

## Certificate of Analysis

Date of Testing: 2022-11-15 16:28:11  
Date of Next Testing: 2023-05-14 16:28:11  
Product Name: **1',3'-bis[1,2-dioleoyl-sn-glycero-3-phospho]-sn-glycerol (sodium salt)**  
CAS Number: 115404-77-8  
Specifications & Purity: >99%  
Lot #: H2212141  
SKU #: **B130226**  
**Analysis: 155714**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Oxygen by Elemental Analysis	17.7-18.3 (%)	17.86 %
Phosphorus by Elemental Analysis	3.9-4.3 (%)	4.13 %
Purity(HPLC)	99-100 (%)	99.48600 %
Hydrogen by Elemental Analysis	9.6-10.1 (%)	9.76 %
Sodium(Na)	2.8-3.3 (%)	3.10 %
Carbon by Elemental Analysis	63.9-65 (%)	64.32 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager