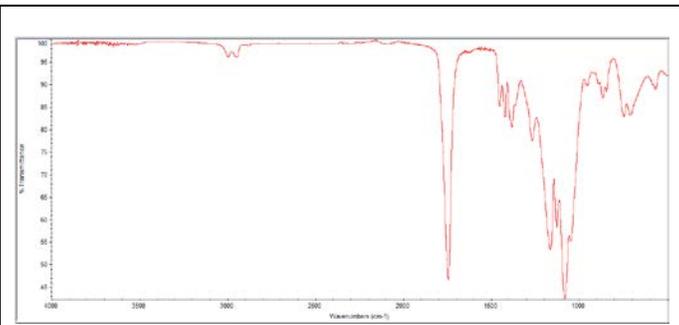
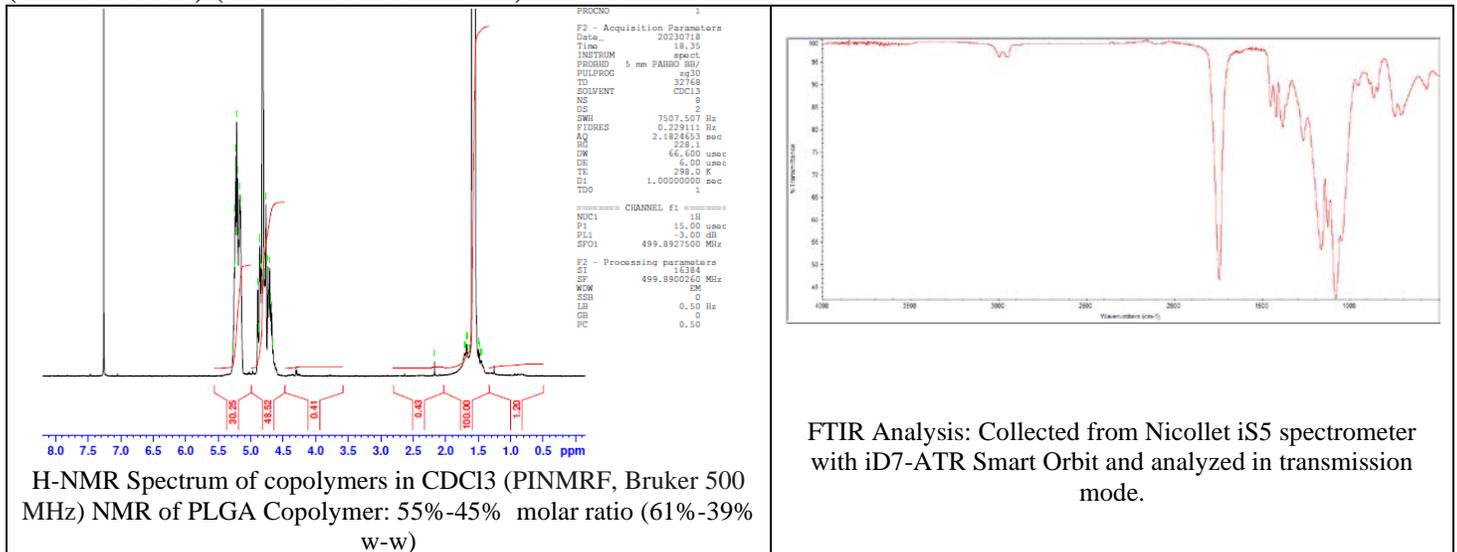


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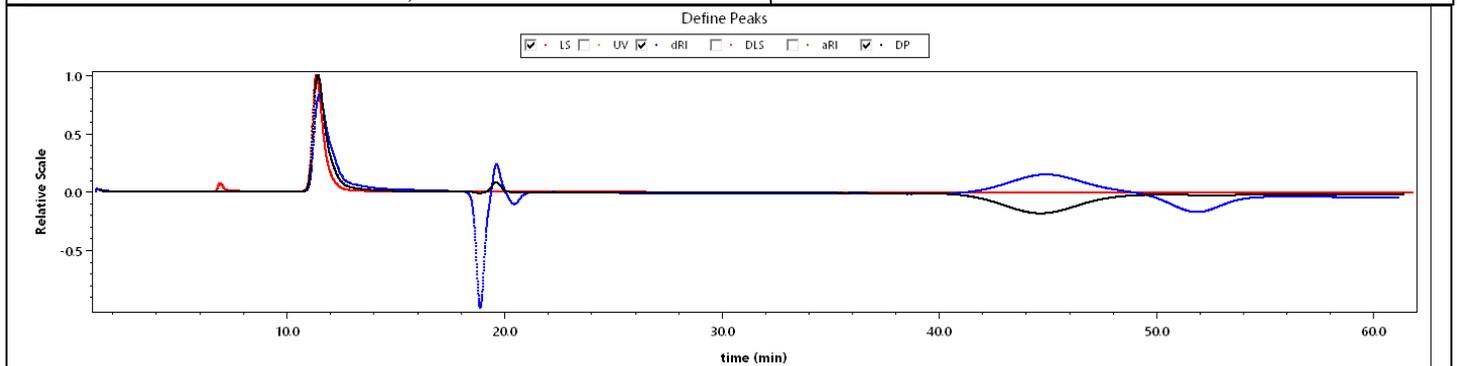
Certificate of Analysis



Product Name: Poly(Lactide-co-glycolide) I.V. 0.4 - 0.6 dL/g, LG 55:45, acid endcap (PDLG 5505G) (Lot # 210616CBP-673)



FTIR Analysis: Collected from Nicolet iS5 spectrometer with iD7-ATR Smart Orbit and analyzed in transmission mode.



GPC-4D Analysis Method: Agilent 1260 Infinity II HPLC 4-detectors (Dawn Heleos II (MALLS), Dynapro Nanostar DLS, Optilab T-rEX (RI detector), Viscostar III viscometer, Wyatt) Linear gradient column (Tosoh Bioscience LLC, TSKgel GMHHR-L, 7.8 mm x 30 cm) at 0.6 ml/min flow of Acetone. Astra processing parameters used to determine branching units per molecule; Method: viscosity, Model: star, Slice: monodisperse, Drainage Parameter e: 0.750.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI	BU (At Mn)	BU (At Mw)
PLGA	28,321	41,694	1.47	2.17	2.34

Manufacturer Provided Data



Assay	Specification	Result
Total Acid Number ¹	<3.5 mg KOH/g	2.9 mg/g
Tin content	<50 ppm	37 ppm
Water content	<0.50%	0.09%
Residual monomer, DL Lactide	<0.50%	0.09%
Residual monomer, Glycolide	<0.50%	<0.04%
Inherent Viscosity ²	0.40-0.60 dL/g	0.45
T _g , second run	42.0-52.0 °C	48.0 °C
Endotoxin	<6 EU/g	<0.25 EU/g
Solvent	<0.50%	0.05 %

1 – Measured by titration

2 – Measured at 25 °C in Chloroform c=0.5 g/dL

Approved By:
Amie Tyler
Quality Manager