

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-05-07 09:33:43

Date of Next Testing: 2026-05-06 09:33:43

Product Name: **L-Alanine tert-Butyl Ester Hydrochloride**

CAS Number: 13404-22-3

Specifications & Purity: $\geq 97\%$

Lot #: G1817139

SKU #: **A109203**

Version: **1**

Analysis #: **088972**

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 ($^{\circ}$)	1.00000 $^{\circ}$
Purity(HPLC)	97-100 (%)	98.82000 %
Melting point	168-175 ($^{\circ}\text{C}$)	174.80000 $^{\circ}\text{C}$
Purity (Argentmetric Titration)	96.5-103.5 (%)	97.48000 %
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