

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-14 14:43:38
 Date of Next Testing: 2026-10-13 14:43:38
 Product Name: **L-Alanine tert-Butyl Ester Hydrochloride**
 CAS Number: 13404-22-3
 Specifications & Purity: $\geq 97\%$
 Lot #: J2211581
 SKU #: **A109203**
 Version: **1**
 Analysis #: **108804**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in EtOH})$	1-3 (°)	1.34500 °
Purity(HPLC)	97-100 (%)	99.16900 %
Purity (Argentmetric Titration)	96.5-103.5 (%)	101.16000 %
Appearance (A109203)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless, Clear to Very Slightly Hazy, 50 mg/ml	pass	Pass



John Su
QA & QC Manager