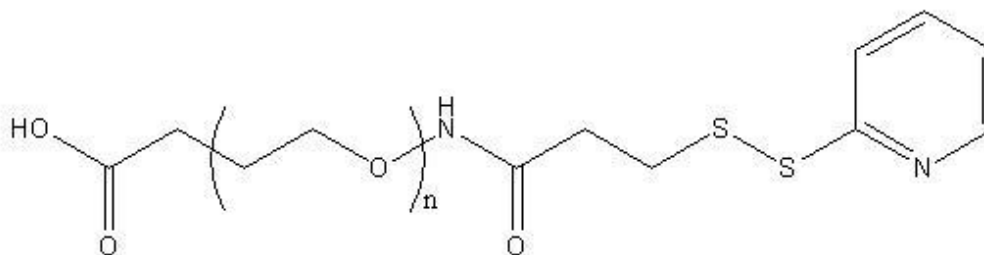


Certificate of Analysis

General properties:

Produ Name: OPSS-PEG-COOH
 Molecular Weight: PEG:750/1000/2000/3400/5000 Dalton
 Catalog Number: R-1905
 Lot Number: WB485072

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	White/Off-white solid or viscous liquid	White/Off-white solid or viscous liquid
¹ H NMR	Identical to the Structure	Identical to the Structure
Substitutin OPSS of by NMR	>90%	>90%
Substitutin COOH of by NMR	>90%	>90%

Date of Analysis: 2017.08.15

Recommended Retest date: 2018.09.14

Recommended Storage: -20°C in the dark

Stability: 12 months

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