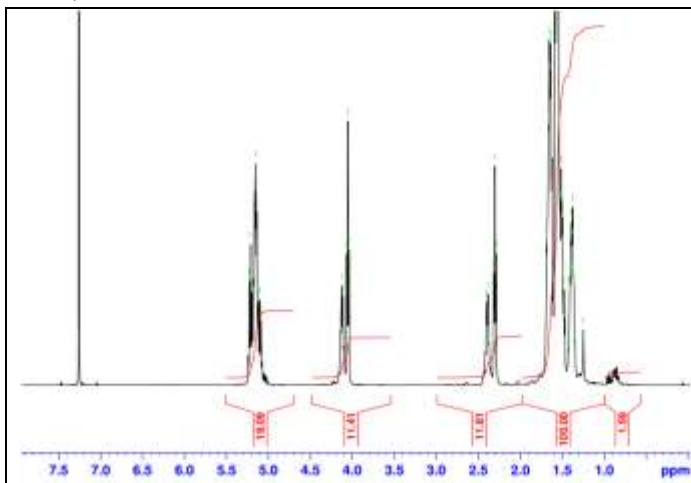


# No. AP139

# Certificate of Analysis

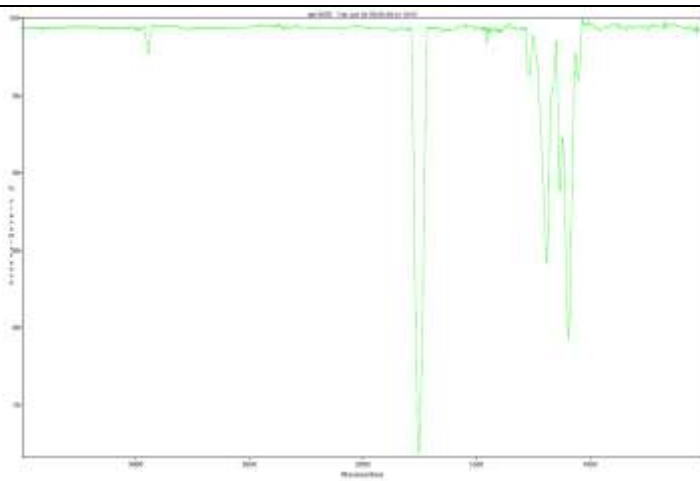
Product Name: Poly((D,L)Lactic-co-caprolactone) Copolymer acid end-capped (80:20 LA:CL) ( $M_n$ : 100,000-150,000 Da) (Lot#: 50624MLS) REV:A

## H-NMR



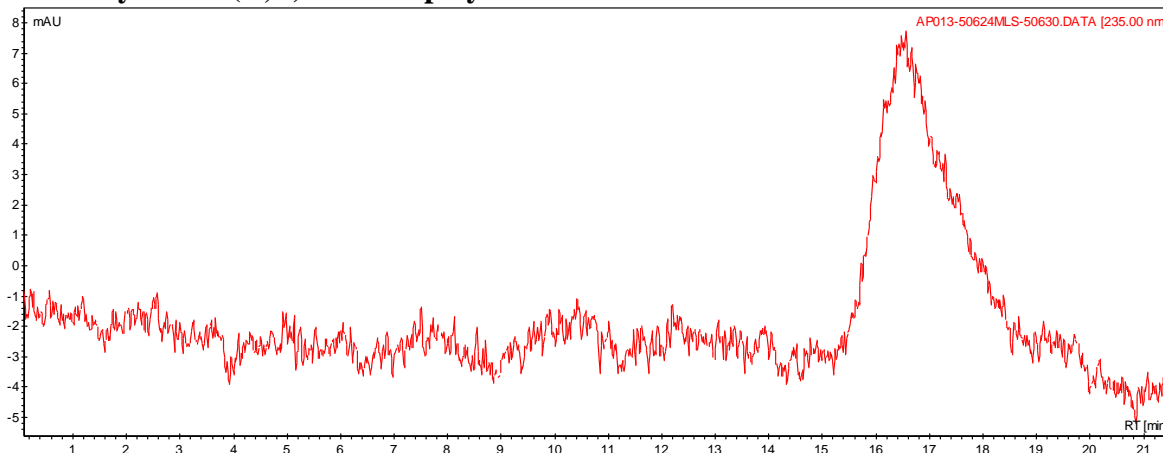
H-NMR Spectrum of PLCL copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of PLCL copolymers: LA/CL = 77%/23% mole ratio (68%/32% w/w)

## FTIR



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

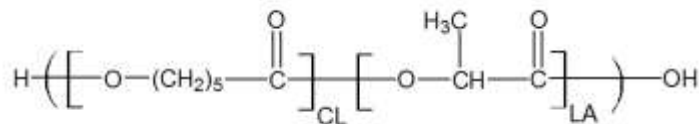
- **GPC analysis of P(D,L)LaCL copolymers**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 um columns and one Resipore column (Agilent) and with UV-Vis (PDA) detection. Calibrated against polystyrene standards

Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
P(D,L)LaCL	100,134	144,282	1.44

- **Structure of P(D,L)LaCL copolymers**



Material provided for research use only. Not for human use.