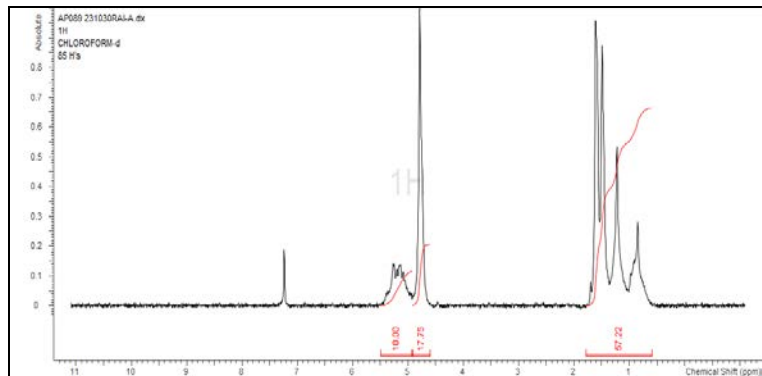


# No. AP089

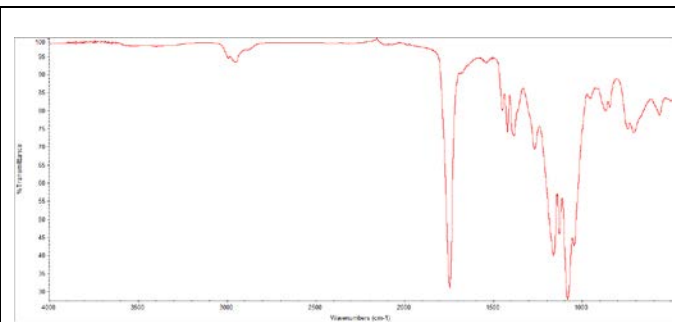
# Certificate of Analysis



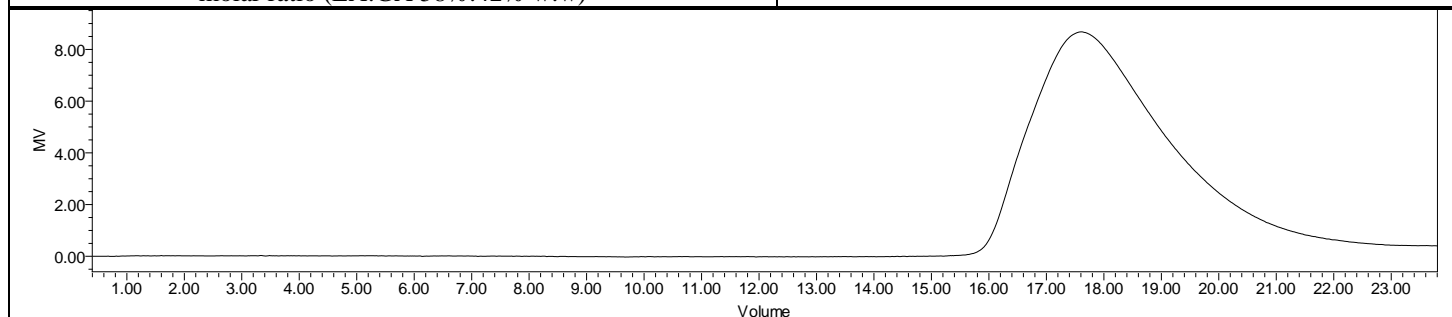
Product Name: Poly (lactic-co-glycolic acid) (50:50 LA:GA,  $M_n$ : 75,000–85,000 Da)  
(Lot#: 231030RAI-A)



H-NMR Spectrum of copolymers in  $CDCl_3$  (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA Copolymer: LA:GA 53%:47% molar ratio (LA:GA 58%:42% w:w)



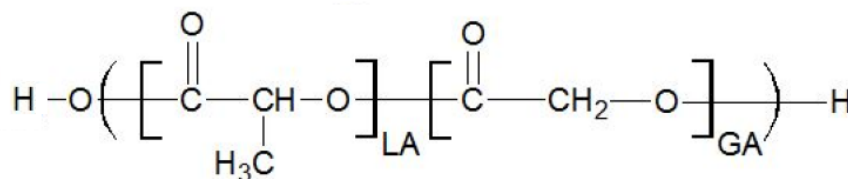
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



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 | $M_n$ (from GPC) | $M_w$ (from GPC) | PDI  |
|---------|------------------|------------------|------|
| PLGA    | 75,681           | 122,009          | 1.61 |

## Structure of PLGA copolymers



Approved By:  
*Amie Tyler*  
Quality Manager