

Certificate of Analysis

Date of Testing: 2023-08-21 11:40:45
Date of Next Testing: 2027-08-20 11:40:45
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: from cassava starch, ≥99%
Lot #: H2308421
SKU #: **T100010**
Analysis: **218722**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.86300 %
Water by Karl Fischer	9.2-10.2 (%)	9.59 %
Solvent Content(GC)	0-5 (%)	2.15 %
Specific Rotation [α] ₂₀ /D(c=7 in H ₂ O)	178-183 (°)	178.02 °
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 ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O	pass	Pass



John Su
QA & QC Manager