

Certificate of Analysis

Date of Testing: 2023-09-20 11:50:08

Date of Next Testing: 2027-09-19 11:50:08

Product Name: **L-2,4-Diaminobutyric acid hydrochloride**

CAS Number: 1883-09-6

Specifications & Purity: $\geq 98\%$

Lot #: I2312152

SKU # **D113499**

Version **0**

Analysis #: **261087**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Sulfate Ash	0-0.1 (%)	0.06 %
Water by Karl Fischer	0-2.5 (%)	1.02 %
Purity(Titration by AgNO ₃)	98-100 (%)	98.88 %
Purity(HPLC)	98-100 (%)	99.68900 %
Specific Rotation $[\alpha]_{20/D(c=3.6 \text{ in H}_2\text{O})}$	13-16 (°)	13.01 °
Appearance (D113499)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , very faint turbidity	pass	Pass



John Su
QA & QC Manager