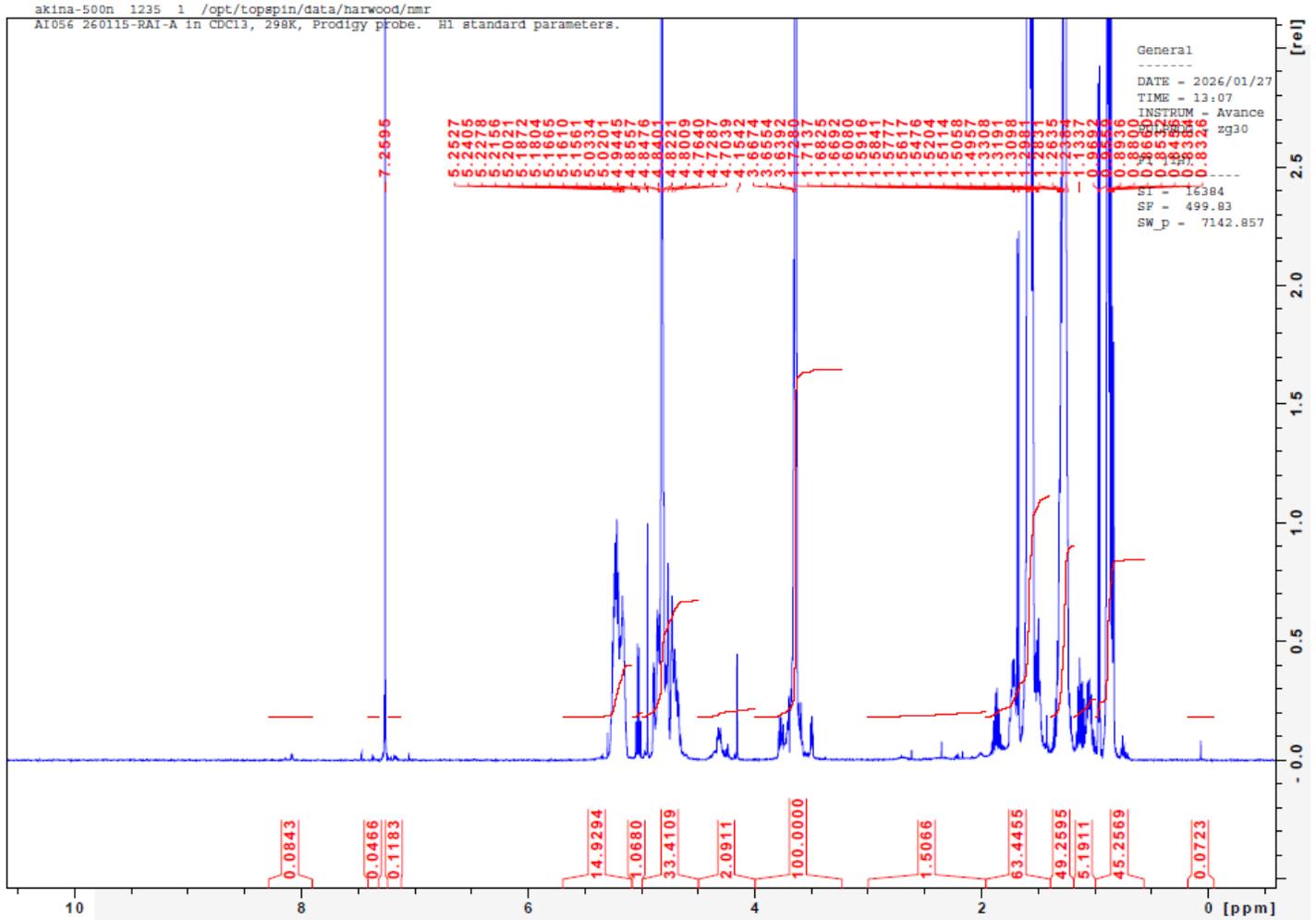


No. AI056 Certificate of Analysis

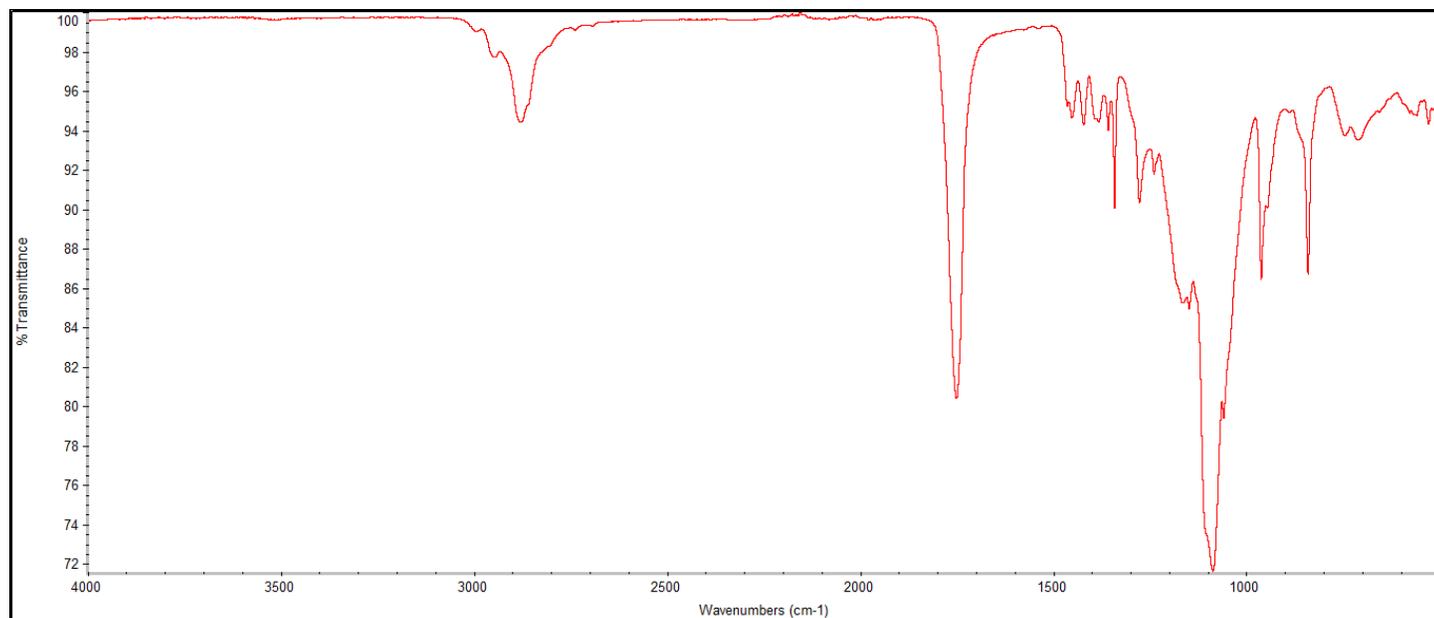
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-carboxylic acid endcap
 (Mw ~10,000 Da-5,000 Da) (Lot#: 260115RAI-A)

H-NMR



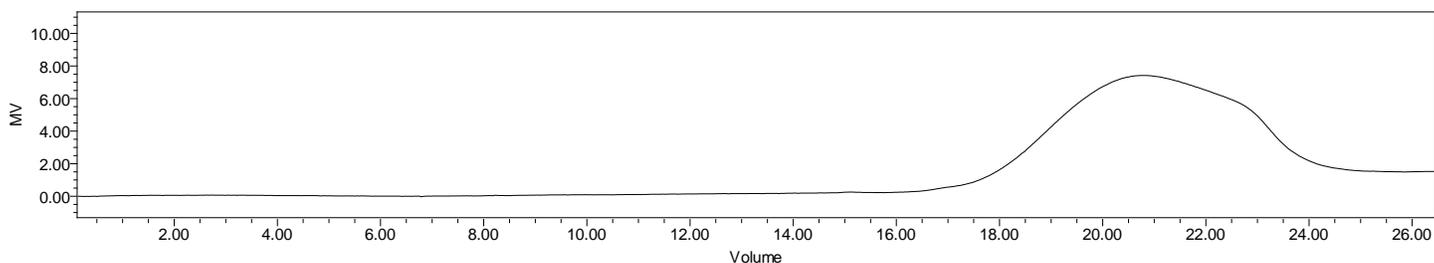
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-COOH copolymer: EG*/LA-GA =113*/67-76 (Mn EG*/LA:GA 4978*/4859-4383 Da) LA:GA 53%:47% *from MFG data

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-COOH	13,412	18,219	1.36
PEG-precursor*	M _n =5000*		

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

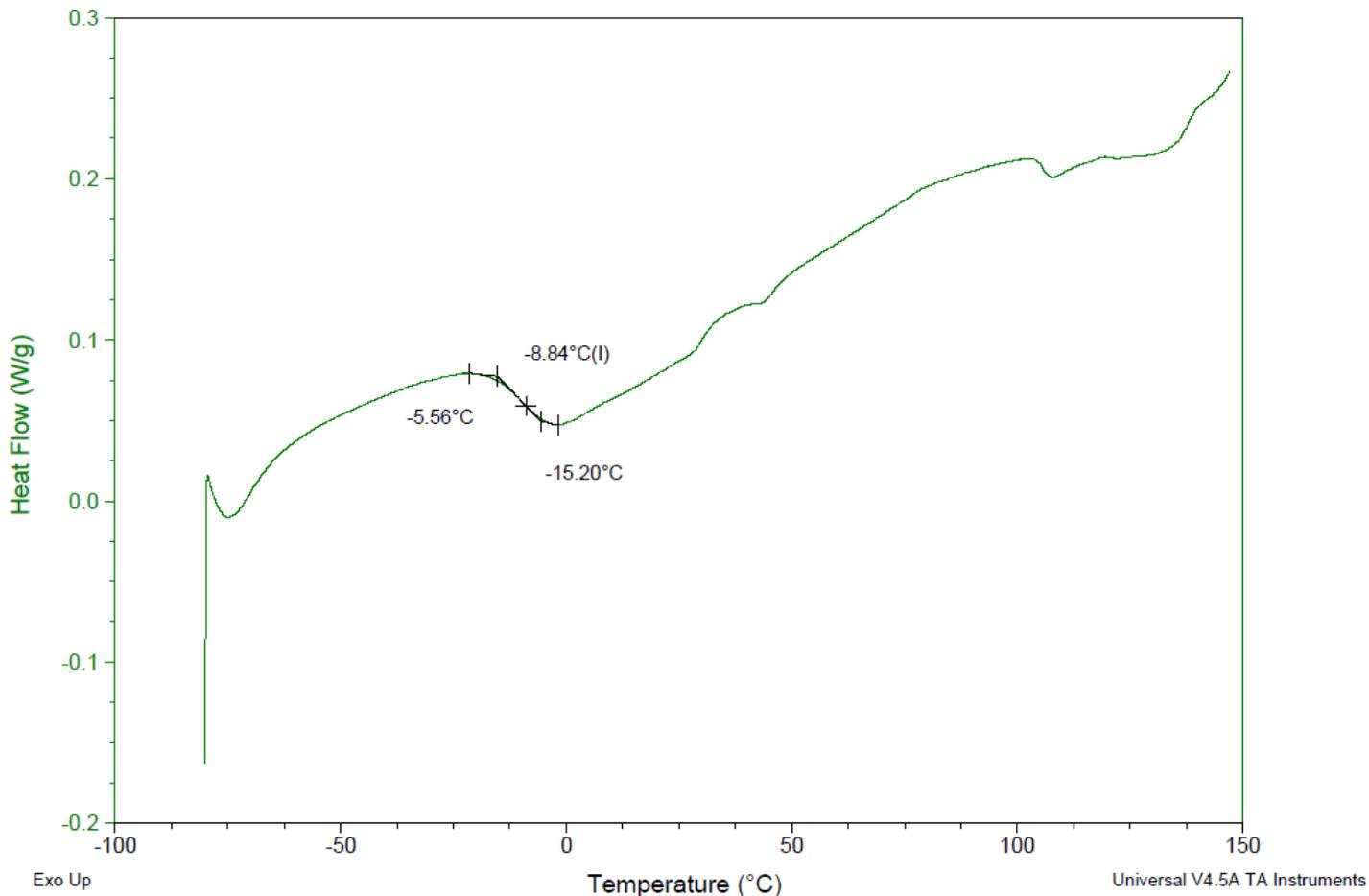
Sample: AI056 260115RAI-A
Size: 5.8000 mg
Method: Ramp

DSC

File: C:\COA\AI056 260115RAI-A.002

Run Date: 03-Feb-2026 12:35

Instrument: DSC Q2000 V24.11 Build 124

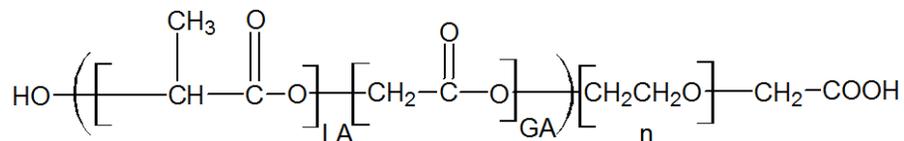


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -8.84 °C

IV

Inherent Viscosity: 0.115 ± 0.006 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