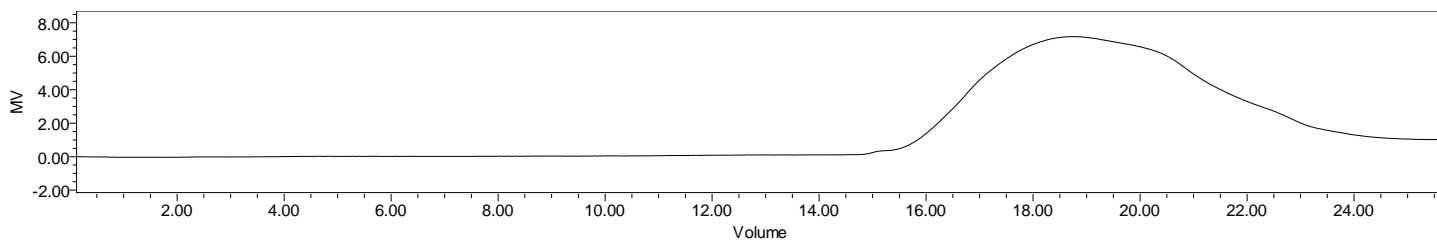
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG*/LA = 117*/354 (Mn EG*/LA 5154*/25465 Da)

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
mPEG-PDLLA	30,192	46,199	1.53
PEG-Precursor*	5165*		

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

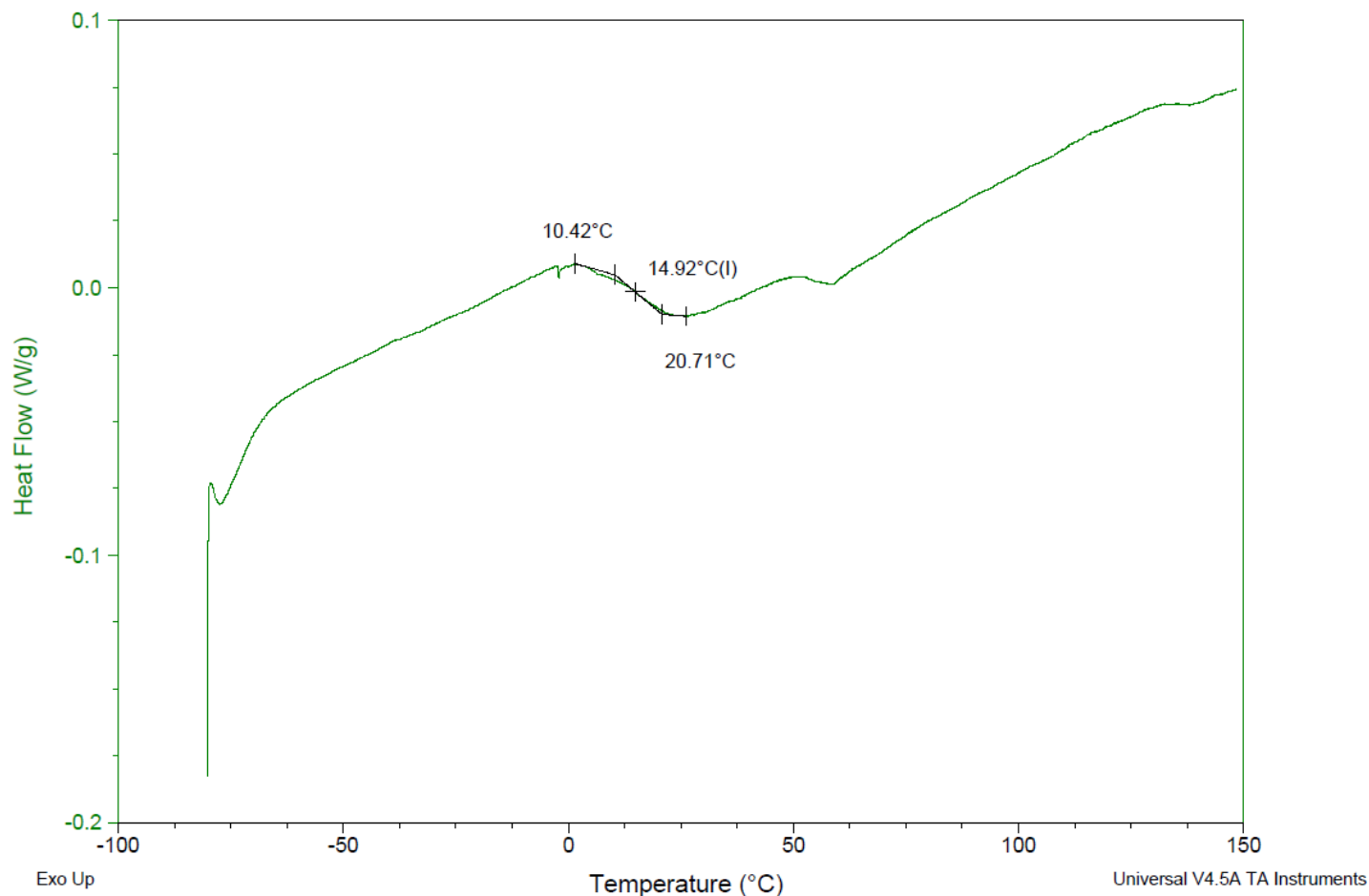
DSC

Sample: AK031 250418RAI-A
Size: 3.7000 mg
Method: Modulate-no-eqb

DSC

File: C:\COA\AK031 250418RAI-A DSC.002

Run Date: 01-May-2025 10:34
Instrument: DSC Q2000 V24.11 Build 124

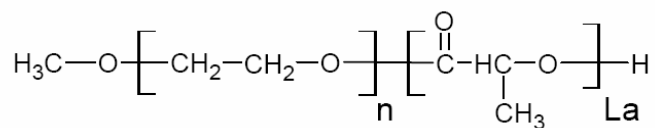


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 14.92 °C

IV

Inherent Viscosity: 0.203 ± 0.037 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