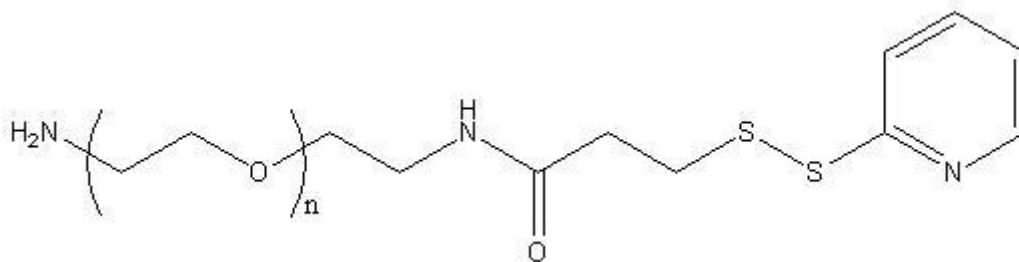


## Certificate of Analysis

### General properties:

Produ Name: OPSS-PEG-NH2  
 Molecular Weight: PEG:750/1000/2000/3400/5000 Dalton  
 Catalog Number: R-1904  
 Lot Number: WA383072

### Product Structure:



### Product Specifications:

Items	Specification	Results
Appearance	White/Off-white solid or viscous liquid	White/Off-white solid or viscous liquid
<sup>1</sup> H NMR	Identical to the Structure	Identical to the Structure
Substitutin OPSS of by NMR	>90%	>90%
Substitutin NH2 of by NMR	>90%	>90%

Date of Analysis: 2017.08.14

Recommended Retest date: 2018.09.13

Recommended Storage: -20°C in the dark

Stability: 12 months

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