

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-15 09:32:50
 Date of Next Testing: 2025-12-14 09:32:50
 Product Name: **D-Mannosamine hydrochloride**
 CAS Number: 5505-63-5
 Specifications & Purity: $\geq 98\%$
 Lot #: L2312325
 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 ₂ O , Colorless to Faint Yellow Clear ,50 mg/mL, H ₂ O	pass	Pass



John Su
QA & QC Manager