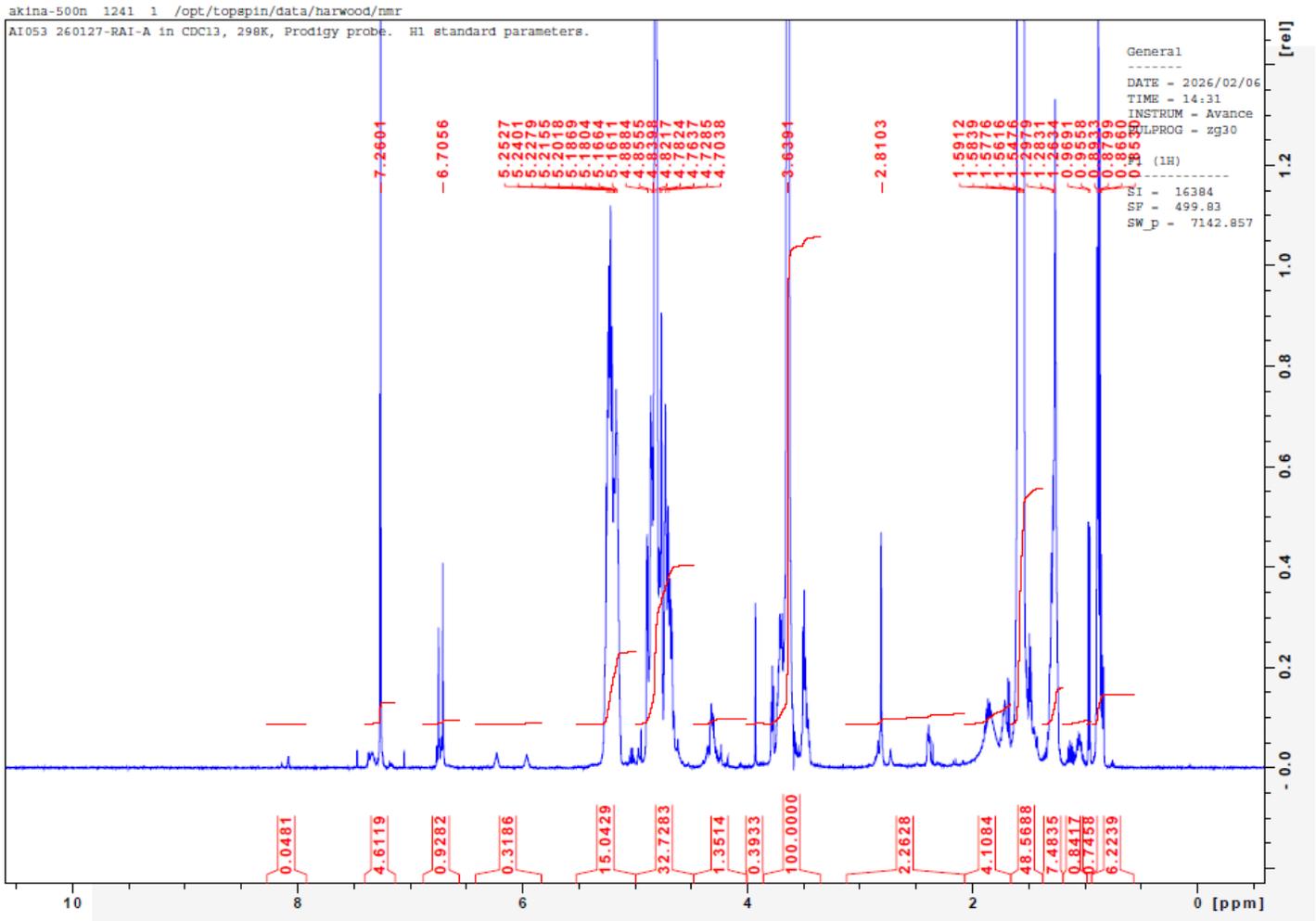


No. AI053 Certificate of Analysis

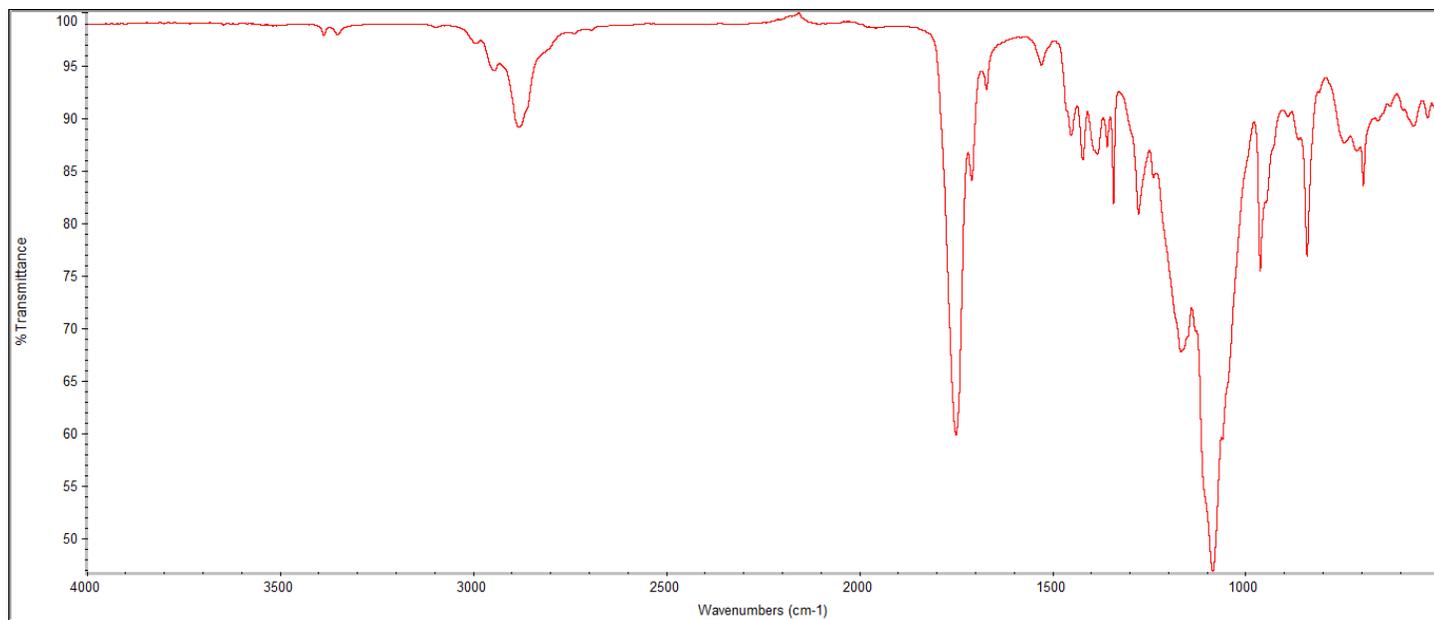
Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide) diblock copolymers (50:50 LA:GA, $M_w \sim 5,000:10,000$ Da) (Lot#: 260127RAI-A)

H-NMR



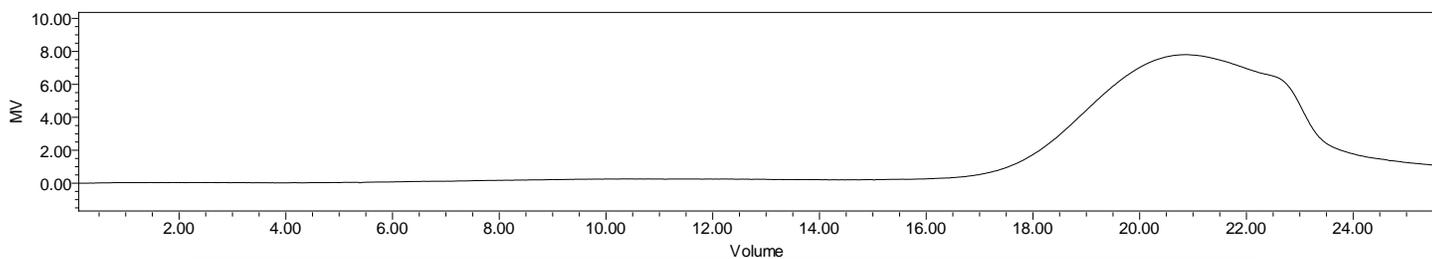
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-Mal copolymer: EG*/LA-GA =113*/68-74 (Mn EG*/LA:GA 4978*/4896-4293 Da) LA:GA 53%:47% *from MFG data

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-Mal	14,384	19,617	1.34
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

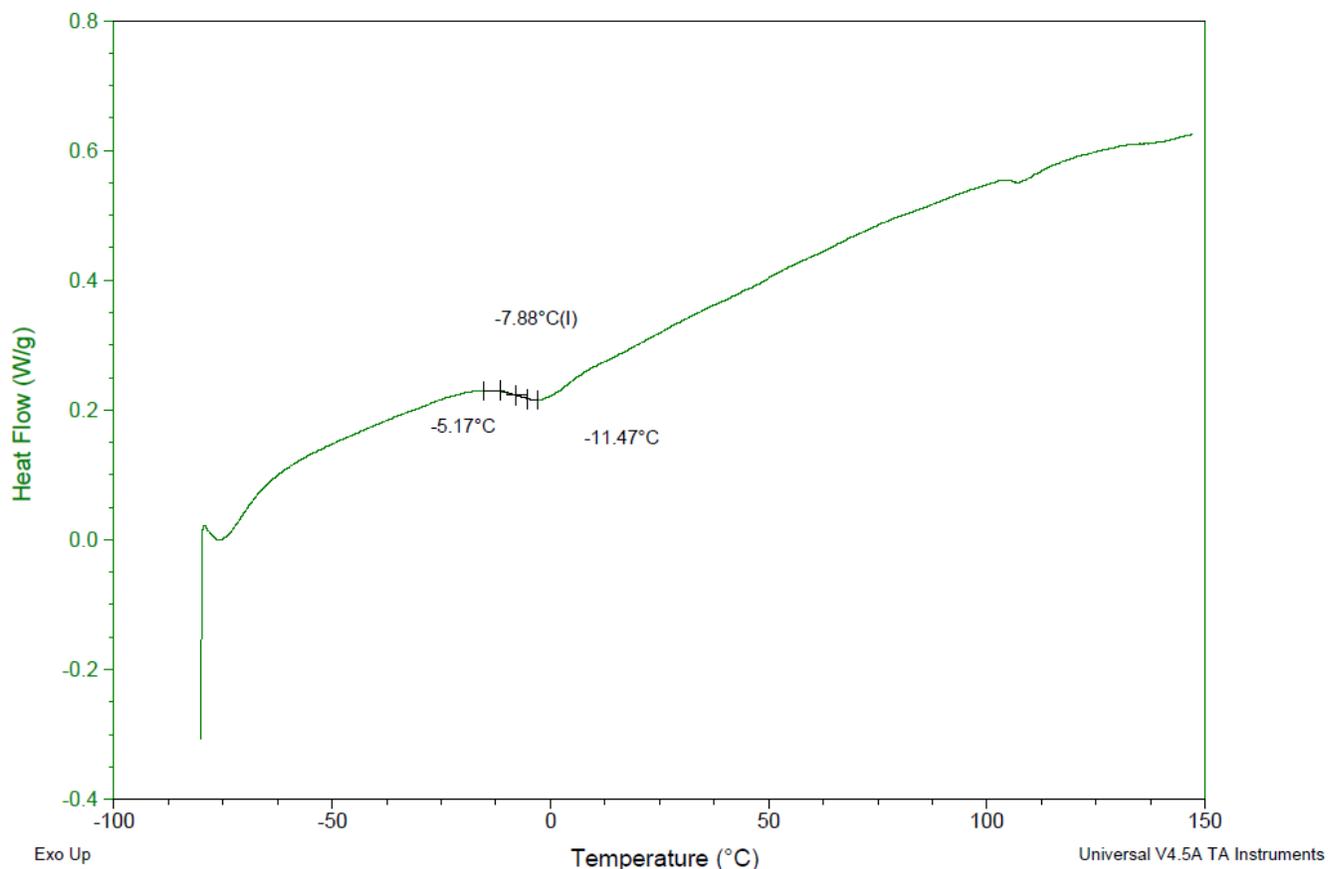
Sample: AI053 260127RAI-A
Size: 3.3000 mg
Method: Ramp

DSC

File: C:\...\COA\AI053 260127RAI-A.001

Run Date: 03-Feb-2026 11:19

Instrument: DSC Q2000 V24.11 Build 124

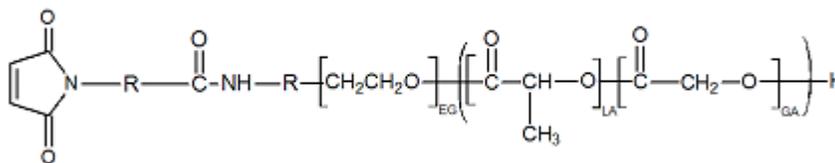


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -7.88 °C

IV

Inherent Viscosity: $0.158 \pm .009$ 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