

## Certificate of Analysis

Date of Testing: 2023-02-24 13:02:03  
Date of Next Testing: 2027-02-23 13:02:03  
Product Name: **D-(+)-Trehalose dihydrate**  
CAS Number: 6138-23-4  
Specifications & Purity: for plant cell culture, ≥99%  
Lot #: B2318741  
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] <sub>20</sub> /D(c=7 in H <sub>2</sub> O)	174-183 (°)	174.29 °
Appearance (T100013)	white powder	White powder
Solubility in H <sub>2</sub> 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