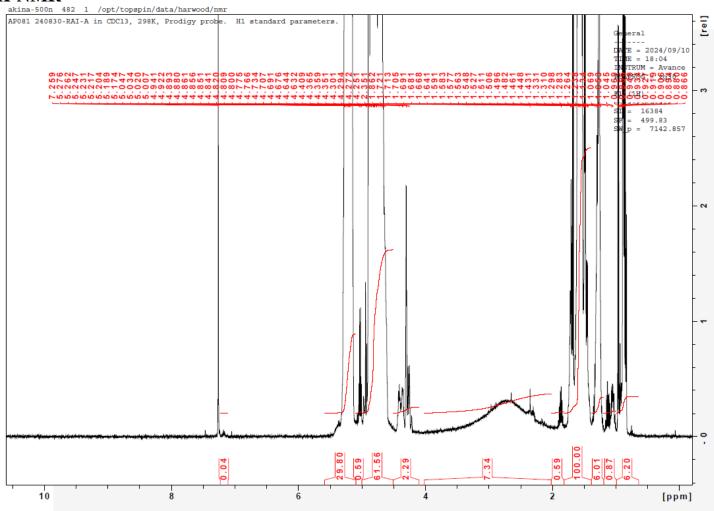
No. AP081

Certificate of Analysis



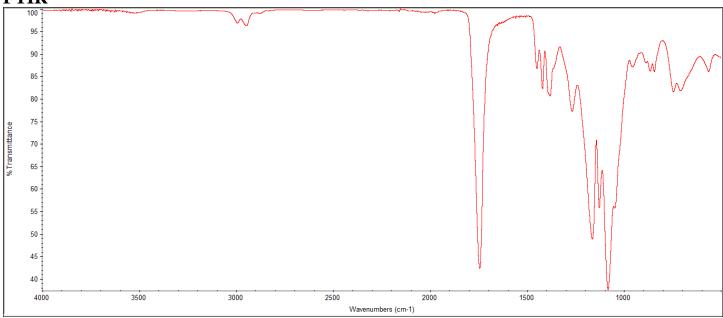
Product Name: Poly(lactide-co-glycolide) acid endcap (50:50 LA:GA) (Mn: 5,000-10,000 Da) (Lot#: 240830RAI-A)

H-NMR



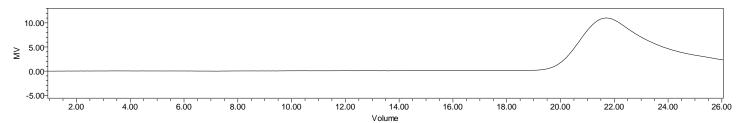
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =49%:51% (LA:GA 55%:45%)

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.

Polymer	M_n (from	M _w (from	PDI
	GPC)	GPC)	
PLGA	5324	7833	1.47

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.

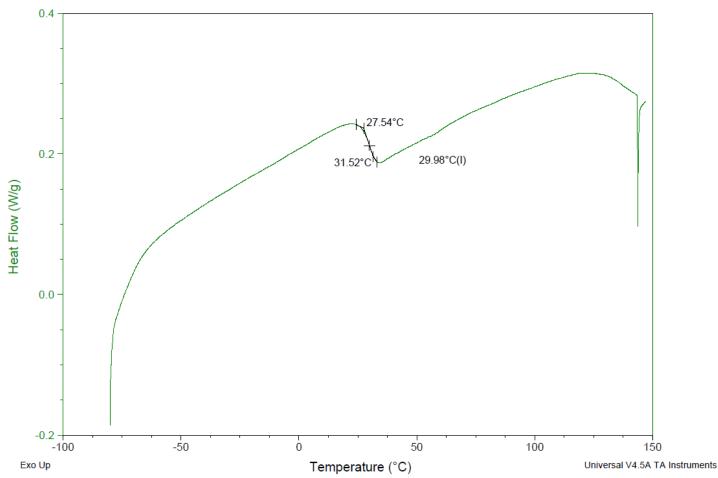
Sample: AP081 240830RAI-A

Size: 4.1000 mg Method: Ramp DSC

File: \\...\COA\AP081 240830RAI-A DSC.002

Run Date: 04-Sep-2024 13:04

Instrument: DSC Q2000 V24.11 Build 124

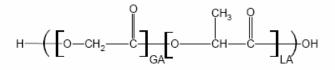


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 21.98 °C

IV

Inherent Viscosity: 0.12 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