

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-13 17:40:47
Date of Next Testing: 2025-05-12 17:40:47
Product Name: **D-Leucine tert-Butyl Ester Hydrochloride**
CAS Number: 13081-32-8
Specifications & Purity: $\geq 98.0\%$
Lot #: E23101033
SKU #: **S138145**
Analysis: 169915
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.01700 %
Specific Rotation $[\alpha]_{20}^D(c=2 \text{ in DMF})$ -13--9 (°)		-10.52 °
Purity (Argentmetric Titration)	97.5-102.5 (%)	102.38 %
Appearance (S138145)	White to Almost white powder to crystal	White to Almost white powder to crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager