

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-21 11:29:53
Date of Next Testing: 2028-12-20 11:29:53
Product Name: **D-(+)-Trehalose dihydrate**
CAS Number: 6138-23-4
Specifications & Purity: $\geq 99\%$, from cassava starch
Lot #: L2419560
SKU #: **T100010**
Version: **3**
Analysis #: **444958**
Storage Temperature: Room temperature, Argon charged, Cool

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.82700 %
Specific Rotation $[\alpha]_{20/D(c=7 \text{ in H}_2\text{O})}$	178-183 ($^\circ$)	178.09000 $^\circ$
Water by Karl Fischer	9.2-10.2 (%)	9.20848 %
Solvent Content(GC)	0-5 (%)	1.52000 %
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