

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: **D-Lactose monohydrate**
Specifications & Purity: Ultra Pure, ≥99.5%(HPLC)
SKU # **L100103**

Parameter	Limit Values
Sulfate(SO ₄ ²⁻)	0-50 (%)
Strontium(Sr)	0-5 (ppm)
Chrome(Cr)	0-5 (ppm)
Aluminum(Al)	0-5 (ppm)
UV Absorbance 280nm	0-0.02
Cobalt (Co)	0-5 (ppm)
pH	3.5-6
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
UV Absorbance 260nm	0-0.02
Molybdenum(Mo)	0-5 (ppm)
Chloride (Cl ⁻)	0-50 (ppm)
Copper(Cu)	0-5 (ppm)
Purity(HPLC)	99.5-100 (%)
(Pb)Lead	0-5 (ppm)
(As)Arsenic	0-0.1 (ppm)
Magnesium (Mg)	0-5 (ppm)
Lithium(Li)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Potassium(K)	0-50 (ppm)
Nickel(Ni)	0-5 (ppm)
Cadmium(Cd)	0-5 (ppm)
Ignition Residue (as sulfate)	0-0.05 (%)
Manganese(Mn)	0-5 (ppm)
Sodium(Na)	0-50 (ppm)
Appearance (L100103)	Colorless or White Powder or Crystals
Insoluble matter	pass
Solubility in H ₂ O , Colorless and clear(0.5M,20°C)	pass
λ,0.5 M in H ₂ O	Pass
Specific Rotation [α] ₂₀ /D(c=10 in water,22h)	52-54 (°)