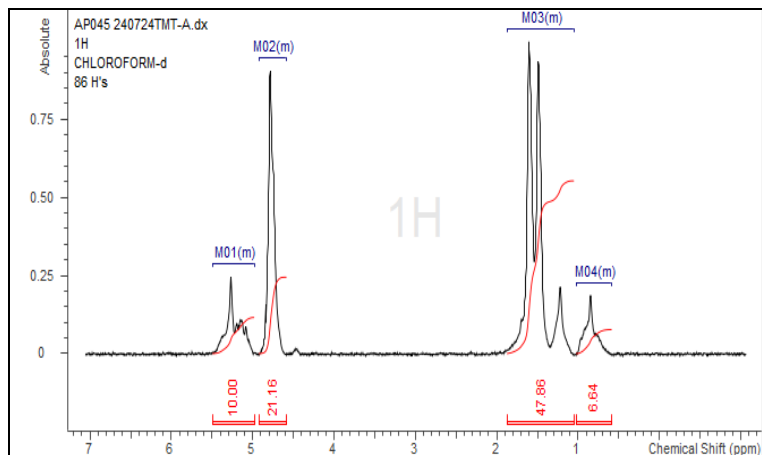


No. AP045

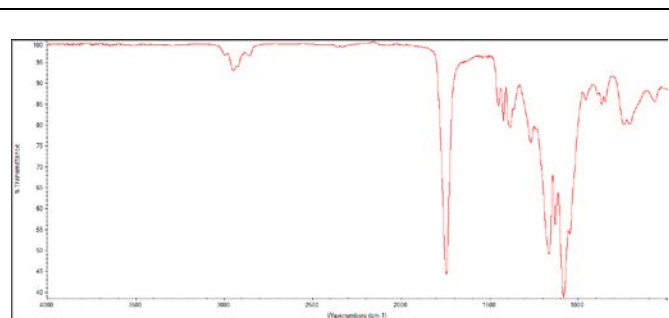
Certificate of Analysis



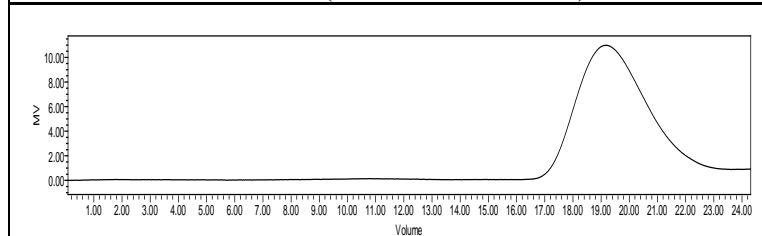
Product Name: Poly(lactide-co-glycolide) acid endcap (50:50 LA:GA,
Mn: 35,000-45,000Da) (Lot#: 240724TMT-A)



H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA Copolymer: LA:GA 49%:51% molar ratio (LA:GA 54%:46% w:w)

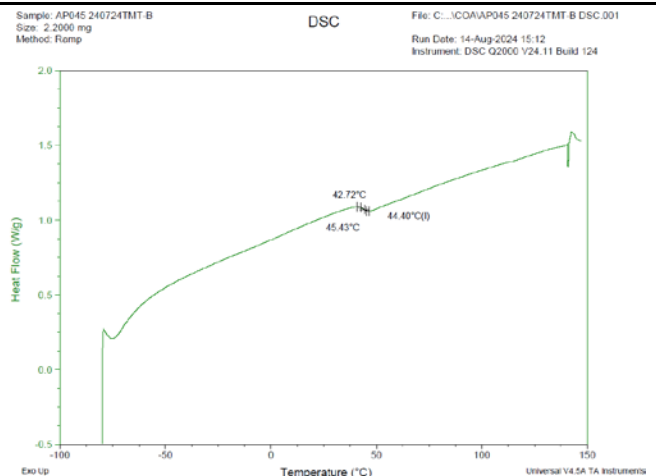


FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.



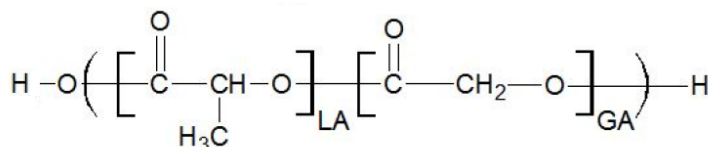
Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLGA	35,278	49,192	1.39

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 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 = 44.4 °C

Structure of PLGA copolymers



Approved By:
Amie Tyler
Quality Manager