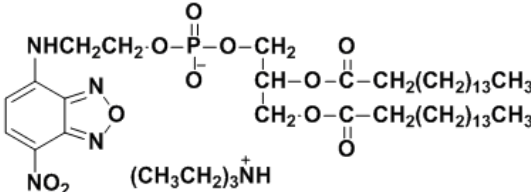


## Certificate of Analysis

(C of A)

Name:		NBD-PE NBD-DHPE [N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)-1,2-dihexadecanoyl-sn-glycero-3-phosphoethanolamine, triethylammonium salt]			
Catalog Number:	6232	Lot:	50301		
CAS Number:	178119-00-1	Formula:	C <sub>49</sub> H <sub>90</sub> N <sub>5</sub> O <sub>11</sub> P		
Molecular Weight:	956.24 (g/mol)				
	Observed	Standard			
HPLC Purity:	99% at 462 nm	≥ 95% at 462 nm			
Absorption (Methanol)					
Wavelength (λ <sub>max</sub> ):	463 nm	463 ± 3 nm			
Extinction:	26,100 cm <sup>-1</sup> M <sup>-1</sup>	24,000 ± 2,500 cm <sup>-1</sup> M <sup>-1</sup>			
Fluorescence (Methanol)					
Emission Max:	534 nm	534 ± 4 nm			
TLC Purity:	> 98%	≥ 95%			
TLC System:	85:13:2 Chloroform / Methanol / Acetic acid				
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)				
Production Lot:	14479	Release:	30-Dec-2020	Expiration:	06-Oct-2024
Structure:	<div></div>				

This data reflects the accuracy of the analysis of the subject lot  
 For research use only. Not for human use. No animal source.  
 This material is chemically synthesized and manufactured in the USA

**Approved by:** Dianna M Wineinger  
 Analytical Services Manager

**Date:** 30-Dec-2020

**Signature:** 