

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-08 14:21:28
 Date of Next Testing: 2027-03-07 14:21:28
 Product Name: **Phosphocholine Chloride Calcium Salt Tetrahydrate**
 CAS Number: 72556-74-2
 Specifications & Purity: $\geq 98\%$
 Lot #: C2329619
 SKU #: **C101915**
 Version: **1**
 Analysis #: **190985**
 Storage Temperature: Protected from light, Store at -20°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	22.5-24.1 (%)	23.57000 %
Calcium(Ca) anhydrous	15-16 (%)	15.96000 %
Nitrogen by Elemental Analysis (anhydrous)	5.1-5.7 (%)	5.57000 %
Purity(Neutralization titration) (anhydrous)	97.5-102.5 (%)	97.51000 %
Water by Karl Fischer	21-24 (%)	21.11000 %
Appearance (C101915)	white powder	White powder
Solubility, Clear to Hazy Colorless to Faint Yellow, 100 mg/ml in H ₂ O	Pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager