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ALADDIN SCIENTIFIC CORPORATION
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Certificate of Analysis

Date of Testing:	2025-03-21 08:59:54
Date of Next Testing:	2027-03-21 08:59:54
Product Name:	**1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(biotinyl) (sodium salt)**
CAS Number:	384835-53-4
Specifications & Purity:	≥98.0%
Lot #:	C2514205
SKU #	**D130736**
Version	**0**
Analysis #:	**418277**
Storage Temperature:	Store at -20°C

Parameter	**Limit Values**	**Result**
Purity(HPLC)	98-100（%）	99.78000 %
Hydrogen by Elemental Analysis	8.9-9.4（%）	8.95 %
Carbon by Elemental Analysis	60.9-61.9（%）	61.20 %
Sulfur by Elemental Analysis	3-3.4（%）	3.10 %
Oxygen by Elemental Analysis	15.8-16.3（%）	15.90 %
Nitrogen by Elemental Analysis	4-4.4（%）	4.10 %
Sodium by elemental analysis	2.1-2.5（%）	2.20 %
Phosphorus by Elemental Analysis	2.9-3.3（%）	3.00 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager