

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-07 17:22:40  
 Date of Next Testing: 2026-11-06 17:22:40  
 Product Name: (-)-Scopolamine hydrobromide  
 CAS Number: 114-49-8  
 Specifications & Purity: Moligand™, ≥98%  
 Lot #: J2327703  
 SKU #: S302239  
 Version: 2  
 Analysis #: 273977  
 Storage Temperature: Store at -20°C

| Parameter                                                       | Limit Values                          | Result                                |
|-----------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Purity(HPLC)                                                    | 98-100(%)                             | 98.54300 %                            |
| Specific Rotation [α] <sub>25</sub> /D(c=5 in H <sub>2</sub> O) | -27--24 (°)                           | -24.13000 °                           |
| Water by Karl Fischer                                           | 0-2.5(%)                              | 2.44000 %                             |
| Purity(Titration by AgNO <sub>3</sub> )                         | 97.5-102.5(%)                         | 97.99000 %                            |
| Appearance(S302239)                                             | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum                                             | Conforms to Structure                 | Conforms to Structure                 |
| Solubility(Clear or very slightly hazy(50 mg/ml,water))         | pass                                  | Pass                                  |



John Su  
QA & QC Manager