

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-29 17:59:55
Date of Next Testing: 2023-05-28 17:59:55
Product Name: **1,2-dioleoyl-sn-glycero-3-phosphate (sodium salt) (18:1 PA)**
CAS Number: 108392-02-5
Specifications & Purity: $\geq 99\%$
Lot #: K2222401
SKU #: **D130369**
Version: **0**
Analysis #: **146997**
Storage Temperature: Protected from light, Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.80000 %
Carbon by Elemental Analysis	63.9-65 (%)	63.91000 %
Phosphorus by Elemental Analysis	4-4.5 (%)	4.10000 %
Hydrogen by Elemental Analysis	9.7-10.2 (%)	9.71000 %
Sodium by elemental analysis	2.9-3.4 (%)	2.91000 %
Oxygen by Elemental Analysis	17.3-17.9 (%)	17.31000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager