

## Certificate of Analysis

Date of Testing: 2023-04-06 19:51:25  
Date of Next Testing: 2027-04-05 19:51:25  
Product Name: **L-2,4-Diaminobutyric acid hydrochloride**  
CAS Number: 1883-09-6  
Specifications & Purity: 98%  
Lot #: C23311525  
SKU #: **D113499**  
**Analysis: 026920**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=3.6 in H <sub>2</sub> O)	13-16 (°)	13.19°
Sulfate Ash	0-0.1 (%)	0.00 %
Water by Karl Fischer	0-2.5 (%)	1.22 %
Purity(Titration by AgNO <sub>3</sub> )	98-100 (%)	98.64 %
Purity(HPLC)	98-100 (%)	99.04760 %
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 <sub>2</sub> O , very faint turbidity	pass	Pass



John Su  
QA & QC Manager