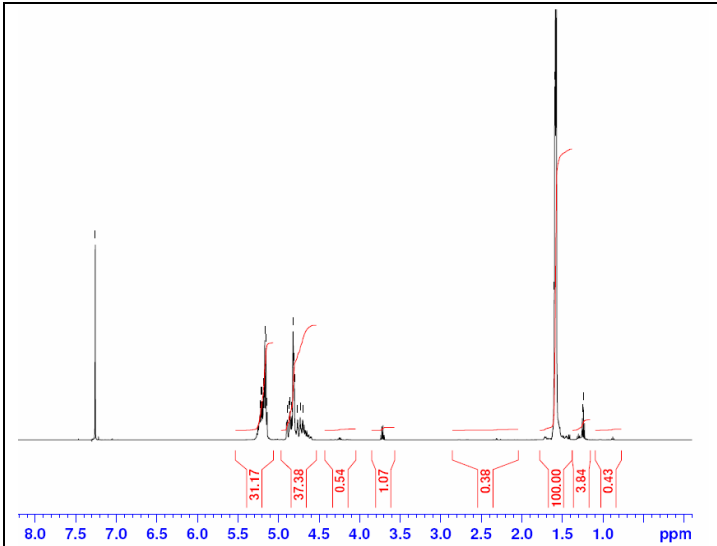
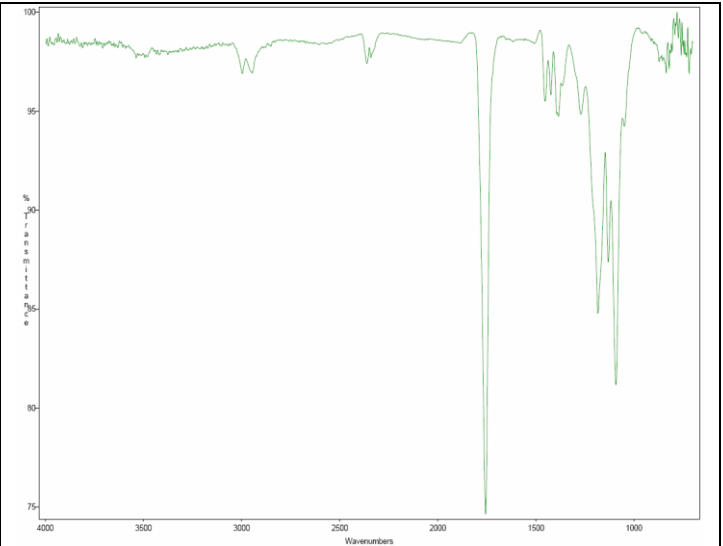


No. AP17 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic) copolymers acid endcap (60:40 LA:GA, MW~90,000 Da) (Lot#: 1209306) REV:A

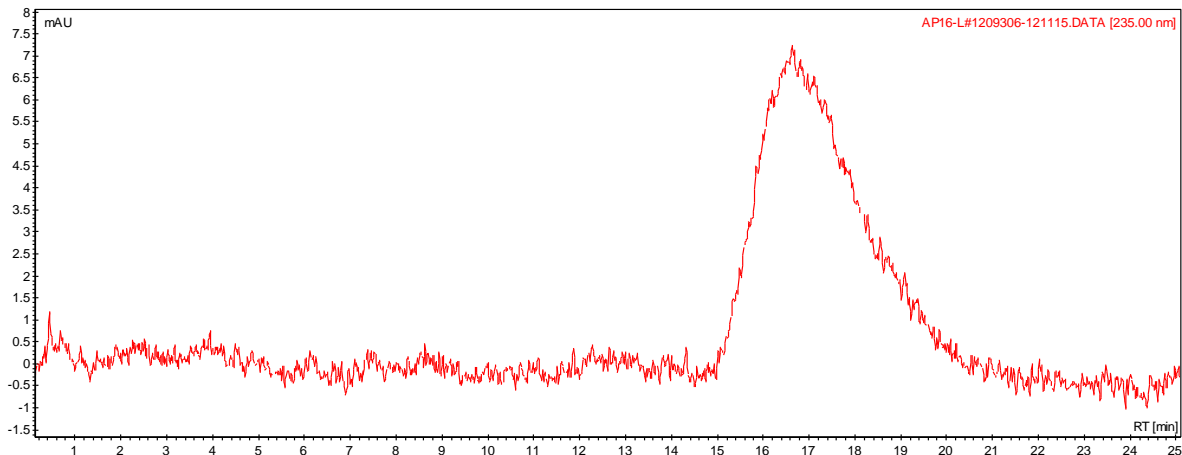


H-NMR Spectrum of PLGA copolymer in CDCl₃ (Varian Inova 500 MHz instrument), NMR of PLGA copolymers: GA/LA = 38%/62% molar ratio (33%/67% w/w)



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

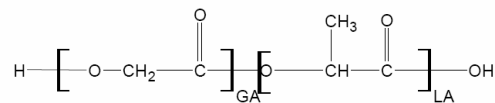
- GPC analysis of PLGA copolymers**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across one PLGel Mixed-D column and one PLGel Mixed-E column and one phenogel 5u column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLGA	78,574	118,706	1.51

- Structure of PLGA copolymers**



This specific batch is distributed by Akina, Inc. on behalf of original manufacturer. Quality testing was performed in-house by Akina, Inc. prior to sale and is as shown here. This batch manufactured in China.