

## Certificate of Analysis

Date of Testing: 2024-08-30 11:47:45  
Date of Next Testing: 2026-08-30 11:47:45  
Product Name: **D-Mannosamine hydrochloride**  
CAS Number: 5505-63-5  
Specifications & Purity:  $\geq 98\%$   
Lot #: H2421124  
SKU #: **D130872**  
Version: **0**  
Analysis #: **299672**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	32.7-34.1 (%)	33.34 %
Purity(HPLC)(mixture to Anomers)	98-100 (%)	99.45 %
Nitrogen by Elemental Analysis	6.2-6.8 (%)	6.48 %
Appearance (D130872)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow Clear ,50 mg/mL, H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager