

Certificate of Analysis

Date of Testing: 2025-06-11 09:45:44

Date of Next Testing: 2029-06-10 09:45:44

Product Name: **D-(+)-Trehalose dihydrate**

CAS Number: 6138-23-4

Specifications & Purity: for plant cell culture, ≥99%

Lot #: I2102405

SKU # **T100013**

Version **0**

Analysis #: **522219**

Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Specific Rotation [α] _{20/D} (c=7 in H ₂ O)	174-183 (°)	177.93 °
Purity(HPLC)	99-100 (%)	99.00100 %
Water by Karl Fischer	0-10 (%)	8.19 %
Loss on drying	0-10 (%)	6.37 %
Appearance (T100013)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Plant cell culture test	pass	Pass
Solubility in H ₂ O , clear colorless , 50mg/ml of water	pass	Pass



John Su
QA & QC Manager