

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-13 10:52:11
 Date of Next Testing: 2027-02-12 10:52:11
 Product Name: **L-Alanine ethyl ester hydrochloride**
 CAS Number: 1115-59-9
 Specifications & Purity: 98%
 Lot #: B2304082
 SKU #: **A109010**
Analysis: **168041**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	97.5-102.5 (%)	102.50 %
Water by Karl Fischer	0-0.5 (%)	0.30 %
Specific Rotation [α] ₂₀ /D(c=2.5 in H ₂ O)	2-4 (°)	2.93°
Substances not precipitated by ammonia	0-1 (%)	0.36 %
Melting point	77-83 (°C)	81.51000 °C
Appearance (A109010)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager