

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2023-03-10 18:13:14

Date of Next Testing: 2027-03-09 18:13:14

Product Name: (S)-(-)-3-Aminoquinuclidine dihydrochloride

CAS Number: 119904-90-4

Specifications & Purity: ≥98%

Lot #: C2302527

SKU #: A123962

Version: 1

Analysis #: 199667

Storage Temperature: Room temperature

| Parameter                                                                        | Limit Values                             | Result                                   |
|----------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Specific Rotation [α] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)                  | -26--22 (°)                              | -23.21000 °                              |
| Purity(HPLC)                                                                     | 98-100 (%)                               | 99.23400 %                               |
| Purity(Titration by HClO <sub>4</sub> )                                          | 97.5-102.5 (%)                           | 100.50000 %                              |
| Appearance (A123962)                                                             | White to Light Yellow Powder or Crystals | White to Light Yellow Powder or Crystals |
| Infrared spectrum                                                                | Conforms to Structure                    | Conforms to Structure                    |
| Proton NMR spectrum                                                              | Conforms to Structure                    | Conforms to Structure                    |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow,Clear to Hazy,25mg/ml | pass                                     | Pass                                     |



John Su  
QA & QC Manager