

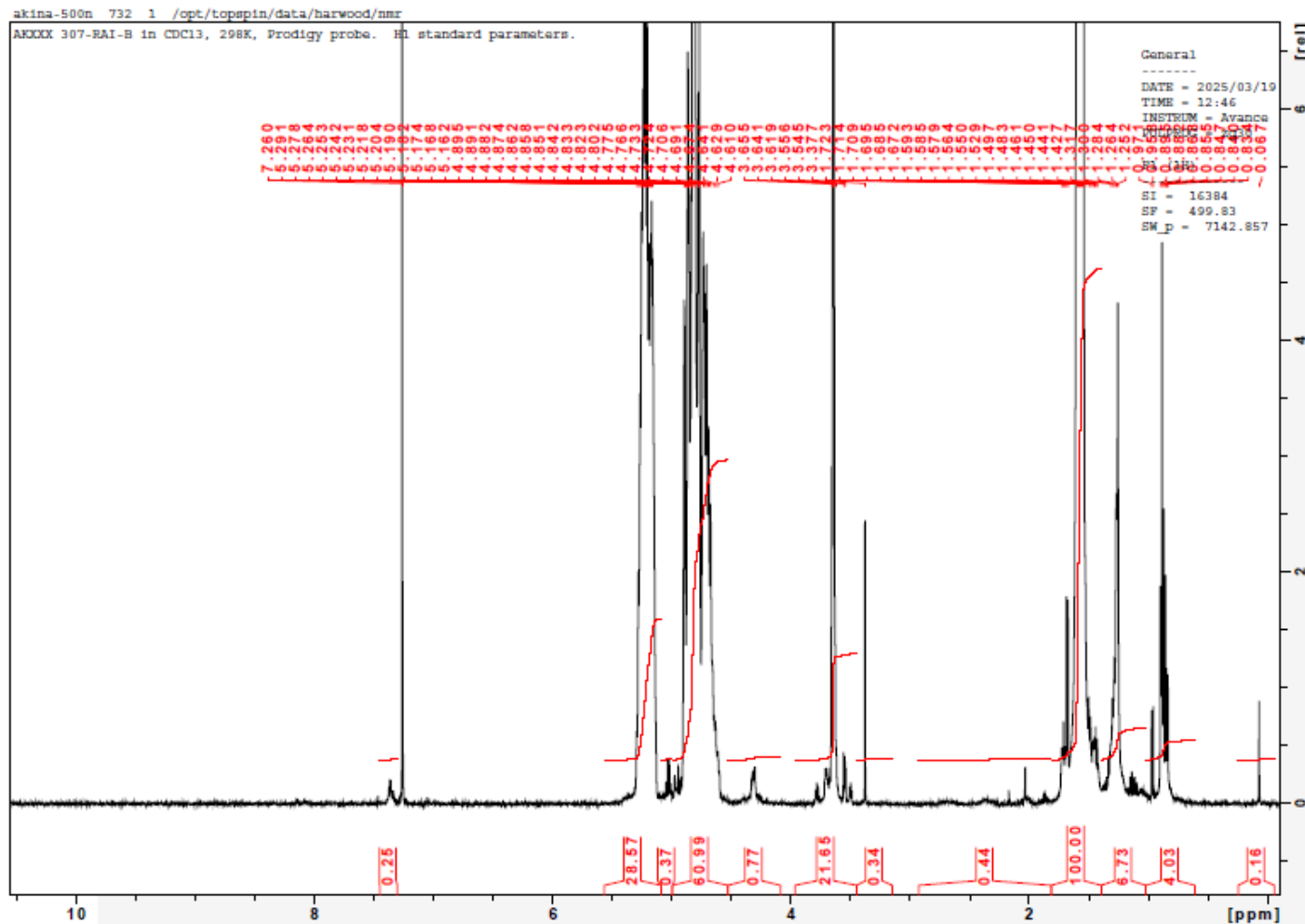
No. AK190

Certificate of Analysis



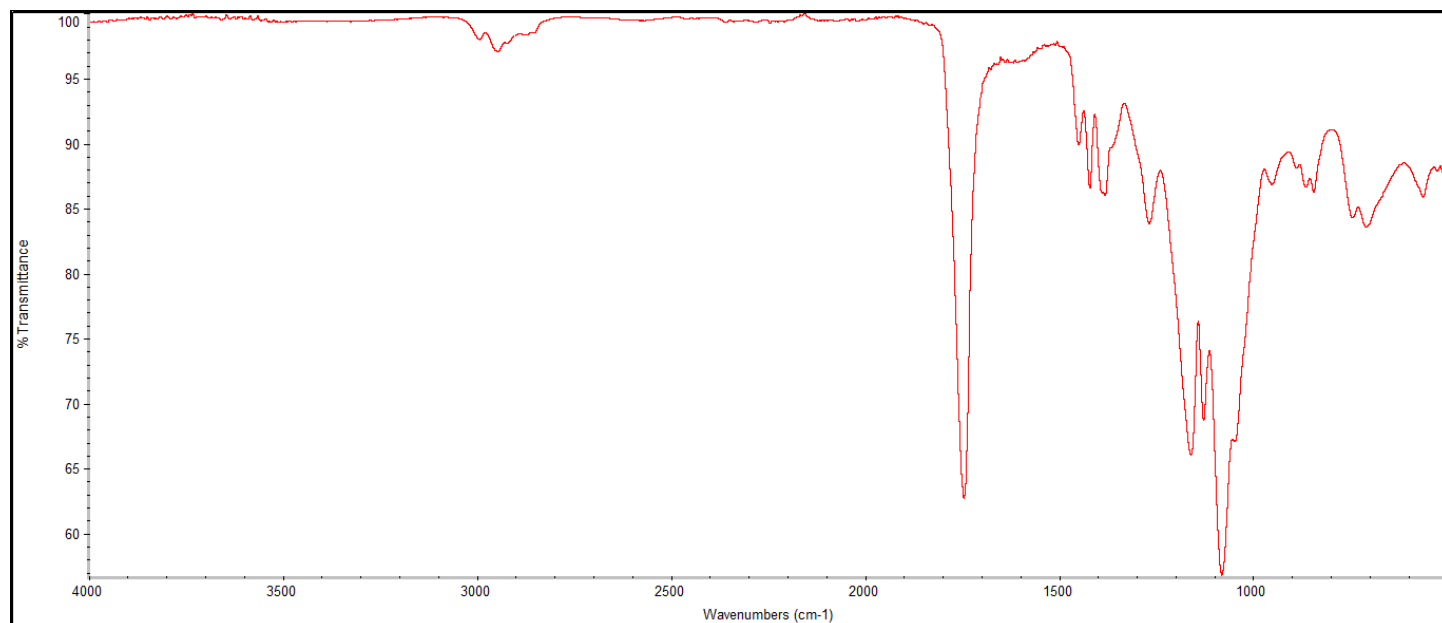
Product Name: Methoxy Poly(ethylene glycol)-b-Poly(lactide-co-glycolide)
(Mw ~2,000:30,000 Da, 50:50 LA:GA) (Lot#: 250307RAI-B)

H-NMR



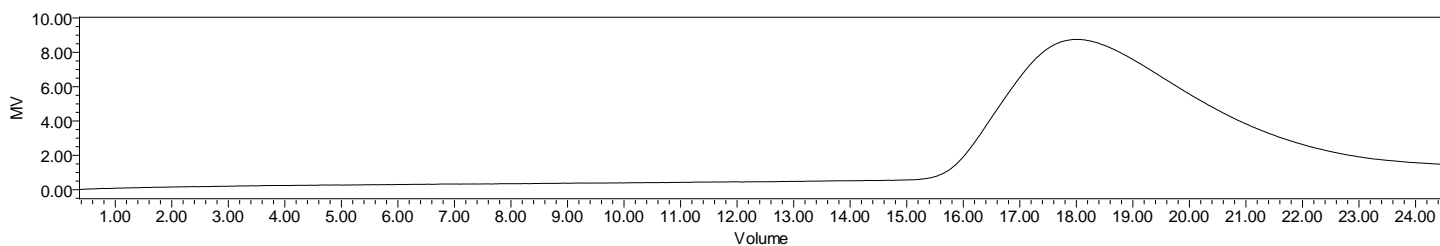
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG*/LA-GA =45*/238-254 (Mn EG*/LA:GA 1982*/17102-14715 Da) (LA:GA 54%:46%)

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	38,125	52,289	1.37
PEG-Precursor*	2044*		

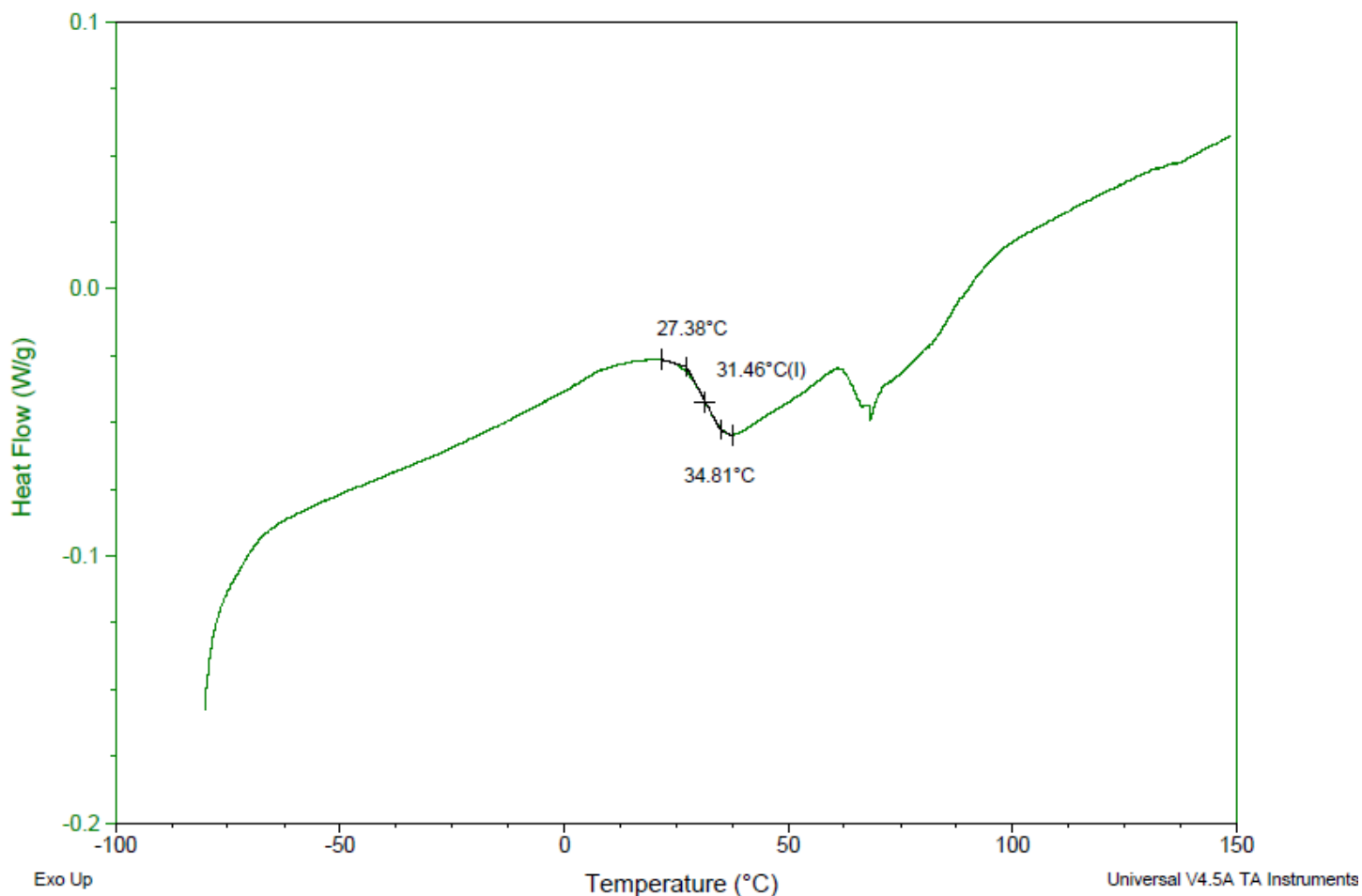
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards. *- from MFG data

DSC

Sample: AKXXX 250307RAI-B
Size: 4.1000 mg
Method: Modulate-no-eqb

DSC

File: C:\...COA\AKXXX 250307RAI-B DSC.002
Run Date: 13-Mar-2025 12:03
Instrument: DSC Q2000 V24.11 Build 124

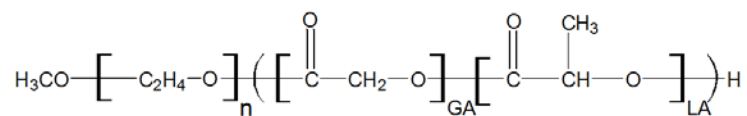


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 31.46 °C

IV

Inherent Viscosity: 0.284 ± 0.007 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