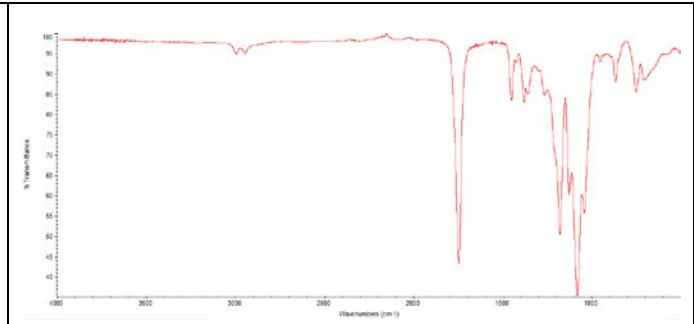
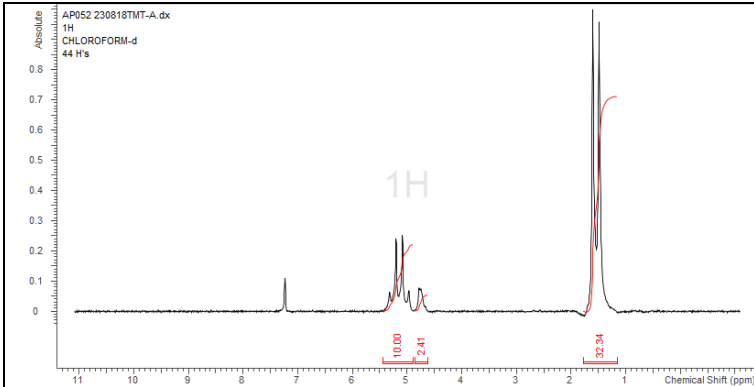


No. AP293

# Certificate of Analysis

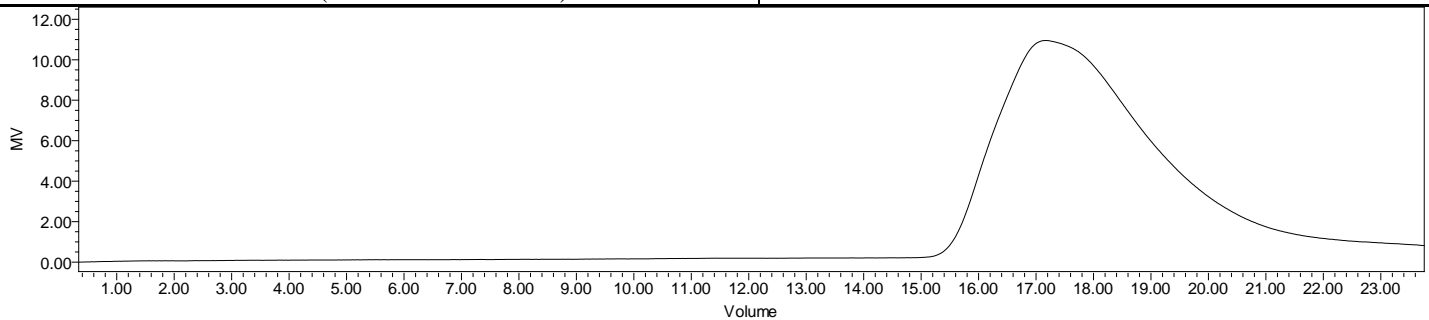


Product Name: Poly(lactic-co-glycolic) acid endcap (85:15 LA:GA, Mn 100,000-200,000 Da)  
(Lot#: 230815TMT-A)



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

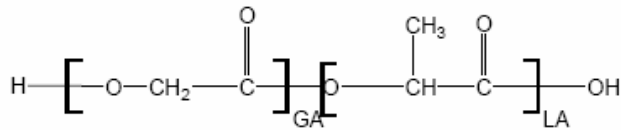
H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA Copolymer: LA:GA 89%:11% molar ratio (LA:GA 91%:9% w:w)



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	134,889	202,118	1.50

- Structure of PLGA copolymers



Approved By:  
*Amie Tyler*  
Quality Manager