

## Certificate of Analysis

Date of Testing: 2024-12-16 15:53:14  
Date of Next Testing: 2026-12-06 15:53:14  
Product Name: **D-(+)-Mannose**  
CAS Number: 3458-28-4  
Specifications & Purity: Moligand™, analytical standard  
Lot #: C2306444  
SKU #: **M103970**  
Version: **0**  
Analysis #: **450138**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation [α] <sub>25</sub> /D(c=4 in H <sub>2</sub> O after 24hr)	13.5-14.9 (°)	13.60°
Purity(HPLC)	99.5-100 (%)	99.70000%
Appearance (M103970)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager