

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-26 13:30:23
 Date of Next Testing: 2026-11-25 13:30:23
 Product Name: **D-Valine methyl ester hydrochloride**
 CAS Number: 7146-15-8
 Specifications & Purity: $\geq 99\%$
 Lot #: C1512023
 SKU #: **V117182**
 Version: **2**
 Analysis #: **144061**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=2-24--22)}^{\circ}$ MeOH)		-23.52000 °
Specific Rotation $[\alpha]_{20/D(c=2-17--13)}^{\circ}$ in H ₂ O)		-13.45500 °
Purity (Argentmetric Titration)	99-100 (%)	99.06000 %
Appearance (V117182)	White Crystals or powder or crystalline powder or lumps	White Crystals or powder or crystalline powder or lumps
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager