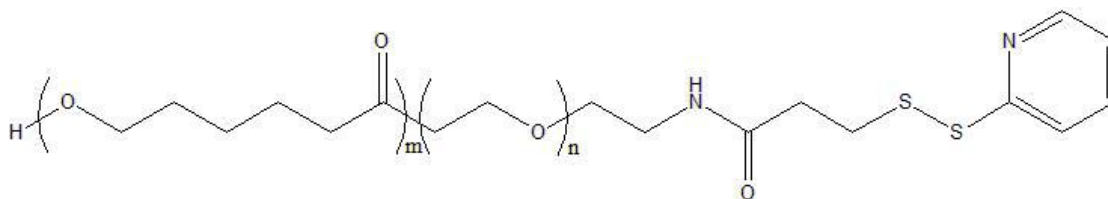


Certificate of Analysis

General properties:

Product Name: PCL-PEG-OPSS
 Molecular Weight: PEG MW:550/750/1000/2000/3400/5000/10000 Dalton
 PCL MW:1000/2000/5000/7000/10000/15000/20000/25000/30000/35000/40000 Dalton
 Catalog Number: R-PL1116
 Lot Number: RA01703269

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	<1.3	<1.3
Substitution of OPSS by NMR	>90%	>90%

Date of Analysis: 2017.08.26

Recommended Retest date: 2018.08.26

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