

Certificate of Analysis

Date of Testing: 2022-10-28 11:28:26

Date of Next Testing: 2026-10-27 11:28:26

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

CAS Number: 13404-22-3

Specifications & Purity: 97%

Lot #: 11819128

SKU #: **A109203**

Analysis: **110732**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=2 in EtOH)	1-3 (°)	2.81°
Purity (Argentometric Titration)	96.5-103.5 (%)	98.89%
Purity(HPLC)	97-100 (%)	97.01000%
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