

## Certificate of Analysis

Date of Testing: 2023-07-07 13:50:33  
Date of Next Testing: 2027-07-06 13:50:33  
Product Name: **Methyl  $\alpha$ -D-mannopyranoside**  
CAS Number: 617-04-9  
Specifications & Purity: 99%  
Lot #: K1524019  
SKU #: **M111852**  
Analysis: **248499**

Parameter	Limit Values	Result
Specific Rotation [a] <sub>20</sub> /D(c =4 in H <sub>2</sub> O)	77-82 (°)	78.00°
Purity(HPLC)	99-100 (%)	99.37800 %
Melting point	192-196 (°C)	194.06000 °C
Water by Karl Fischer	0-0.5 (%)	0.31 %
mannose (TLC, HPLC)	0-0.5 (%)	0.26 %
Appearance (M111852)	white to grey powder or crystals and/or chunks	white to grey powder or crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow ,Clear,100 mg/mL	pass	Pass



John Su  
QA & QC Manager