

## Product Profile

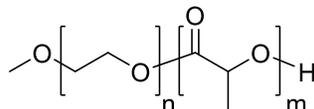
### Identification

**Product Name:** Poly(ethylene oxide-b-lactide)

**Product Lot Number:** P6534-R-EOLA

**CAS #:** Not Available

**Product Chemical Architecture:**



**Composition:**

<b>Composition (EO-b-LA)</b>	10,000-b-1,000
<b>EO mole%</b>	7
<b>Mw (g/mole)</b>	12,000
<b>Mw/Mn</b>	1.04
<b>dn/dc (mL/g) in THF at 30 °C</b>	0.060

### Method of Synthesis

The polymer is synthesized by anionic polymerization and coordination polymerization processes.

**Solubility in different solvents:**

<b>THF</b>	√	<b>DMF</b>	√
<b>Alcohol</b>	√	<b>CHCl<sub>3</sub></b>	√
<b>Toluene-Hot</b>	√	<b>Water</b>	√

### Validation of Architecture

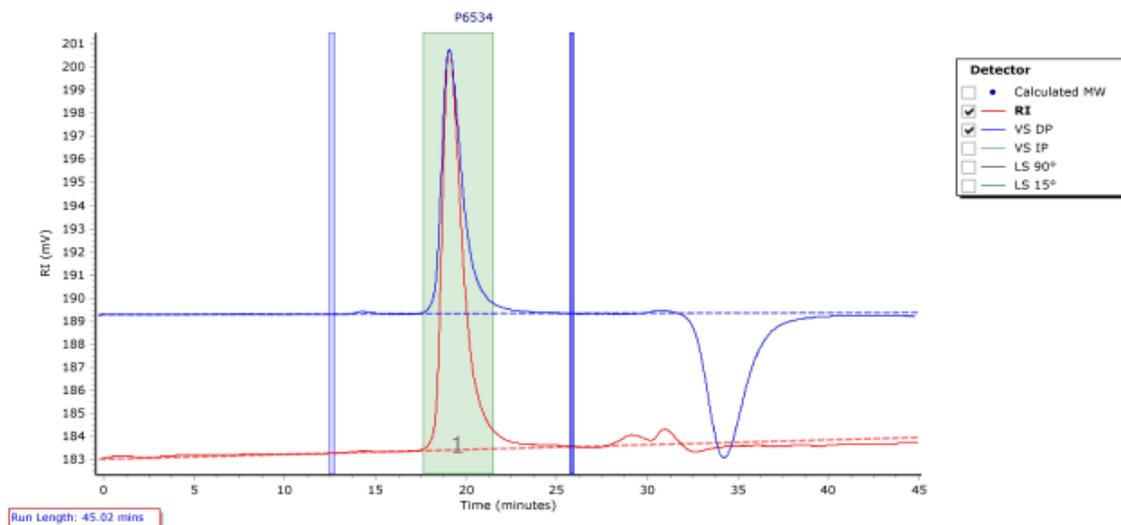
#### A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10<sup>5</sup>-10<sup>6</sup>Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



P6534

Chromatogram Plot

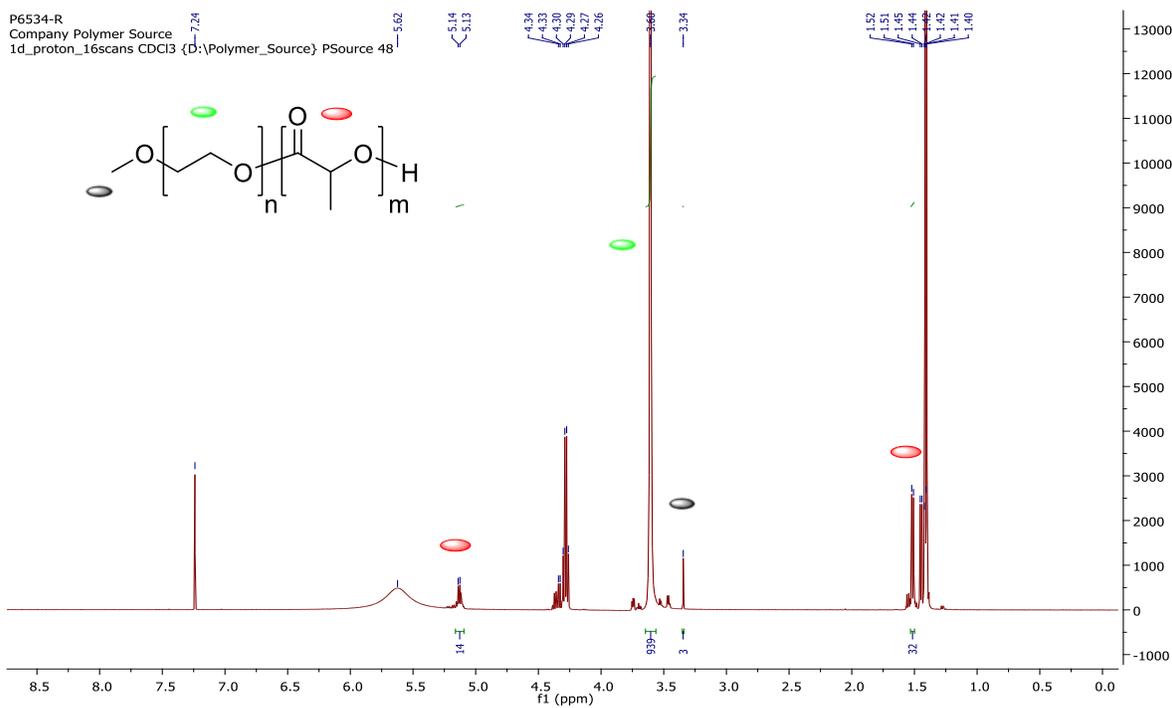


Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	12843	11357	11837	12260	12634	12120	1.042

B. NMR (H<sup>1</sup>NMR) of EOLA

EOLA sample was dissolved in CDCl<sub>3</sub>. <sup>1</sup>H NMR spectra was determined using a 500 MHz, Bruker Avance III spectrometer.



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