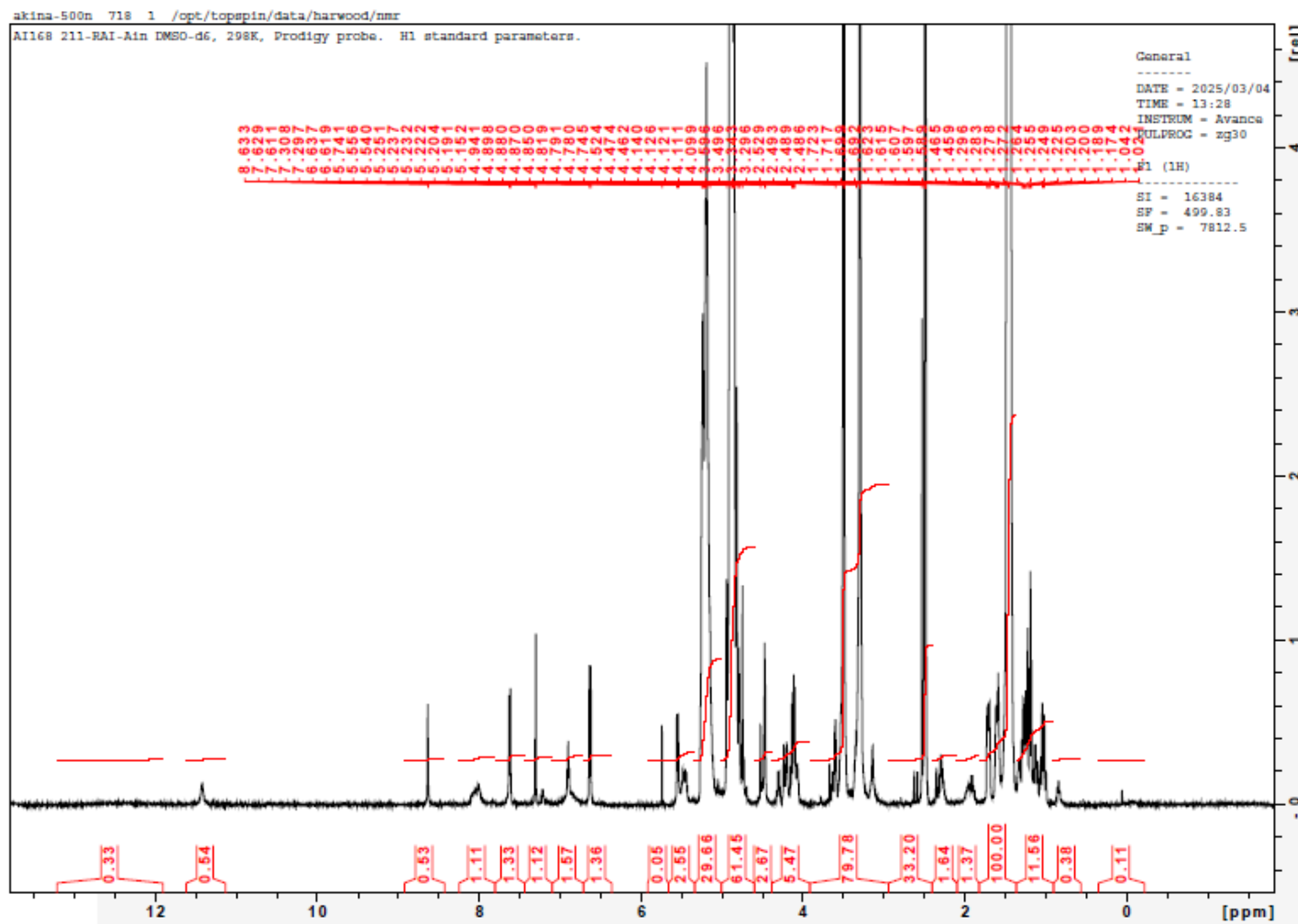


No. AI168 Certificate of Analysis

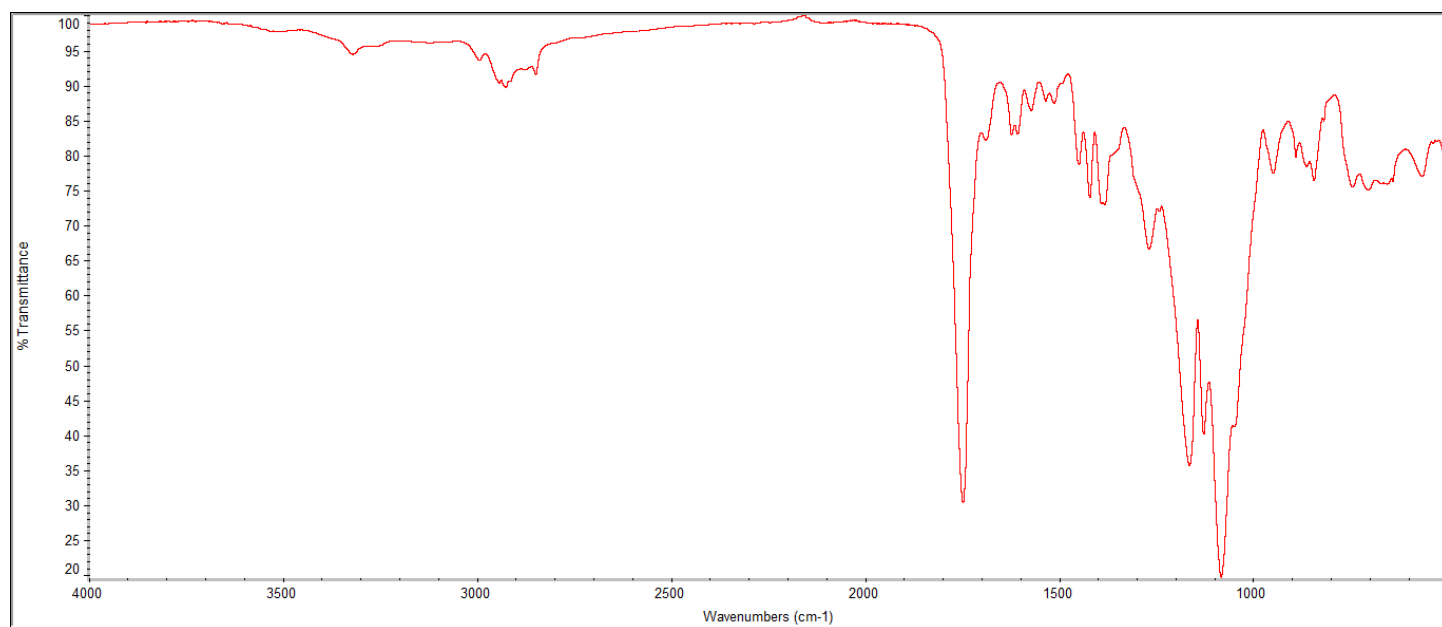
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-folate
(Mw 10,000-2,000Da) LA:GA 50:50 (Lot#: 250211RAI-A)

H-NMR



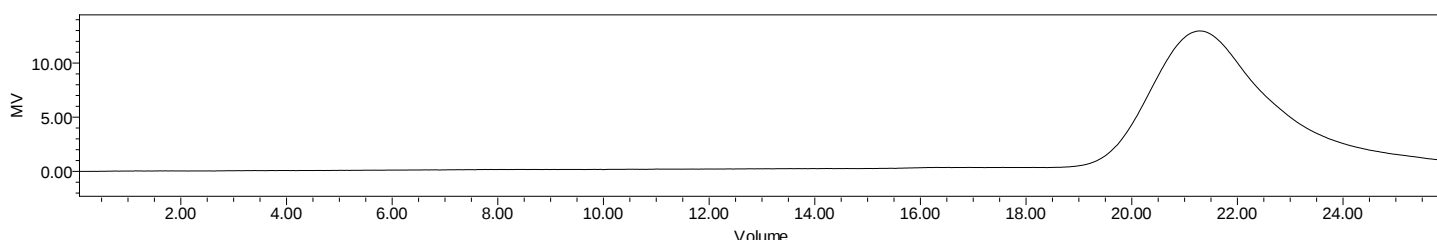
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: EG*/LA-GA = 54*/80-83
(Mn EG*/LA:GA 2379*/5782:4828 Da)

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-Folate	7654	10,914	1.43
PEG-Precursor*	2400*		

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

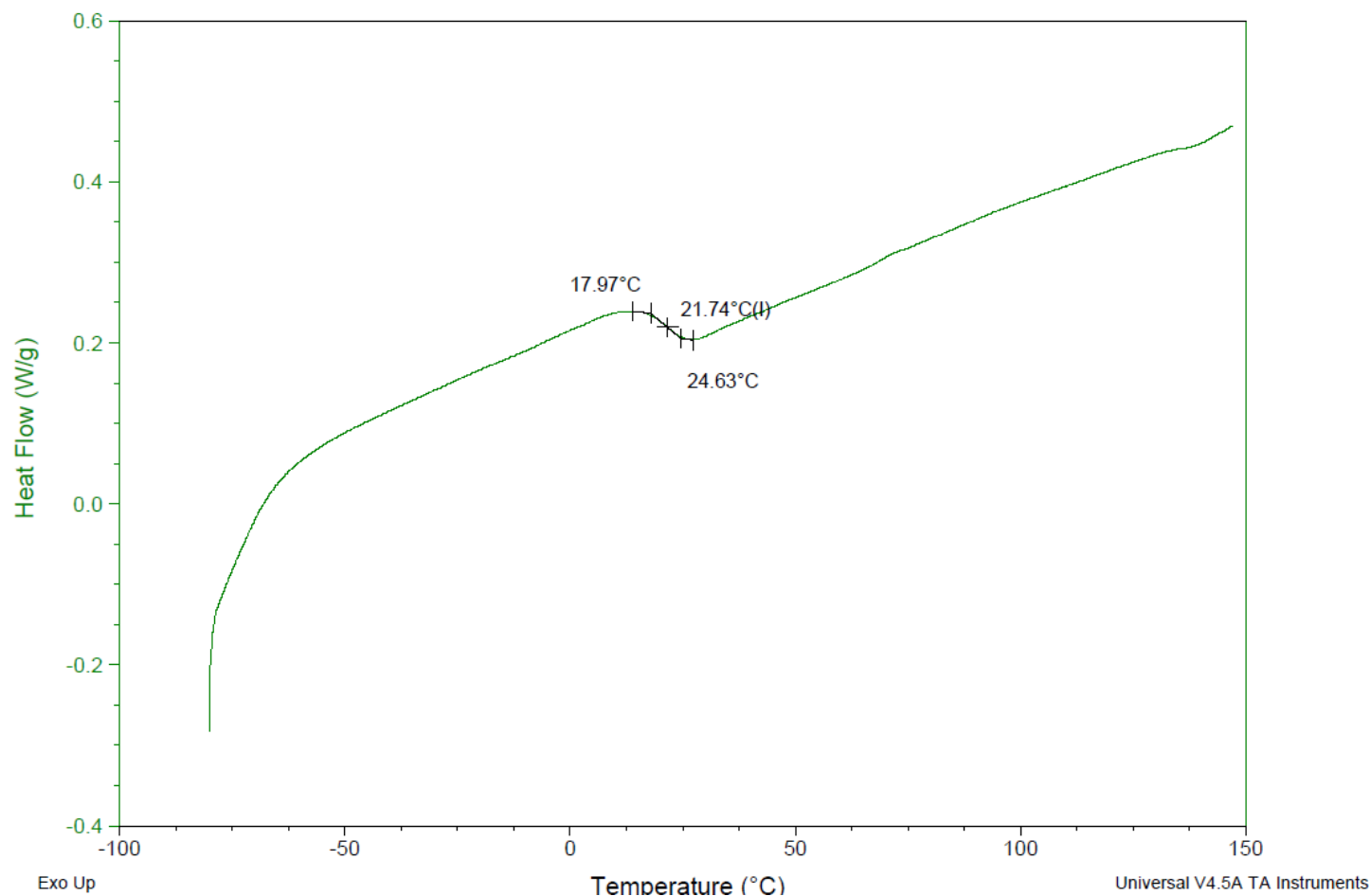
Sample: AI168 250211RAI-A DSC
Size: 3.0000 mg
Method: Ramp

DSC

File: \\...\\COA\\AI168 250211RAI-A DSC.003

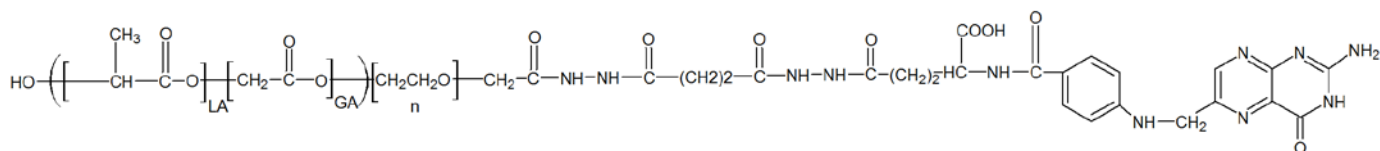
Run Date: 24-Feb-2025 12:07

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 = 21.74 °C

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager