

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-14 15:57:57
Date of Next Testing: 2029-10-13 15:57:57
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: $\geq 99\%$, from cassava starch
Lot #: J2514251
SKU #: **T100010**
Version: **3**
Analysis #: **553024**
Storage Temperature: Room temperature, Argon charged, Cool

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.88100 %
Specific Rotation $[\alpha]_{20/D}(c=7 \text{ in H}_2\text{O})$	178-183 ($^{\circ}$)	182.95000 $^{\circ}$
Water by Karl Fischer	9.2-10.2 (%)	10.20000 %
Solvent Content(GC)	0-5 (%)	2.50000 %
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 ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O	pass	Pass



John Su
QA & QC Manager