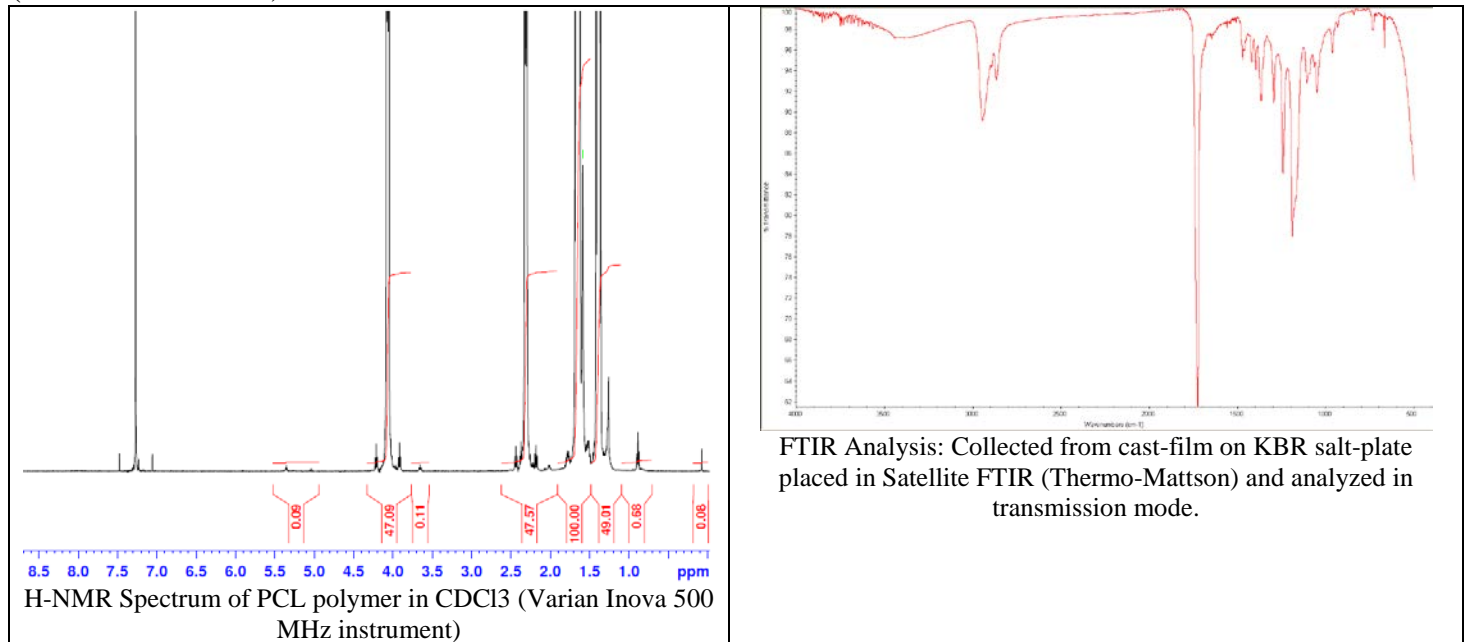


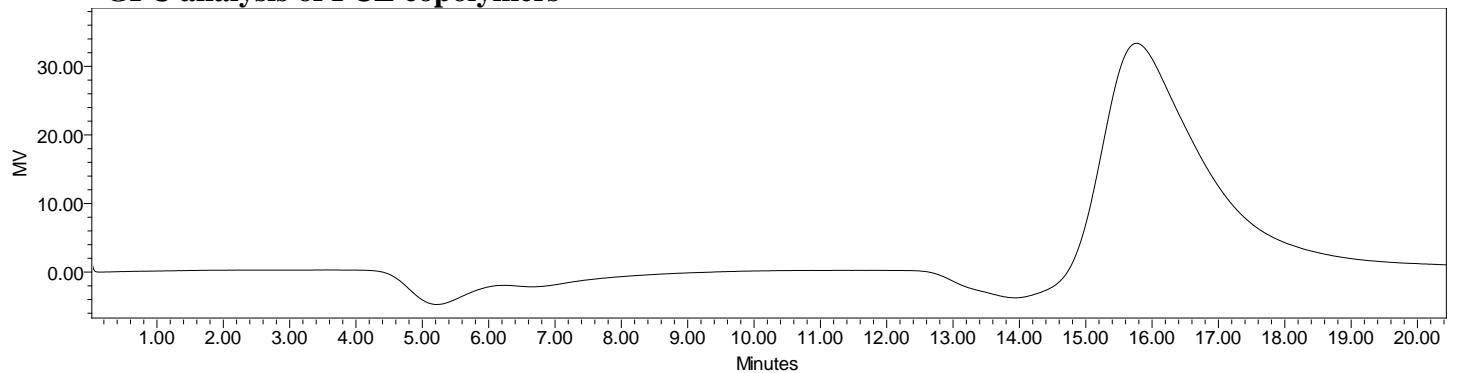
No. AP011 Certificate of Analysis

Product Name: Poly(caprolactone) copolymers free-acid endcap (Mn: 65,000 - 75,000 Da)

(Lot#: 70216STR-A)



- GPC analysis of PCL copolymers**



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
PLGA	68,292	97,235	1.42

- Structure of PCL copolymers**

