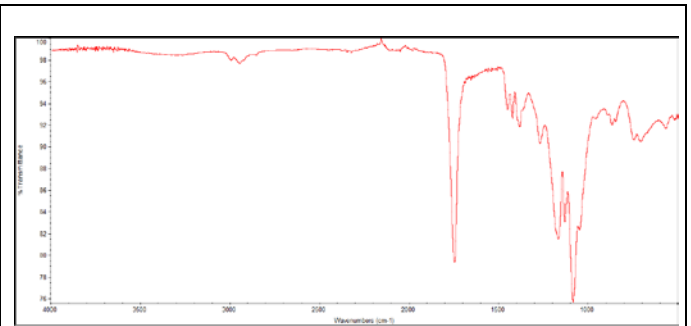
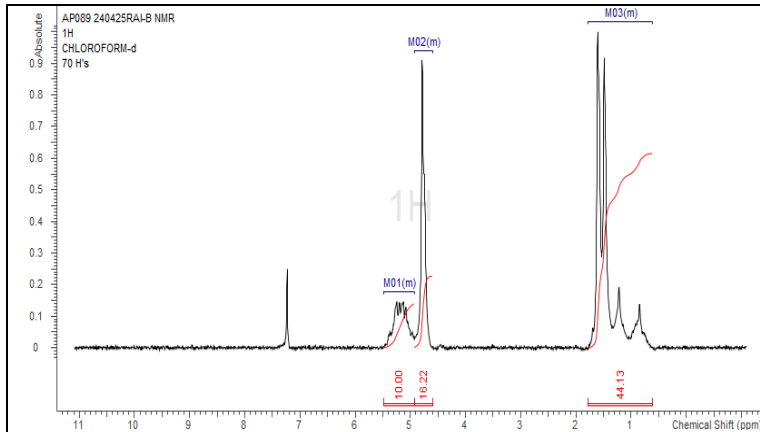


# No. AP089

# Certificate of Analysis

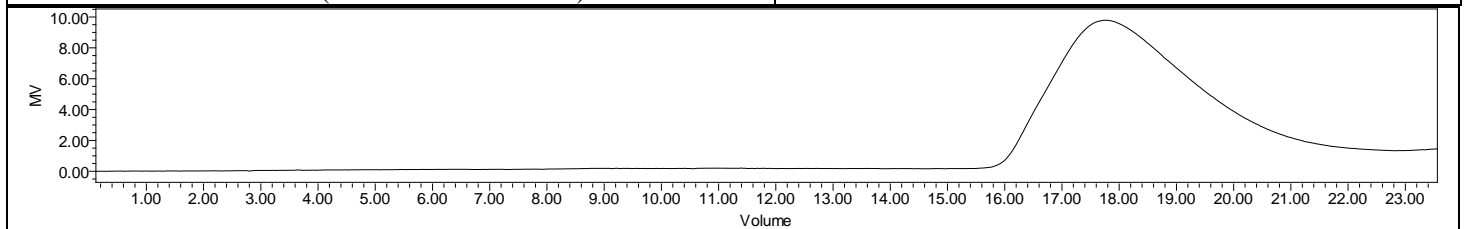


Product Name: Poly (lactic-co-glycolic acid) acid endcap (50:50 LA:GA,  
M<sub>n</sub>: 75,000–85,000 Da) (Lot#: 240425RAI-B)



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

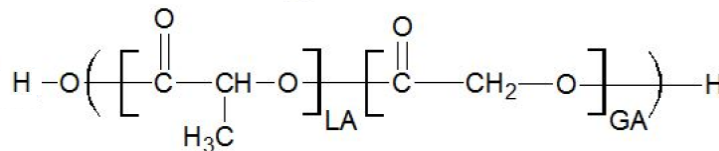
H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA Copolymer: LA:GA 55%:45% molar ratio (LA:GA 61%:39% w-w)



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 <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA	77,356	116,949	1.51

## • Structure of PLGA copolymers



Approved By:  
*Amie Tyler*  
Quality Manager