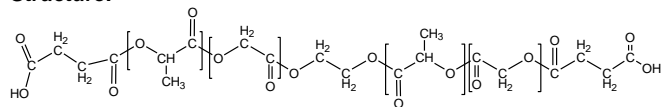Sample Name: α−ω −dicarboxylic ended polylactide glycolide random copolymer

Sample #: **P20084-LAGL2COOH**
(Lactide DL-Form)

LA:GL ratio 70:30

Structure:

Composition:

Mn x 10^3	PDI
3.8 From (^{H} NMR)	1.17
LA:GL ratio	70:30
Functionality COOH	> 99%

Synthesis Procedure:
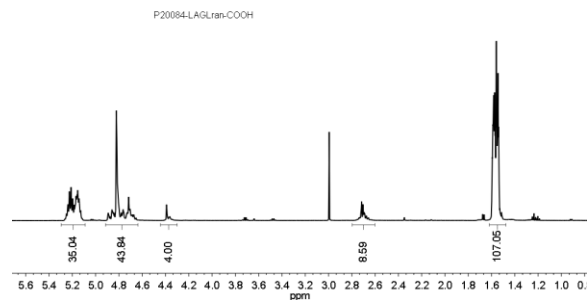Using diethylene glycol initiator and Tin octoate as catalyst

Characterization:

The Mn is calculated from NMR and Mw/Mn index (PDI) are obtained by size exclusion chromatography carried out in THF /CHCl3 using Supelco columns G6000HXL, G4000HXL and G2000 HXL .
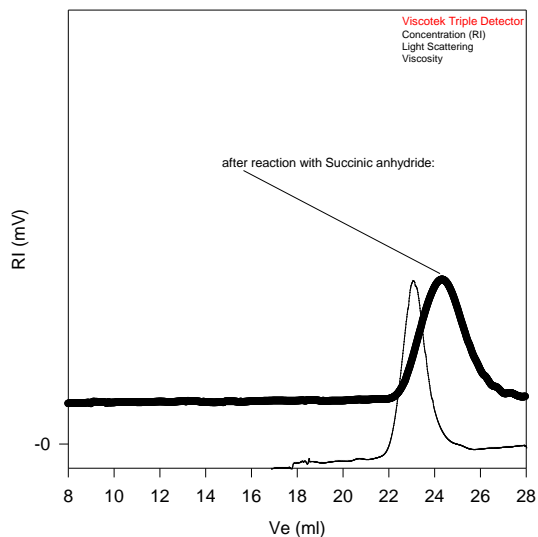
Solubility:
Polymer is soluble in CHCL3, CH2Cl2, THF containing traces amount of CHCl3.

NMR of polymer

Size Exclusion Chromatography of random copolymer of Before and after end functionalization with Succinic anhydride

——— M_n = 3,800, M_w = 4,500, M_w/M_n = 1.17

SEC elution of the functionalized polymer retarded in our set of columns. This may be due to strong interaction of the end functional groups of polymer chains with the packing material of the columns.