

## Certificate of Analysis

Date of Testing: 2024-10-08 11:38:21  
Date of Next Testing: 2028-10-07 11:38:21  
Product Name: **D-(+)-Trehalose dihydrate**  
CAS Number: 6138-23-4  
Specifications & Purity: from cassava starch, ≥99%  
Lot #: I2423551  
SKU #: **T100010**  
Version: **1**  
Analysis #: **403896**  
Storage Temperature: Argon charged

| Parameter  | Limit Values                                      | Result  |
|--|---|---|
| Purity(HPLC)   | 99-100 (%)  | 99.58700 %  |
| Water by Karl Fischer  | 9.2-10.2 (%)                                      | 9.62 %  |
| Specific Rotation [α] <sub>20</sub> /D(c=7 in H <sub>2</sub> O)                                | 178-183 (°)                                       | 178.20 °  |
| Appearance (T100010)   | white to off-white powder, crystals and/or chunks | white to off-white powder, crystals and/or chunks |
| Proton NMR spectrum  | Conforms to Structure                             | Conforms to Structure                             |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O | pass  | Pass  |



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