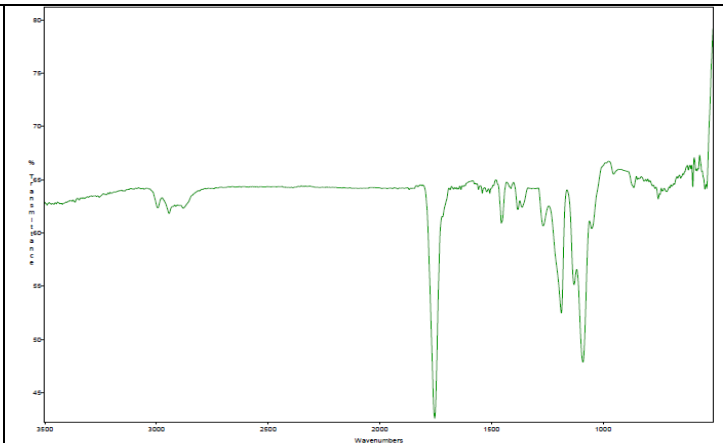
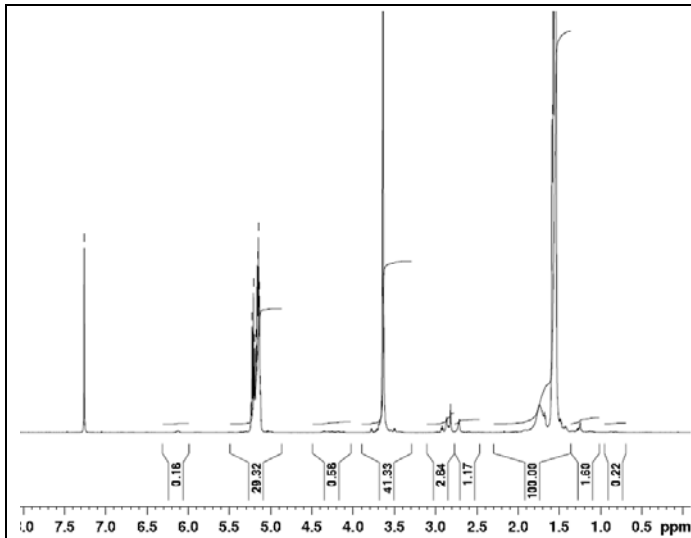


No. AI31 Certificate of Analysis

Product Name: Poly((D,L)lactide)-*b*-Poly(ethylene glycol)- carbonyl-n-hydroxysuccinimide copolymers (~16,000:5000Da) (Lot#: 30813JSG)

HNMR

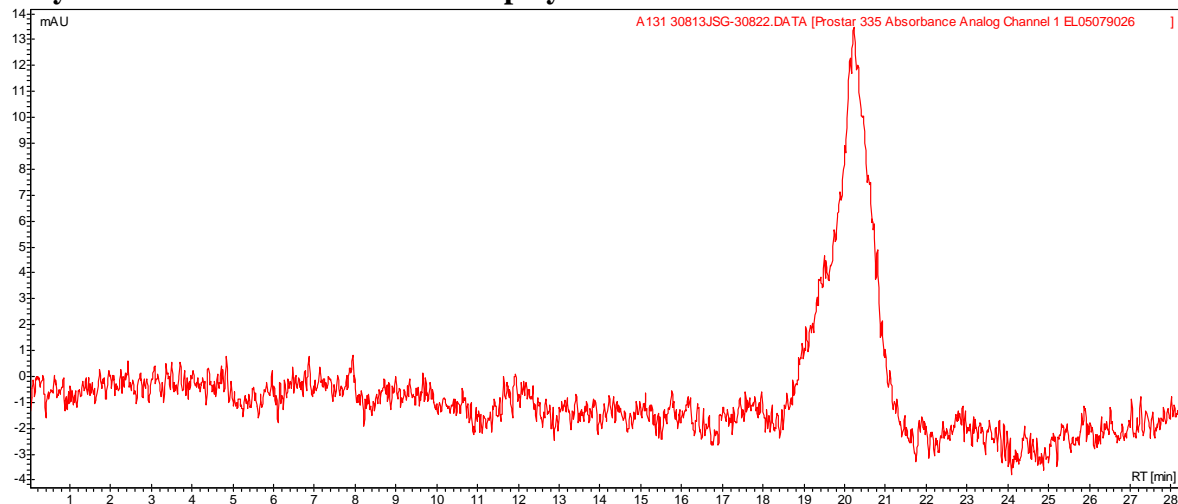
FTIR



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

H-NMR Spectrum of PDLLA-PEG-CO-NHS copolymers in CDCl₃ (Varian Inova 500 MHz instrument), NMR of P(DL)LA-PEG-CO-NHS repeat units: EG-LA = 110*-308 (NMR Mn 4846*-22163 Da)

- GPC analysis of PDLLA-PEG-CO-NHS copolymers**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across one PLGel Mixed-D column and one PLGel Mixed-E column and one phenogel 5u column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

| Polymer | Mn (from GPC) | Mw (from GPC) | PDI |
|--------------------|------------------------|---------------|-------|
| P(DL)LA-PEG-CO-NHS | 21114 | 26271 | 1.24 |
| HO-PEG-COOH | Mp - 4847 per MFG COA* | | 1.02* |

* - These values based on MFG provided COA for the PEG initiator portion.

- Structure of PDLLA-PEG-CO-NHS copolymers**

