

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-15 16:18:29  
 Date of Next Testing: 2027-09-15 16:18:29  
 Product Name: **Acetylcholine chloride (ACh)**  
 CAS Number: 60-31-1  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: L2305120  
 SKU #: **A111014**  
 Version: **2**  
 Analysis #: **572503**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                                      | Limit Values                                          | Result                                                |
|--------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Melting point                                                                  | 149-153 (°C)                                          | 152.29800 °C                                          |
| Purity(on anhydrous substance)<br>(argentometric titration)                    | 98.5-101.5 (%)                                        | 99.89000 %                                            |
| Purity(HPLC)                                                                   | 99-100 (%)                                            | 99.75800 %                                            |
| Appearance (A111014)                                                           | White to Faint Yellow Powder,<br>Crystals or Granules | White to Faint Yellow Powder,<br>Crystals or Granules |
| Infrared spectrum                                                              | Conforms to Structure                                 | Conforms to Structure                                 |
| Solubility in H <sub>2</sub> O , Colorless to Light<br>Yellow, Clear, 100mg/ml | pass                                                  | Pass                                                  |
| NMR Spectrum 1H                                                                | Conforms to Structure                                 | Conforms to Structure                                 |



John Su  
QA & QC Manager