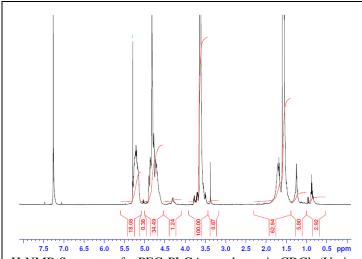
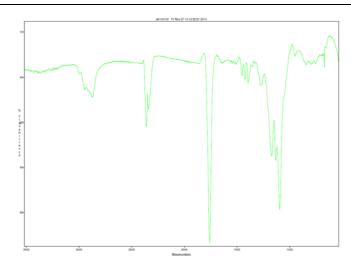
## No. AK10 Certificate of Analysis



Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly(D,L-lactic-co-glycolic) acid copolymer (M<sub>w</sub> 5,000:10,000 Da, 1:1 LA:GA) (Lot#: 41030SJH)

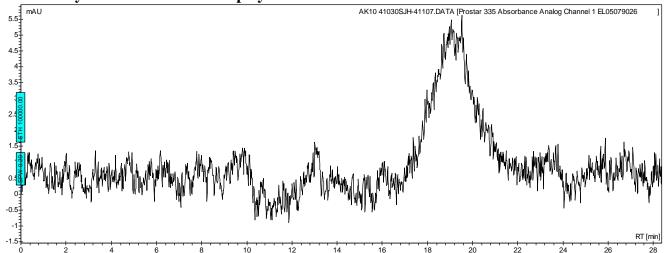


H-NMR Spectrum of mPEG-PLGA copolymer in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of mPEG-PLGA repeat units: EG-LA/GA = 115-83/79 M<sub>N</sub> = 5,066\*-5,988/4,604, LA/GA ratio = 57%/43% (\*-MFG provided data)



FTIR analysis Collected from cast-film on 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 5µm Phenogel columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
mPEG-PLGA	15,849	23,630	1.49
mPEG5000 initiator*	5,301	5,372	1.01

<sup>\*</sup>calibrated against PEG standards

## • Structure of mPEG-PLGA copolymers

$$H_3C-O-CH_2CH_2O-CH_2O-CH_3CH_3C-O-CH_2O-CH_3CH_3C-O-CH_3CH_3C-O-CH_3CH_3C-O-CH_3CH_3C-O-CH_$$

Material provided for research use only. Not for human use.