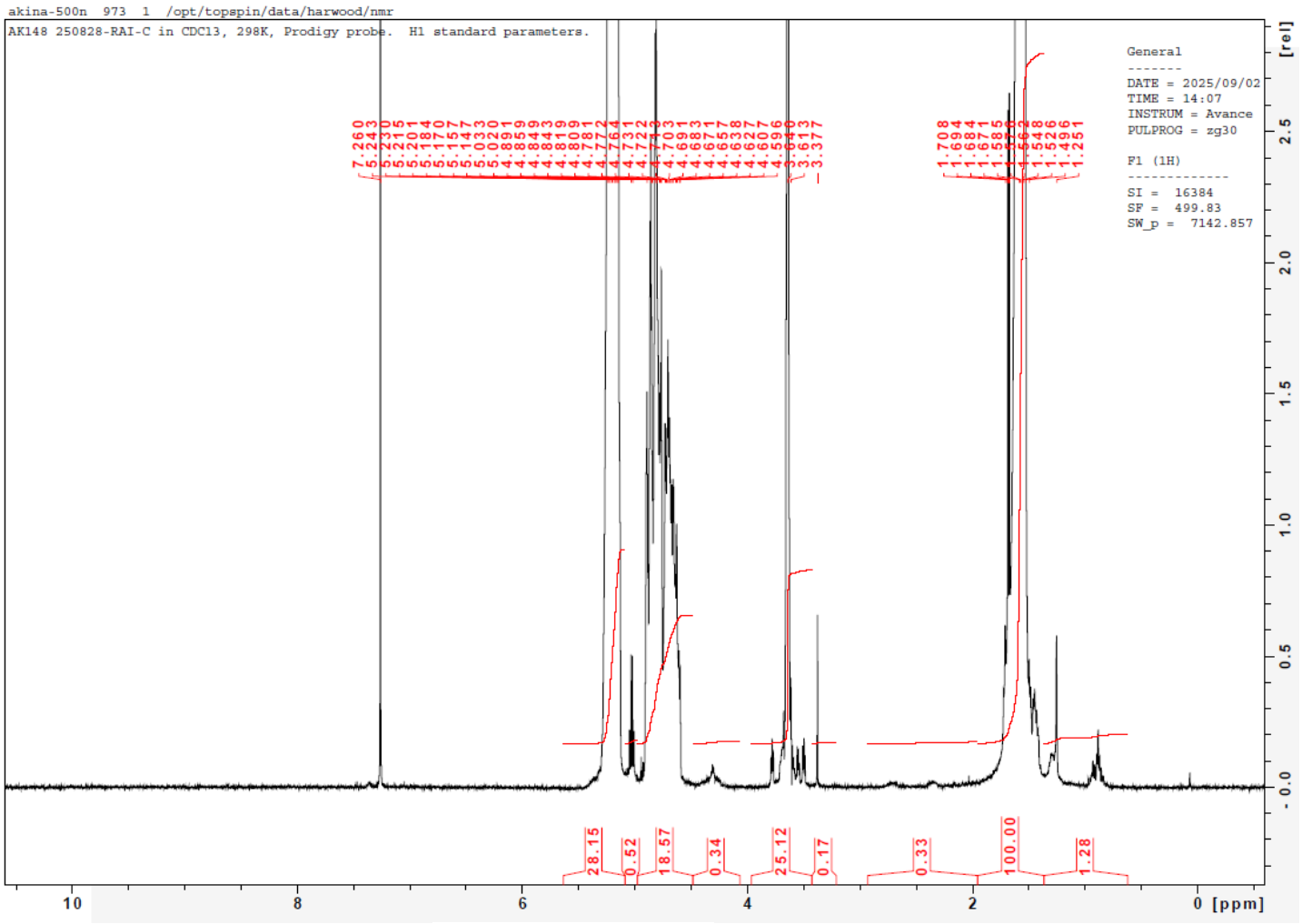
No. AK148 Certificate of Analysis

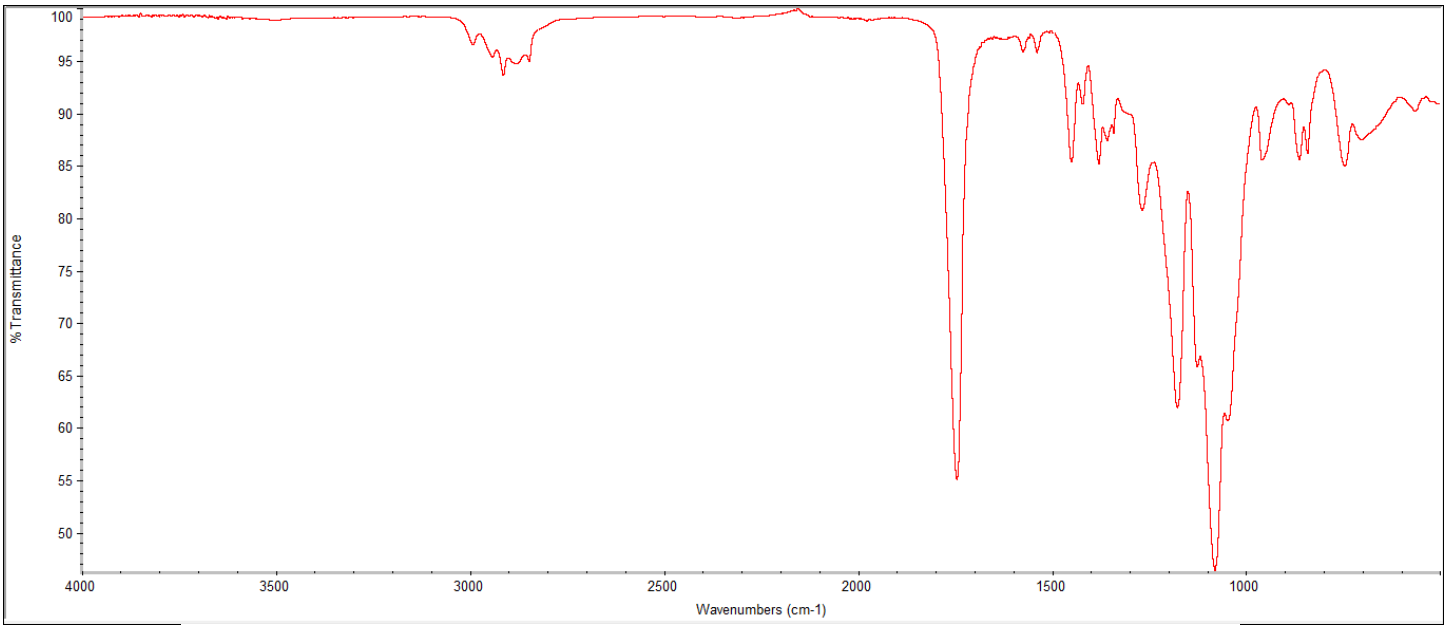
Product Name: Methoxy Poly(ethylene glycol)-Poly(lactide-co-glycolide) (5,000-50,000 Da, 75:25 LA:GA) (Lot#: 250828RAI-C)

H-NMR



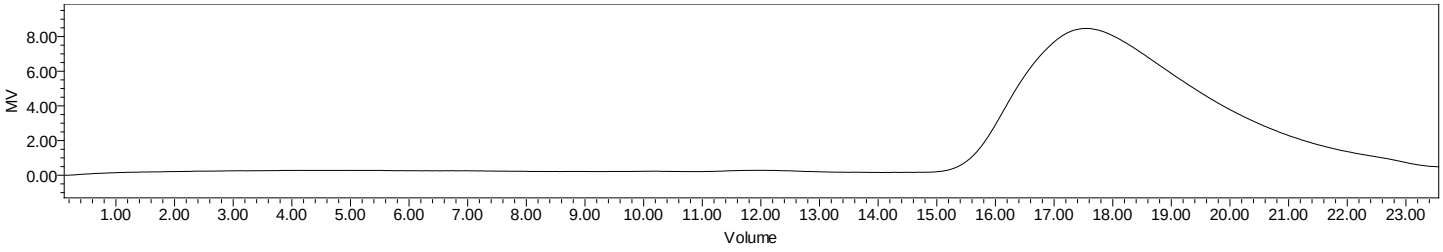
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG/LA-GA =117*/524-173 (Mn EG/LA:GA 5154*/37760-10040 Da) LA:GA 79%:21% *- from MFG data

FTIR



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode**.**

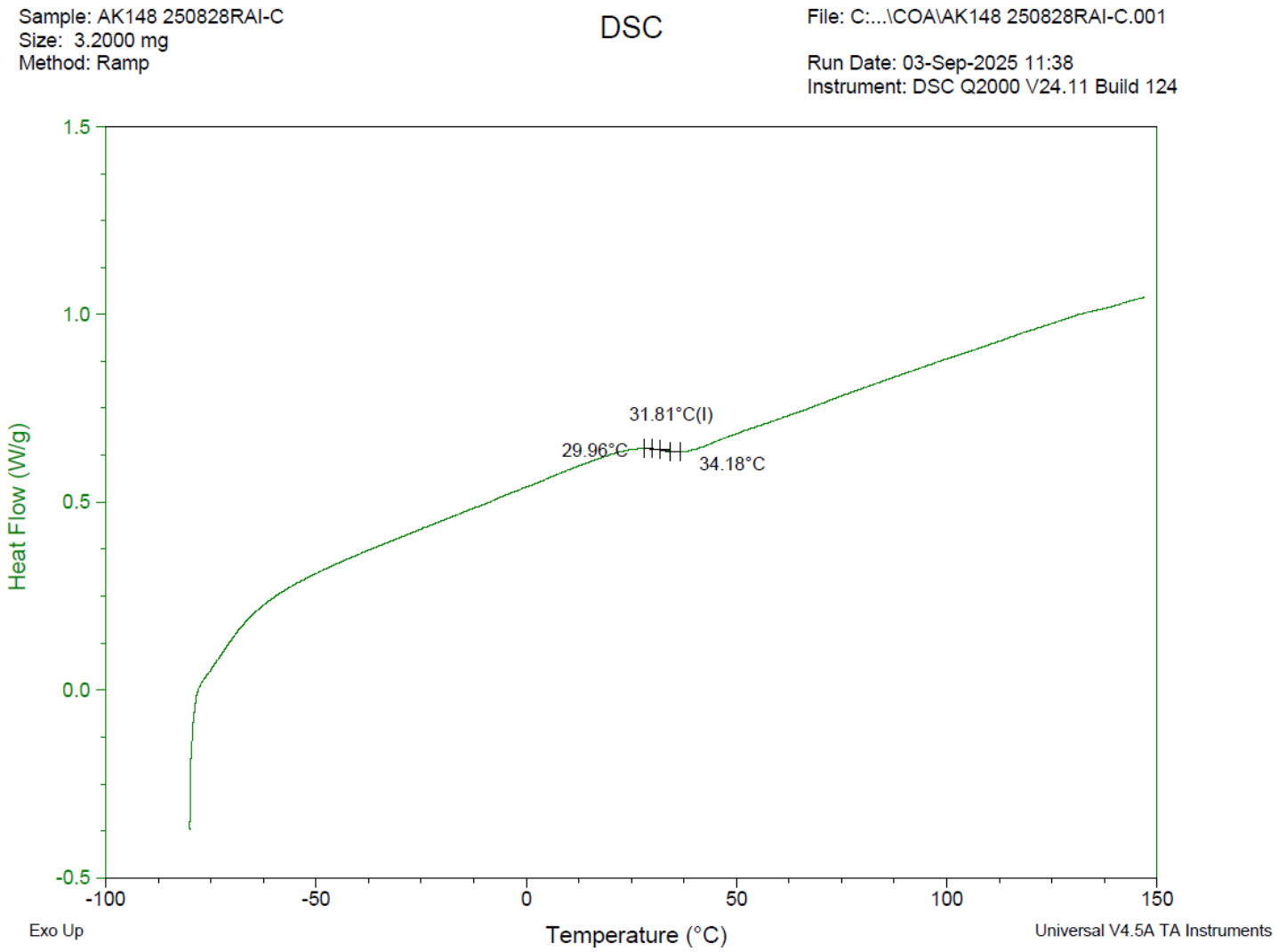
GPC-ES



Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG	45,822	63,553	1.39
PEG-Precursor*	Mn 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

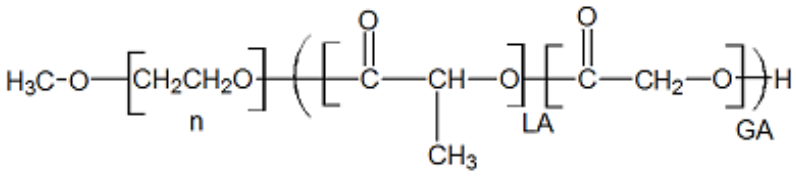


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 31.81 °C

IV

Inherent Viscosity: 0.341 ± 0.017 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25ºC.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager