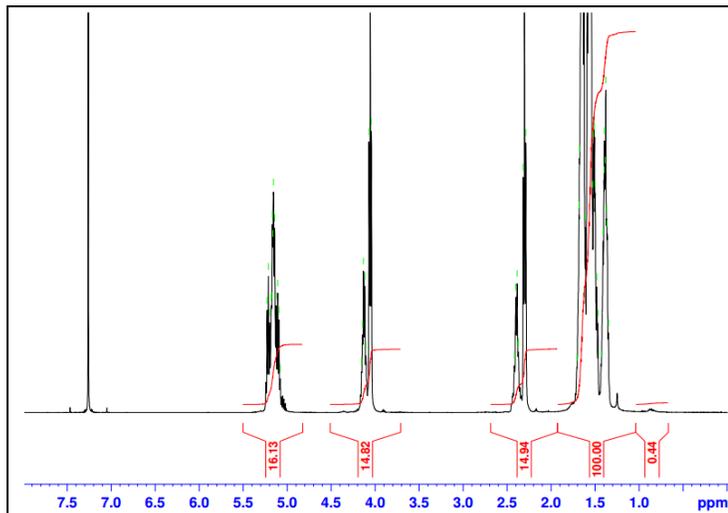


# No. AP151

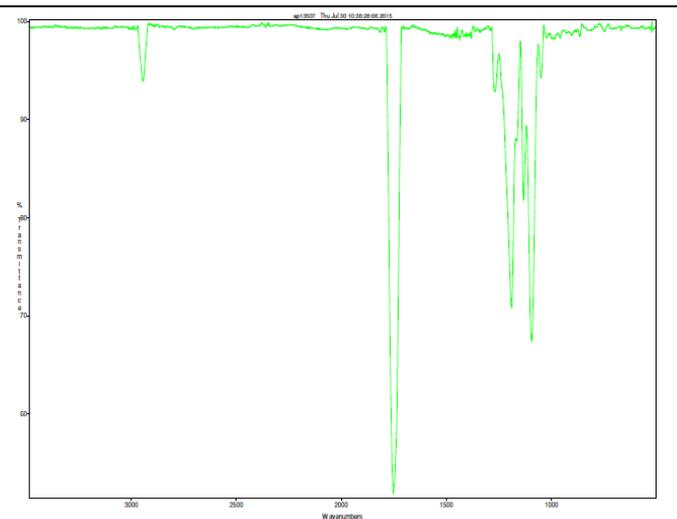
# Certificate of Analysis



Product Name: Poly((D,L)Lactic-co-caprolactone) Copolymers acid end-capped (70:30 LA:CL,  $M_n$ : 75,000-85,000 Da) (Lot#: 50727AHT)

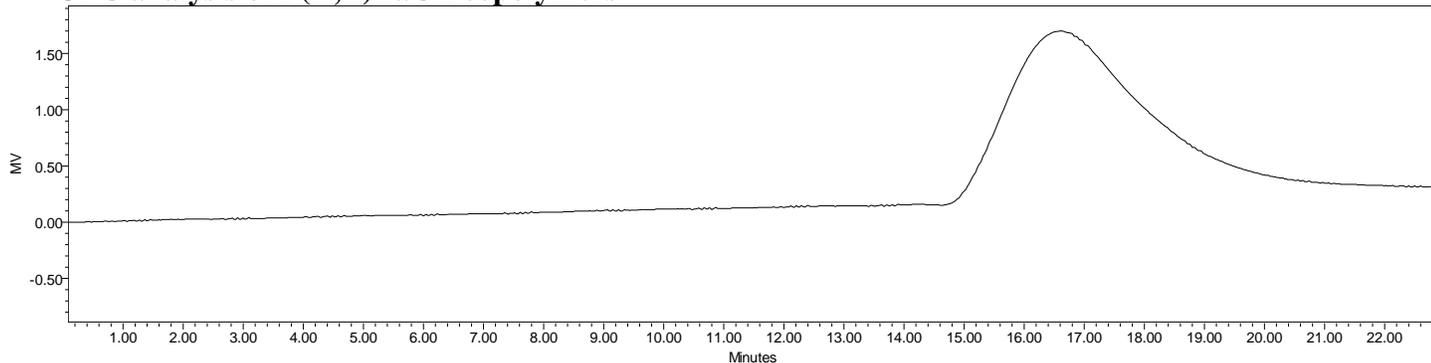


$^1\text{H-NMR}$  Spectrum of PLCL copolymers in  $\text{CDCl}_3$  (Varian Inova 500 MHz instrument), NMR of PLCL copolymers: LA/CL = 69%/31% molar ratio (58%/42% w/w)



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

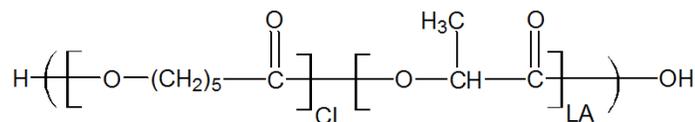
## • GPC analysis of P(D,L)LaCL copolymers



Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

| Polymer    | $M_n$ (from GPC) | $M_w$ (from GPC) | PDI  |
|------------|------------------|------------------|------|
| P(D,L)LaCL | 75,206           | 112,950          | 1.50 |

## • Structure of P(D,L)LaCL copolymers



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