

## Certificate of Analysis

Date of Testing: 2023-07-25 16:50:45  
Date of Next Testing: 2027-07-24 16:50:45  
Product Name: **Methyl- $\beta$ -D-glucopyranoside hemihydrate**  
CAS Number: 7000-27-3  
Specifications & Purity: 99%  
Lot #: G2319464  
SKU #: **M120896**  
Analysis: **245882**

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.46200 %
Melting point	106-111 (°C)	108.60000 °C
Specific Rotation [a] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)	-38--32 (°)	-34.45 °
Water by Karl Fischer	0-5 (%)	4.62 %
Appearance (M120896)	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
Solubility in H <sub>2</sub> O , soluble colorless	0.1 g/mL, clear, pass	Pass



John Su  
QA & QC Manager