

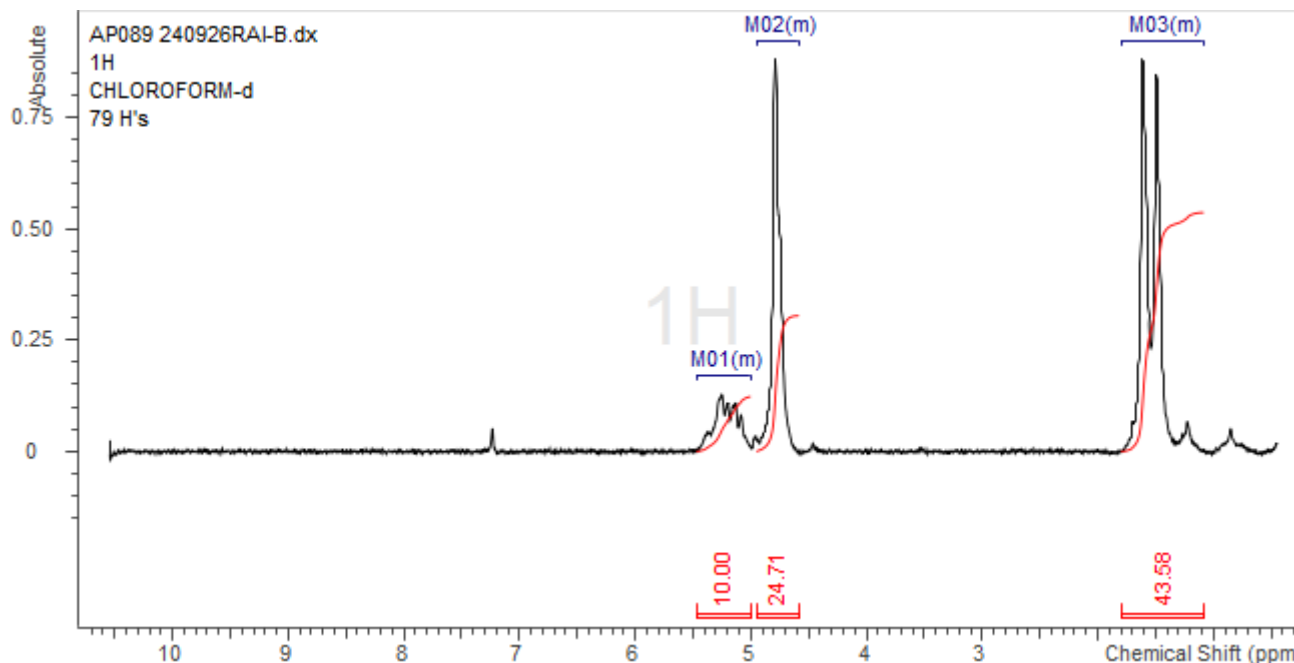
No. AP089

Certificate of Analysis



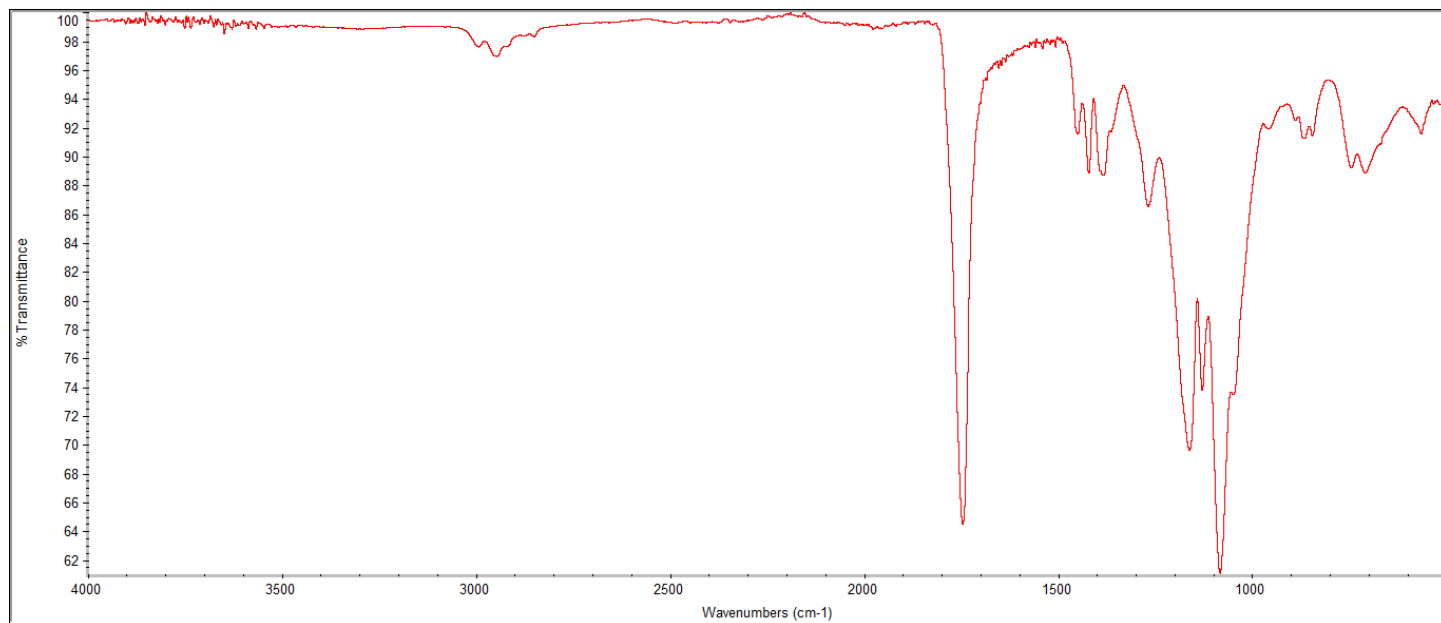
Product Name: Poly(lactic-co-glycolic acid) acid endcap (50:50 LA:GA,
 M_n : 75,000–85,000 Da) (Lot#: 240926RAI-B)

H-NMR



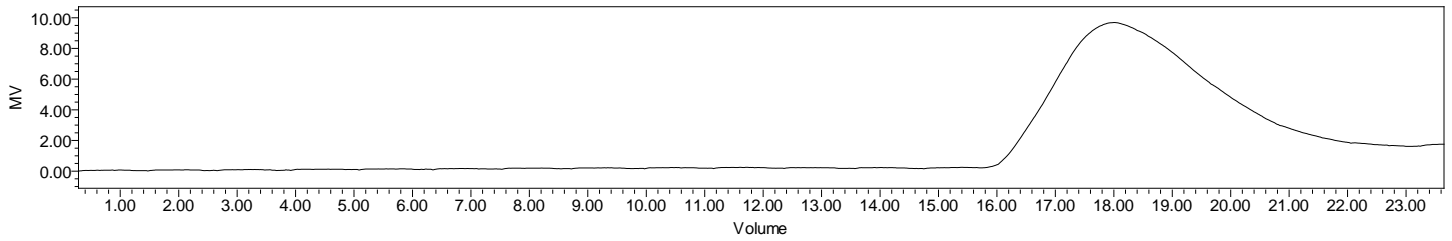
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥ 300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA = 45%-55% (LA:GA 50%:50% w:w)

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	75,413	107,182	1.42

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

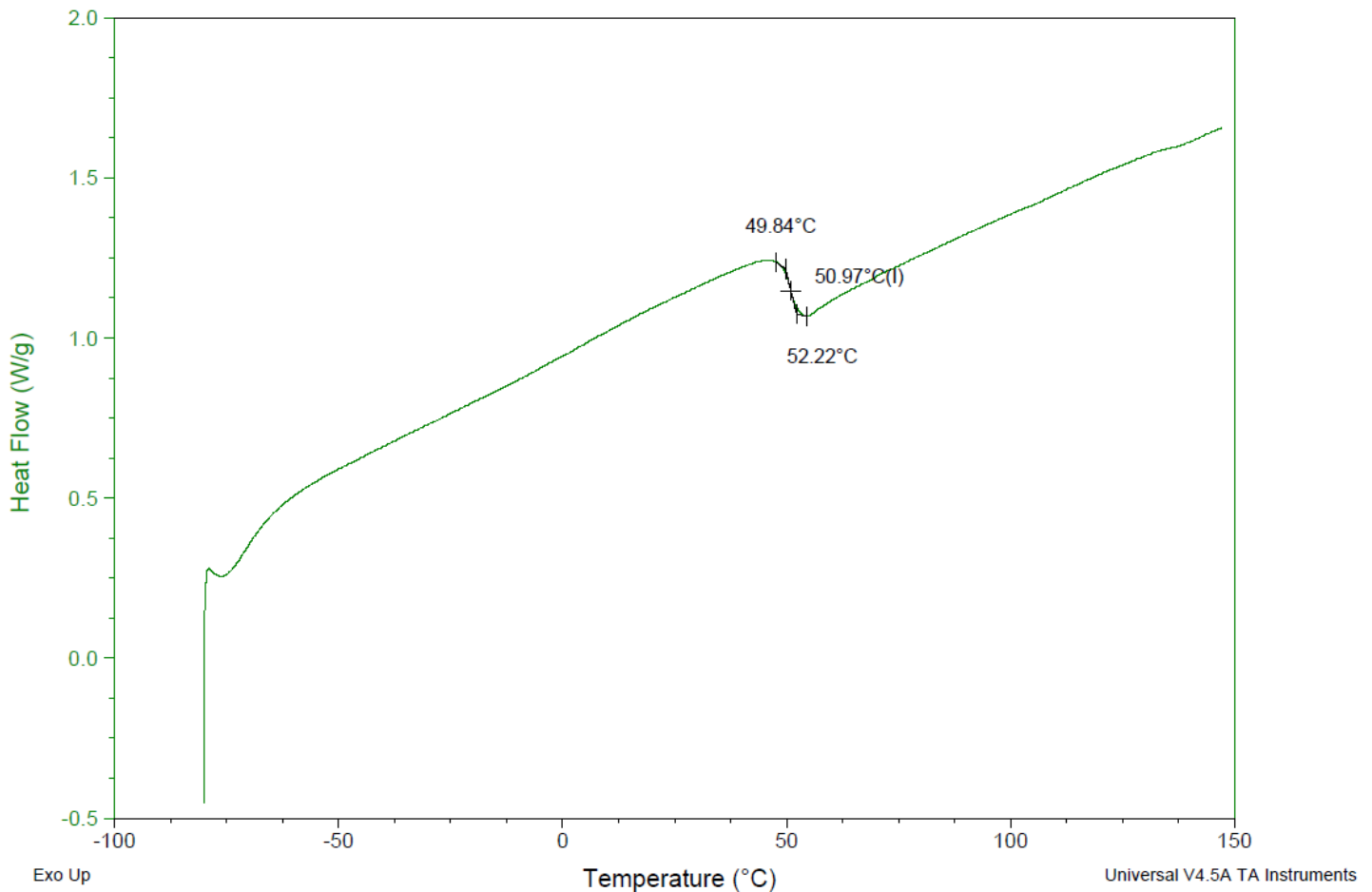
Sample: AP089 240926RAI-B
Size: 2.2000 mg
Method: Ramp

DSC

File: \\...COA\AP089 240926RAI-B DSC.001

Run Date: 04-Oct-2024 13:03

Instrument: DSC Q2000 V24.11 Build 124

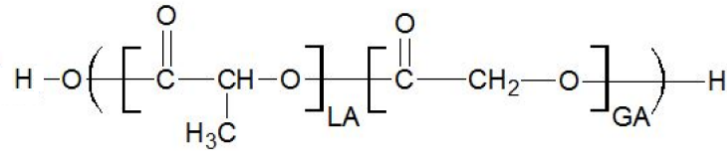


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. T_g = 50.97 °C

IV

Inherent Viscosity: 0.356 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of PLGA copolymers



Approved By:
Amie Tyler
Quality Manager