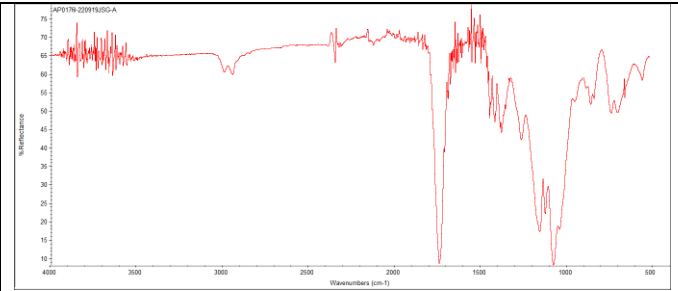
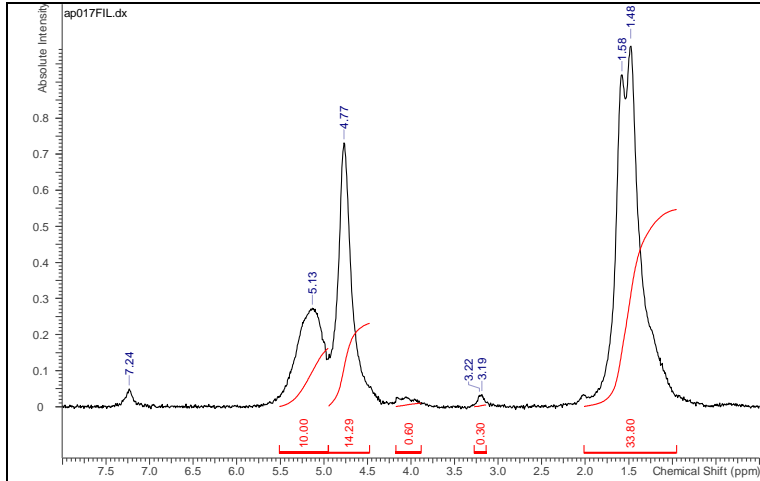


No. AP017fil

Certificate of Analysis

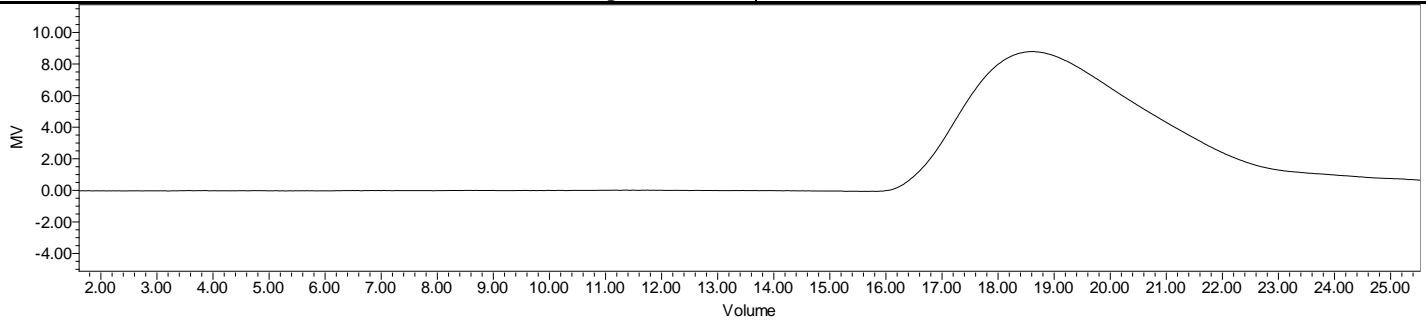


Product Name: Poly(lactide-co-glycolide) acid endcap (60:40 LA:GA) filament + 5% Acetyltriethylcitrate (Lot#: 220919JSG-A)



FTIR Analysis: Collected from Nicolet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA copolymer: Lactide:Glycolide molar ratio 58:42 (63:37 w:w) (*NMR includes ATEC plasticizer)



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*	23,858	61,043	2.56

* - GPC of extruded polymer includes ATEC plasticizer

Filament Properties

- **Nominal Diameter:** 1.7 mm
- **Extruded Temperature:** 105 - 120 °C
- **Color:** tan to light brown.