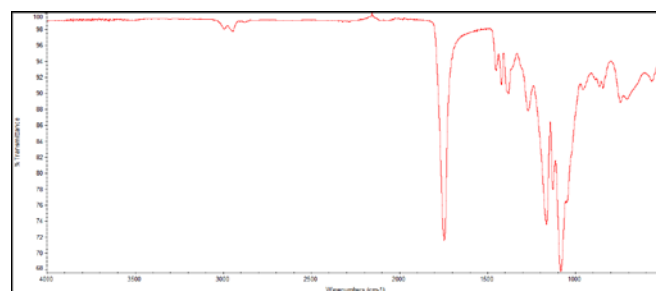
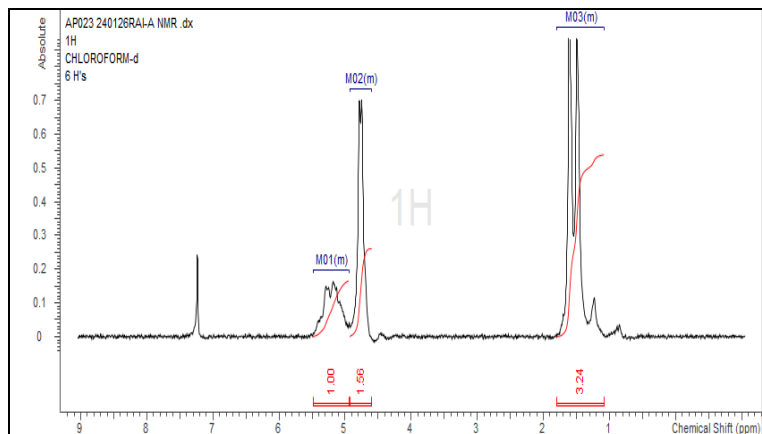


# No. AP311

# Certificate of Analysis

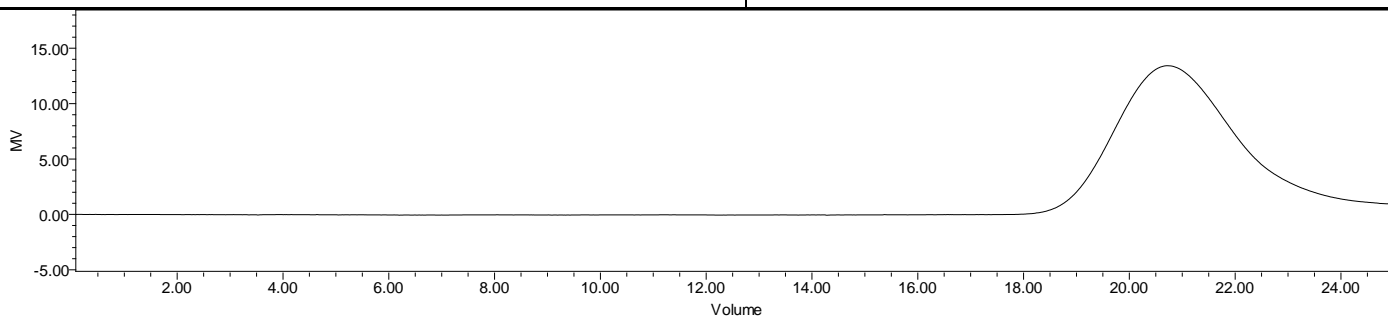


Product Name: Poly (lactic-co-glycolic acid) ester endcap 60:40 LA:GA  
(Mn: 10,000-15,000Da) (Lot#: 240126RAI-A)



H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA Copolymer: LA:GA 56%:44% molar ratio (LA:GA 61%:39% w-w)

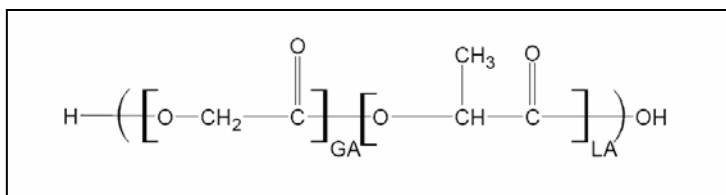
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



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    | 11,046                    | 17,853                    | 1.62 |

## • Structure of PLGA copolymers



Approved By:  
*Amie Tyler*  
Quality Manager