

## Certificate of Analysis

Date of Testing: 2024-06-29 09:33:28  
Date of Next Testing: 2028-06-28 09:33:28  
Product Name: **D-(+)-Trehalose dihydrate**  
CAS Number: 6138-23-4  
Specifications & Purity: from cassava starch, ≥99%  
Lot #: F2427534  
SKU #: **T100010**  
Version: **0**  
Analysis #: **365529**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.80300 %
Solvent Content(GC)	0-5 (%)	1.44 %
Specific Rotation [α] <sub>20</sub> /D(c=7 in H <sub>2</sub> O)	178-183 (°)	178.20 °
Water by Karl Fischer	9.2-10.2 (%)	9.21 %
Appearance (T100010)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
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