

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-08-29 18:52:37

Date of Next Testing: 2027-08-24 18:52:37

Product Name: **D-Lactose monohydrate**

CAS Number: 64044-51-5

Grades & Purity: Ultra pure, ≥99.5%(HPLC)

Lot #: H2628411

SKU #: **L100103**

Version: **1**

Analysis #: **765215**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.01000 ppm
Chromium(Cr)	0-5 (ppm)	0.01000 ppm
Aluminum(Al)	0-5 (ppm)	0.01000 ppm
UV Absorbance 280nm	0-0.02	0.01800
Cobalt(Co)	0-5 (ppm)	0.01000 ppm
pH	3.5-6	3.80000
Barium(Ba)	0-5 (ppm)	0.01000 ppm
Bismuth(Bi)	0-5 (ppm)	0.01000 ppm
Iron(Fe)	0-5 (ppm)	0.01000 ppm
Zinc(Zn)	0-5 (ppm)	0.01000 ppm
UV Absorbance 260nm	0-0.02	0.01900
Molybdenum(Mo)	0-5 (ppm)	0.01000 ppm
Chloride (Cl-)	0-50 (ppm)	0.23500 ppm
Copper(Cu)	0-5 (ppm)	0.01000 ppm
Purity(HPLC)	99.5-100 (%)	100.00000 %
(Pb)Lead	0-5 (ppm)	0.01000 ppm
(As)Arsenic	0-0.1 (ppm)	0.01000 ppm
Magnesium(Mg)	0-5 (ppm)	0.01000 ppm
Lithium(Li)	0-5 (ppm)	0.01000 ppm
Calcium(Ca)	0-10 (ppm)	0.01000 ppm
Potassium(K)	0-50 (ppm)	0.01000 ppm
Nickel(Ni)	0-5 (ppm)	0.01000 ppm
Cadmium(Cd)	0-5 (ppm)	0.01000 ppm
Ignition Residue (as sulfate)	0-0.05 (%)	0.01000 %
Manganese(Mn)	0-5 (ppm)	0.01000 ppm

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Parameter	Limit Values	Result
Sodium(Na)	0-50 (ppm)	0.01000 ppm
Specific Rotation [α] ₂₀ /D(c=10 in water,22h)	52-54 (°)	52.70000 °
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	25.00000 ppm
Appearance (L100103)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Insoluble matter	pass	Pass
Solubility in H ₂ O , Colorless and clear(0.5M,20°C)	pass	Pass
λ,0.5 M in H ₂ O	Pass	Pass



John Su
QA & QC Manager