



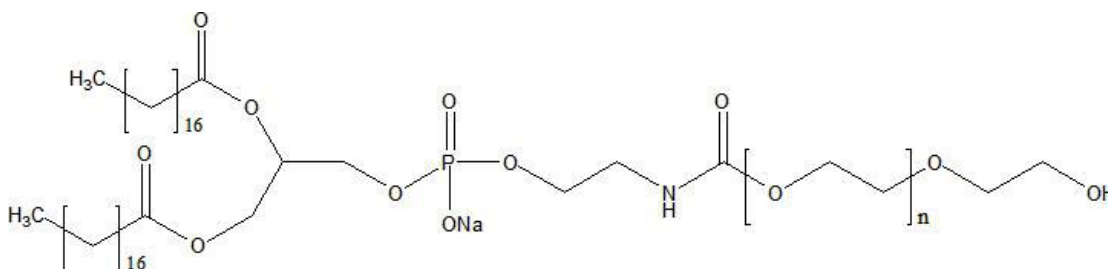
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## Certificate of Analysis

### General properties:

Product Name: DSPE-PEG-OH  
Molecular Weight: PEG MW:750, 1000, 2000, 3400, 5000 Dalton  
Catalog Number: R-0046  
Lot Number: RA271325

### Product Structure:



### Product Specifications:

| Items                       | Specification                  | Results                        |
|-----------------------------|--------------------------------|--------------------------------|
| Appearance                  | White powder or viscous liquid | White powder or viscous liquid |
| <sup>1</sup> H NMR          | Identical to the structure     | Identical to the structure     |
| Substitution of DSPE by NMR | >90%                           | >90%                           |
| Substitution of OH by NMR   | >90%                           | >90%                           |

Date of Analysis: 2017.09.13

Recommended Retest date: 2018.09.12

Recommended Storage: -20°C in the dark

Stability: 1 year

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