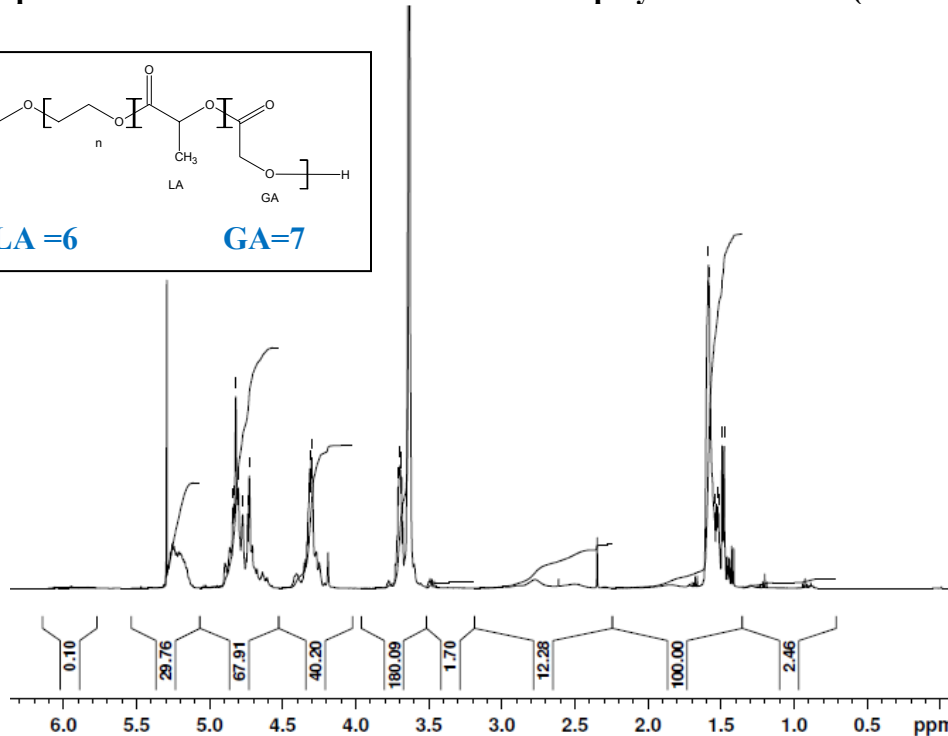
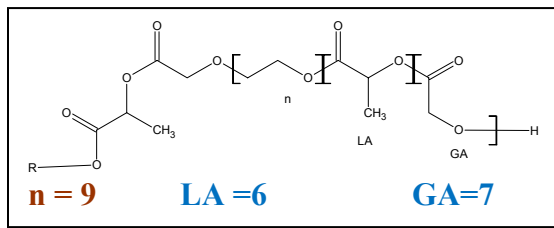


No. 14

Certificate of Analysis

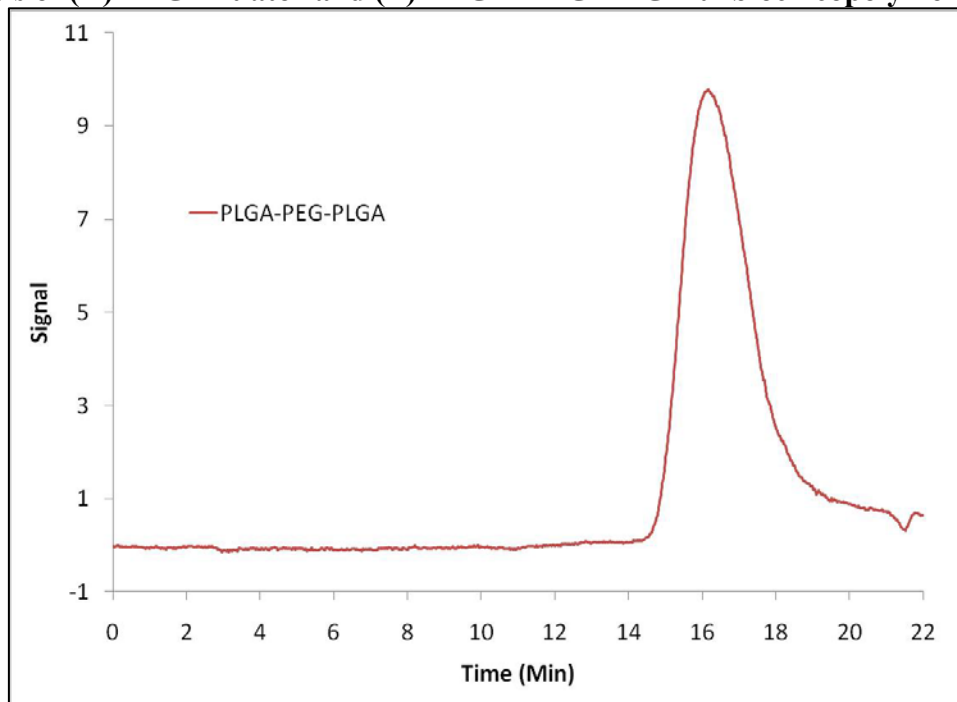
Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers

- ¹H-NMR Spectrum of PLGA-PEG-PLGA triblock copolymer in CDCl₃ (Varian Inova 500 MHz)



M_n, NMR of PEG-PLA/PGA copolymers : 400-429/395

- GPC analysis of (A) PEG initiator and (B) PLGA-PEG-PLGA triblock copolymers



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Resipore 3 um columns (Varian) and PDA detector. Calibrated against polystyrene standards

| Polymer | M _n (from GPC) | M _w (from GPC) | PDI |
|---------------------|---------------------------|---------------------------|------|
| PEG(400) Initiator* | 325 | 350 | 1.08 |
| AK14 | 1269 | 2374 | 1.87 |

*Agilent 1100 system with 1 ml/min THF flow across three PLgel 5 um MIXED-D and -E columns (Agilent) and RI detector. Graphical comparison not shown due to different system.