

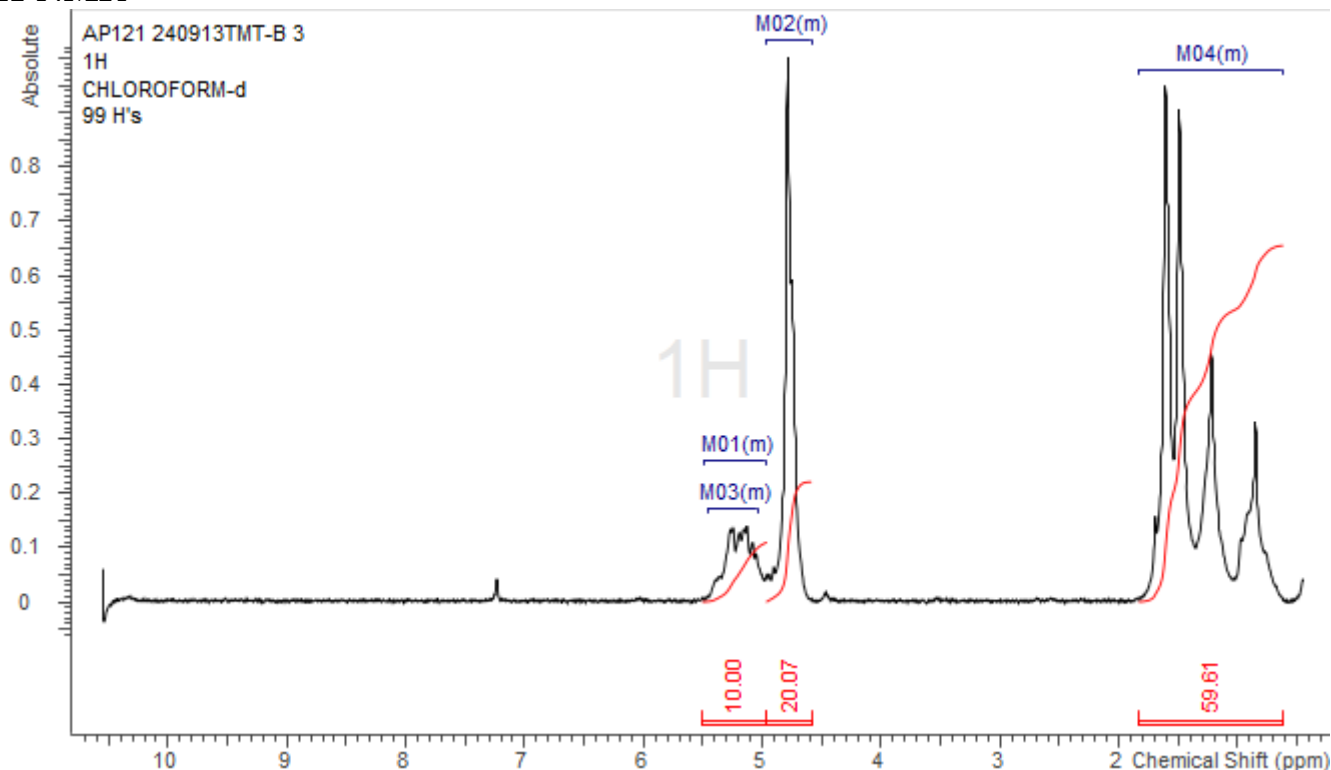
No. AP121

Certificate of Analysis



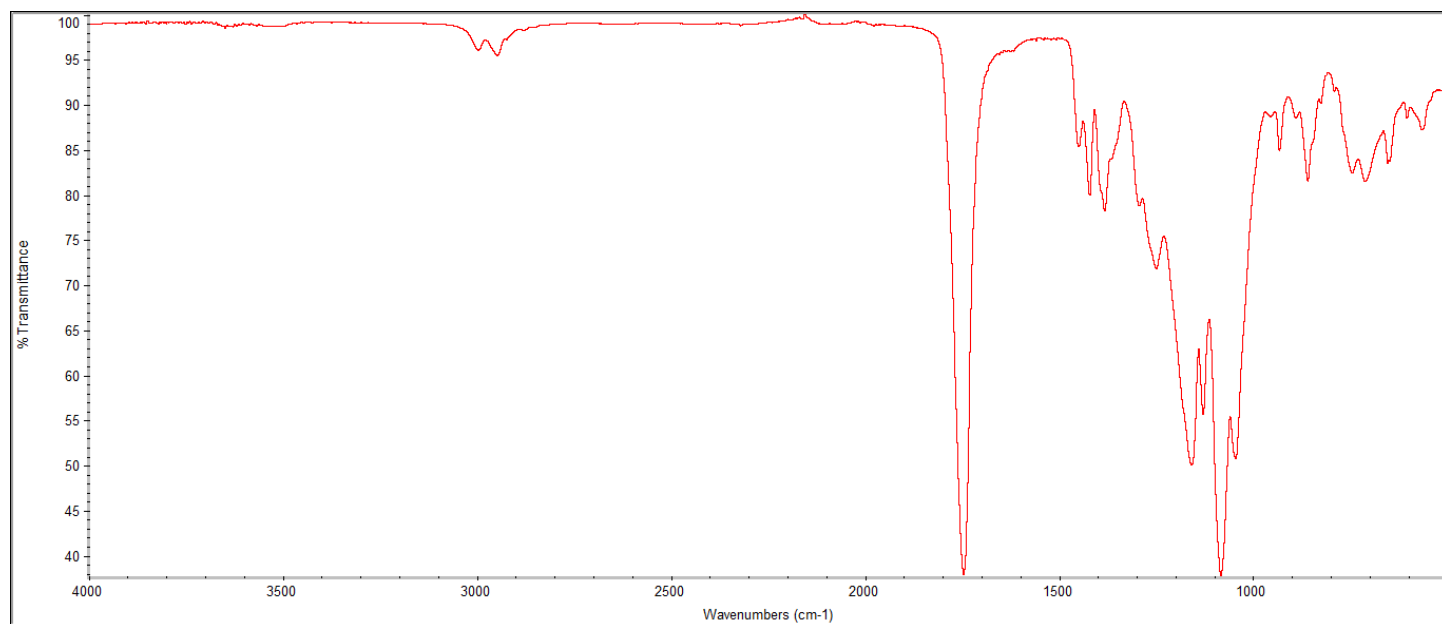
Product Name: Poly(lactide-co-glycolide) (LA:GA 50:50, 45,000-55,000Da) ester endcap
(Lot #240913TMT-B)

H-NMR



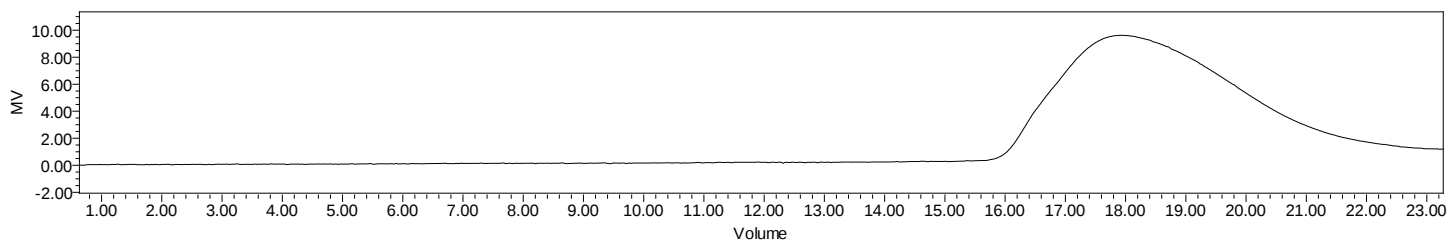
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥ 300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA = 50%:50% molar ratio (LA:GA 47%:53% w:w)

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	49,757	99,403	2.00

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.

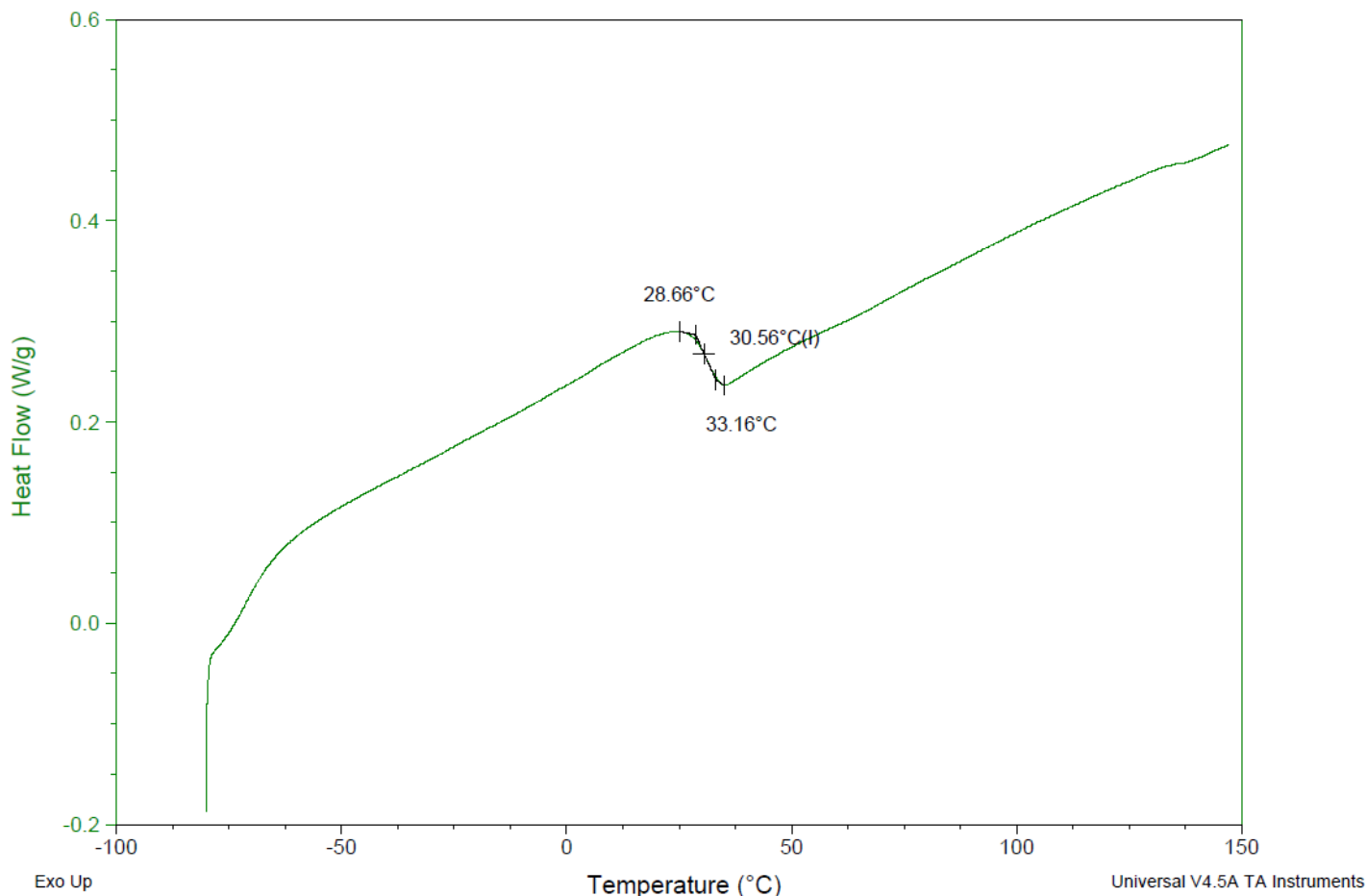
DSC

Sample: AP121 913TMT-B
Size: 4.6000 mg
Method: Ramp

DSC

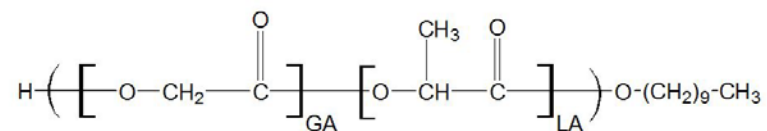
File: \\...\\COA\\AP121 240913TMT-B DSC.001

Run Date: 18-Sep-2024 14:45
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. T_g = 30.56 °C

Structure of PLGA copolymers



Approved By:
Amie Tyler
Quality Manager