

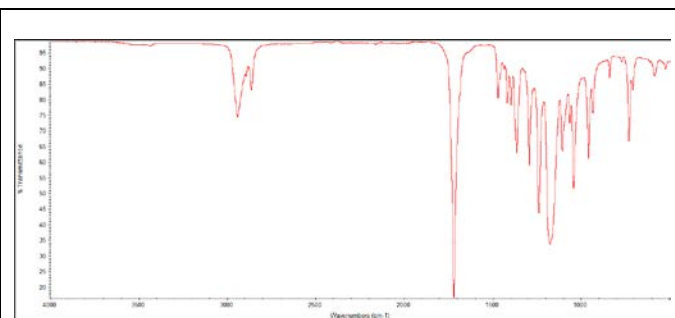
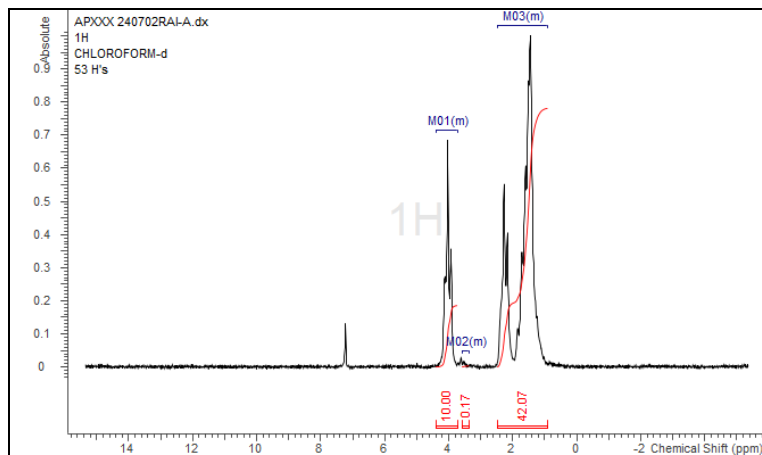
No. AP319

Certificate of Analysis



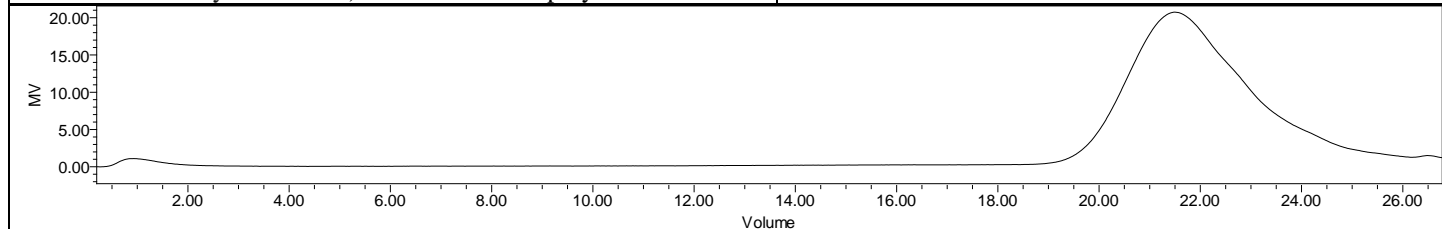
Product Name: Poly(caprolactone) copolymer acid endcap (Mn: 5,000- 10,000 Da)

(Lot#: 240702RAI-A)



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

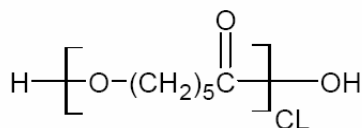
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PCL Copolymer



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
PCL	5661	9093	1.61

- Structure of PCL copolymers



Approved By:
Amie Tyler
Quality Manager