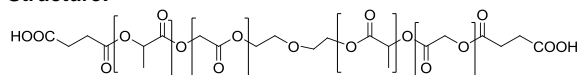


**Sample Name:**  $\alpha,\omega$ -dicarboxy terminated random copolymer of D,L-lactide and glycolide

**Sample #:** P20102B-LAGL2COOH

DLA:GLA ratio 90:12

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
4200 (NMR)	1.2
LA:GL ratio	90:12
COOH Functionality	$\geq 98\%$

**Synthetic Procedure:**

PDLA-co-PGLA was prepared using diethylene glycol as an initiator and tin octoate as a catalyst. Carboxylic functionality was introduced by interaction with succinic anhydride.

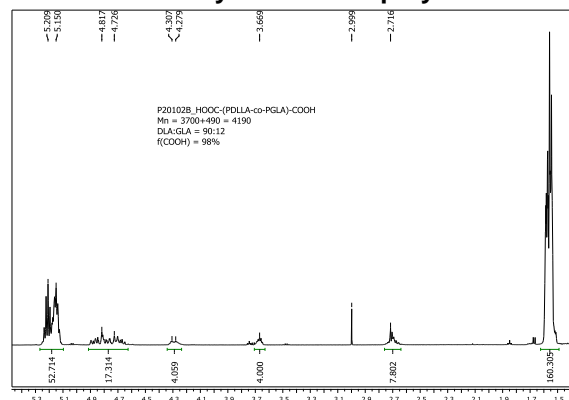
**Characterization:**

The  $M_n$  is calculated from NMR and polydispersity (PDI) was obtained by size exclusion chromatography carried out in THF using Supelco columns G6000HXL, G4000HXL and G2000 HXL.

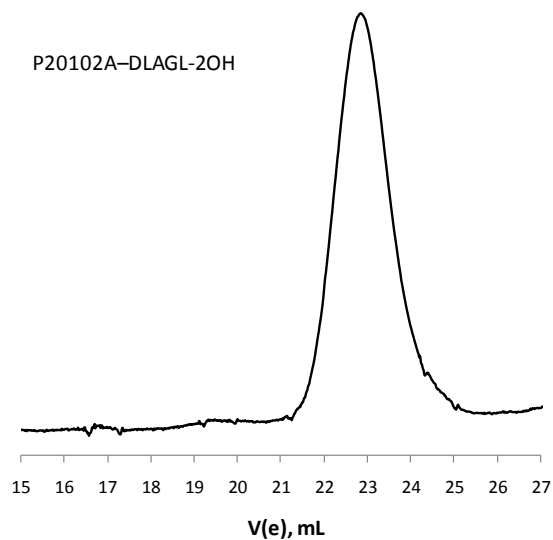
**Solubility:**

Polymer is soluble in  $\text{CHCl}_3$ ,  $\text{CH}_2\text{Cl}_2$ , THF. Precipitates from diethyl ether and hexanes.

**NMR of dicarboxy terminated polymer**



**SEC of prepolymer:**



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