

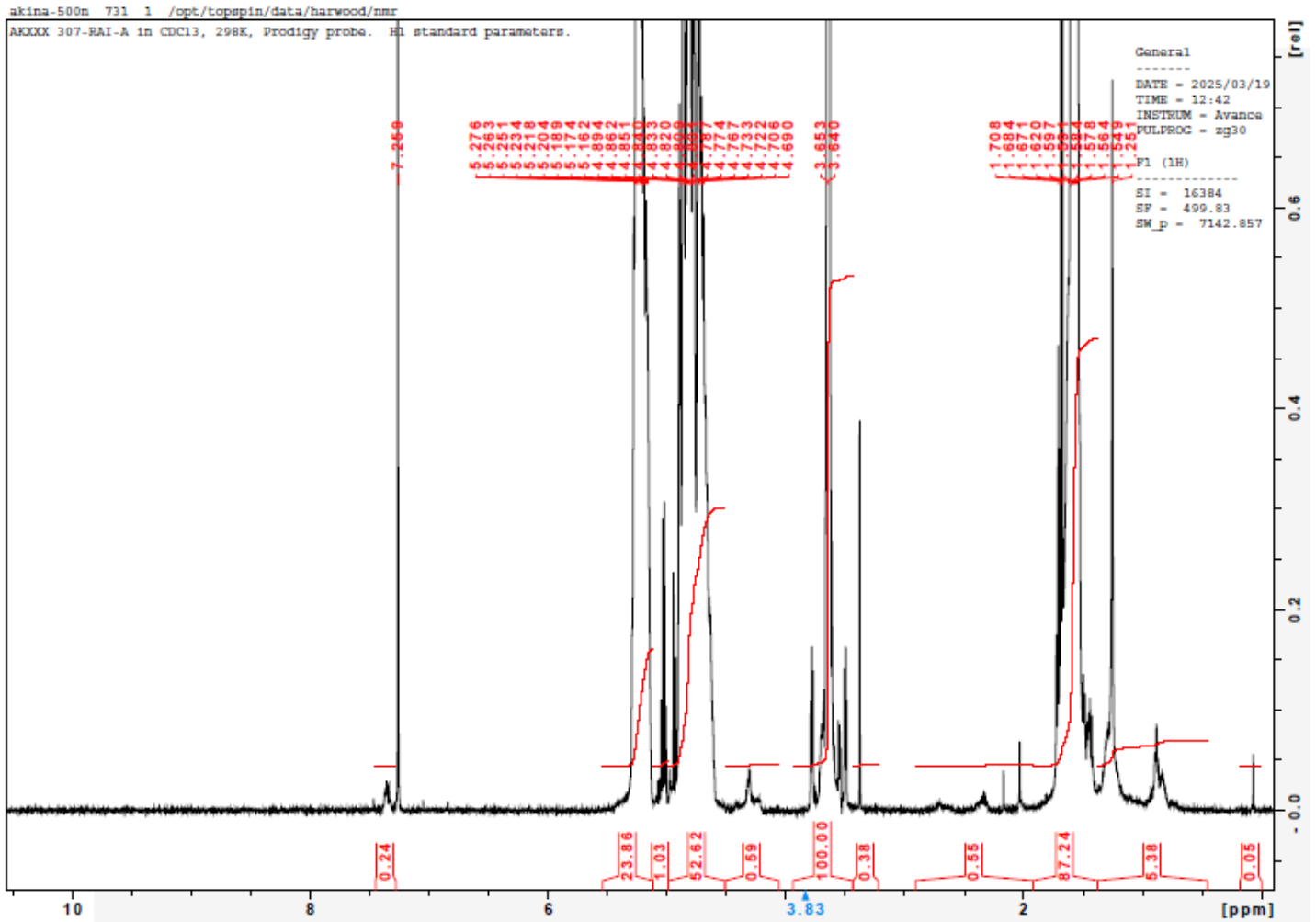
No. AK191

Certificate of Analysis



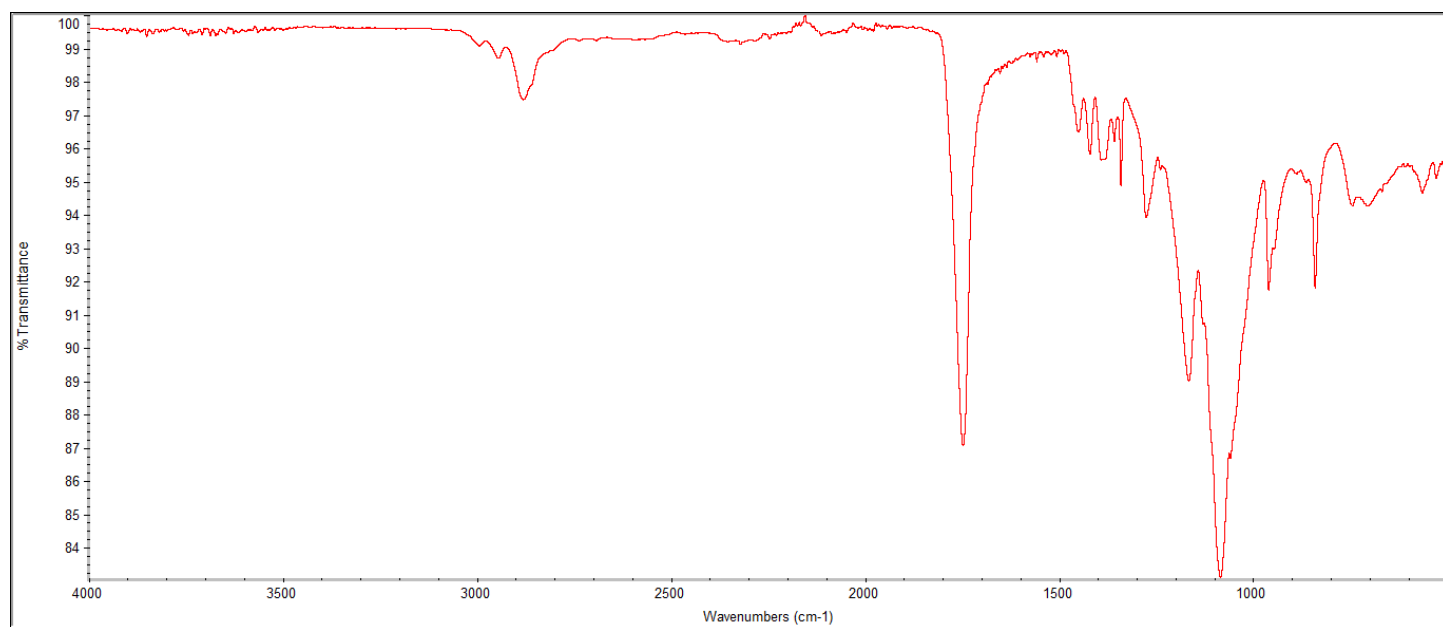
Product Name: Methoxy Poly(ethylene glycol)-b-Poly(lactide-co-glycolide)
(Mw ~10,000:30,000 Da, 50:50 LA:GA) (Lot#: 250307RAI-A)

H-NMR



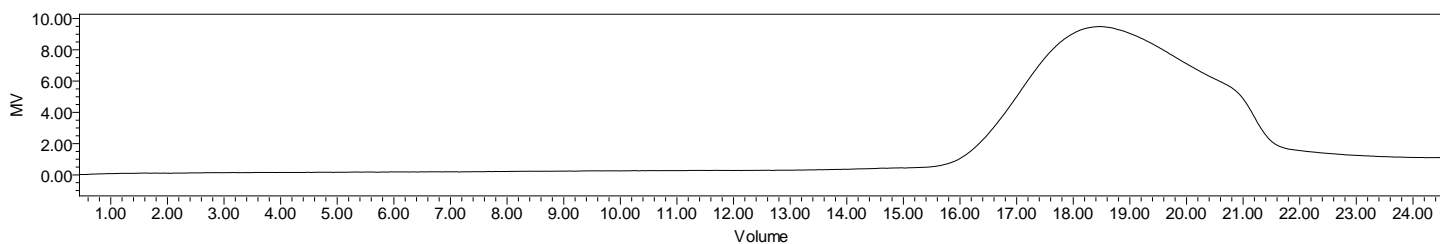
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG*/LA-GA =251*/240-264 (M_n EG*/LA:GA 11058*/17248-15331 Da) (LA:GA 53%:47%)

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 | 33,279 | 43,741 | 1.31 |
| PEG-Precursor* | 11,061* | | |

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

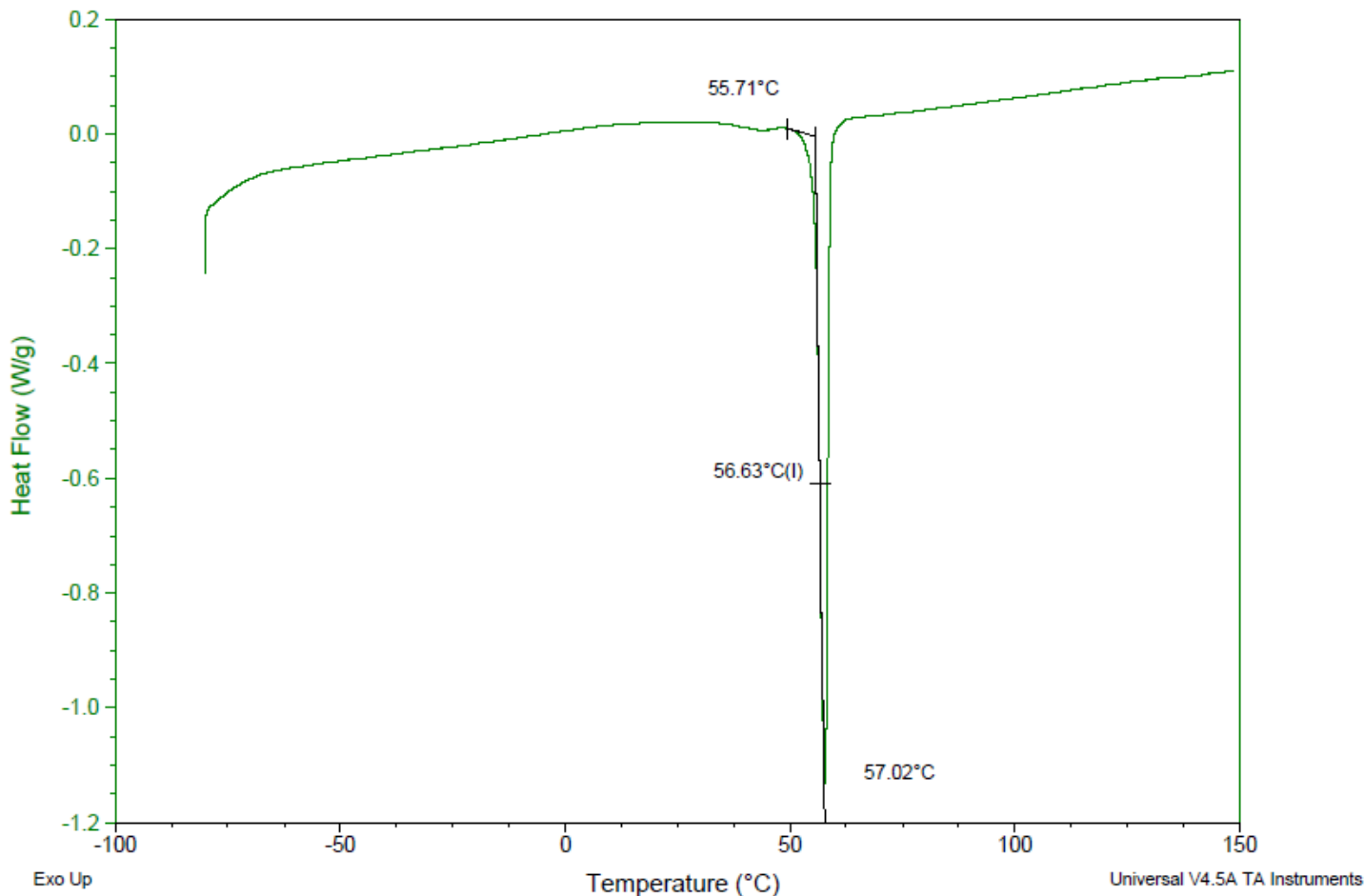
DSC

Sample: AK191 250307RAI-A
Size: 3.0000 mg
Method: Modulate-no-eqb

DSC

File: C:\...COA\AK191 250307RAI-A DSC.001

Run Date: 25-Mar-2025 11:47
Instrument: DSC Q2000 V24.11 Build 124

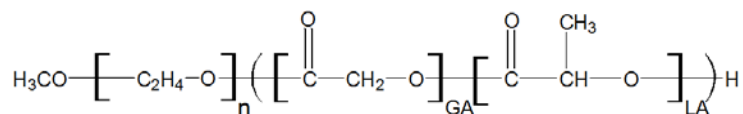


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 56.63 °C

IV

Inherent Viscosity: 0.137 ± 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