

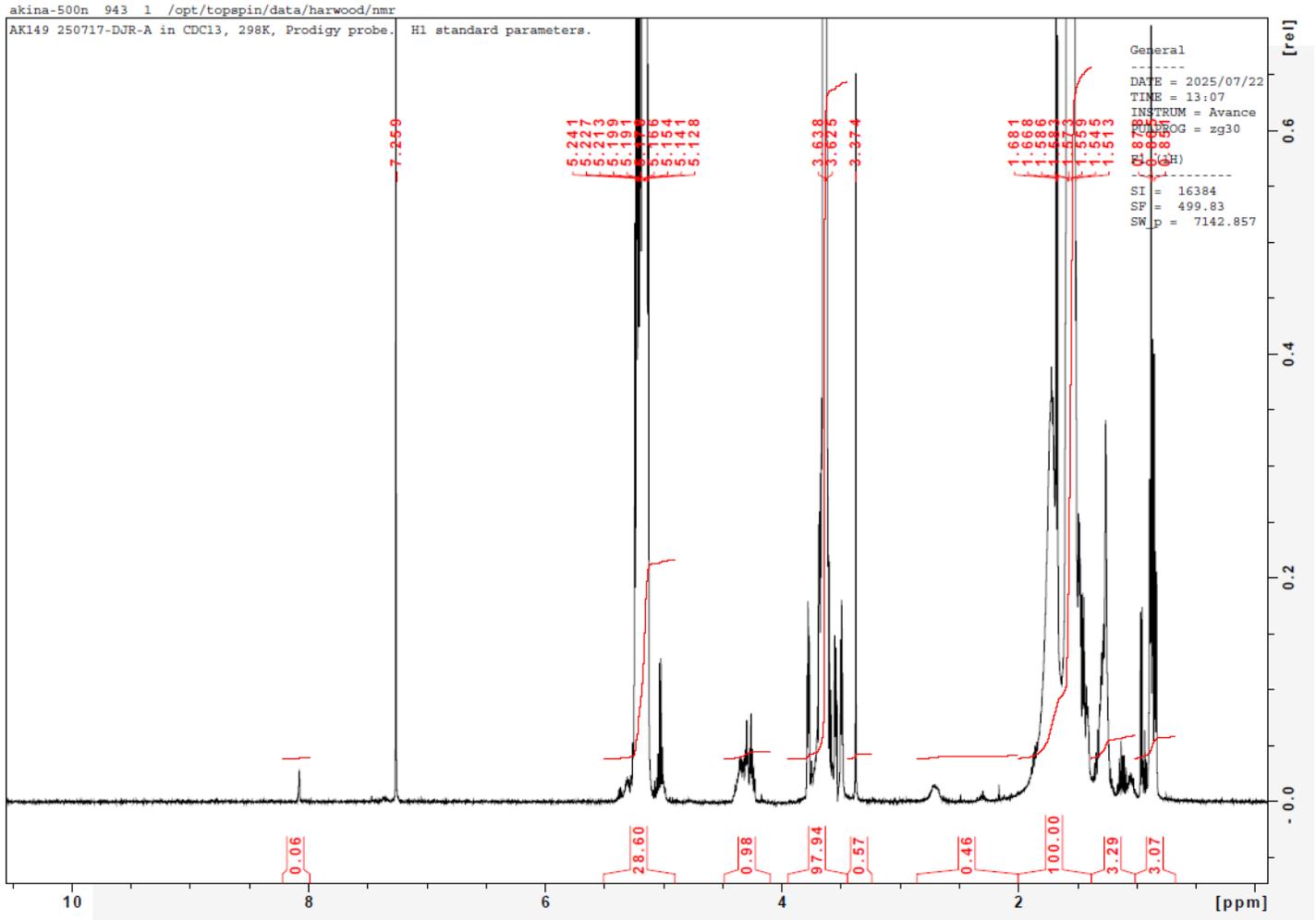
No. AK149

Certificate of Analysis



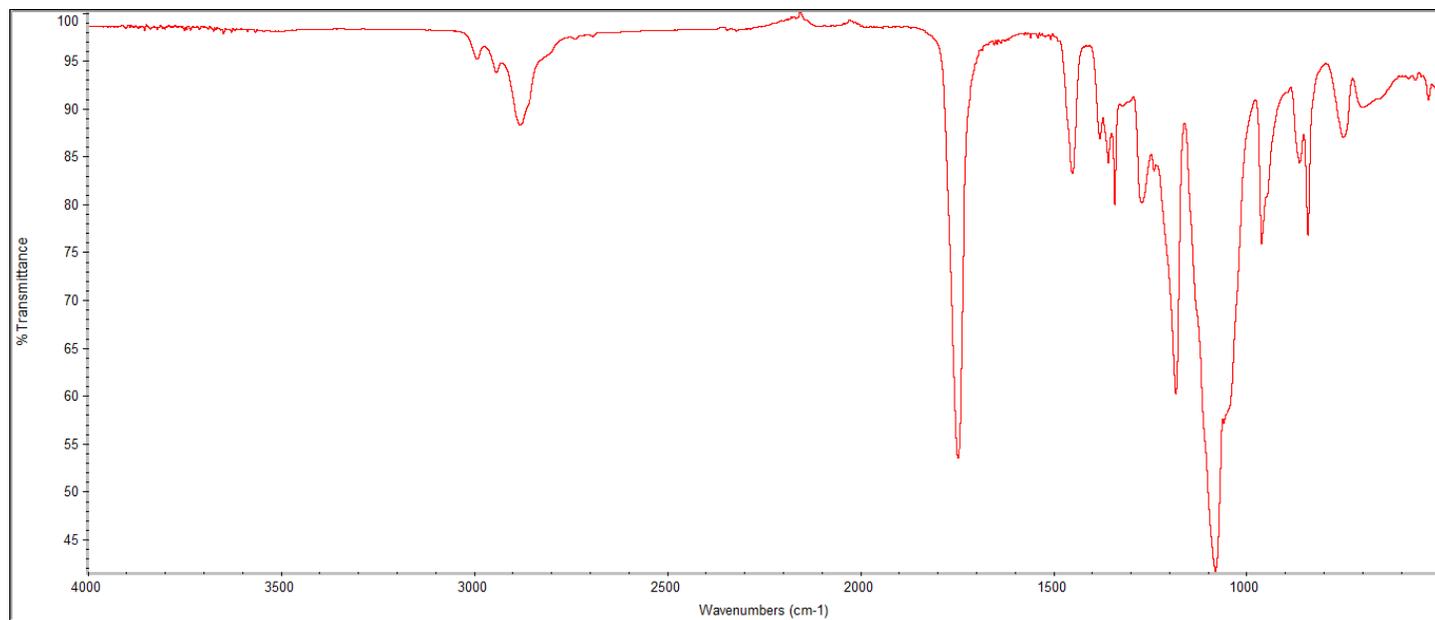
Product Name: : Methoxy Poly(ethylene glycol)-b-Poly((D,L) lactic acid) copolymers
(5000:10,000 Da) (Lot#: 250717DJR-A)

H-NMR



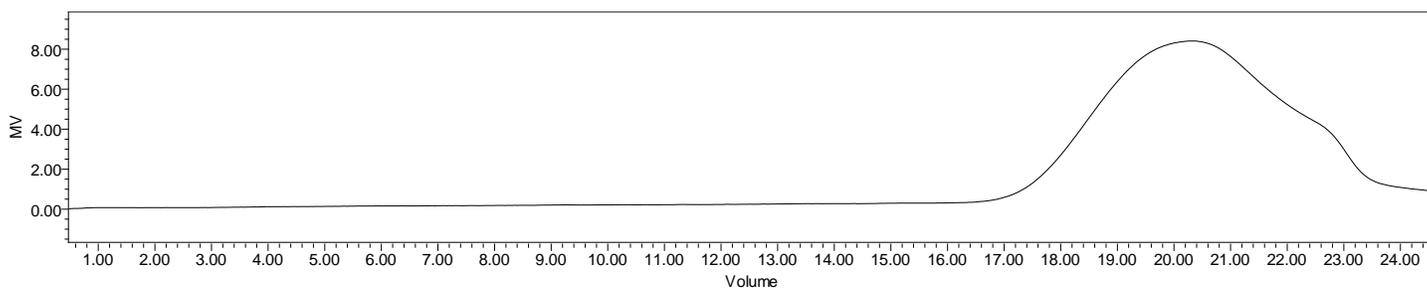
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of mPEG-P(DL)LA copolymer: EG*/LA =117*/137 (Mn EG*/LA 5154*/9840 Da) *- from MFG data

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
mPEG-P(DL)LA	17,843	23,332	1.31
PEG-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

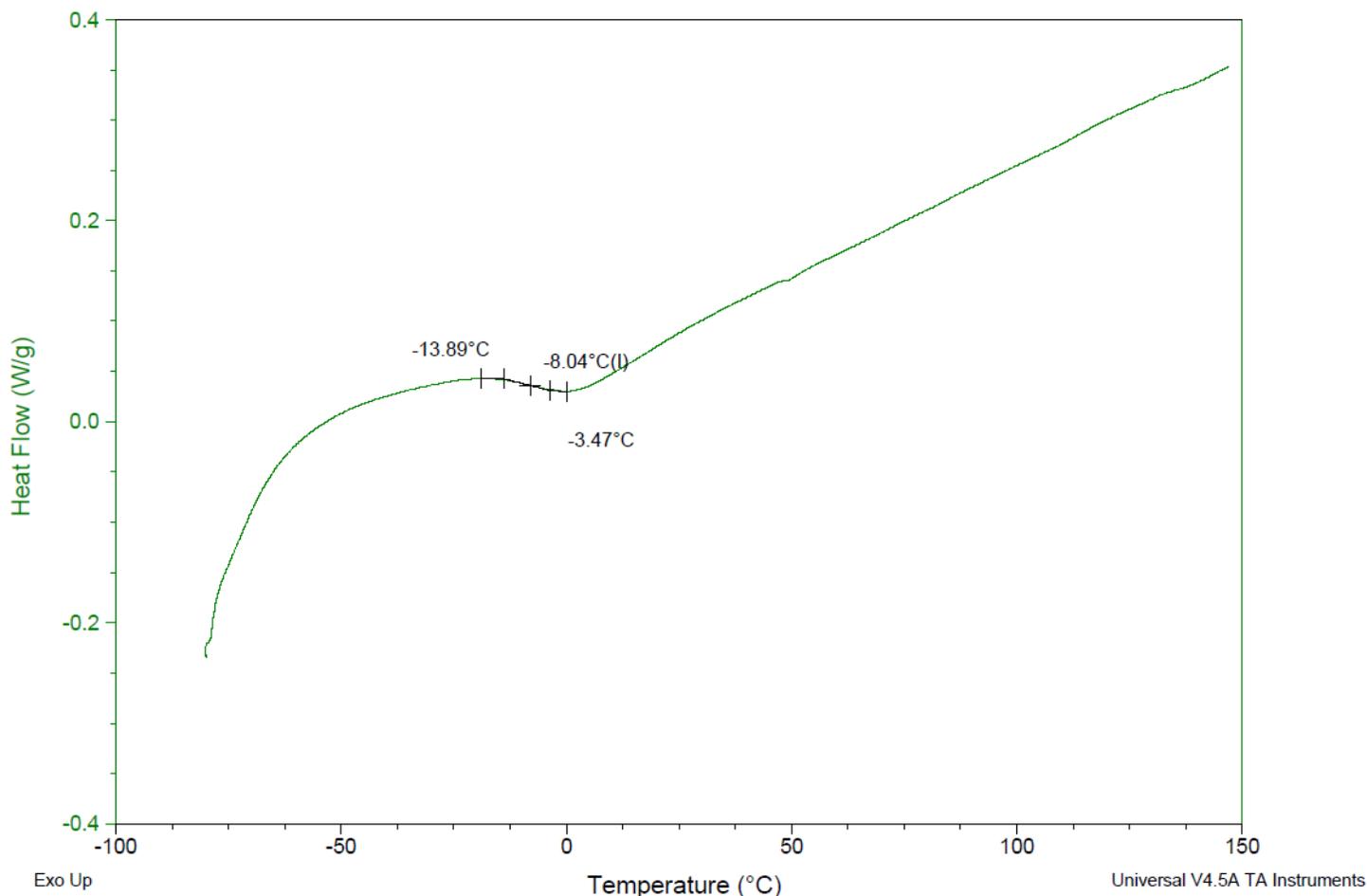
DSC

Sample: AK149 250717DJR-A
Size: 5.4000 mg
Method: Ramp

DSC

File: C:\...\COA\AK149 250717DJR-A DSC.001

Run Date: 24-Jul-2025 14:01
Instrument: DSC Q2000 V24.11 Build 124

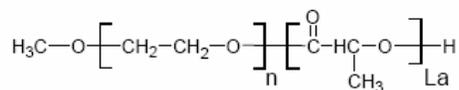


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -8.04 °C

IV

Inherent Viscosity: 0.184 ± 0.006 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