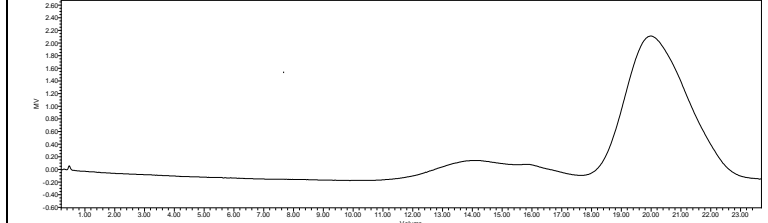
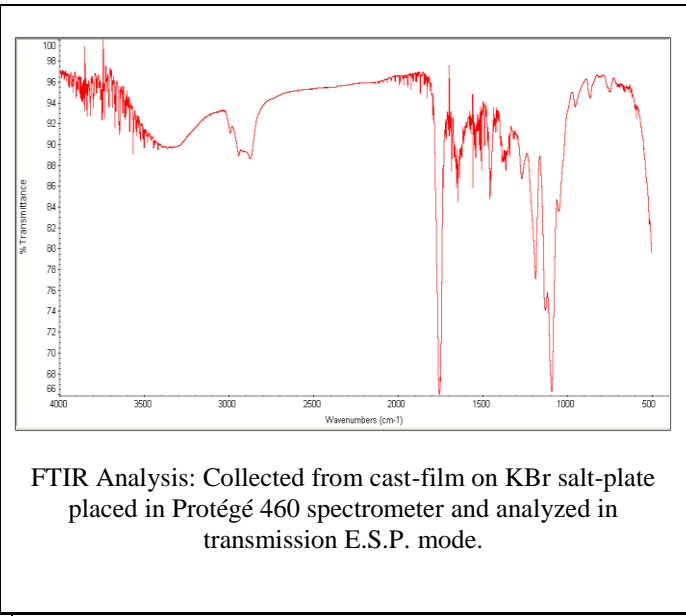
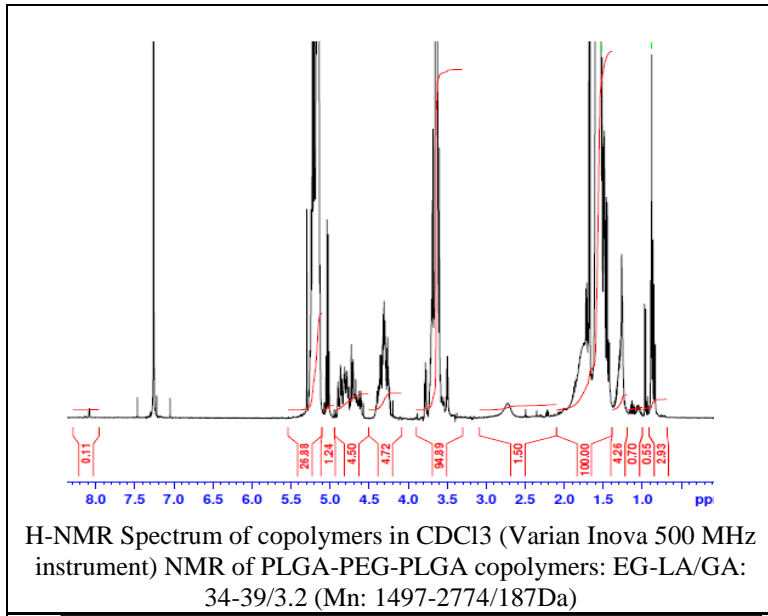


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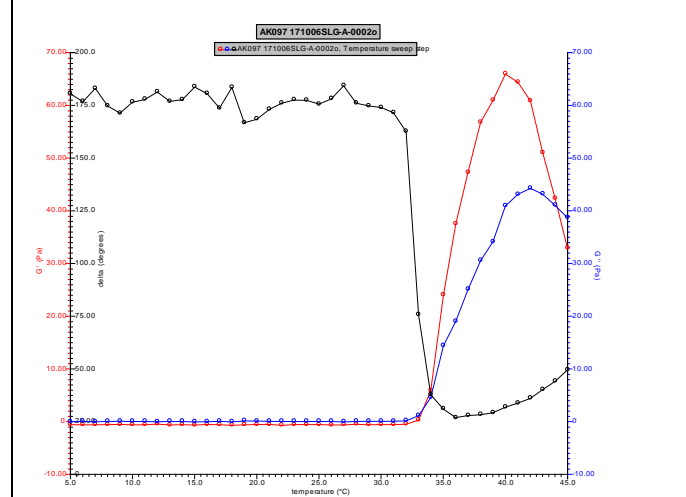
Certificate of Analysis



Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (15:1 LA:GA, 1,700-1,500-1,700 Da) (Lot# 171006SLG-A)



GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.



Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over 3 days with stirring at 4°C. Viscosity of solution at 0.1 (sec⁻¹) and 5°C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 1°C ranging from 5-45°C with 1 minutes of temperature equilibration at each point.

| | |
|-----------------------------------|-------------------|
| Viscosity 20% w/v solution at 5°C | 5.949 mPas |
|-----------------------------------|-------------------|

| Polymer | M _n (from GPC) | M _w (from GPC) | PDI |
|---------------|---------------------------|---------------------------|------|
| PLGA-PEG-PLGA | 5564 | 7159 | 1.29 |
| PEG Precursor | | 1484* | |

*- from MFG data

Structure of PLGA-PEG-PLGA triblock copolymers

