

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-09 15:21:54
Date of Next Testing: 2027-05-08 15:21:54
Product Name: **L-Proline tert-butyl ester hydrochloride**
CAS Number: 5497-76-7
Specifications & Purity: 98%
Lot #: D23261036
SKU #: **P119333**
Analysis: **221279**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|---|---------------------------------------|---------------------------------------|
| Purity (Argentmetric Titration) | 97.5-102.5 (%) | 100.44 % |
| Purity(with Total Nitrogen) | 98-100 (%) | 98.86 % |
| Melting point | 110-114 (°C) | 112.79000 °C |
| Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O) | -33--27 (°) | -32.86 ° |
| 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