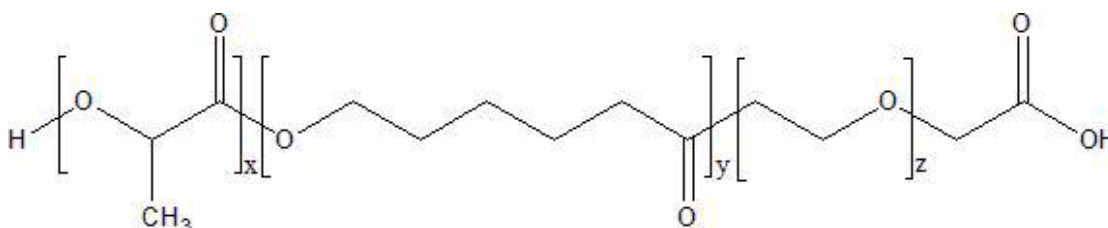


## Certificate of Analysis

### General properties:

Product Name: PLA-PCL-PEG-COOH PLA: PLLA/PDLLA  
 Molecular Weight: PLA MW: 1000/2000/3000/5000/8000/10000/15000/20000 Dalton  
 PCL MW: 1000/2000/3000/5000/8000/10000/15000/20000 Dalton  
 Catalog Number: R-PL2001  
 Lot Number: RO0176321

### Product Structure:



### Product Specifications:

Items	Specification	Results
Appearance	Off-white/brown solid or viscous liquid	Off-white/brown solid or viscous liquid
<sup>1</sup> H NMR	Identical to the structure	Identical to the structure
PDI	<1.6	<1.6
Substitution of COOH by NMR	>90%	>90%

Date of Analysis: 2017.10.11

Recommended Retest date: 2018.10.10

Recommended Storage: -20°C in the dark

Stability: 1 year

**This product is for research use only, Not for human or animal use**