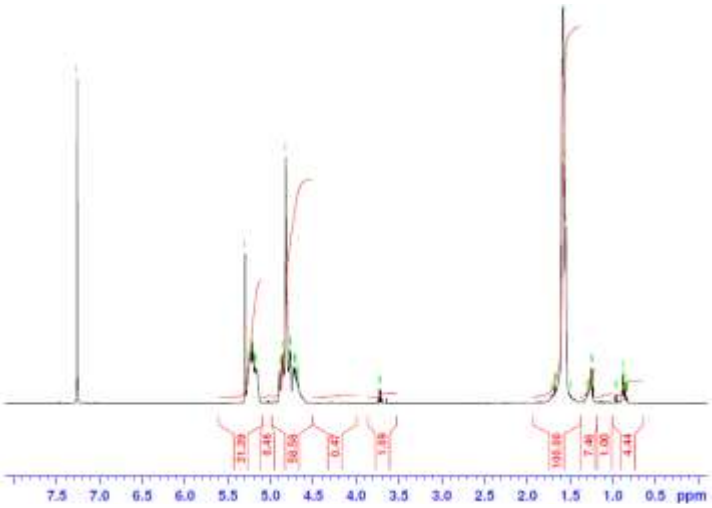
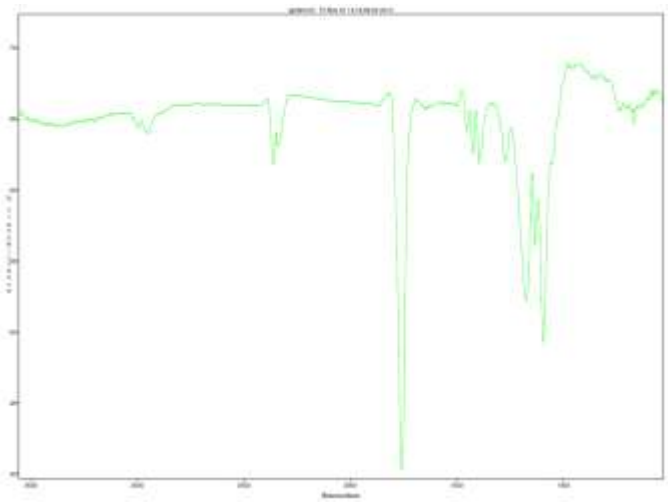
# No. AP039 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic) ester endcap (1:1 LA:GA, Mn: 35,000-45,000 Da)
(Lot#: 41031SJH) REV:A

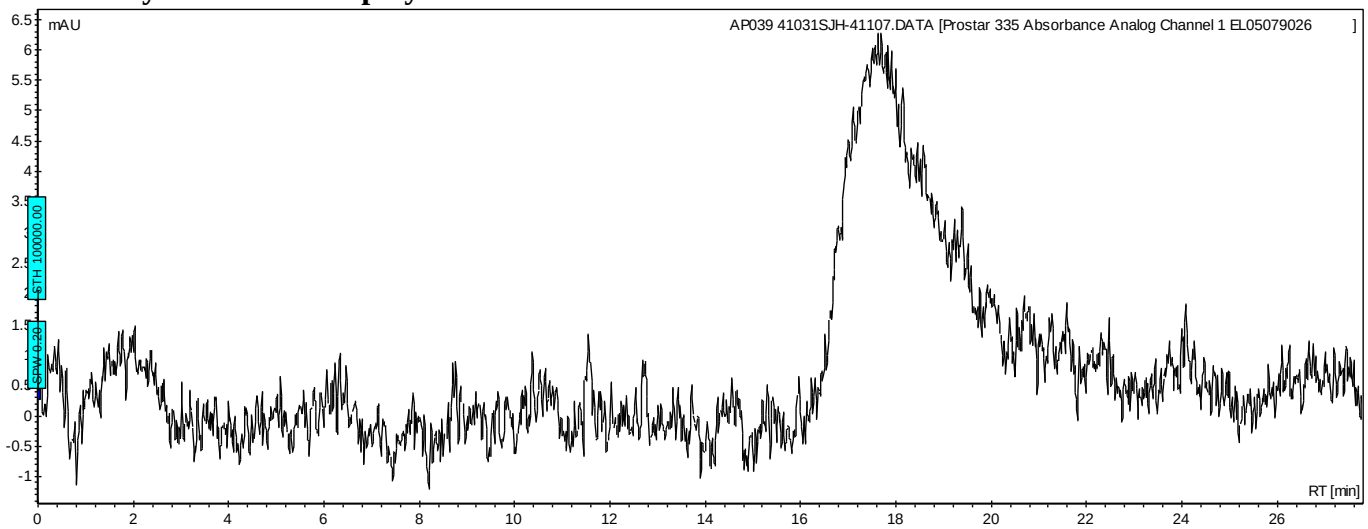



H-NMR Spectrum of PLGA copolymers in CDCl3 (Varian Inova 500 MHz instrument), NMR of PLGA copolymers: LA/GA = 52%/48% molar ratio (57%/43% w/w)



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

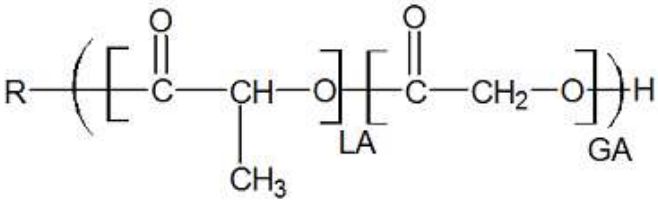
- **GPC analysis of PLGA copolymers**




Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two 5µm Phenogel columns and one PLgel Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

| Polymer | Mn (from GPC) | Mw (from GPC) | PDI |
|---|---|---|---|
| PLGA | 35,517 | 59,422 | 1.67 |

- **Structure of PLGA copolymers**

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