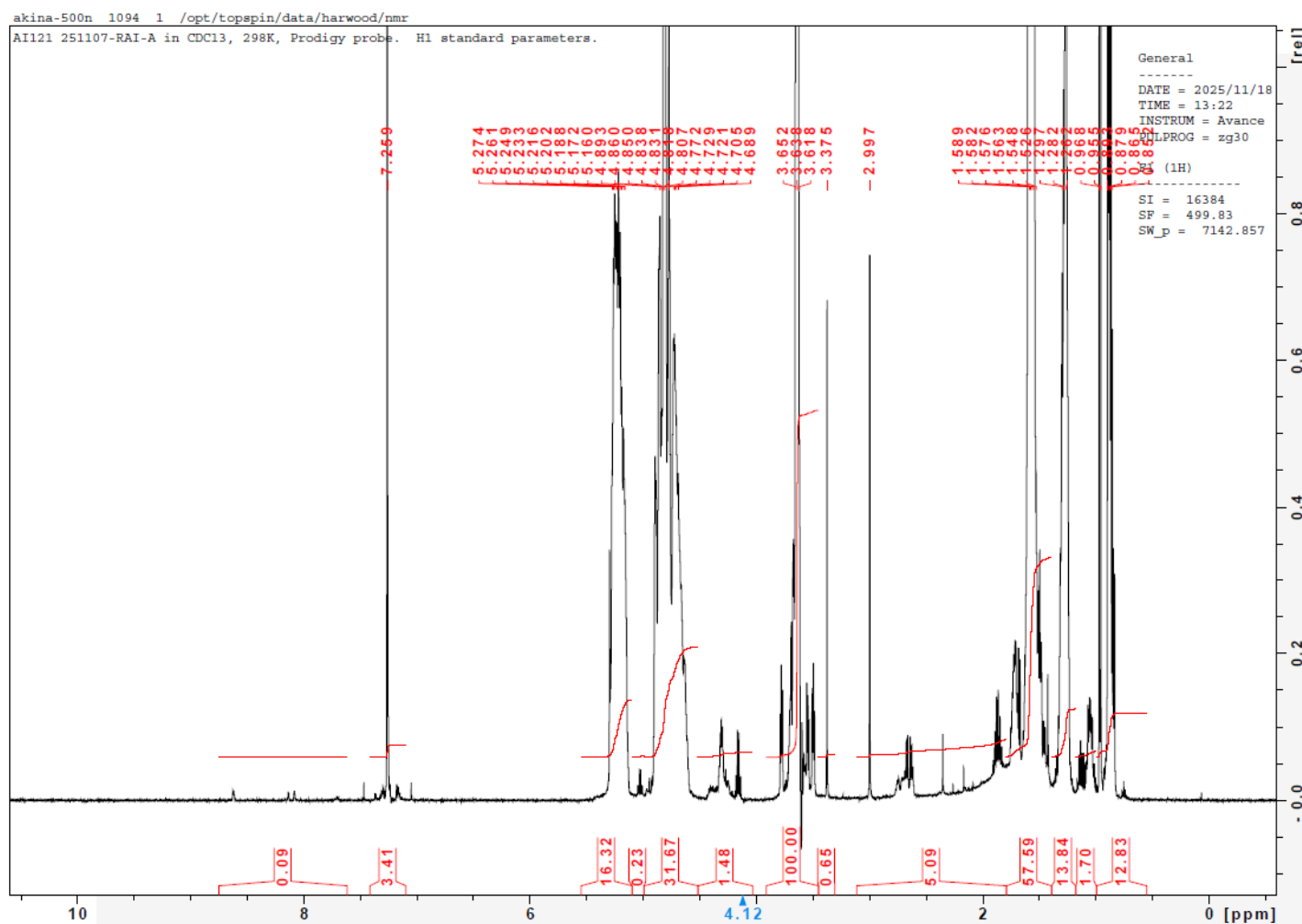


No. AI121 Certificate of Analysis

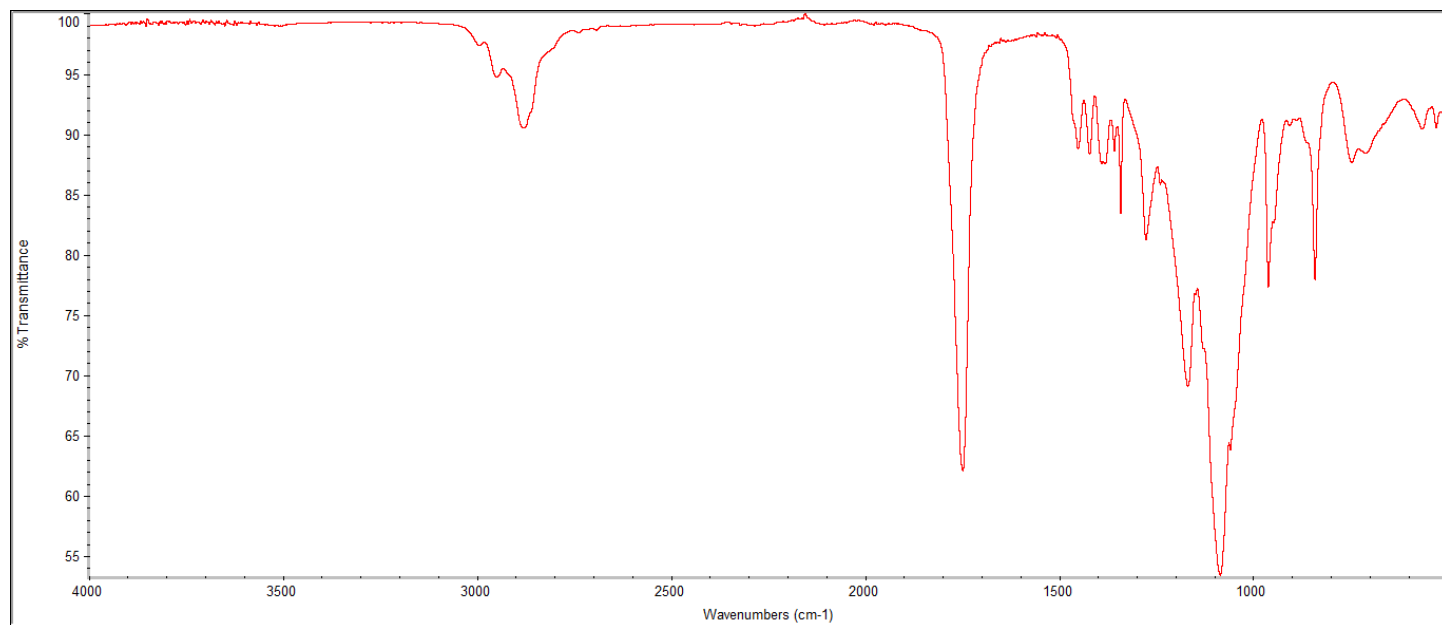
Product Name: Methoxy Poly(ethylene glycol)-b-Poly(lactide-co-glycolide) carboxylic acid
(5,000:10,000 Da) (Lot#: 251107RAI-A)

H-NMR



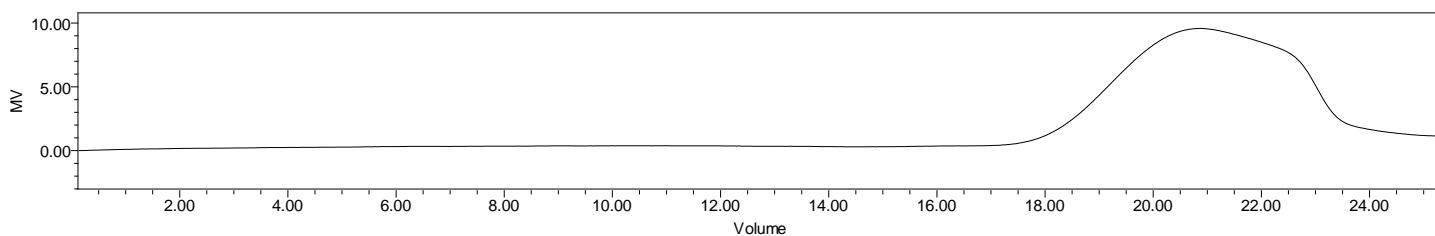
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: EG*/LA-GA =117*/76-74 (Mn EG*/LA:GA 5154*/5499-4301 Da) LA:GA 56%:44% *from MFG data

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
mPEG-PLGA-COOH	13,328	17,605	1.32
mPEG-precursor*	M _n =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

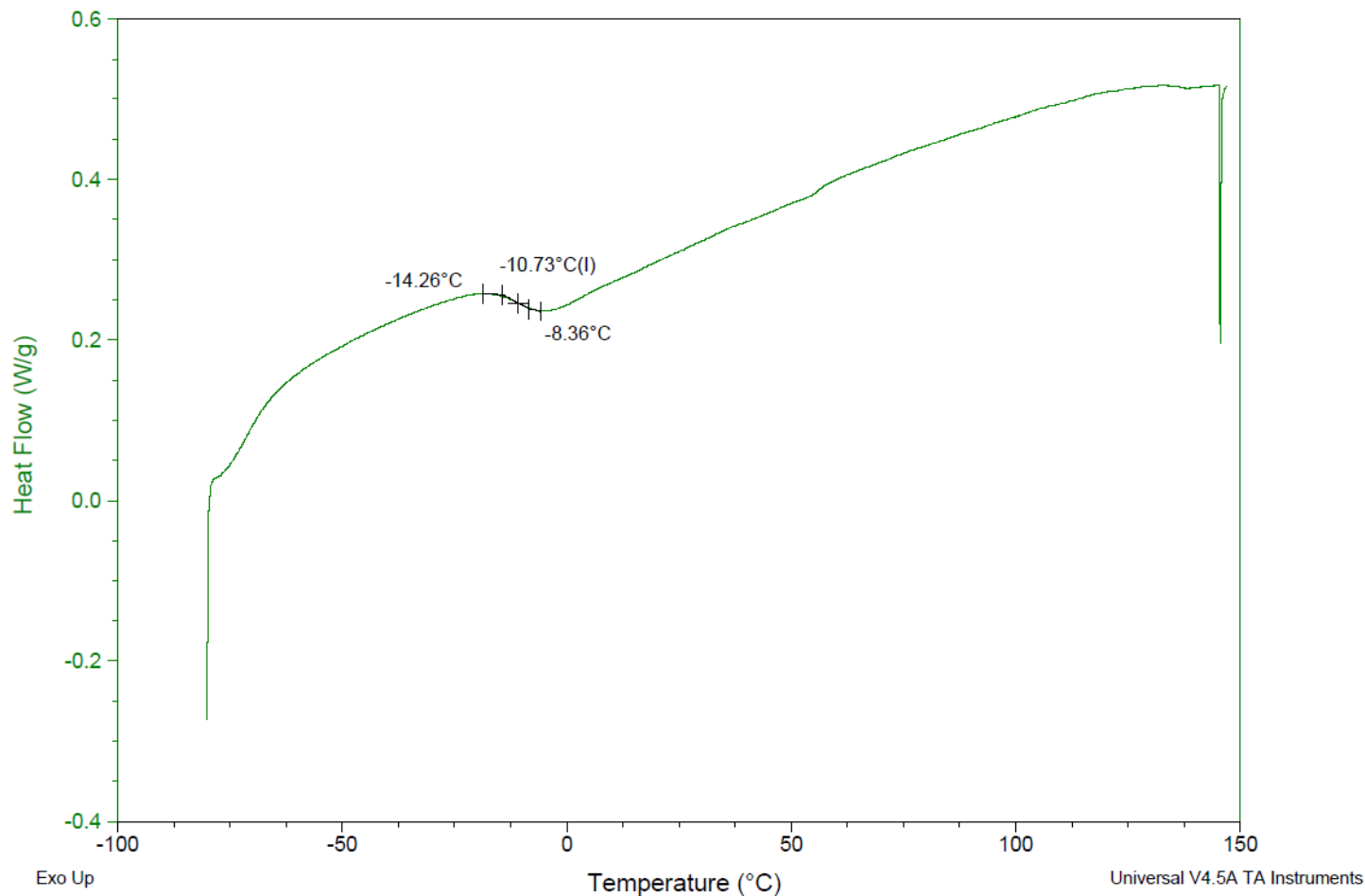
DSC

Sample: AI121 251107RAI-A
Size: 3.2000 mg
Method: Ramp

DSC

File: C:\...\COA\AI121 251107RAI-A.001

Run Date: 19-Nov-2025 15:15
Instrument: DSC Q2000 V24.11 Build 124

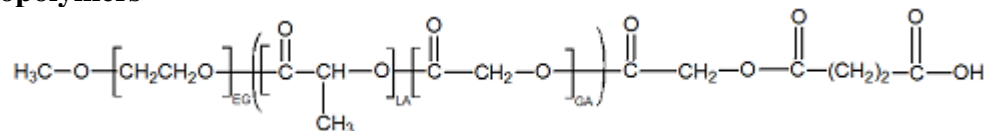


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -10.73 °C

IV

Inherent Viscosity: $0.142 \pm .007$ 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