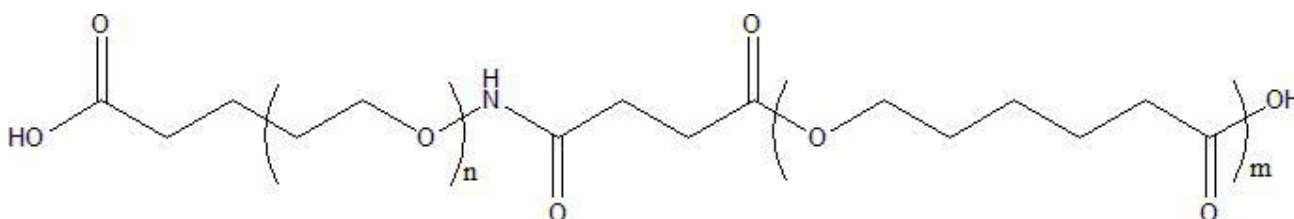


Certificate of Analysis

General properties:

Product Name: PCL-Hyd-PEG-COOH
 Molecular Weight: PEG MW:1000/2000/3400/5000/10000/20000 Dalton
 PCL MW:1000/2000/3000/5000/8000/10000/15000/20000/30000 Dalton
 Catalog Number: R-PL-1306
 Lot Number: RA017526

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	Off-white/brown solid or viscous liquid	Off-white/brown solid or viscous liquid
¹ H NMR	Identical to the Structure	Identical to the Structure
PDI	<1.5	<1.5
Substitution of COOH by NMR	>90%	>90%

Date of Analysis: 2017.09.15

Recommended Retest date: 2018.09.15

Recommended Storage: -20°C, protected from light and moisture

Stability: 1 year

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