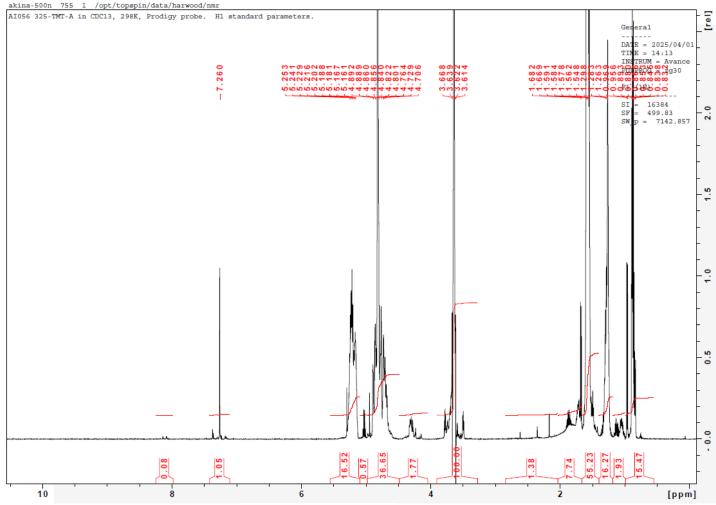


# No. AI056 Certificate of Analysis

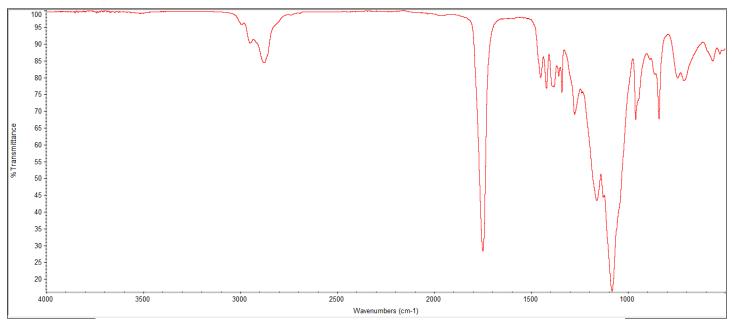
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)carboxylic acid endcap (Mw ~10,000 Da-5,000 Da) (Lot#: 250325TMT-A)

### H-NMR



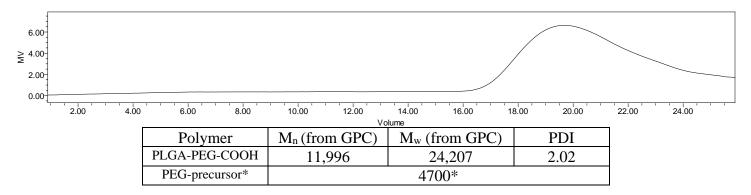
**H-NMR** Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: EG\*/LA-GA =102\*/67-75 (Mn EG\*/LA:GA 4495\*/4853:4339 Da) LA:GA 53%:47%

# 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. \*- from MFG data

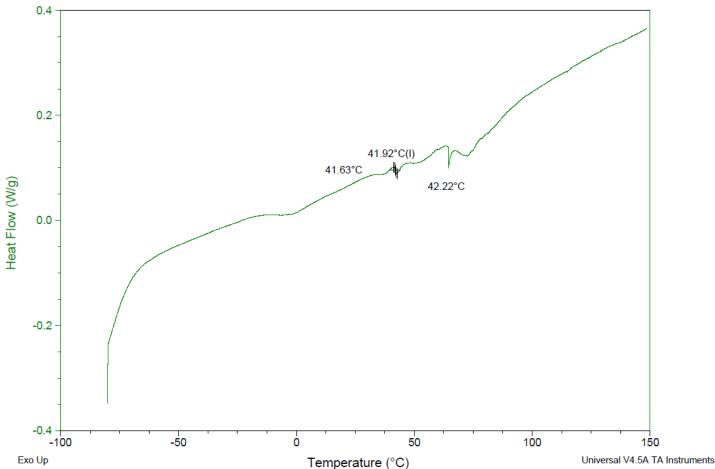
### DSC

Sample: Al056 250325TMT-A Size: 3.2000 mg Method: Modulate-no-eqb

DSC

File: C:...\COA\AI056 250325TMT-A.003

Run Date: 10-Apr-2025 09:33 Instrument: DSC Q2000 V24.11 Build 124

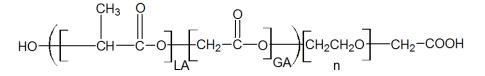


**DSC** Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 41.92 °C

# IV

**Inherent Viscosity:**  $0.135 \pm 0.007 \text{ dL/g}$  (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