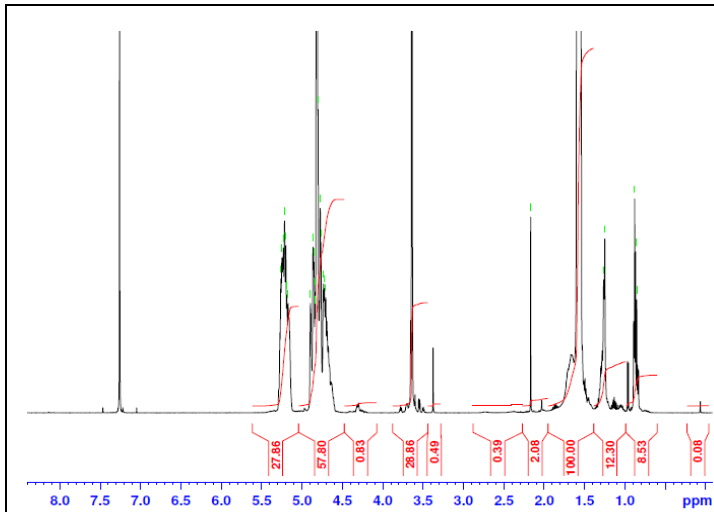
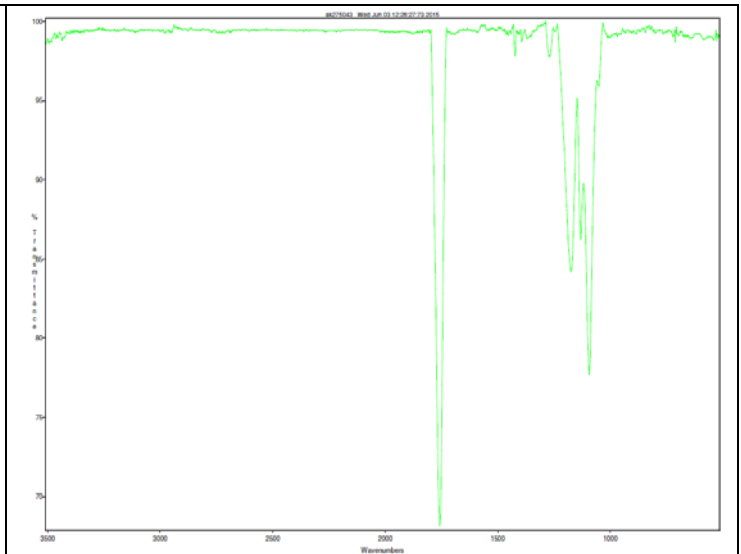


No. AK104 Certificate of Analysis

Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide)
 ($M_w \sim 2,000:20,000$ Da, 1:1 LA:GA) (Lot#: 50430BAK-D)

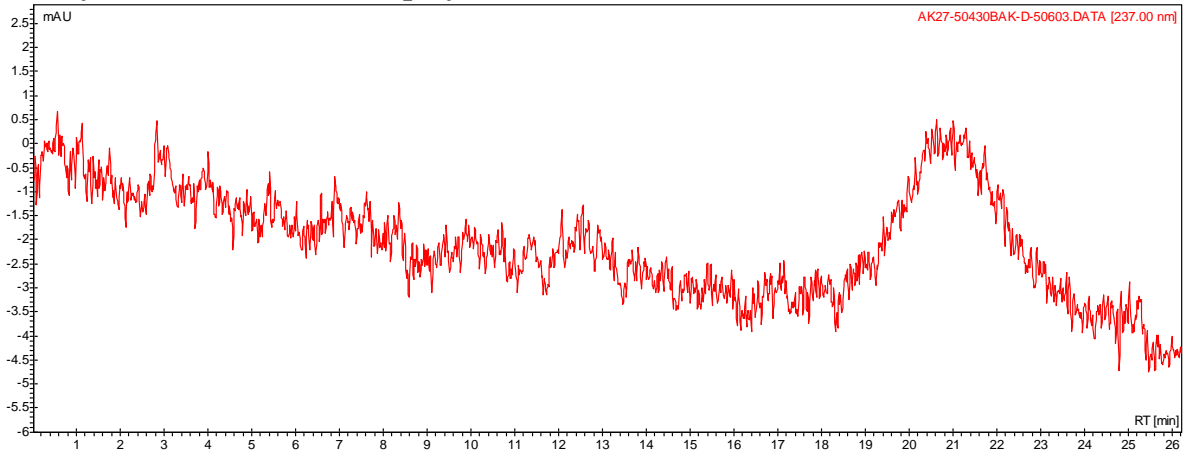


$^1\text{H-NMR}$ Spectrum of mPEG-PLGA copolymer in CDCl_3 (Varian Inova 500 MHz instrument), NMR of mPEG-PLGA repeat units:
 EG-LA/GA = 46%-178/184 $M_N = 2,026^*-12,789/10,694$
 LA/GA ratio: 54%/46%



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

- GPC analysis of mPEG-PLGA copolymers**

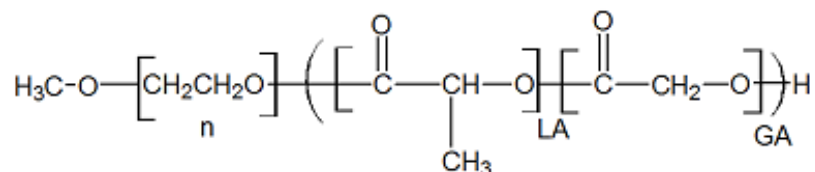


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two $5\mu\text{m}$ Phenogel columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
mPEG-PLGA	11,065	23,911	2.16
mPEG2000 initiator*	2,468	2,511	1.02

*calibrated against PEG standards

- Structure of mPEG-PLGA copolymers**



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