

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-20 09:20:20  
Date of Next Testing: 2027-12-19 09:20:20  
Product Name: **L-Proline benzyl ester hydrochloride**  
CAS Number: 16652-71-4  
Specifications & Purity: 98%  
Lot #: D1614123  
SKU #: **P113141**  
**Analysis:** **306476**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in MeOH})$	-45--43 (°)	-44.00°
Melting point	142-148 (°C)	145.00000 °C
Purity(HPLC)	98-100 (%)	99.00000 %
Substances not precipitated by ammonia	0-0.5 (%)	0.37 %
Appearance (P113141)	White crystal powder	White crystal powder
TLC Analysis	One spot	One spot
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager