

## Certificate of Analysis

Date of Testing: 2024-11-12 11:36:09  
Date of Next Testing: 2028-11-11 11:36:09  
Product Name: **D-(+)-Trehalose dihydrate**  
CAS Number: 6138-23-4  
Specifications & Purity:  $\geq 99\%$ , from cassava starch  
Lot #: K2404662  
SKU #: **T100010**  
Version: **1**  
Analysis #: **425463**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.69300 %
Specific Rotation $[\alpha]_{20/D}(c=7 \text{ in H}_2\text{O})$	178-183 ( $^{\circ}$ )	178.20 $^{\circ}$
Water by Karl Fischer	9.2-10.2 (%)	9.20 %
Appearance (T100010)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
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