

Certificate of Analysis

Date of Testing: 2023-02-24 12:58:18
Date of Next Testing: 2027-02-23 12:58:18
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: for plant cell culture, ≥99%
Lot #: B2318736
SKU #: **T100013**
Analysis: **144659**
Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.78100%
Water by Karl Fischer	0-10 (%)	9.83%
Loss on drying	0-10 (%)	6.52%
Specific Rotation [α] ₂₀ /D(c=7 in H ₂ O)	174-183 (°)	174.29°
Appearance (T100013)	white powder	White powder
Solubility in H ₂ O, clear colorless, 50mg/ml of water	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Plant cell culture test	pass	Pass



John Su
QA & QC Manager