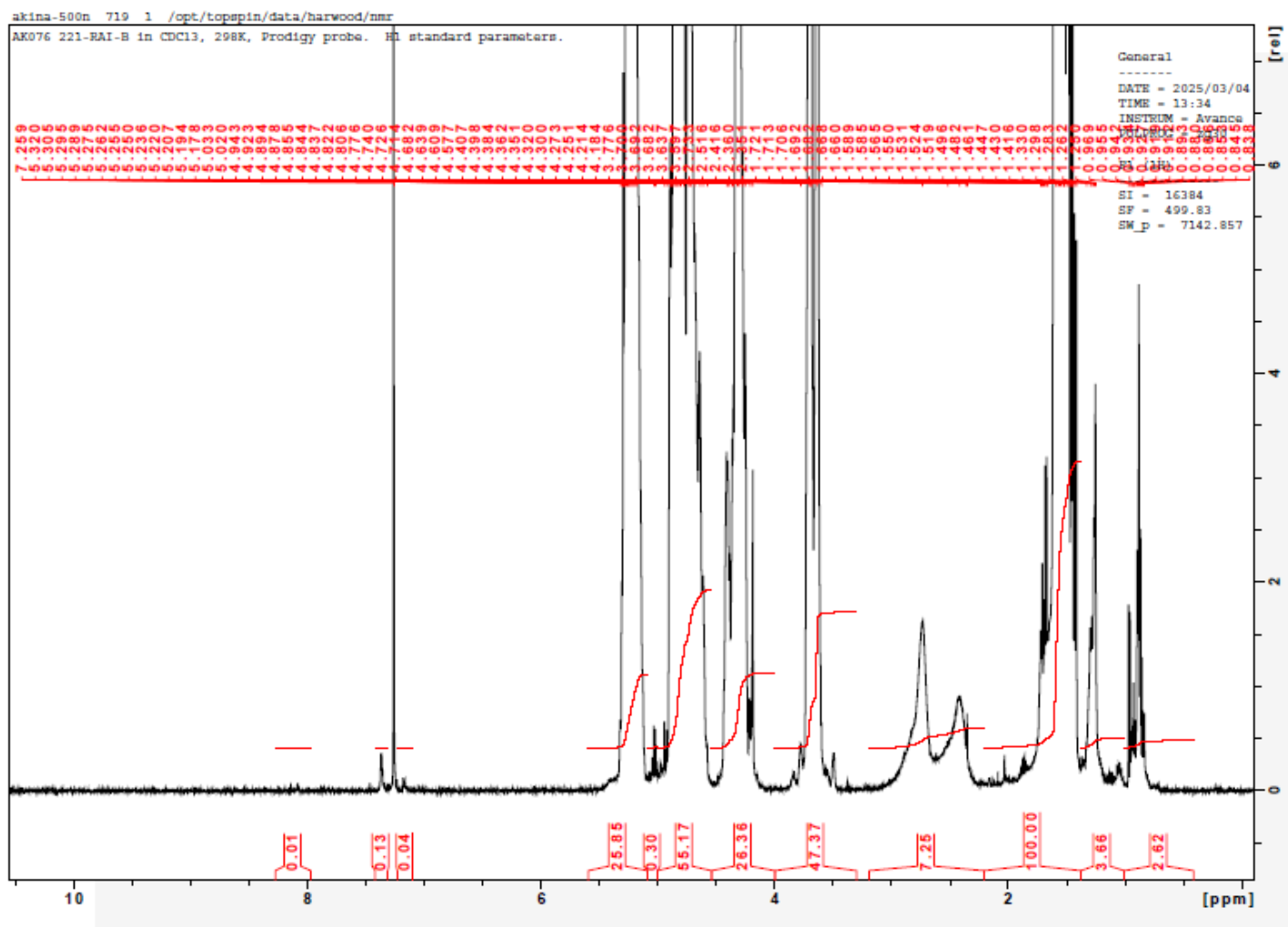


No. AK076 Certificate of Analysis

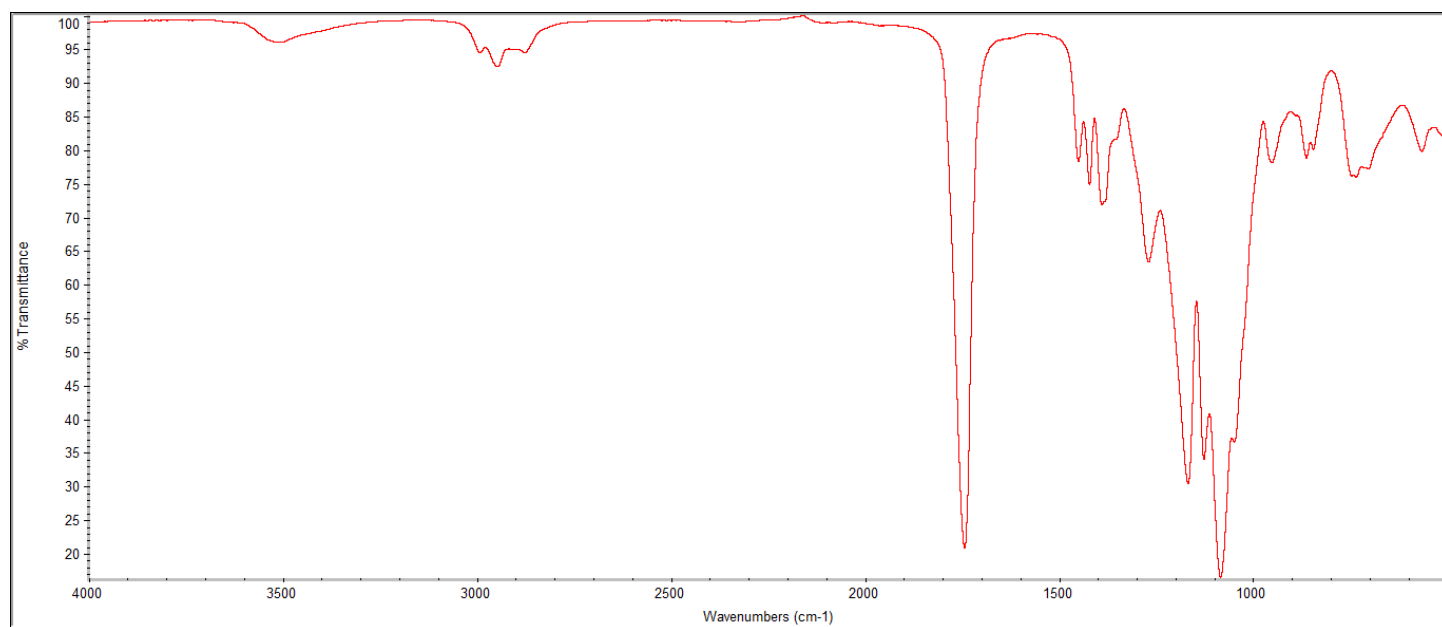
Product Name: Poly(lactic-co-glycolic acid)-*b*-Tetraethylene glycol-*b*-Poly(lactic-co-glycolic acid) copolymers (500-190-500, 50:50 LA:GA) (Lot#: 250221RAI-B)

H-NMR



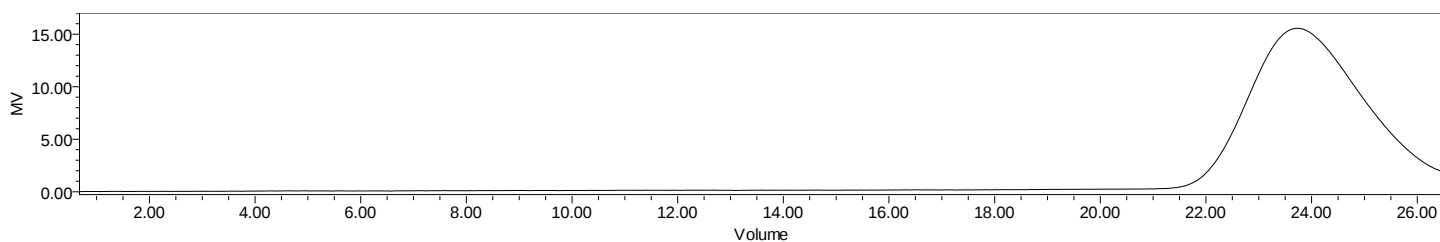
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-TEG-PLGA copolymer: EG*/LA-GA =4*/9-9 (Mn EG/LA:GA 176*/628-541 Da)

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
PLGA-TEG-PLGA	1529	2010	1.31
PEG-Precursor*	M _w ~190		

*- from MFG data

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.

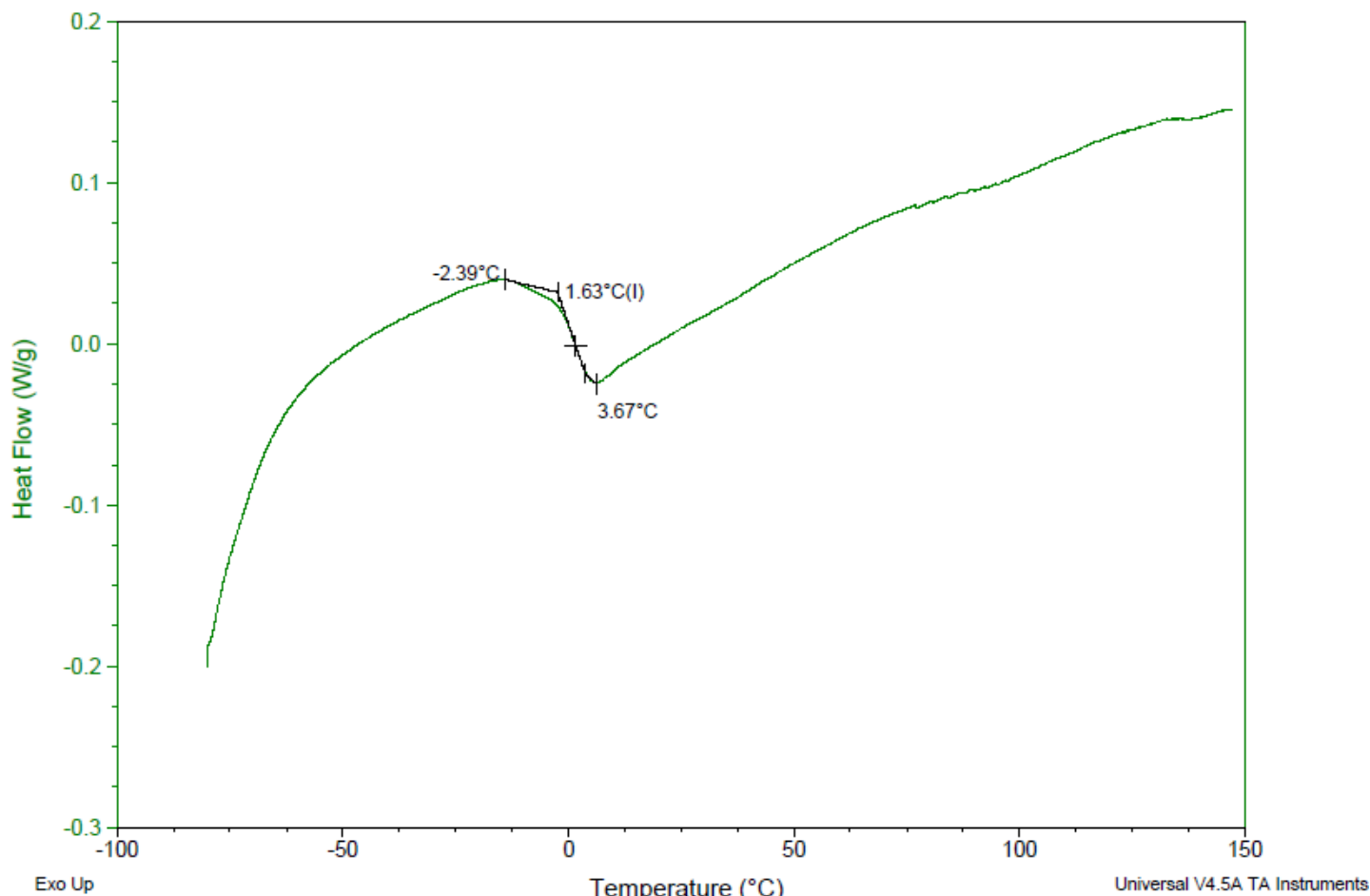
DSC

Sample: AK076 250221RAI-B
Size: 4.2000 mg
Method: Ramp

DSC

File: C:\COA\AK076 250221RAI-B DSC.001

Run Date: 27-Feb-2025 12:30
Instrument: DSC Q2000 V24.11 Build 124

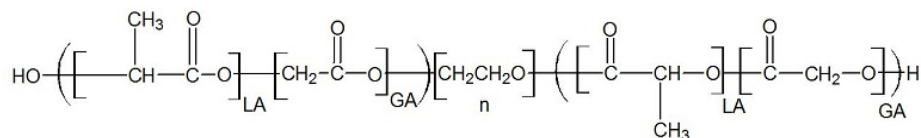


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 1.63 °C

IV

Inherent Viscosity: $0.039 \pm .008$ 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