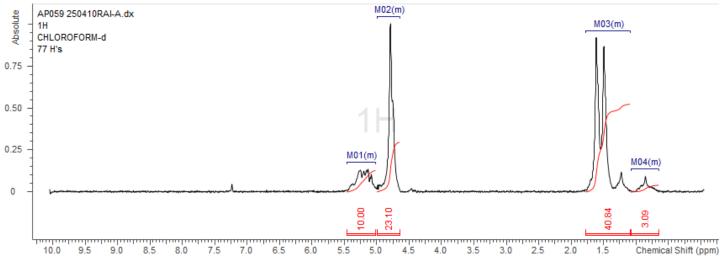
No. AP059

Certificate of Analysis



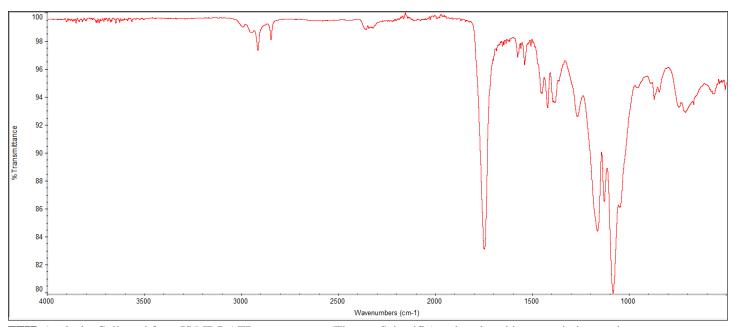
Product Name: Poly(lactide-co-glycolide) acid endcap (50:50 LA:GA, M_n: 45,000-55,000 Da) (Lot#: 250410RAI-A)

H-NMR



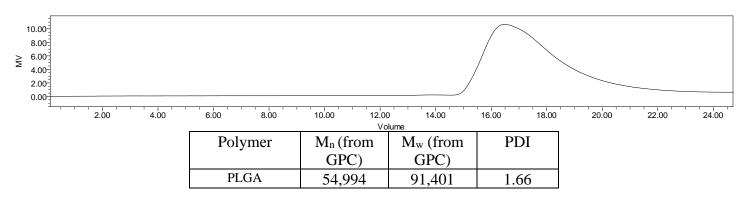
H-NMR Spectrum of copolymers in CDCl3 (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA copolymer: LA-GA =46%-54% molar ratio (LA:GA 52%:48% w:w)

FTIR



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

GPC-ES



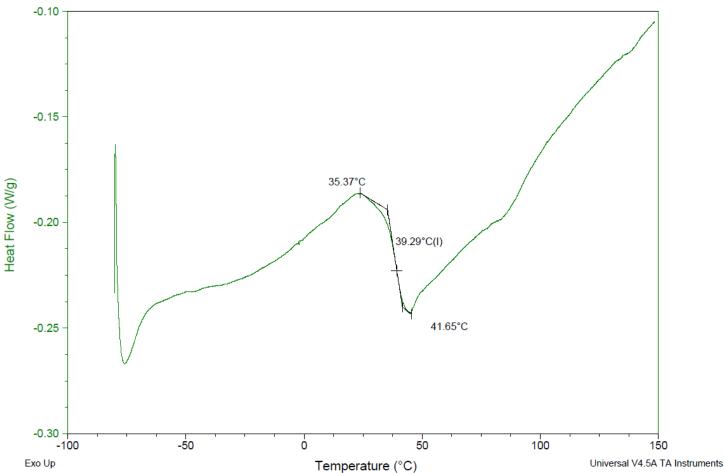
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

DSC

 Sample: AP059 250410RAI-A
 DSC
 File: C:...\COA\AP059 250410RAI-A.001

 Size: 3.2000 mg
 Run Date: 22-Apr-2025 10:57

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 = 39.29 °C

IV

Inherent Viscosity: 0.36 ± 0.01 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers

$$H - O \left(\begin{array}{c} O \\ C \\ H_3 C \end{array} \right) CH - O \left(\begin{array}{c} O \\ C \\ C \\ H_3 C \end{array} \right) CH_2 - O \left(\begin{array}{c} O \\ C \\ C \\ C \\ C \end{array} \right) - H$$

Approved By: *Amie Tyler* Quality Manager