

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-09 08:55:46  
 Date of Next Testing: 2030-04-08 08:55:46  
 Product Name: **L-Proline tert-butyl ester hydrochloride**  
 CAS Number: 5497-76-7  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: C2626002  
 SKU #: **P119333**  
 Version: **2**  
 Analysis #: **221279**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                       | Limit Values                          | Result                                |
|-----------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Purity (Argentmetric Titration)                                 | 97.5-102.5 (%)                        | 100.44000 %                           |
| Purity(with Total Nitrogen)                                     | 98-100 (%)                            | 98.86000 %                            |
| Melting point                                                   | 110-114 (°C)                          | 112.79000 °C                          |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ | -33--27 (°)                           | -32.86300 °                           |
| Appearance (P119333)                                            | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum                                             | Conforms to Structure                 | Conforms to Structure                 |



John Su  
QA & QC Manager