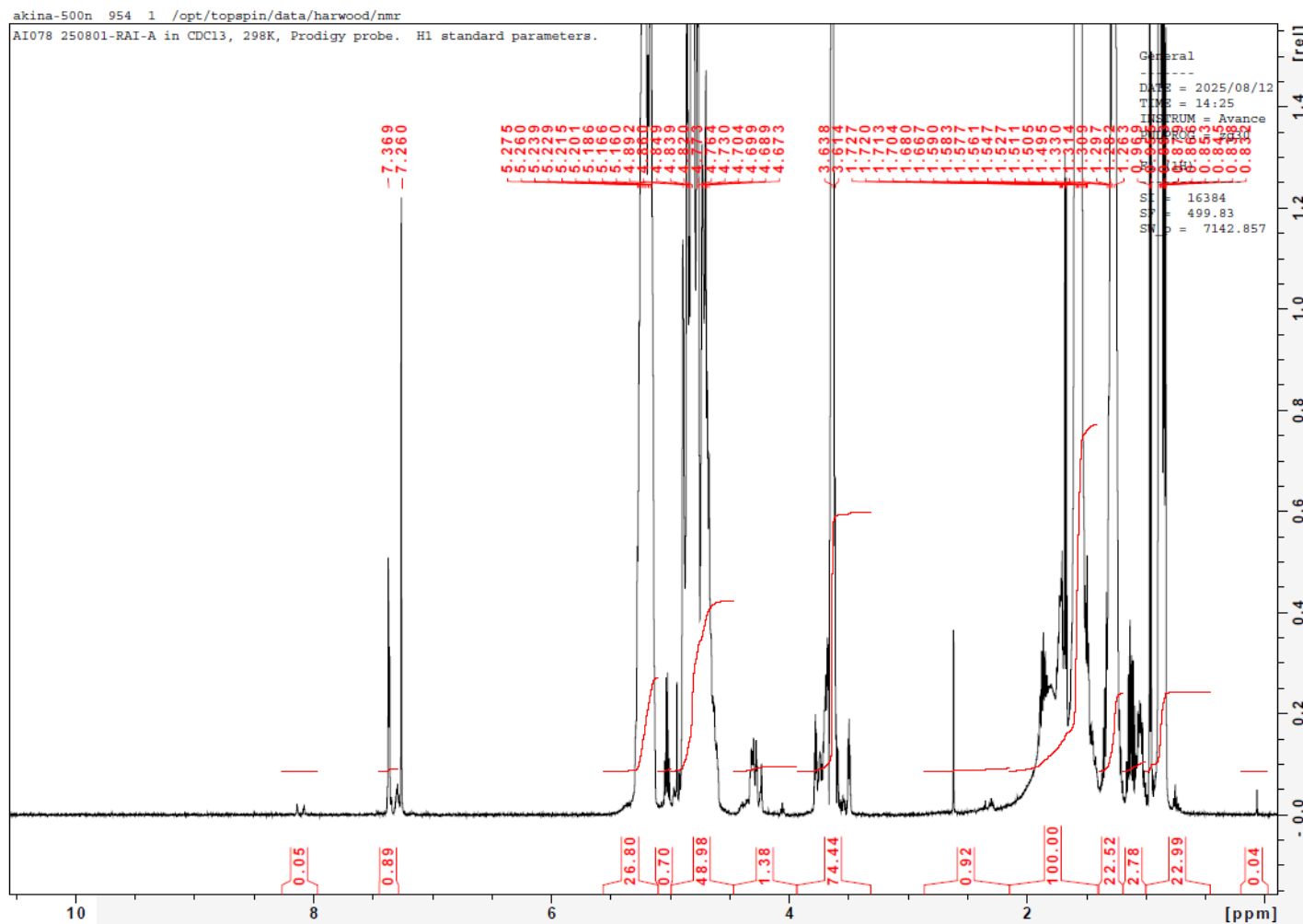


No. AI078 Certificate of Analysis

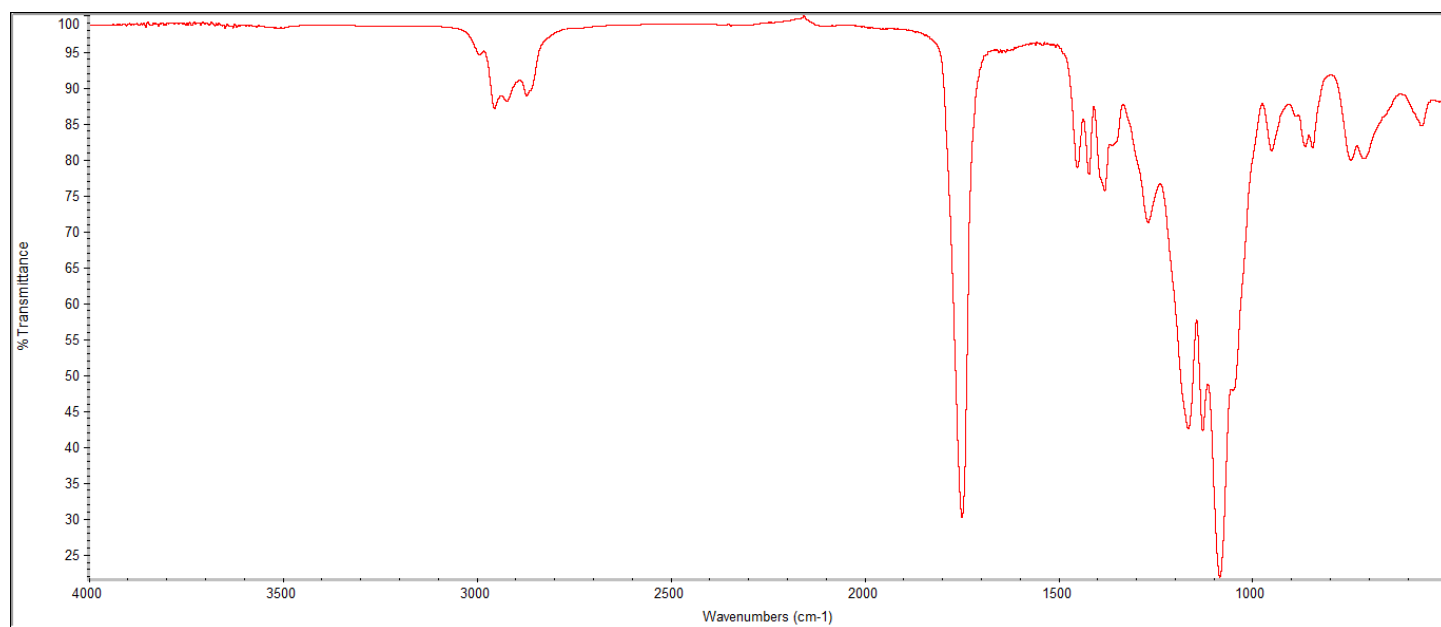
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-carboxylic acid endcap
(Mw ~ 20,000 Da-5,000 Da) (Lot#: 250801RAI-A)

H-NMR



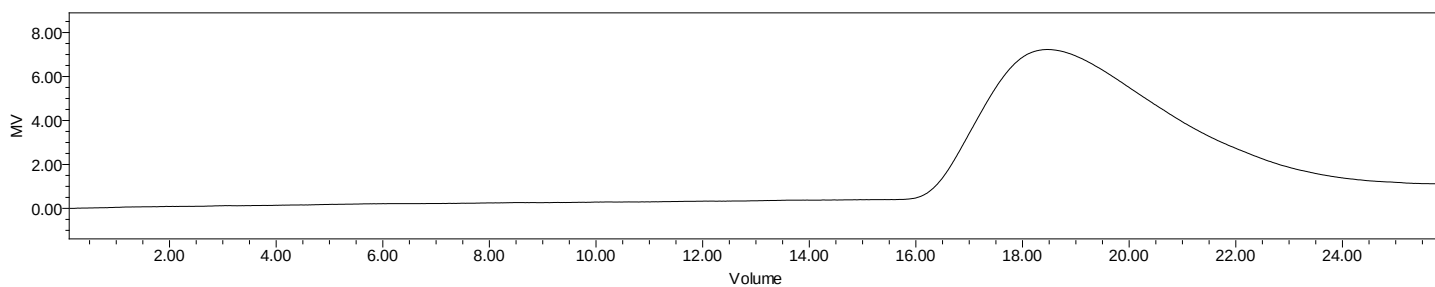
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-COOH copolymer: EG*/LA-GA =107*/154-141 (Mn EG*/LA:GA 4714*/11094-8172 Da) LA:GA 58%:42% *from MFG data

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	33,020	42,189	1.28
PEG-precursor*	4700*		

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

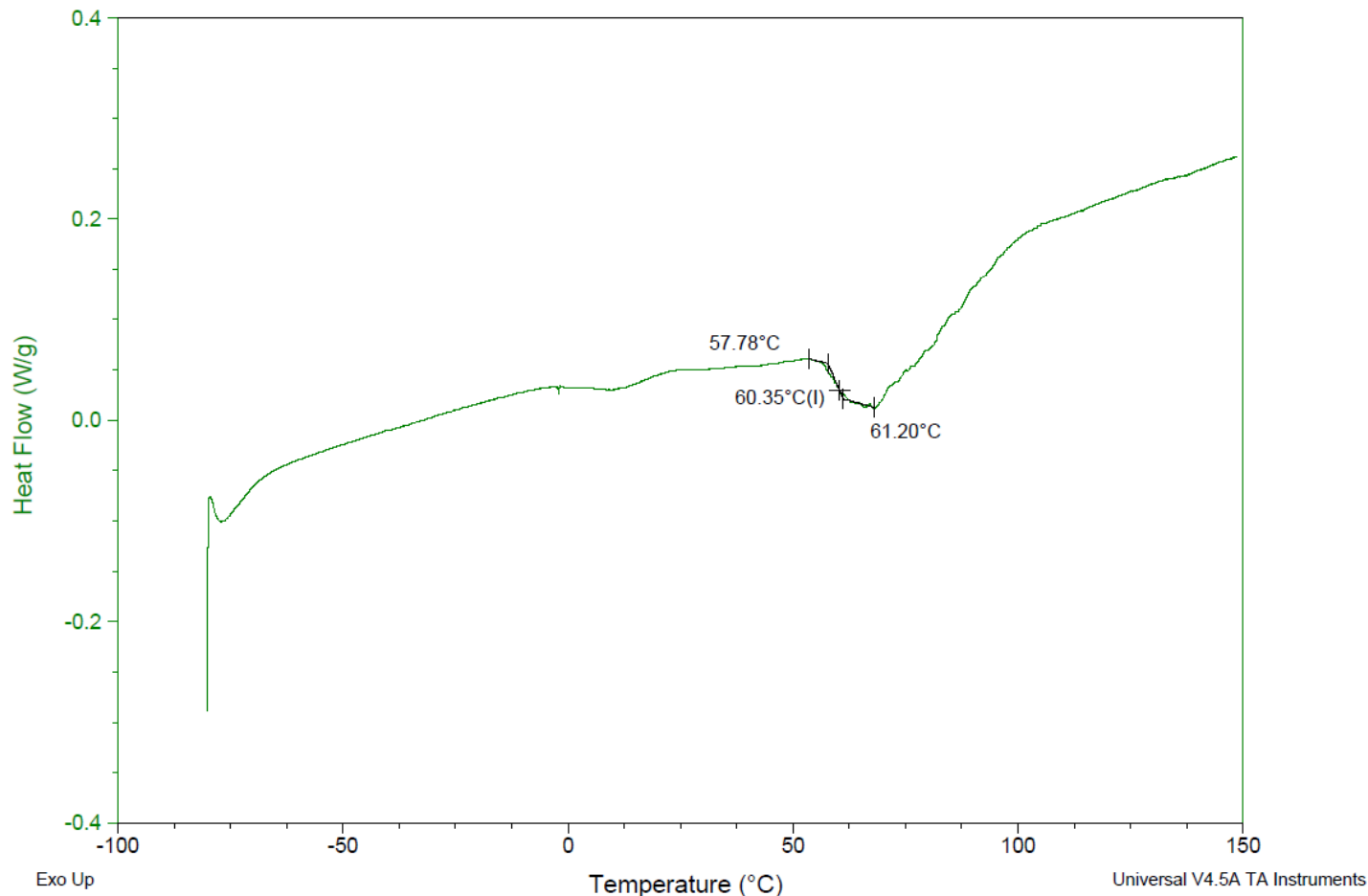
DSC

Sample: AI078 250801RAI-A
Size: 3.0000 mg
Method: Modulate-no-eqb

DSC

File: C:\...\COA\AI078 250801RAI-A DSC.001

Run Date: 06-Aug-2025 12:31
Instrument: DSC Q2000 V24.11 Build 124

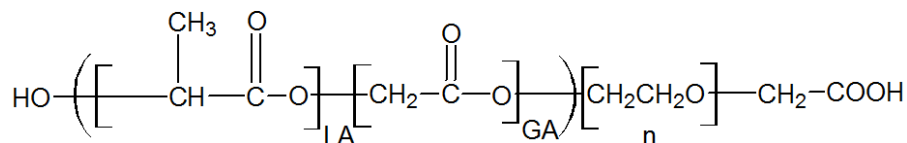


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 60.35 °C

IV

Inherent Viscosity: 0.226 ± 0.002 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