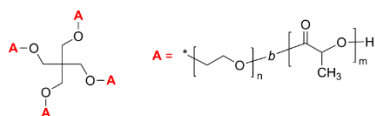


Sample Name:

**Poly(ethylene oxide)-*b*-poly(lactide), 4-arm  
block star / Core: pentaerythritol**

Sample #: **P3928-4EOLA**

**Structure:**



**Composition:**

$M_n \times 10^3$ (g/mol) of each PEO- <i>b</i> -PLA(D form)	$M_w/M_n$
0.2- <i>b</i> -2.0	1.08

**Synthesis procedure:**

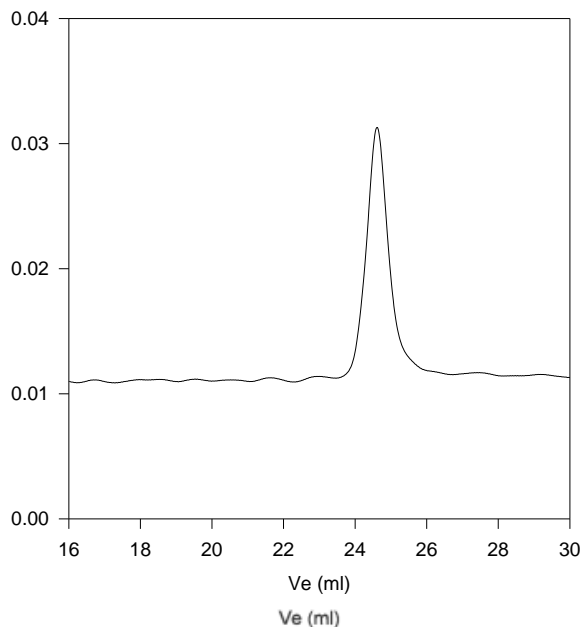
The polymer was prepared by ring opening polymerization of LA (D form) using Tin octoate catalyst.

**Characterization:**

The molecular weight of the polymer was calculated by  $^1\text{H-NMR}$  spectroscopy by comparing the integration of protons assigned to core (~3.6 ppm) and to LA. Polydispersity index ( $M_w/M_n$ ) was determined by size exclusion chromatography (SEC) on Varian liquid chromatograph equipped with triple detector, Supelco columns, and using THF (cont. 2 vol%  $\text{Et}_3\text{N}$ ) as an eluent.

**SEC profile of the Sample:**

**P3928-4EOLA**



Size Exclusion Chromatogram of Four-Arm Poly(lactide d form)  
( core based on pentaerythritol) Mn of 797

P3928-4EOLA:  $M_n=8800$ ,  $M_w=9500$ ,  $M_w/M_n=1.08$

Core Pentaerythritol Mn 797

MN of each branch: P(EO)200-*b*-LA(2000)