

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-27 15:28:37
 Date of Next Testing: 2027-05-22 15:28:37
 Product Name: **D-Lactose monohydrate**
 CAS Number: 64044-51-5
 Specifications & Purity: Ultra pure, ≥99.5%(HPLC)
 Lot #: H2511371
 SKU #: **L100103**
 Version: **1**
 Analysis #: **711037**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-50 (%)	20.99800 %
Strontium(Sr)	0-5 (ppm)	2.49800 ppm
Chromium(Cr)	0-5 (ppm)	1.49800 ppm
Aluminum(Al)	0-5 (ppm)	1.46800 ppm
UV Absorbance 280nm	0-0.02	0.01780
Cobalt(Co)	0-5 (ppm)	2.19900 ppm
pH	3.5-6	3.78000
Barium(Ba)	0-5 (ppm)	2.09800 ppm
Bismuth(Bi)	0-5 (ppm)	2.07800 ppm
Iron(Fe)	0-5 (ppm)	2.56800 ppm
Zinc(Zn)	0-5 (ppm)	2.08900 ppm
UV Absorbance 260nm	0-0.02	0.01880
Molybdenum(Mo)	0-5 (ppm)	2.29800 ppm
Chloride (Cl-)	0-50 (ppm)	24.99800 ppm
Copper(Cu)	0-5 (ppm)	2.09800 ppm
Purity(HPLC)	99.5-100 (%)	99.99800 %
(Pb)Lead	0-5 (ppm)	2.09800 ppm
(As)Arsenic	0-0.1 (ppm)	0.04800 ppm
Magnesium(Mg)	0-5 (ppm)	1.49800 ppm
Lithium(Li)	0-5 (ppm)	1.89000 ppm
Calcium(Ca)	0-10 (ppm)	4.99800 ppm
Potassium(K)	0-50 (ppm)	23.99800 ppm
Nickel(Ni)	0-5 (ppm)	2.29800 ppm
Cadmium(Cd)	0-5 (ppm)	1.88700 ppm
Ignition Residue (as sulfate)	0-0.05 (%)	0.02480 %

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Manganese(Mn)	0-5 (ppm)	2.16800 ppm
Sodium(Na)	0-50 (ppm)	21.99800 ppm
Specific Rotation [a] ₂₀ /D(c=10 in water,22h)	52-54 (°)	52.67000 °
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