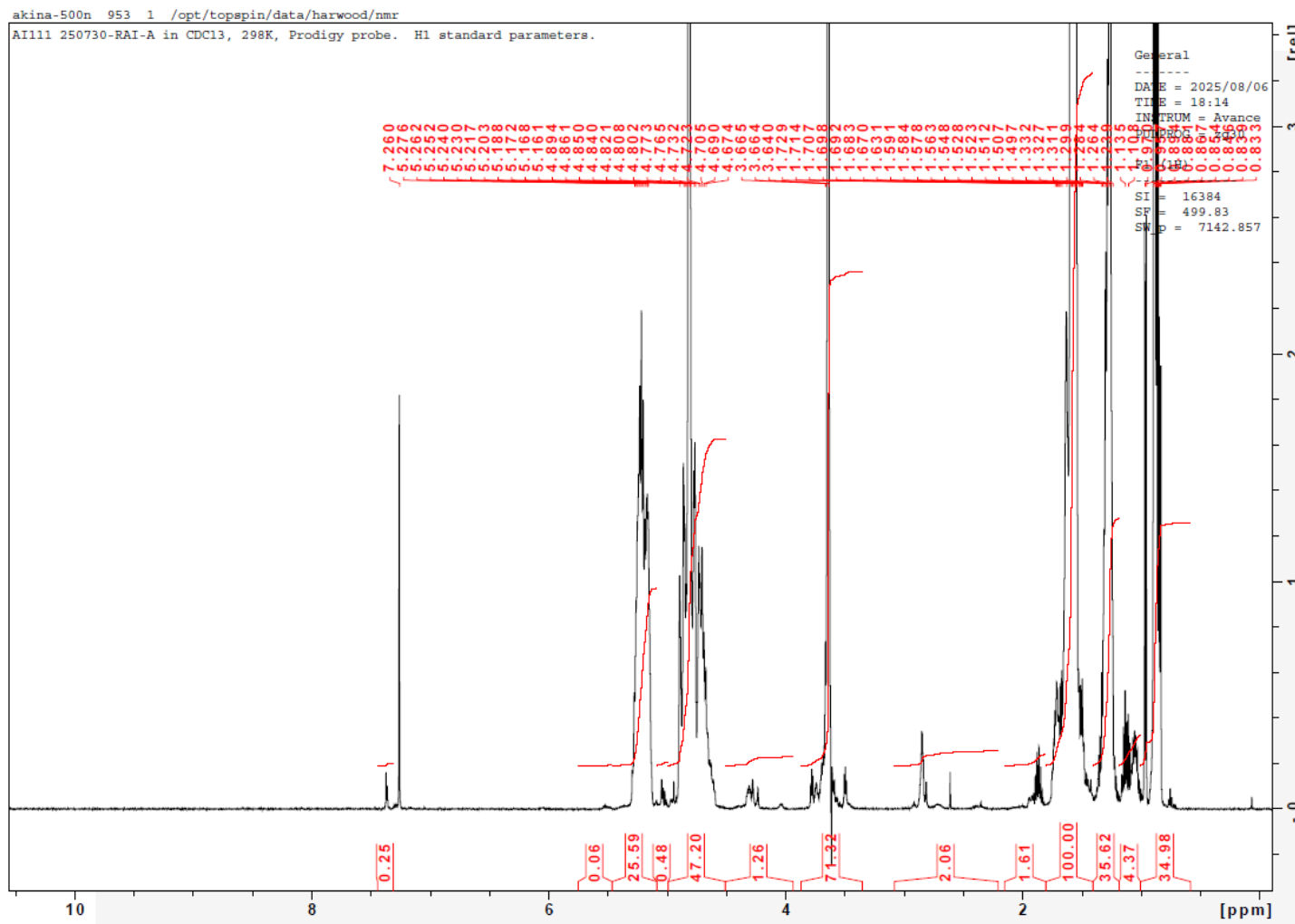


No. AI111 Certificate of Analysis

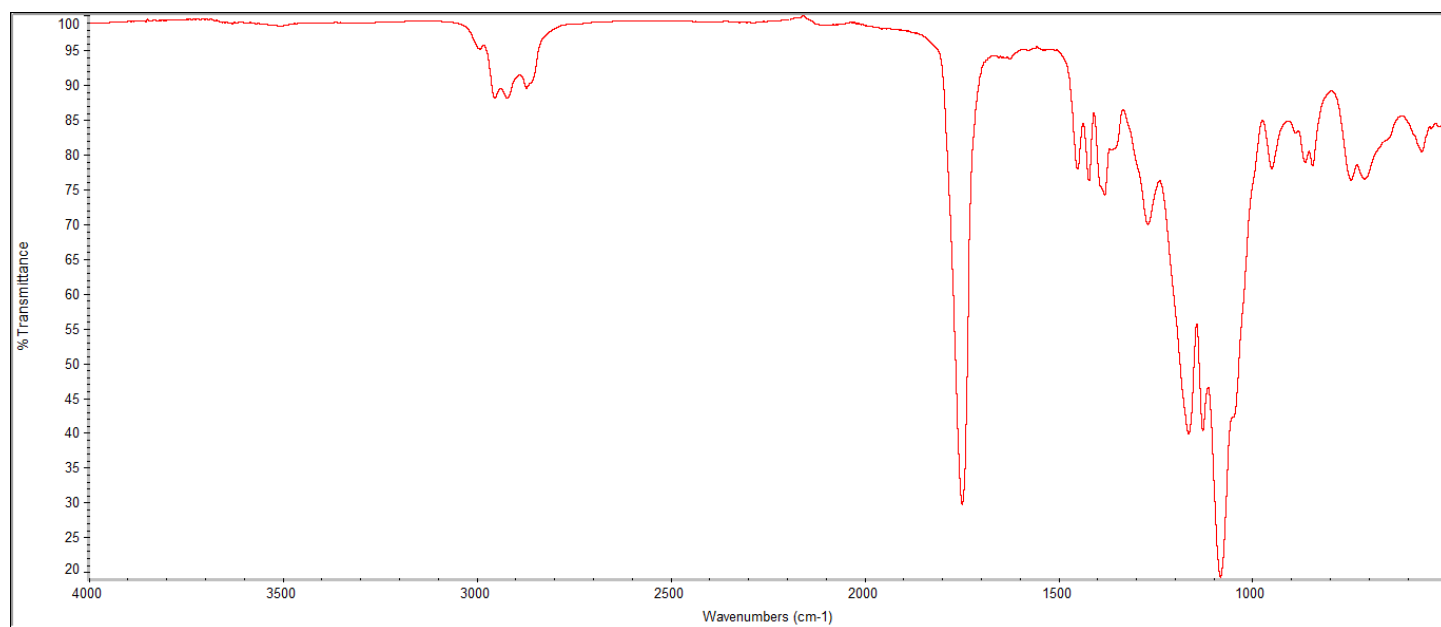
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-N-hydroxysuccinimide endcap (~20,000 Da-5,000 Da, 50:50 LA:GA) (Lot#: 250730RAI-A)

H-NMR



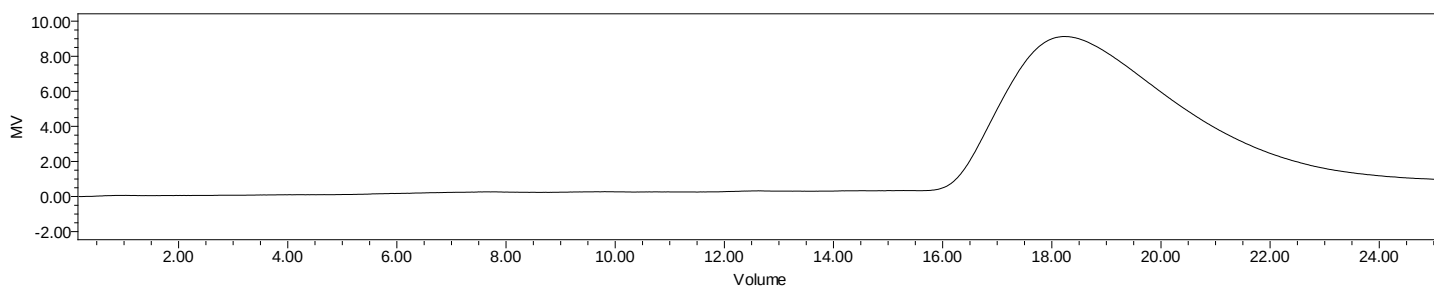
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-NHS copolymer: EG*/LA-GA =113*/162-150 (Mn EG*/LA:GA 4978*/11677-8681 Da) LA:GA 57%:43% *from MFG data (if PEG present)

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-NHS	33,153	43,880	1.32
PEG-Precursor	M _n = 4996*		

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

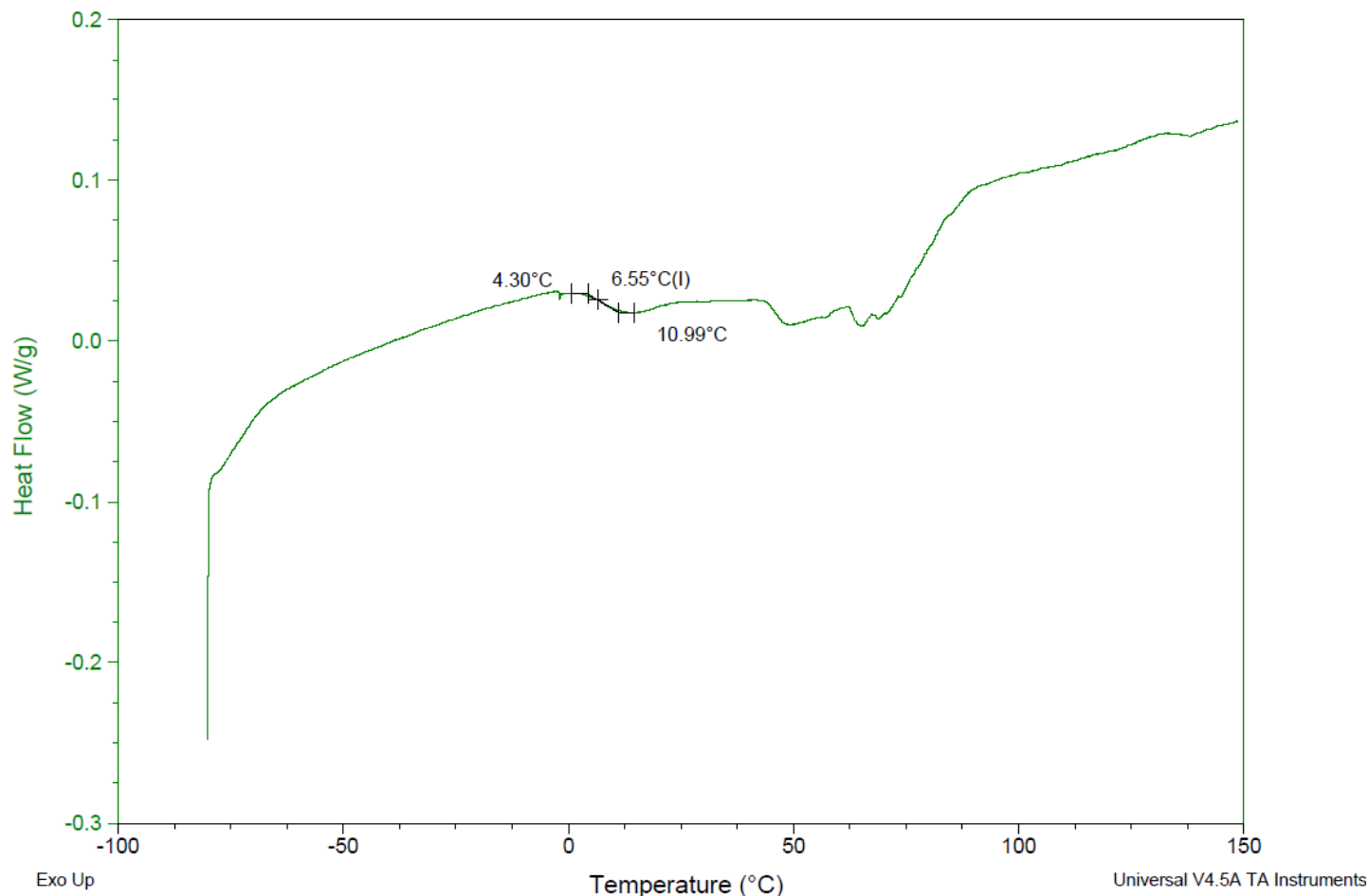
DSC

Sample: AI111 250730RAI-A
Size: 2.7000 mg
Method: Modulate-no-eqb

DSC

File: C:\...\COA\AI111 250730RAI-A DSC.001

Run Date: 06-Aug-2025 09:34
Instrument: DSC Q2000 V24.11 Build 124

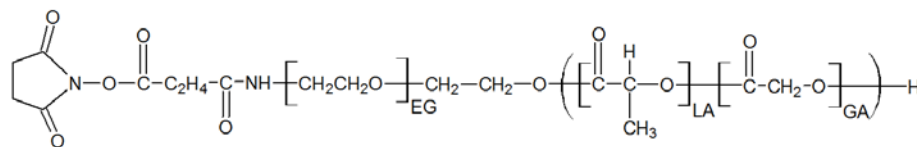


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 6.55 °C

IV

Inherent Viscosity: 0.225 ± 0.015 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