

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-05-09 15:16:14
Date of Next Testing:	2027-05-08 15:16:14
Product Name:	L-Proline tert-butyl ester hydrochloride
CAS Number:	5497-76-7
Specifications & Purity:	98%
Lot #:	D2326949
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