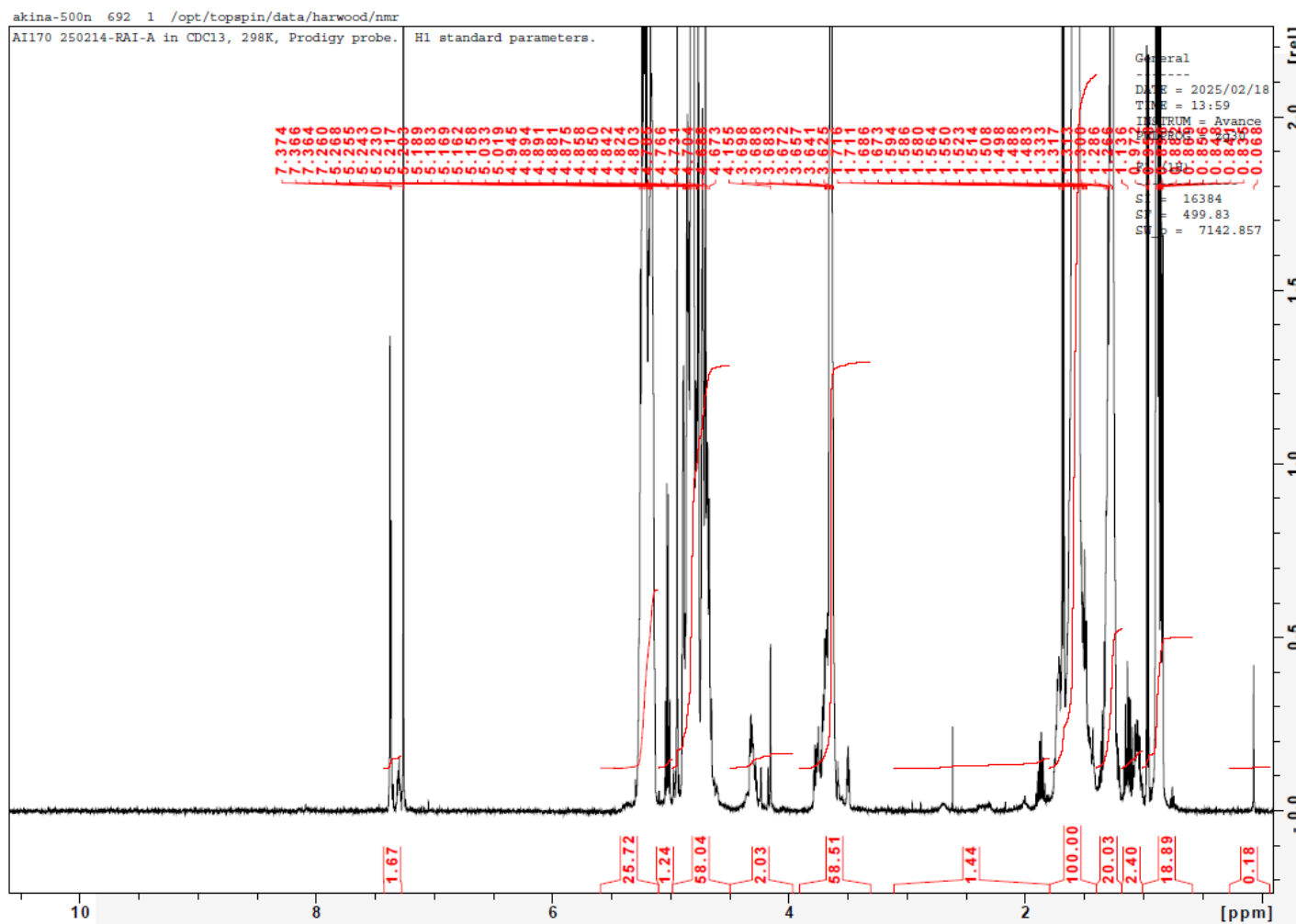


No. AI170 Certificate of Analysis

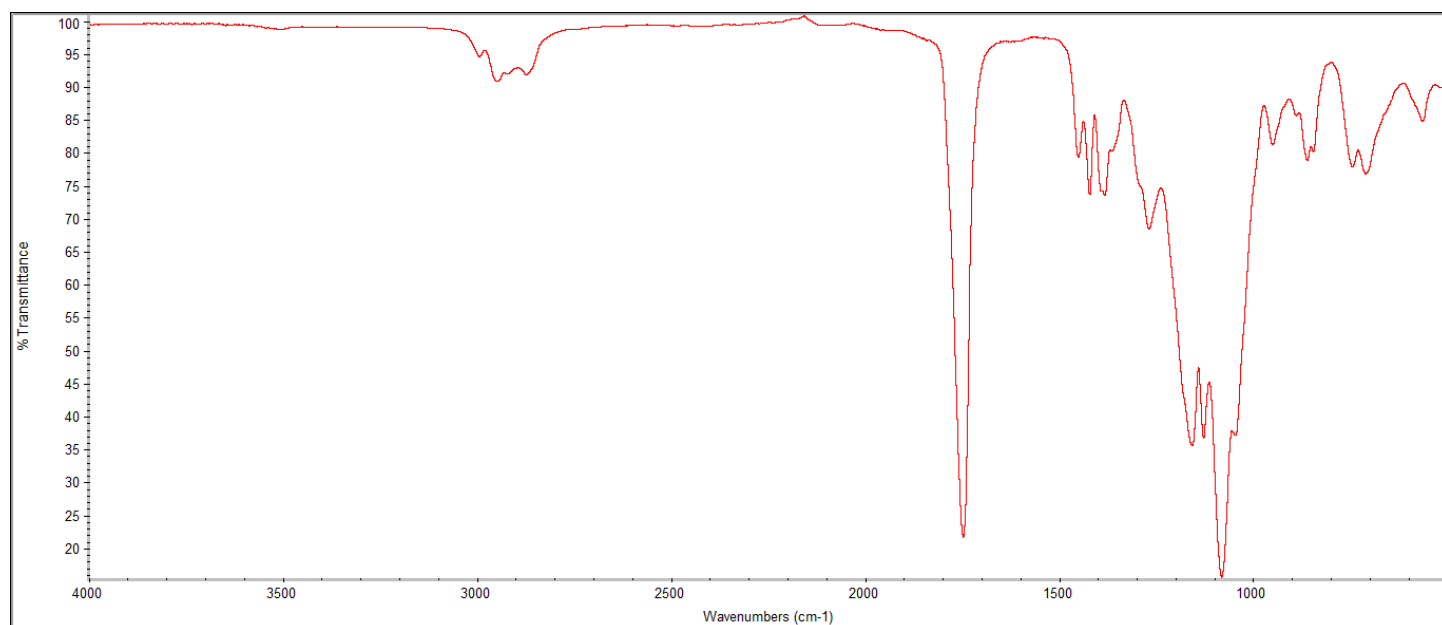
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-carboxylic acid endcap (Mw ~12,000 Da-2000 Da 50:50 La:Ga) (Lot#: 250214RAI-A)

H-NMR



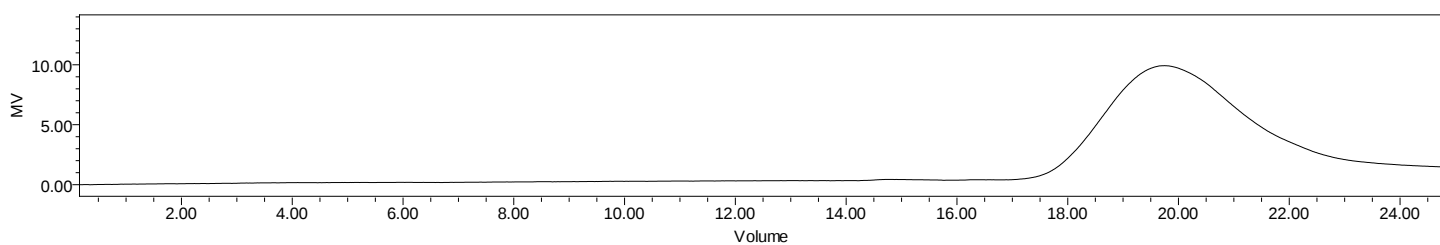
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: EG*/LA-GA =52*/91-103 (Mn EG*/LA:GA 2291*/6583-5988 Da)

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	18,619	32,485	1.74
PEG-precursor	2300*		

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.

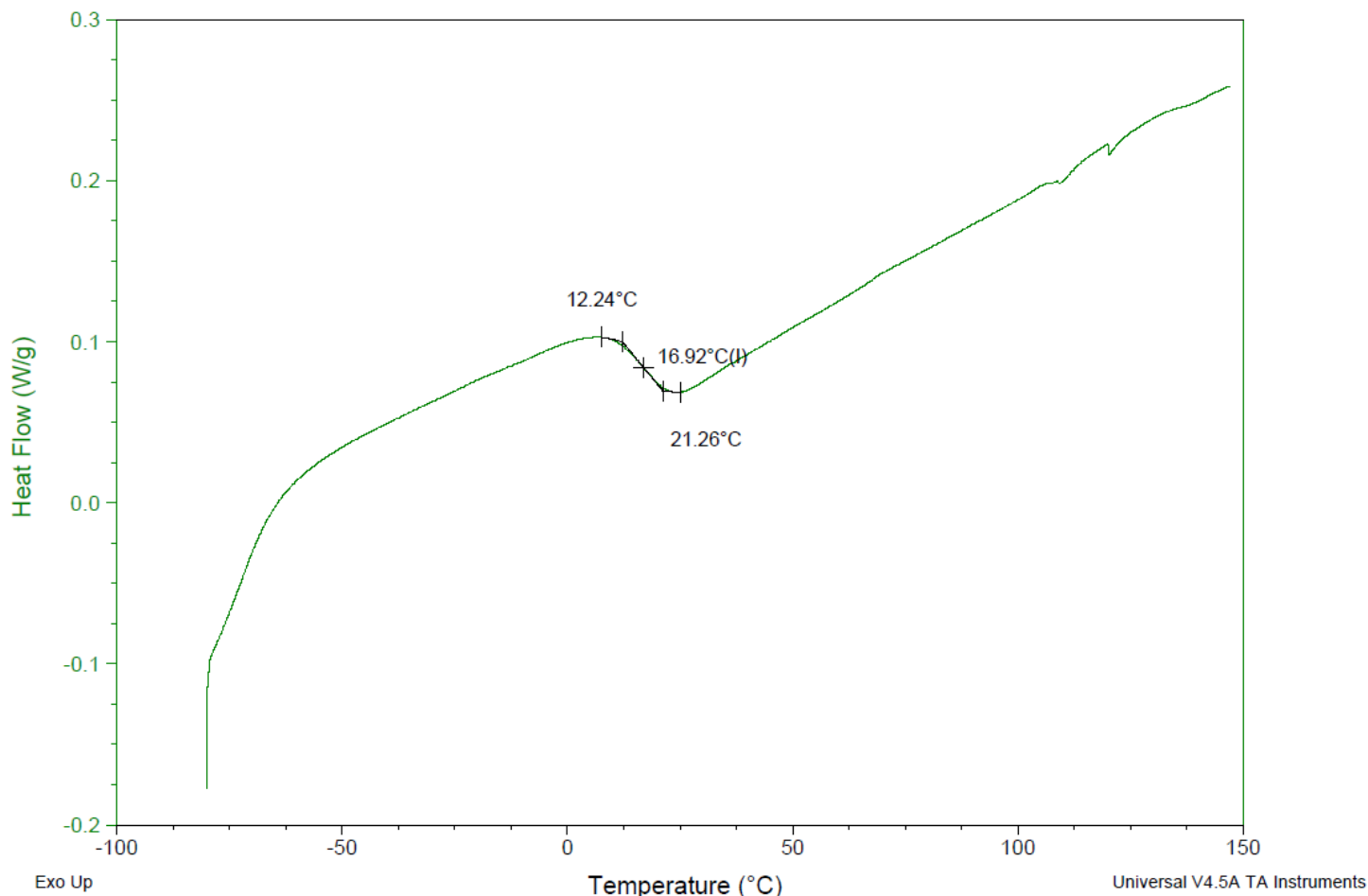
DSC

Sample: AI170 250214RAI-A DSC
Size: 5.3000 mg
Method: Ramp

DSC

File: \\...\\COA\\AI170 250214RAI-A DSC.003

Run Date: 24-Feb-2025 11:20
Instrument: DSC Q2000 V24.11 Build 124

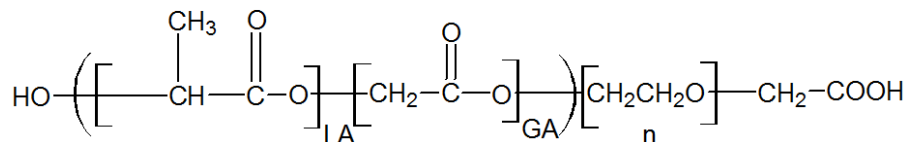


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 16.92 °C

IV

Inherent Viscosity: 0.137 ± 0.032 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