

Certificate of Analysis

Date of Testing: 2022-08-20 17:07:37
Date of Next Testing: 2026-08-19 17:07:37
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: for plant cell culture, ≥99%
Lot #: H2209643
SKU #: **T100013**
Analysis: 114855
Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=7 \text{ in H}_2\text{O})$	174-183 (°)	175.66°
Purity(HPLC)	99-100 (%)	99.79000%
Water by Karl Fischer	0-10 (%)	9.52%
Loss on drying	0-10 (%)	6.38%
Appearance (T100013)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear colorless , 50mg/ml of water	pass	Pass
Plant cell culture test	pass	Pass



John Su
QA & QC Manager