

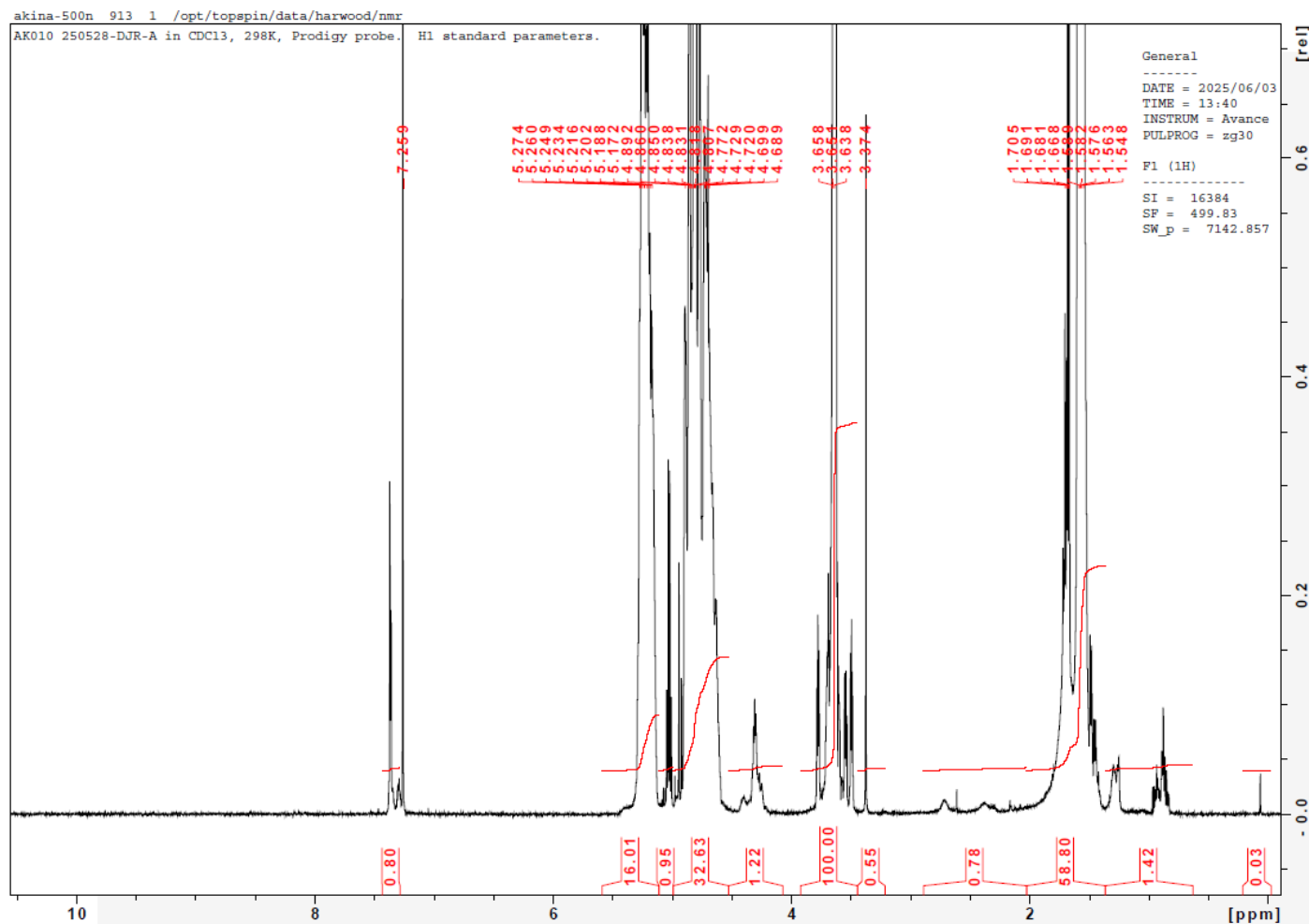
No. AK010

Certificate of Analysis



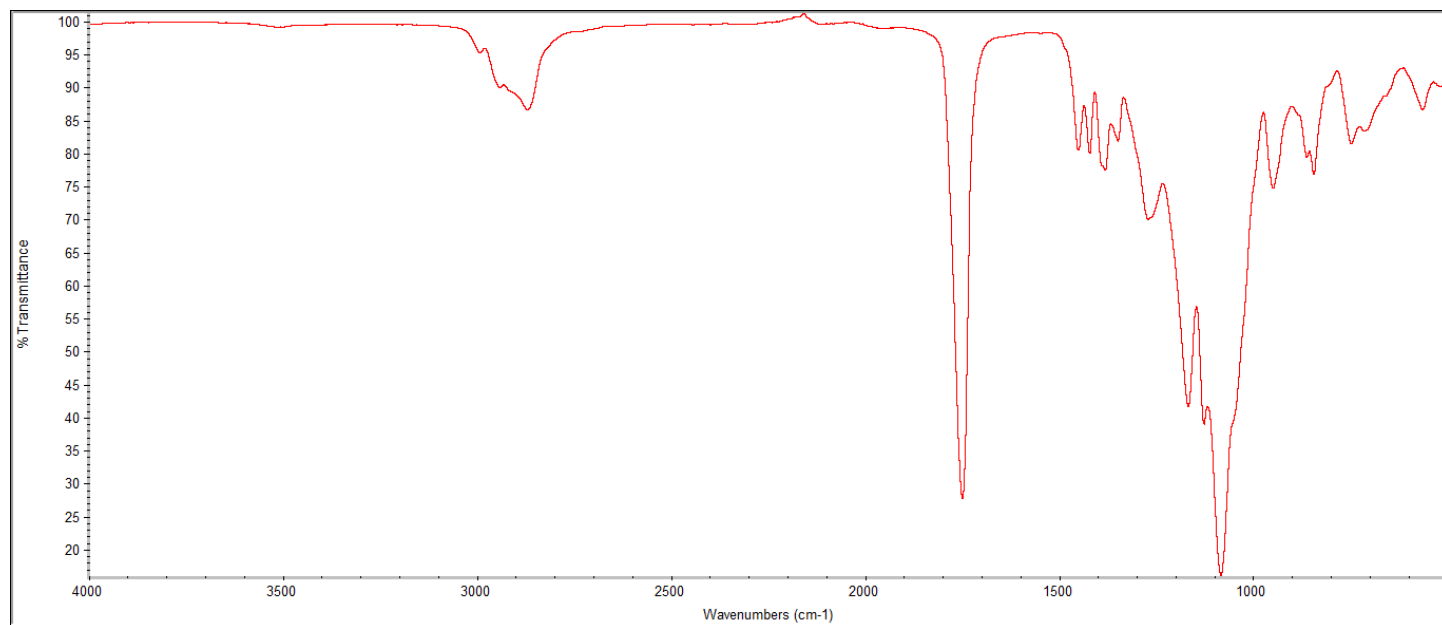
Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly(D,L-lactide-co-glycolide) (Mw ~ 5,000:10,000 Da, 50:50 LA:GA) (Lot#: 250528DJR-A)

H-NMR



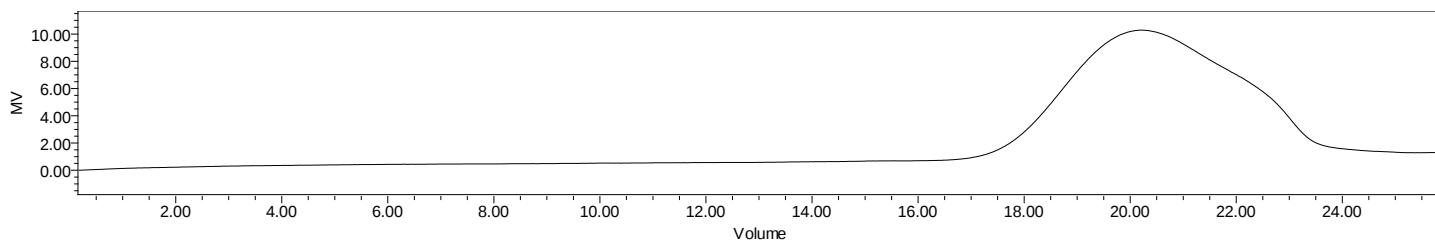
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG/LA-GA =109*/70-71 molar ratio (Mn EG/LA:GA 4802*/5026-4129 Da) LA:GA 55%:45%

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	15,509	21,085	1.34
PEG-Precursor*	4788*		

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

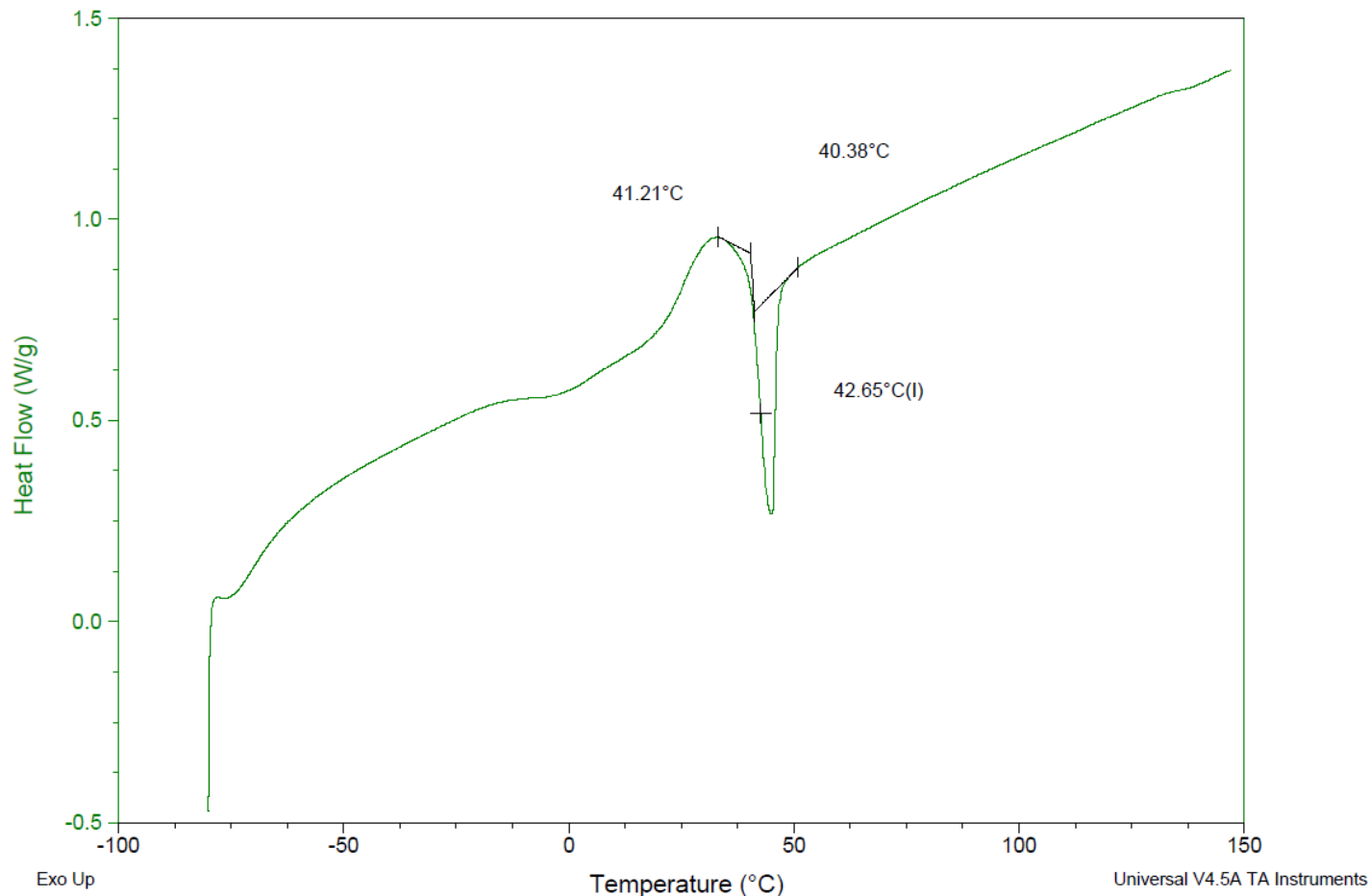
DSC

Sample: AK010
Size: 2.4000 mg
Method: Ramp

DSC

File: C:\...\COA\AK010 250528DJR-A.002

Run Date: 02-Jun-2025 09:29
Instrument: DSC Q2000 V24.11 Build 124

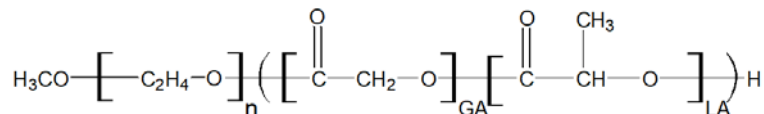


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 42.65 °C

IV

Inherent Viscosity: 0.163 ± 0.011 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