

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-30 16:57:13

Date of Next Testing: 2024-08-29 16:57:13

Product Name: **1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[biotinyl(polyethylene glycol)-2000]**

CAS Number: 385437-57-0

Specifications & Purity: $\geq 95\%$

Lot #: H2229171

SKU #: **D130803**

Version: **2**

Analysis #: **109301**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Phosphorus by Elemental Analysis	0.8-1.2 (%)	1.10000 %
Oxygen by Elemental Analysis	29.2-29.9 (%)	29.50000 %
Nitrogen by Elemental Analysis	2.1-2.5 (%)	2.11000 %
Sulfur by Elemental Analysis	0.8-1.3 (%)	0.81000 %
Carbon by Elemental Analysis	55.8-56.7 (%)	55.81000 %
Hydrogen by Elemental Analysis	9.1-9.6 (%)	9.11000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager