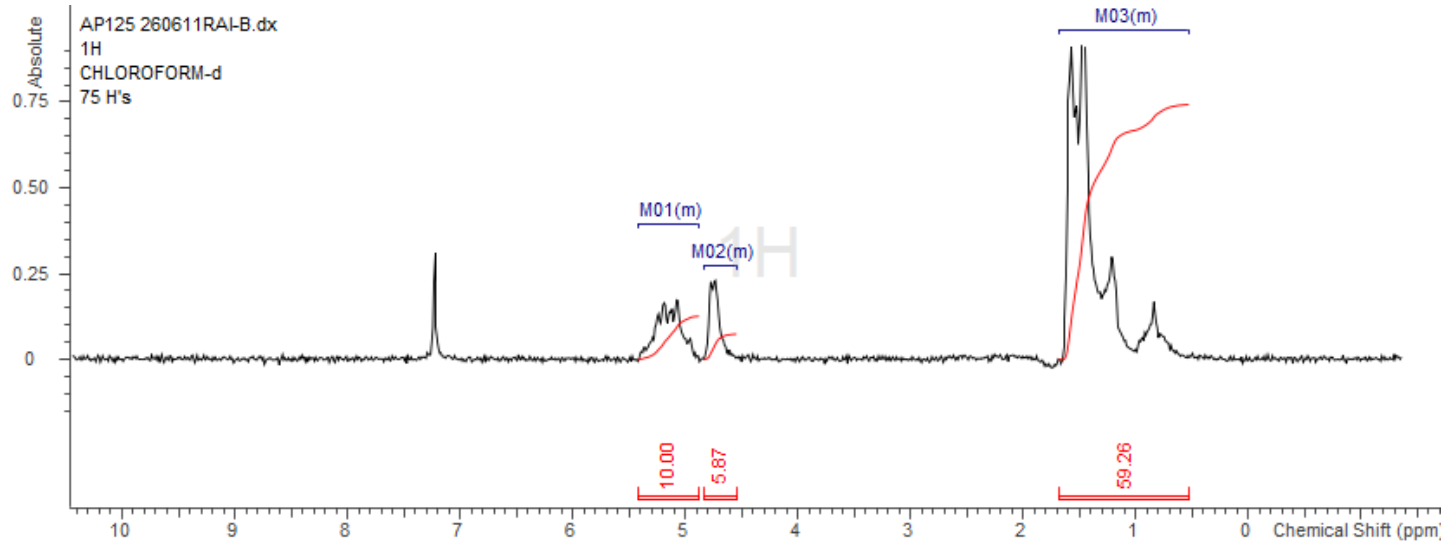
No. AP125 Certificate of Analysis

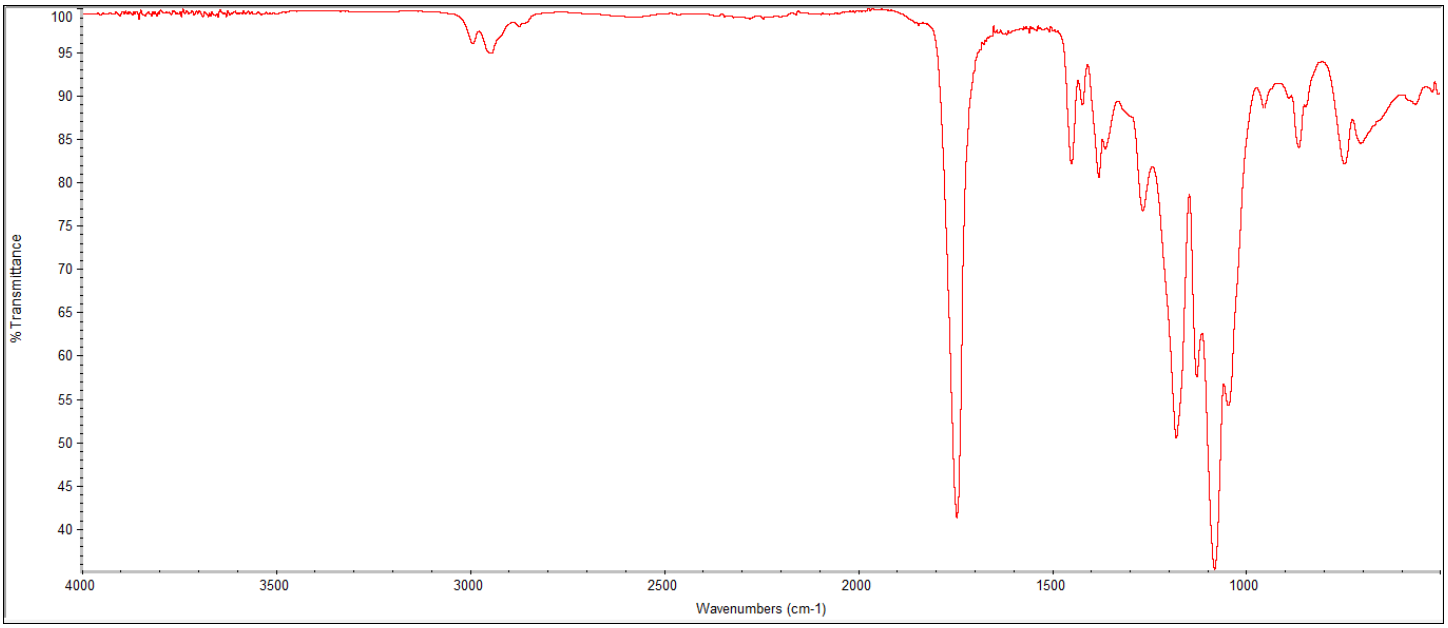
Product Name: Poly(lactic-co-glycolic) copolymers ester endcap (75:25 LA:GA) (M_n: 75,000-85,000 Da) (Lot#: 260611RAI-B)

H-NMR



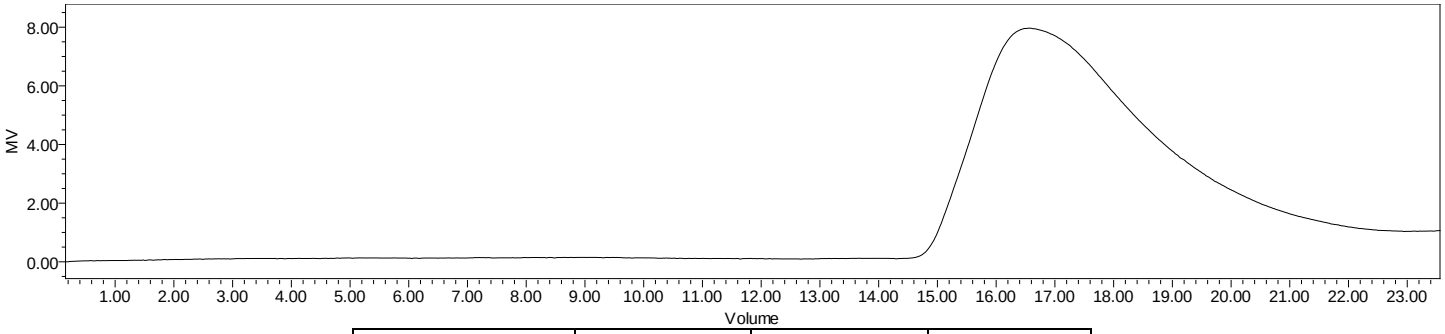
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =77%-23% molar ratio (LA:GA 81%:19% w:w)

FTIR



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

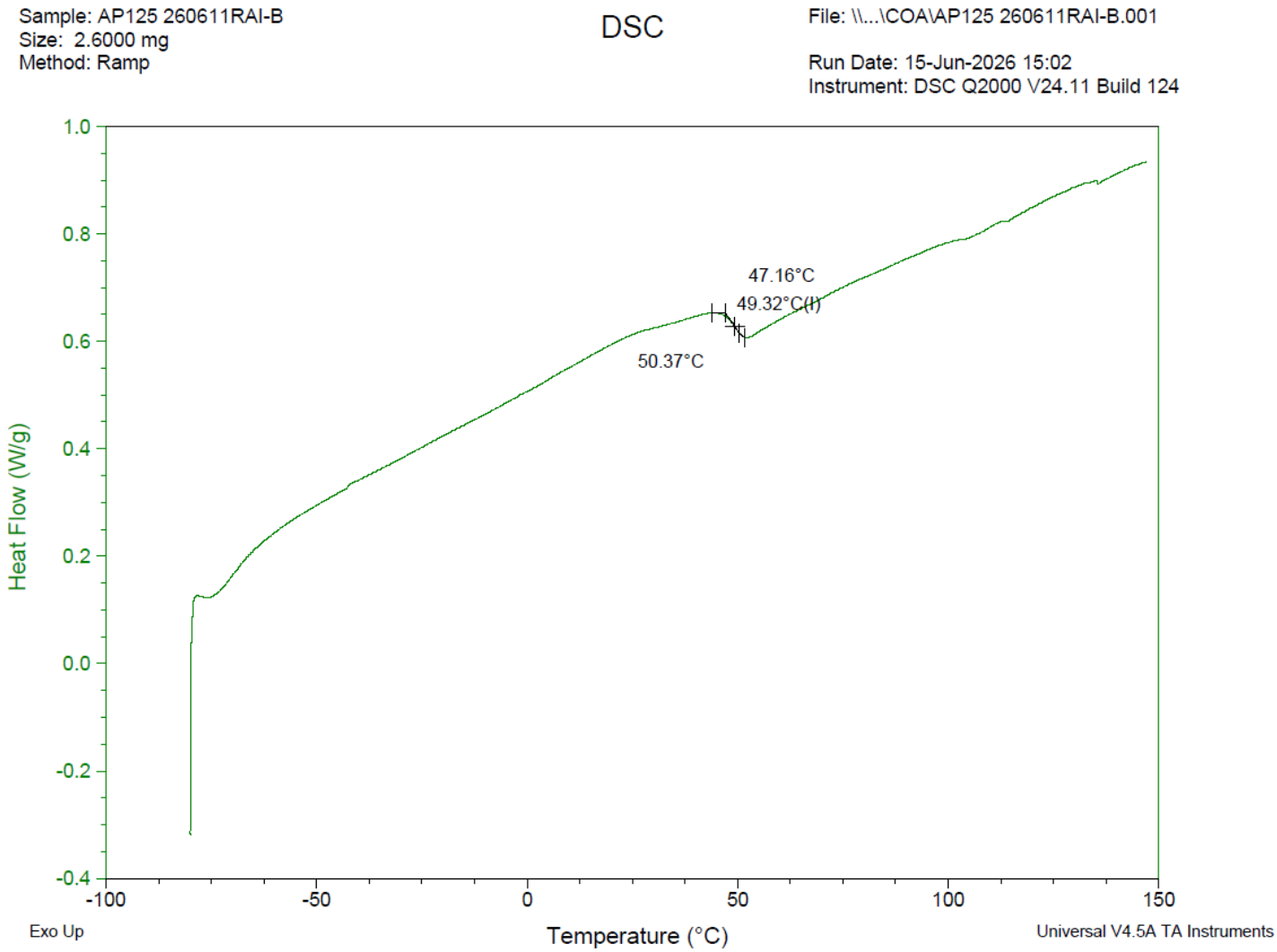
GPC-ES



Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA	77,905	110,307	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

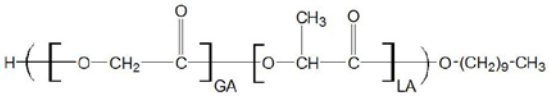


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 49.32 °C

IV

Inherent Viscosity: 0.375 ± 0.033 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25ºC.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager