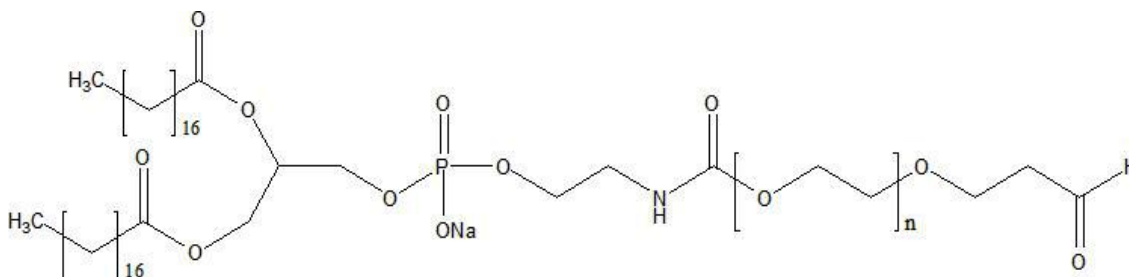


Certificate of Analysis

General properties:

Product Name: DSPE-PEG-CHO
 Molecular Weight: PEG MW:750, 1000, 2000, 3400, 5000 Dalton
 Catalog Number: R-0049
 Lot Number: RA271308

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	White solid or viscous liquid	White solid or viscous liquid
¹ H NMR	Identical to the structure	Identical to the structure
Substitution of DSPE by NMR	>90%	>90%
Substitution of CHO 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