

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-10-12 09:05:14
Date of Next Testing: 2026-10-12 09:05:14
Product Name: **L-Alanine Benzyl Ester Hydrochloride**
CAS Number: 5557-83-5
Specifications & Purity: $\geq 98\%$ (HPLC)
Lot #: G1510010
SKU #: **L133915**
Version: **1**
Analysis #: **417999**
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 (°)	-10.80°
Nitrogen by Elemental Analysis	6.2-6.8 (%)	6.30%
Melting point	136-140 (°C)	138.80000 °C
Carbon by Elemental Analysis	54.3-57.1 (%)	55.20%
Purity(Nonaqueous Titration)	97.5-102.5 (%)	98.00%
Purity(HPLC area)	98-100 (%)	98.50%
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 ₂ O , Colorless ,Clear ,50 mg/mL in pass H ₂ O		Pass



John Su
QA & QC Manager