

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-08-24 16:03:42
 Date of Next Testing: 2029-08-23 16:03:42
 Product Name: **D-(+)-Maltose monohydrate**
 CAS Number: 6363-53-7
 Grades & Purity: UltraBio™, ≥99%(HPLC)
 Lot #: H2619081
 SKU #: **D755720**
 Version: **1**
 Analysis #: **762420**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.76000 %
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)(24 hr)	128-132 (°)	130.70000 °
Residue on Ignition	0-0.1 (%)	0.00000 %
Melting point	125-130 (°C)	128.00000 °C
Water by Karl Fischer	4-6 (%)	5.24000 %
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-50 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Arsenic(As)(MHS-AAS)	0-0.1 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.00000 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.00000 ppm
PH (0.5M in H ₂ O)	5.0-7.0	6.25400
UV Absorbance 260nm(0.5 M in H ₂ O)	0-0.08	0.00000
UV Absorbance 280nm(0.5 M in H ₂ O)	0-0.07	0.00000
Appearance(D755720)	White or almost white powder or crystals	white or almost white powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance of solution(0.5 M in H ₂ O),Clear	Pass	Pass
Colorless		



John Su
QA & QC Manager