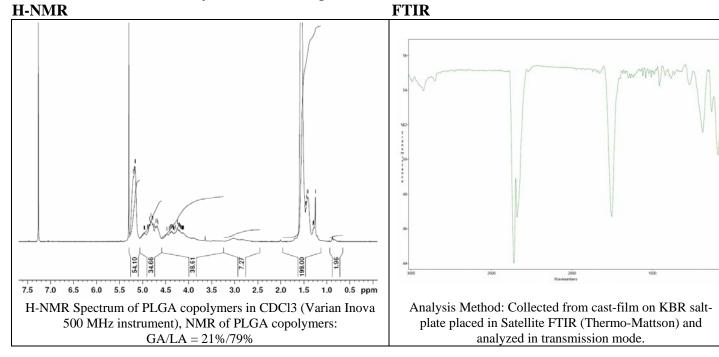
## No. AP90 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic) acid-citric acid-3-arm- sodium salt endcap (80:20

LA:GA; inherent viscosity- 0.05-0.15 dl/g in DCM) (Lot#: 30607JSG)



## Inherent Viscosity (IV) of Poly(lactic-co-glycolic) acid 3 arm COONa<sup>+</sup>

Analysis Method: testing performed with a Cannon-Manning Ubbelhode type Semi-Micro calibrated viscometer (size 50 No C286). Sample was 3 x 1.0 ml of 2% w/v Poly(lactic-co-glycolic) acid 3 arm COONa<sup>+</sup> in DCM tested at 30°C. Each sample IV determined in triplicate. Values shown are mean ± standard deviation (N=3).

Sample	Inherent Viscosity
AP90 – 30°C in dichloromethane	$0.09 \pm 0.01$

• Water solubility- 1% w/v aqueous solution pictured below



• Structure of PLGA 3 arm copolymers