

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-27 19:03:08

Date of Next Testing: 2027-08-27 19:03:08

Product Name: **Choline-d4 Chloride**

CAS Number: 285979-70-6

Specifications & Purity: $\geq 99\%$, $\geq 98\text{atom\%D}$

Lot #: H2416125

SKU #: **C651832**

Version: **3**

Analysis #: **394331**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Isotopic purity (Atom % D)	98-100 (%)	98.60 %
Assay(Titration by AgNO3)	99-101.5 (%)	99.59 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager