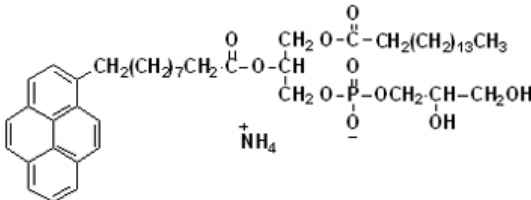


Certificate of Analysis

(C of A)

Name:		β-py-C10-PG 1-Hexadecanoyl-2-(1-pyrenedecanoyl)- sn-glycero-3-phosphoglycerol, ammonium salt	
Catalog Number:	6463	Lot:	51227
CAS Number:	220956-50-3	Formula:	C ₄₈ H ₇₄ NO ₁₀ P
Molecular Weight:	856.09 (g/mol)		
	Observed	Standard	
Absorption (Methanol)			
Wavelength (λ _{max}):	342 nm	341 ± 3 nm	
Extinction:	Set 39,000 cm ⁻¹ M ⁻¹	Set 39,000 ± 3,000 cm ⁻¹ M ⁻¹	
Fluorescence (Methanol)			
Emission Max:	378 nm	378 ± 4 nm	
TLC Purity:	> 99%	≥ 90%	
TLC System:	75:20:5 Chloroform / Methanol / Acetic Acid		
Storage:	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
Production Lot:	15435	Release:	18-Aug-2016
		Expiration:	18-Aug-2026
Structure:	<div><div>$\begin{array}{c} \text{CH}_2(\text{CH}_2)_7\text{CH}_2\text{C}(=\text{O})\text{O}-\text{CH} \\ \text{CH}_2\text{O}-\text{P}(=\text{O})(\text{O}^-)-\text{OCH}_2\text{CH}(\text{OH})-\text{CH}_2\text{OH} \\ \text{NH}_4^+ \end{array}$</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: 18-Aug-2016

Signature:

Dianna M. Wineinger