

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-13 16:45:04  
Date of Next Testing: 2026-09-13 16:45:04  
Product Name: **L-Alanine Benzyl Ester Hydrochloride**  
CAS Number: 5557-83-5  
Specifications & Purity:  $\geq 98\%$ (HPLC)  
Lot #: L22071112  
SKU #: **L133915**  
Version: **1**  
Analysis #: **411236**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } 1\text{mol/L HCl})$	-11--9 (°)	-10.99°
Nitrogen by Elemental Analysis	6.2-6.8 (%)	6.20%
Melting point	136-140 (°C)	139.96000 °C
Carbon by Elemental Analysis	54.3-57.1 (%)	55.18%
Purity(Nonaqueous Titration)	97.5-102.5 (%)	100.00%
Purity(HPLC area)	98-100 (%)	99.84%
Appearance (L133915)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in pass H <sub>2</sub> O		Pass



John Su  
QA & QC Manager