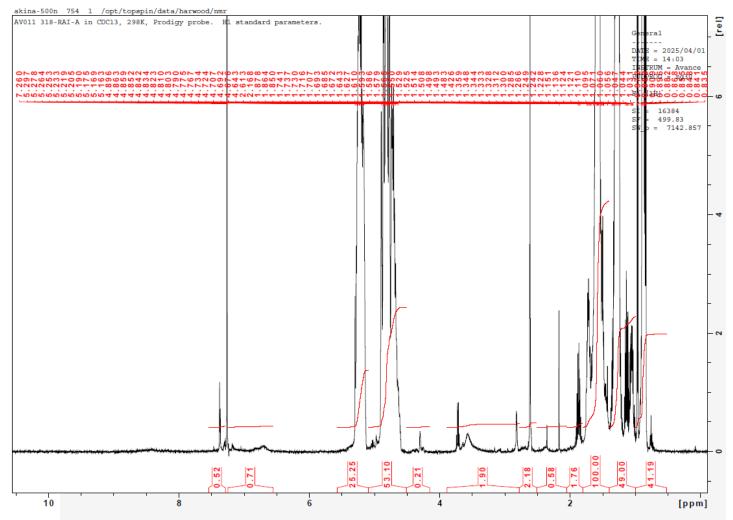


No. AV011 Certificate of Analysis

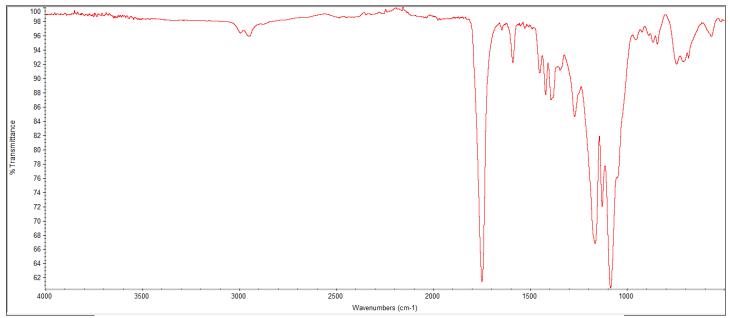
Product Name: Poly(lactic-co-glycolic acid) copolymer-Rhodamine-B conjugate (M_n 10,000 - 30,000 Da) LA:GA 50:50 (Lot#: 250318RAI-A)

H-NMR



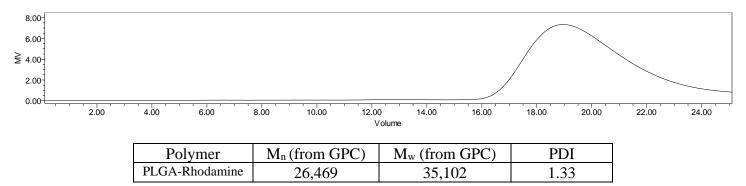
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =49%-51% molar ratio (LA:GA 54%:46% w:w)

FTIR



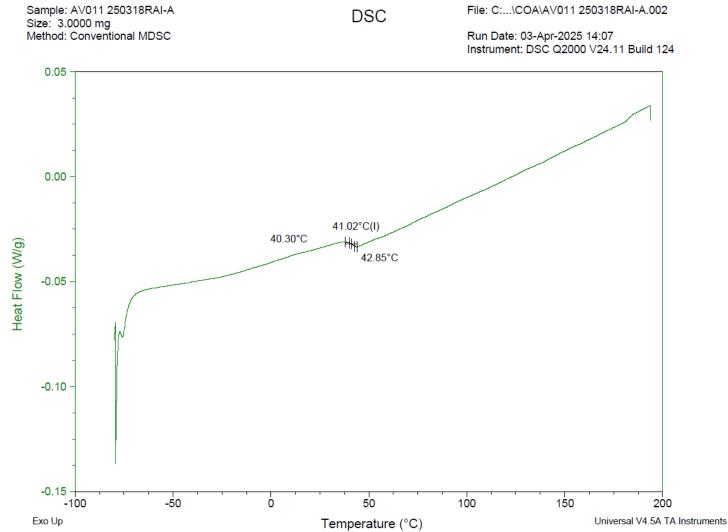
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

GPC-ES



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.

DSC

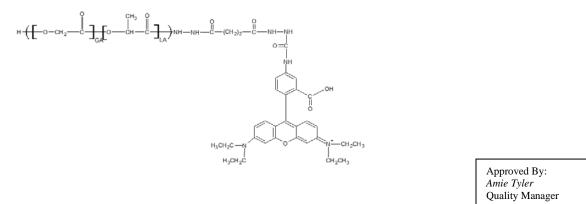


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 41.02 °C

IV

Inherent Viscosity: $0.189 \pm 0.009 \text{ dL/g}$ (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



PolySciTech Division of Akina, Inc. | 3495 Kent Avenue, West Lafayette, IN 47906 765-464-0390 | www.polyscitech.com For research use only.