

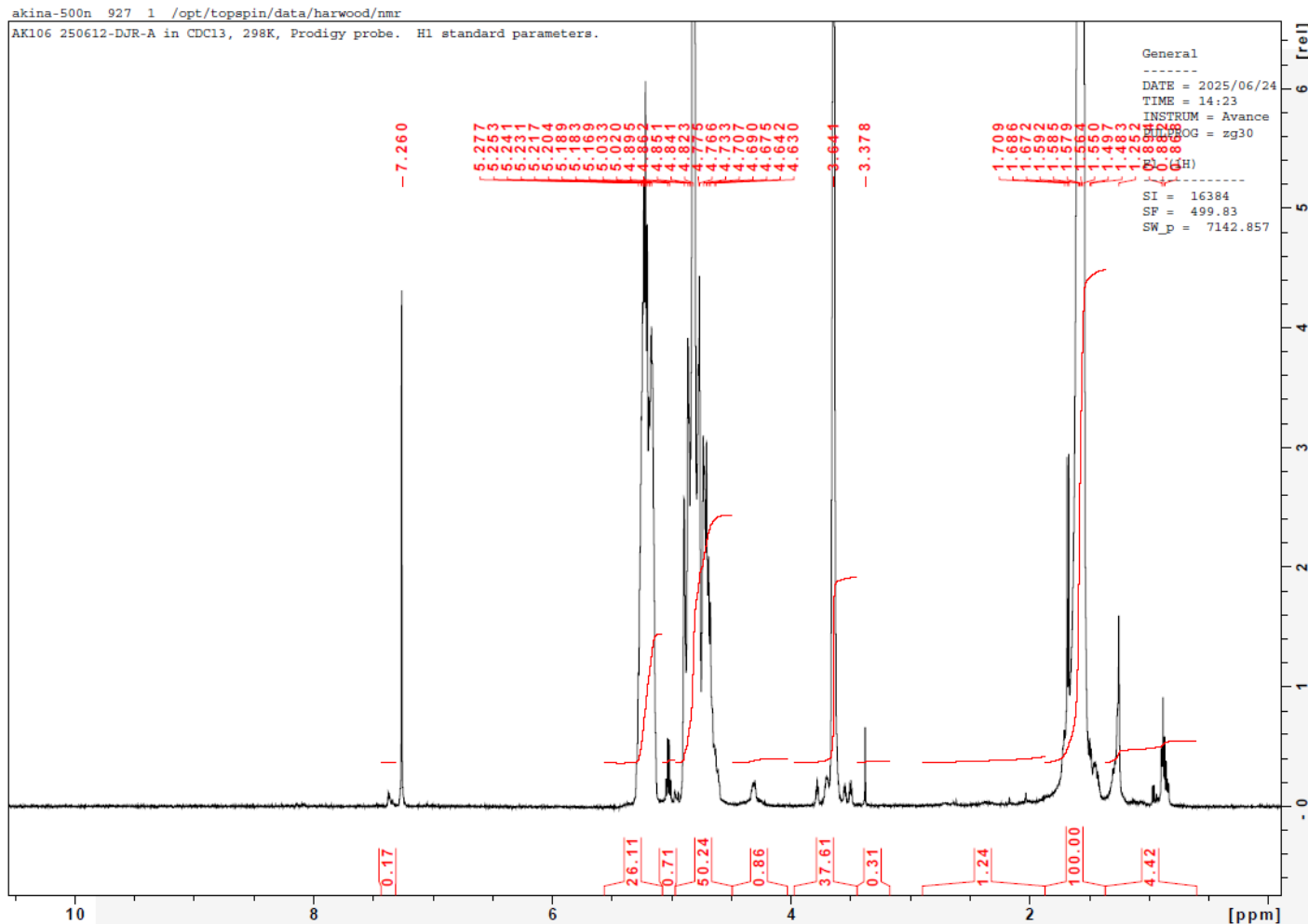
No. AK106

Certificate of Analysis



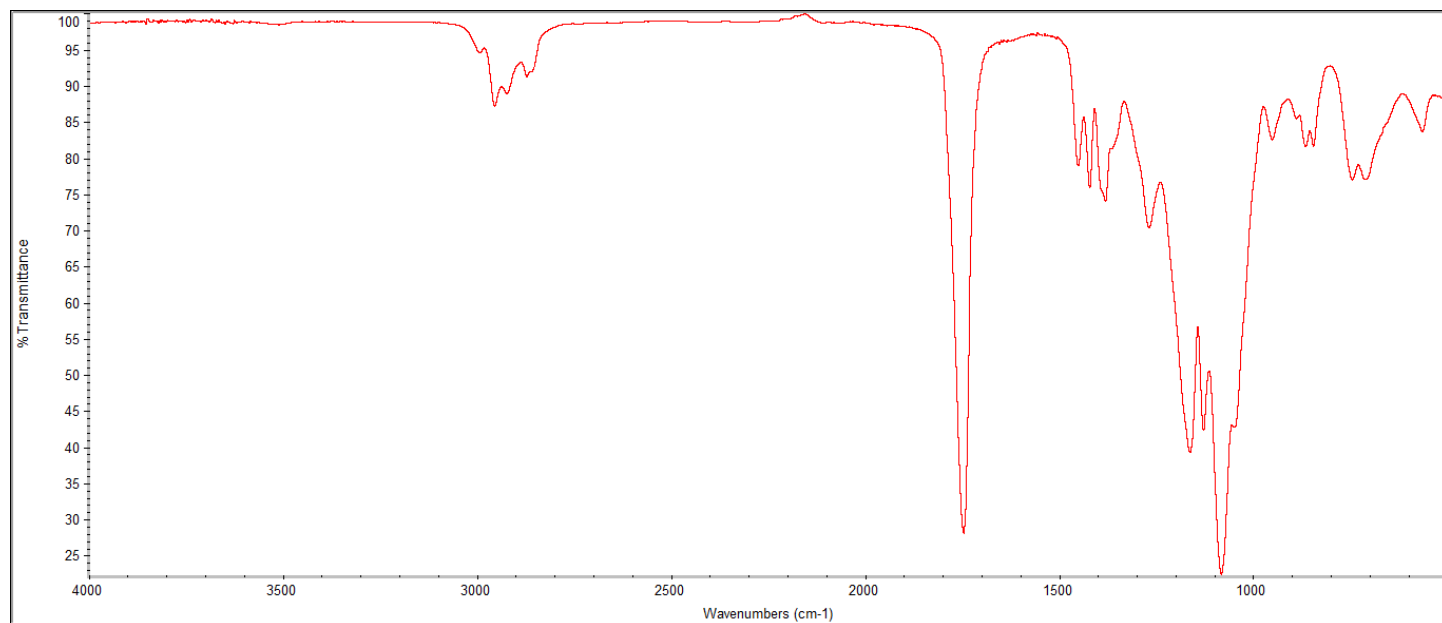
Product Name: Methoxy Poly(ethylene glycol)-b-Poly(lactide-co-glycolide)
(5,000:45,000 Da, 50:50 LA:GA) (Lot#: 250612DJR-A)

H-NMR



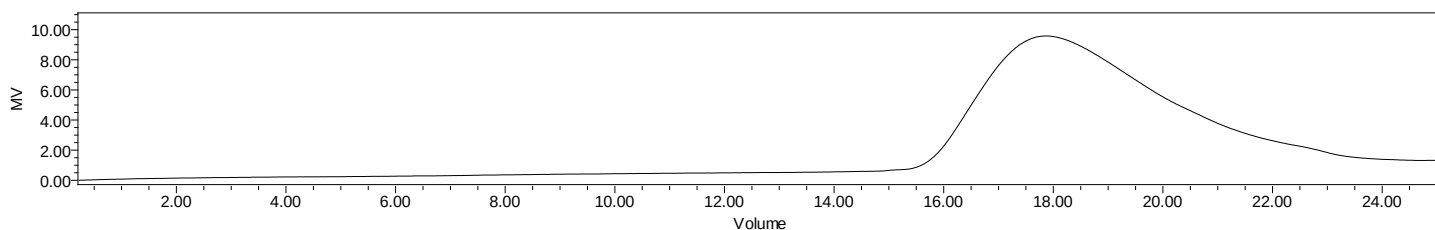
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of mPEG-PLGA copolymer: EG/LA-GA =117*/325-313 (Mn EG/LA:GA 5154*/23393:18142 Da) LA:GA 56%:44%

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	40,598	55,821	1.37
mPEG-Precursor*	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

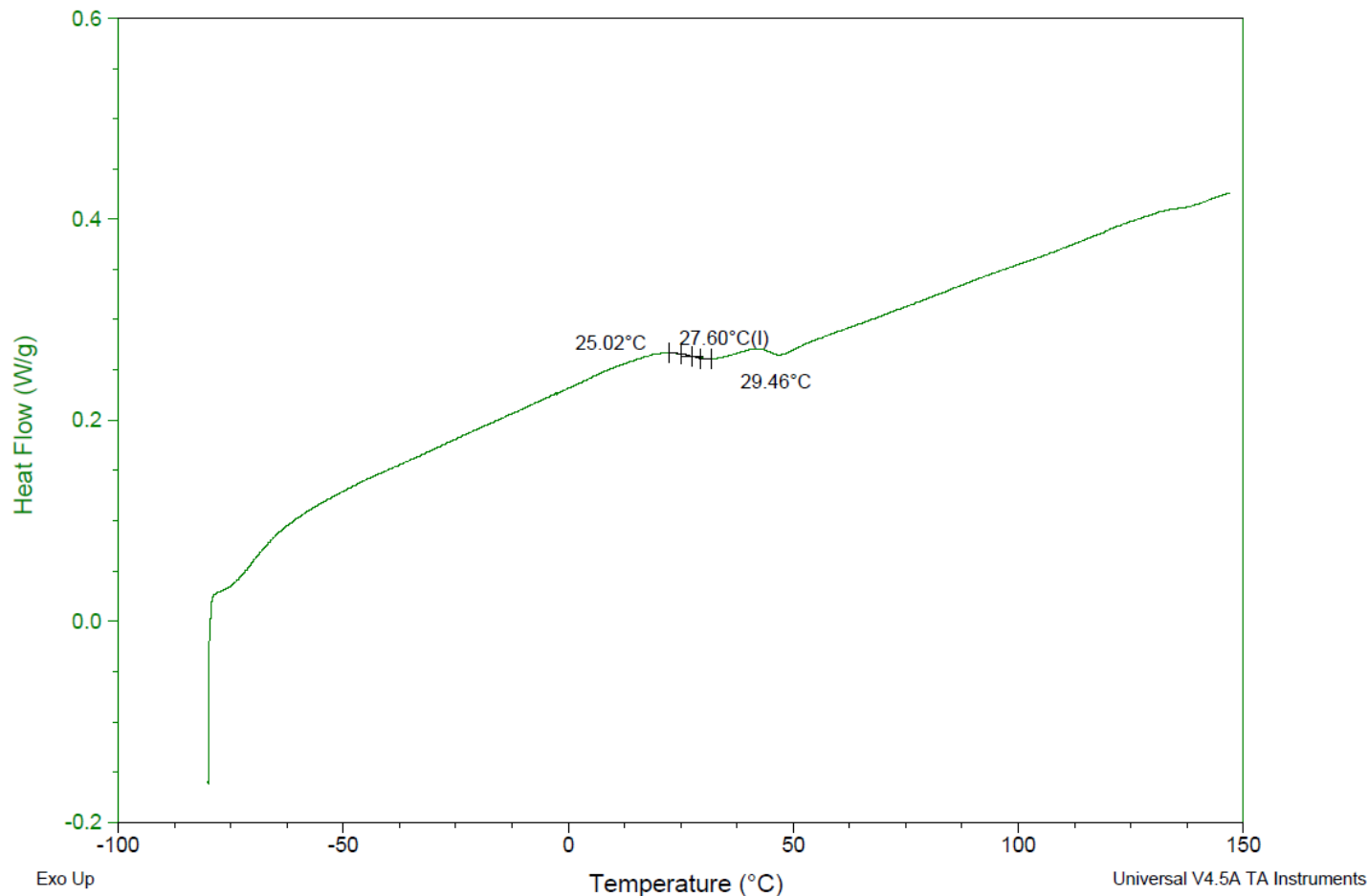
DSC

Sample: AK106 250612DJR-A
Size: 5.3000 mg
Method: Ramp

DSC

File: C:\...\COA\AK106 250612DJR-A DSC.001

Run Date: 18-Jun-2025 10:46
Instrument: DSC Q2000 V24.11 Build 124

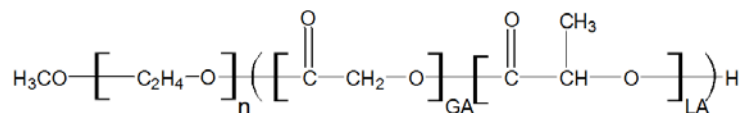


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 27.60 °C

IV

Inherent Viscosity: 0.265 ± 0.009 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