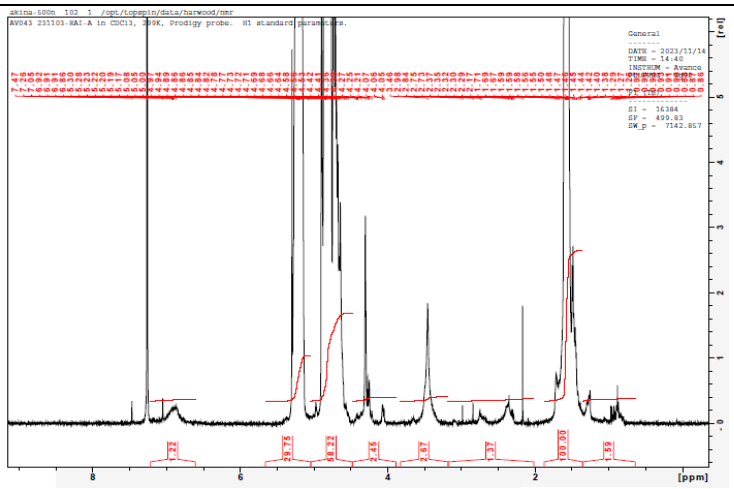
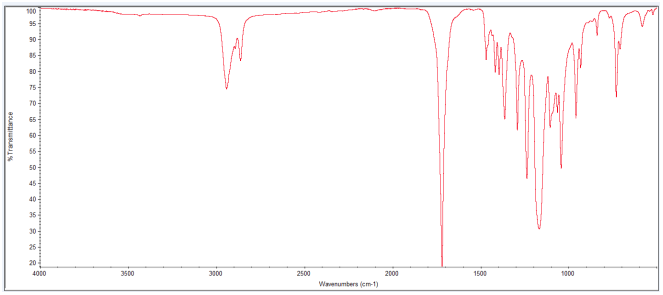
No. AV043 Certificate of Analysis

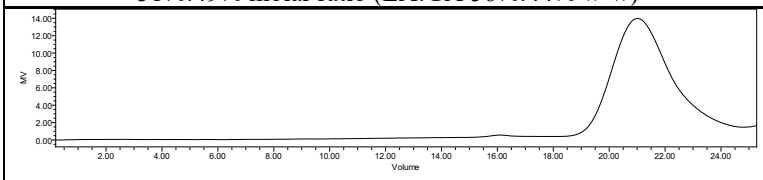
Product Name: Poly(lactide-co-glycolide) – 800CW copolymer (Mn: 10,000-15,000 Da) (Lot# 231103RAI-A)



H-NMR Spectrum of copolymers in CDCl3 (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA-800CW Copolymer: LA:GA 51%:49% molar ratio (LA:GA 56%:44% w-w)

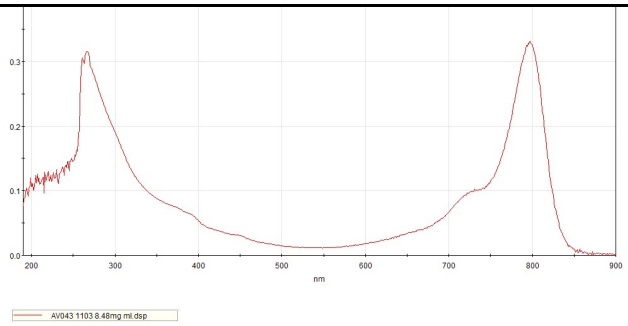


FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



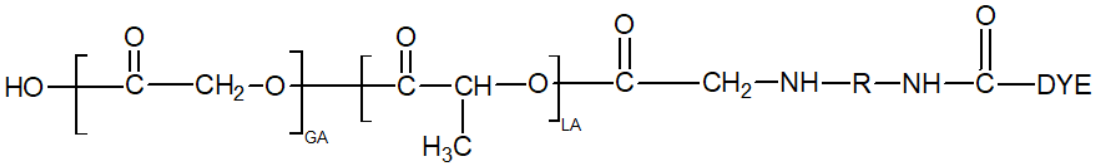
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-800CW	10,068	13,672	1.36



Dye Content: Absorbance (8.48mg/mL) w/v sample in DMSO against DMSO blank at indicated wavelengths.Testing of absorbance of polymer in DMSO solution at 797nm as compared to series of 800CW-NHS ester standards has indicated a dye content of: 0.177 µg/mg polymer.

- **Structure of PLGA-800CW copolymer**



"R" – ethylene bridge
"DYE" – 800CW reacted ester (LiCor, P/N: 929-70020, $C_{50}H_{54}N_3Na_3O_{17}S_4$)

Approved By:
Amie Tyler
Quality Manager