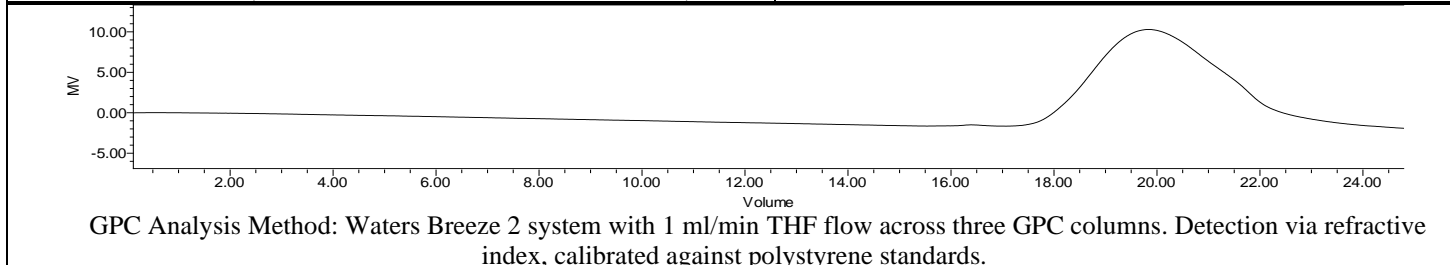
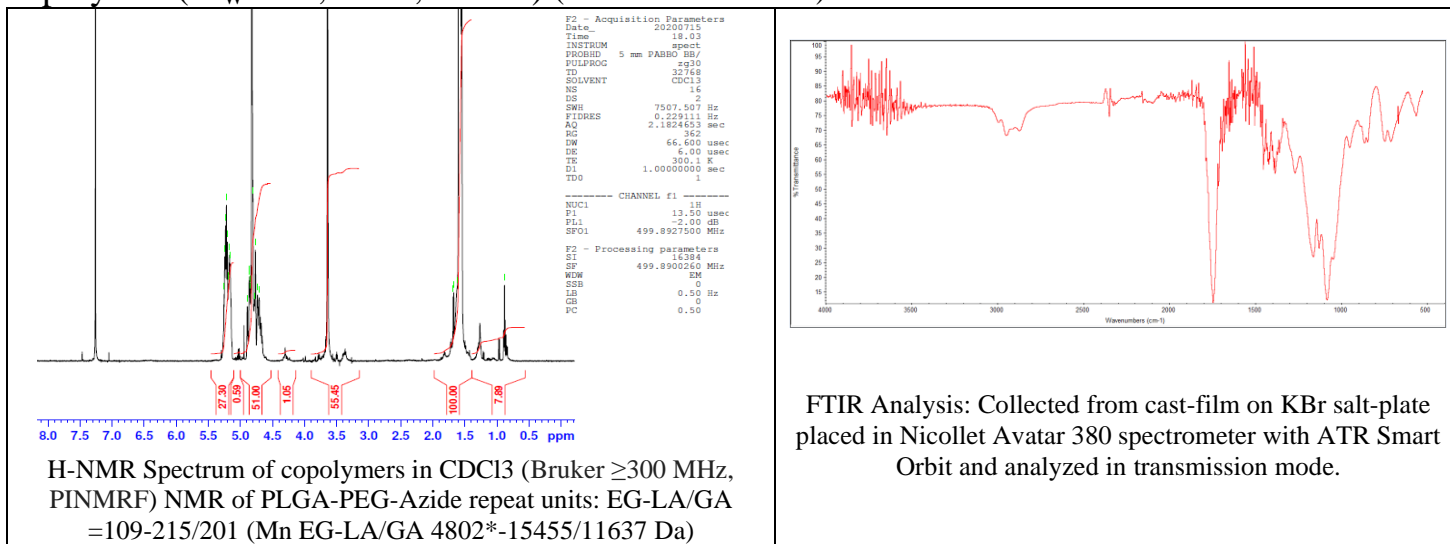


No. AI091

Certificate of Analysis

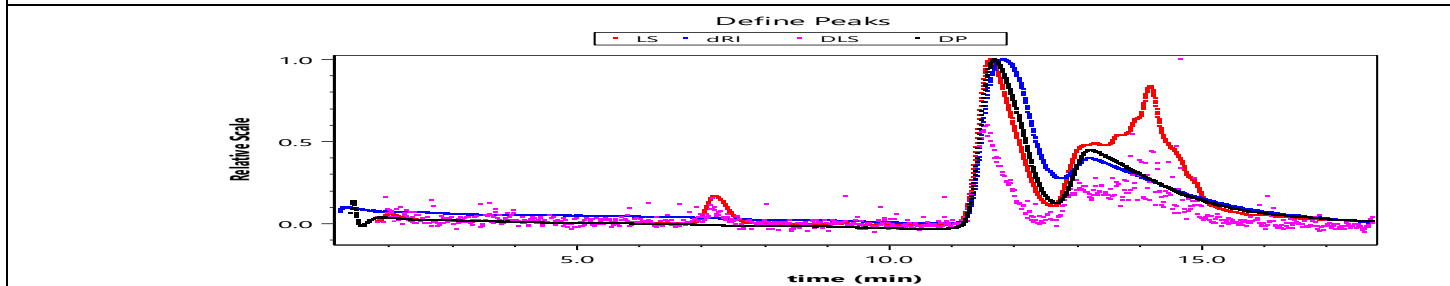


Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-Azide copolymer ($M_W \sim 30,000-5,000$ Da) (Lot #200622RAI-B)



Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-Azide	25,941	35,179	1.36
PEG-Precursor		4800*	

* - from MFG data



GPC-4D Analysis Method: Agilent 1260 Infinity II system 0.6 ml/min Acetone flow across TSKgel GMHHR-L, 7.8 mm x 30 cm. Detection Dawn Heleos II (MALLS), Optilab T-rex (RI), Dynapro nanostar (DLS), and Viscostar III (viscosity), universal calibration (Wyatt).

Polymer	M_n (from GPC-4D)	M_p (from GPC-4D)	M_w (from GPC-4D)	Radius (r(avg), nm)	Intrinsic viscosity ([η](avg), mL/g)
PLGA-PEG-Azide	16,882	19,849	20,175	4.3	20.673

* - Due to differences in methodology, Results from GPC-4D universal calibration will be different from those obtained from GPC-ES. The data from GPC-4D analysis is provided for customer information only.

Structure of PLGA-PEG-Azide copolymers

