

Certificate of Analysis

Date of Testing: 2022-12-20 21:05:29
Date of Next Testing: 2026-12-19 21:05:29
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: from cassava starch, ≥99%
Lot #: L22161029
SKU #: **T100010**
Analysis: **160833**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.84900 %
Water by Karl Fischer	9.2-10.2 (%)	9.37 %
Solvent Content(GC)	0-5 (%)	2.34 %
Specific Rotation [α] ₂₀ /D(c=7 in H ₂ O)	178-183 (°)	178.01 °
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