

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-04 16:55:12

Date of Next Testing: 2027-07-03 16:55:12

Product Name: **4-Chloro-DL-phenylalanine methyl ester hydrochloride**

CAS Number: 14173-40-1

Specifications & Purity: 98%

Lot #: F2327641

SKU #: **C117072**

Analysis: **232721**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Specific Rotation [α] ₂₅ /D(c=1 in H ₂ O)	-1-1 (°)	0.19°
Carbon by Elemental Analysis	46-49.2 (%)	46.68 %
Nitrogen by Elemental Analysis	5.3-5.9 (%)	5.51 %
Melting point	184-188 (°C)	187.91000 °C
Appearance (C117072)	White powder	White powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility, Colorless, clear to lightly hazy (50 mg/ml of H ₂ O)	pass	Pass



John Su
QA & QC Manager