## No. AK097

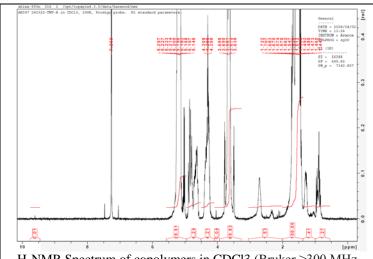
## Certificate of Analysis



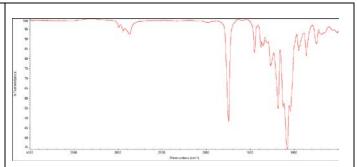
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-b-

Poly(lactide-co-glycolide) 1700-1500-1700Da (LA:GA 15:1 (94%/6% LA/GA) (w:w))

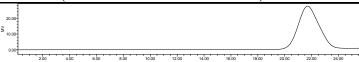
Lot #240322TMT-A



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-PLGA copolymer: EG/LA-GA =33\*/42:3 (Mn EG/LA:GA 1454\*/3016:181 Da) \*`from MFG data



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

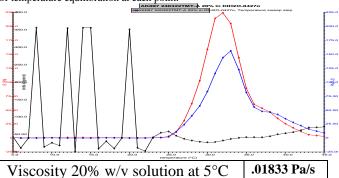


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M <sub>n</sub> (from	M <sub>w</sub> (from	PDI
	GPC)	GPC)	
PLGA-PEG- PLGA	5733	7421	1.29
PEG precursor*	Mn = 1472 Da		

<sup>\*-</sup> from MFG data

Rheology performed on AR2000 (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<sup>-1</sup>) 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.



## • Structure of PLGA-PEG-PLGA

Approved By:

Amie Tyler

Quality Manager