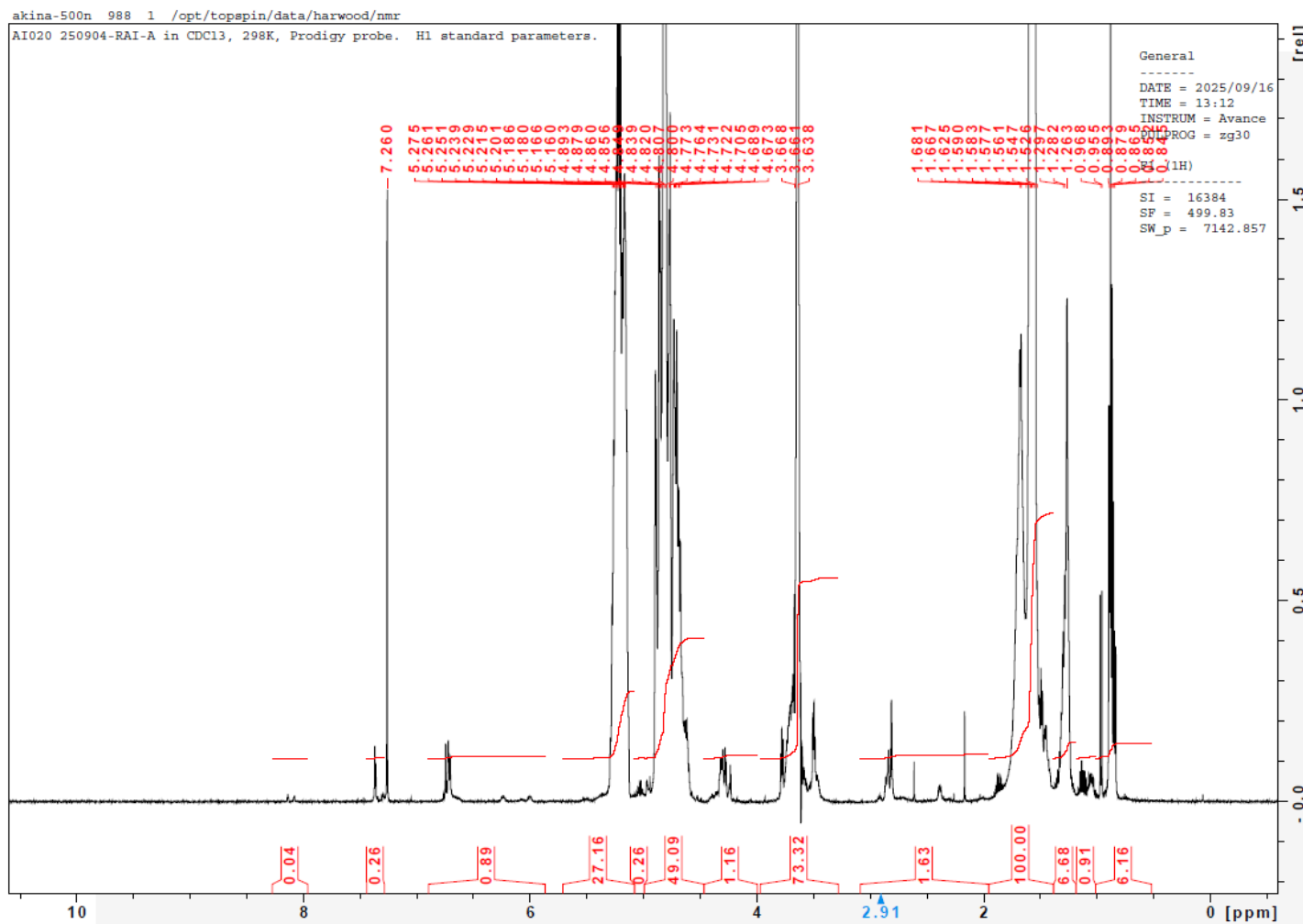


No. AI020 Certificate of Analysis

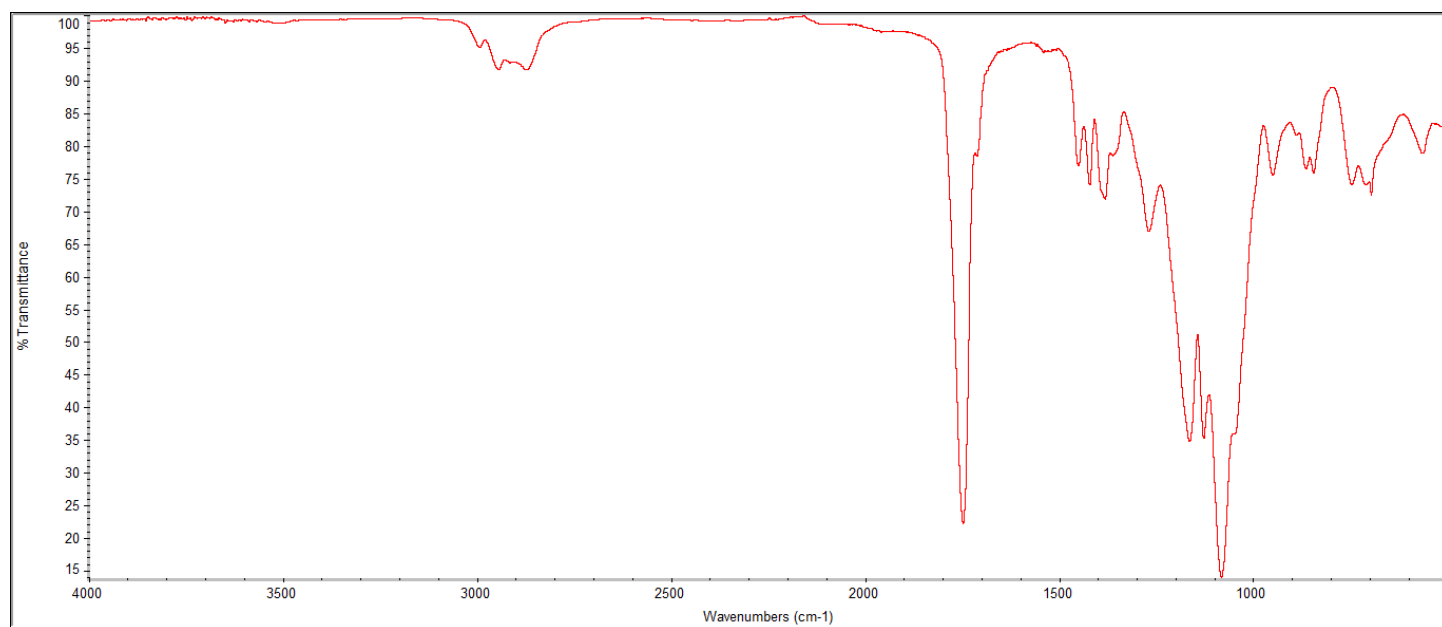
Product Name: Poly(lactic-co-glycolic)-b-Poly(ethylene glycol)-Maleimide Copolymers
LA:GA 50:50 ($M_w \sim 20,000$ -5,000Da) (Lot#: 250904RAI-A)

H-NMR



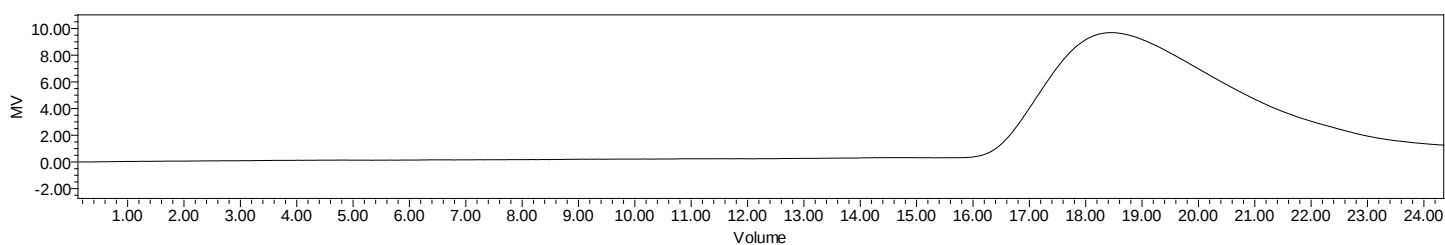
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥ 300 MHz, PINMRF) NMR of PLGA copolymer: EG*/LA-GA = 107*/159-143 (Mn EG*/LA:GA 4714*/11415-8316 Da) LA:GA 58%:42% *from MFG data

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-Mal	29,123	39,046	1.34
PEG-precursor*	Mn 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

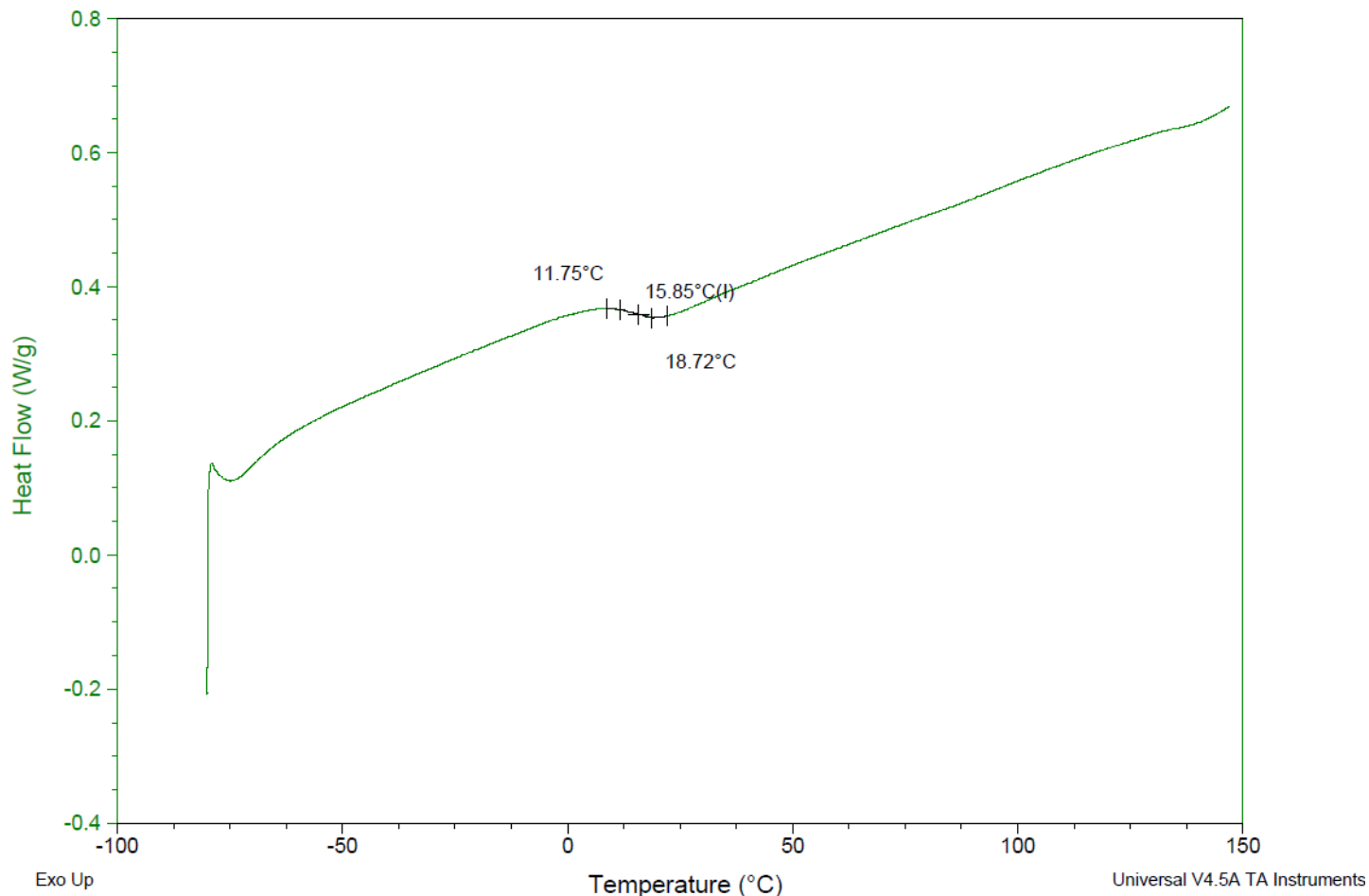
DSC

Sample: AI020 250904RAI-A
Size: 5.1000 mg
Method: Ramp

DSC

File: C:\...\COA\AI020 250904RAI-A DSC.001

Run Date: 18-Sep-2025 13:13
Instrument: DSC Q2000 V24.11 Build 124

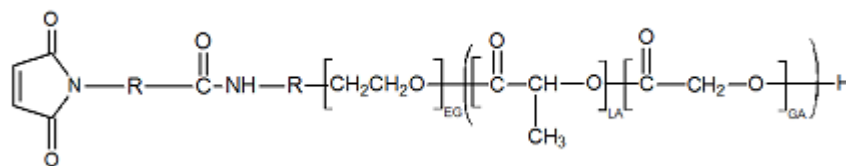


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. T_g = 15.85 °C

IV

Inherent Viscosity: 0.292 ± 0.013 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