

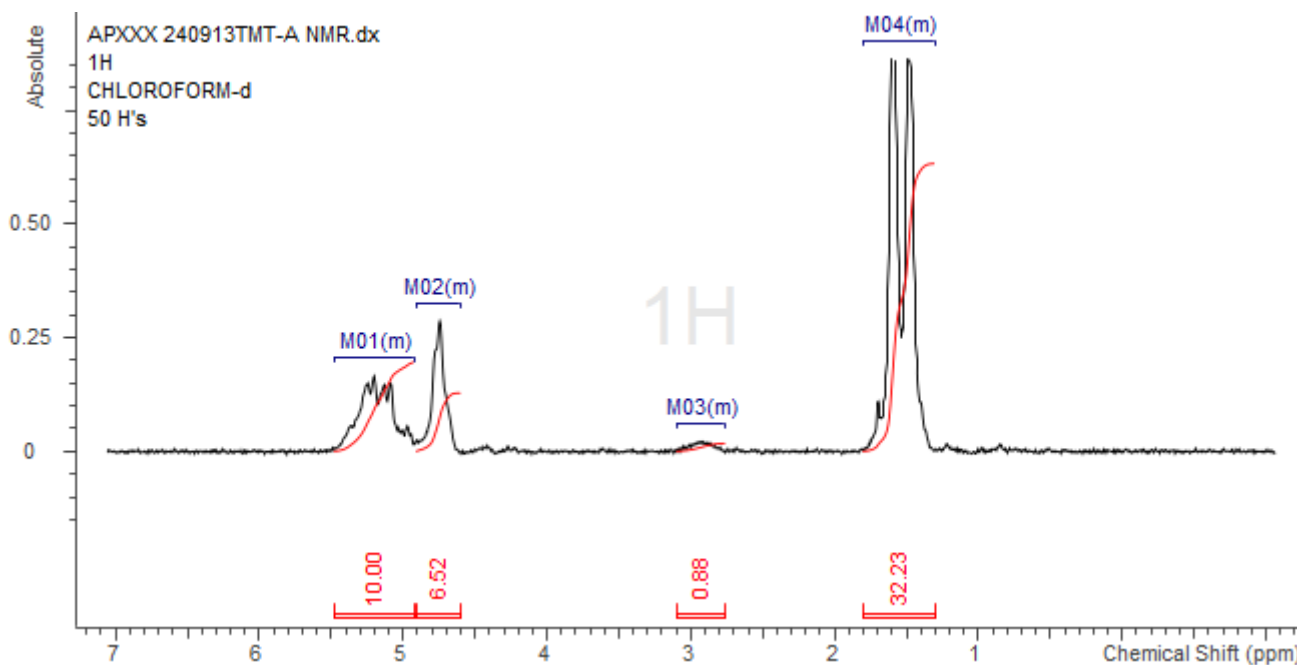
No. AP320

Certificate of Analysis



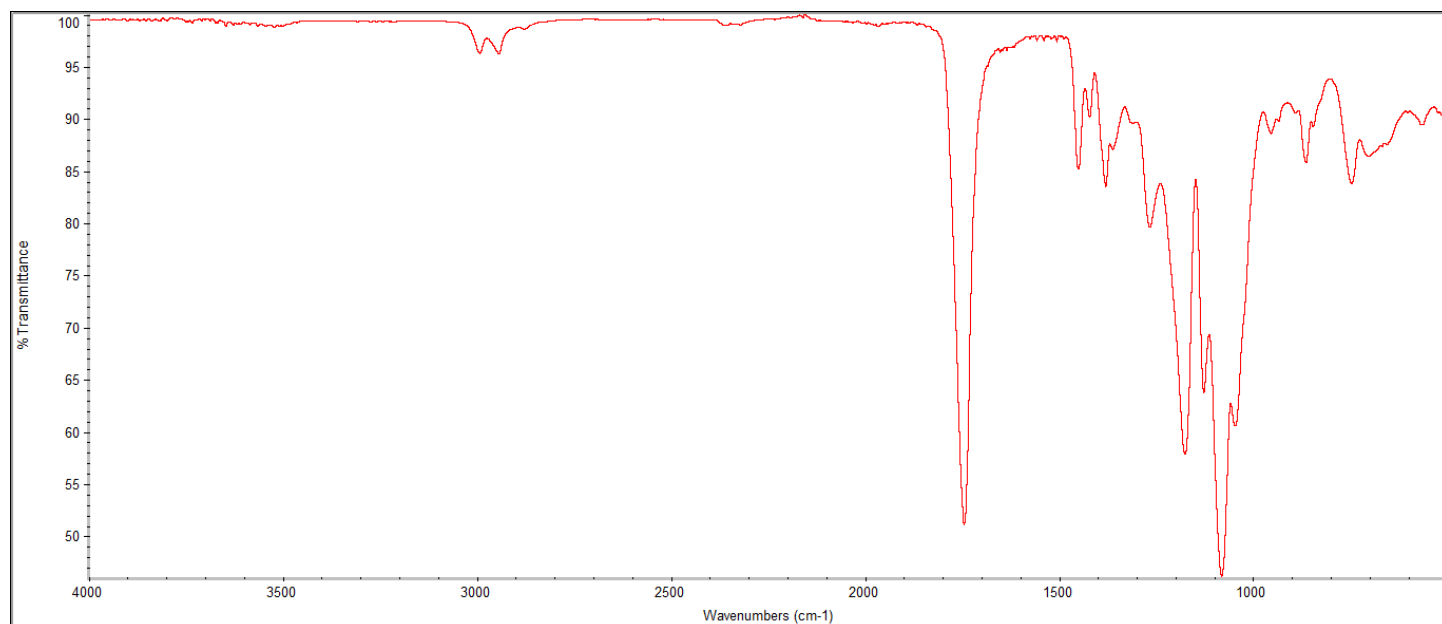
Product Name: Poly(lactide-co-glycolide) (75:25 LA:GA, Mn: 1,000-5,000 Da) acid endcap
(Lot#: 240913TMT-A)

H-NMR



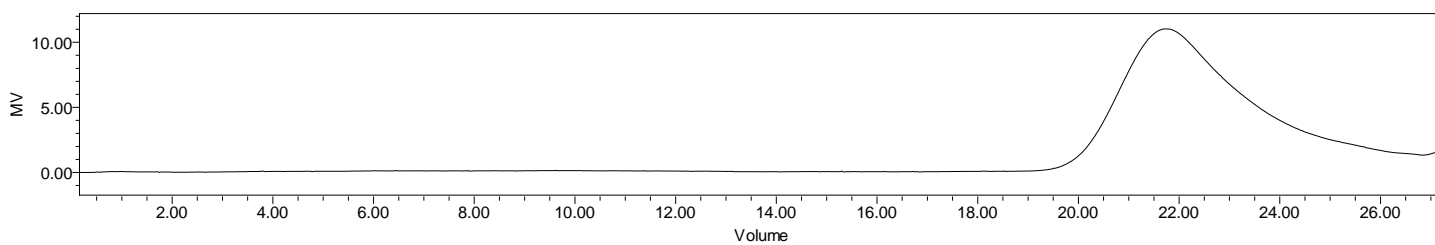
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =75%-25% molar ratio (LA:GA 79%:21% w:w)

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	4307	7037	1.63

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.

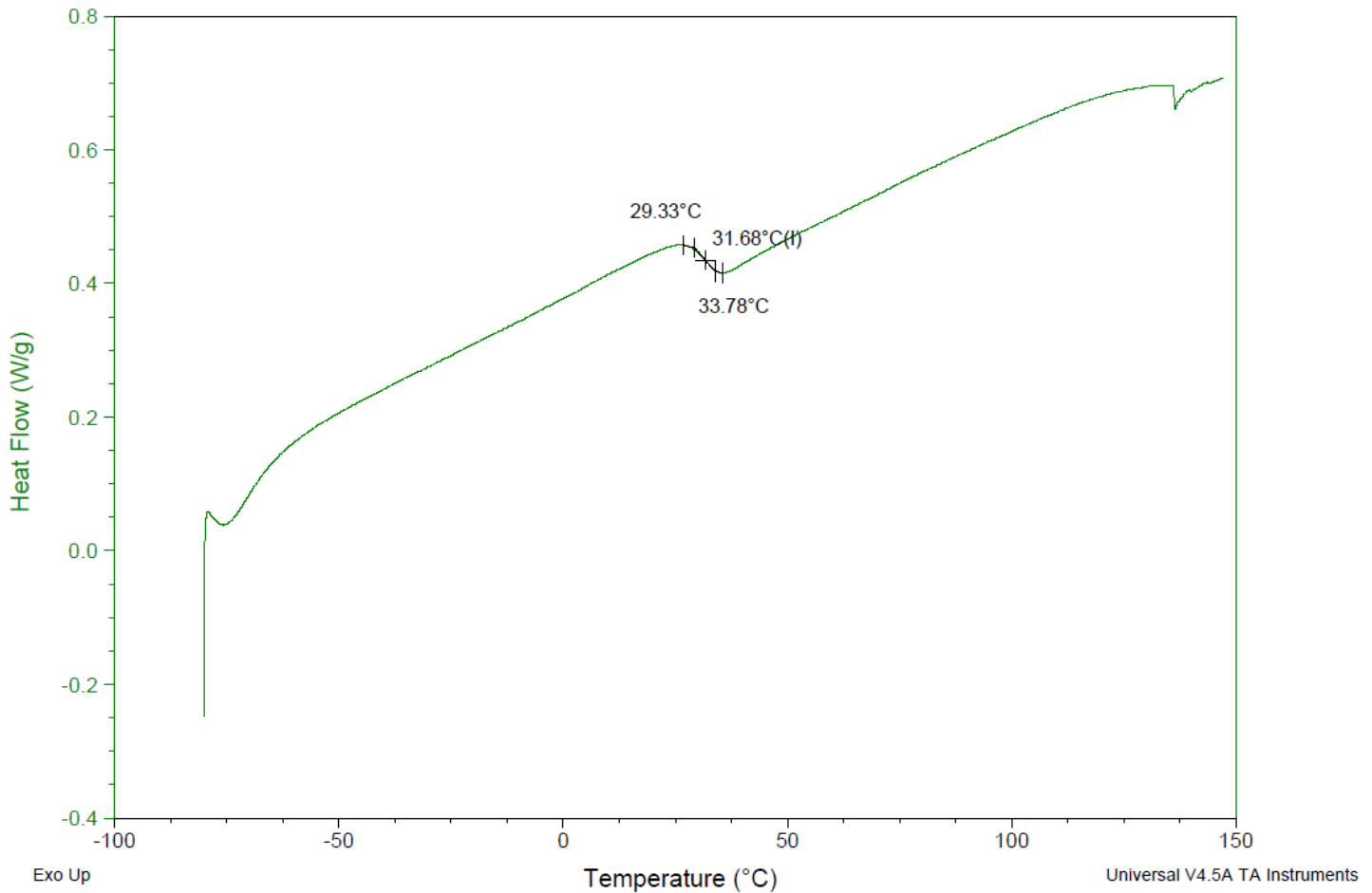
DSC

Sample: APXXX 24913TMT-A
Size: 4.1000 mg
Method: Ramp

DSC

File: \\...COA\APXXX 240913TMT-A DSC.001

Run Date: 19-Sep-2024 15:34
Instrument: DSC Q2000 V24.11 Build 124

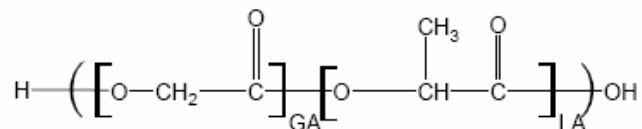


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 31.68 °C

IV

Inherent Viscosity: 0.109 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