

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-04-08 11:20:13
Date of Next Testing: 2026-04-07 11:20:13
Product Name: **L-Alanine ethyl ester hydrochloride**
CAS Number: 1115-59-9
Specifications & Purity: 98%
Lot #: E1822120
SKU #: **A109010**
Analysis: **086331**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	97.5-102.5 (%)	98.40 %
Water by Karl Fischer	0-0.5 (%)	0.20 %
Specific Rotation [α] ₂₀ /D(c=2.5 in H ₂ O)	2-4 (°)	2.40°
Substances not precipitated by ammonia	0-1 (%)	0.20 %
Melting point	77-83 (°C)	79.80000 °C
Appearance (A109010)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager