

## Certificate of Analysis

Date of Testing: 2023-08-15 17:06:55  
Date of Next Testing: 2027-08-14 17:06:55  
Product Name: **D-(+)-Trehalose dihydrate**  
CAS Number: 6138-23-4  
Specifications & Purity: from cassava starch, ≥99%  
Lot #: H2308504  
SKU #: **T100010**  
**Analysis:** **218722**  
Storage Temperature: Argon charged

| Parameter  | Limit Values                                      | Result  |
|--|---|---|
| Purity(HPLC)   | 99-100 (%)  | 99.86300 %  |
| Water by Karl Fischer  | 9.2-10.2 (%)                                      | 9.59 %  |
| Solvent Content(GC)  | 0-5 (%)   | 2.15 %  |
| Specific Rotation [α] <sub>20</sub> /D(c=7 in H <sub>2</sub> O)                                | 178-183 (°)                                       | 178.02 °  |
| Appearance (T100010)   | white to off-white powder, crystals and/or chunks | white to off-white powder, crystals and/or chunks |
| Infrared spectrum  | Conforms to Structure                             | Conforms to Structure                             |
| 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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