

Specification Sheet

Product Name: **α -Lactose monohydrate**
Specifications & Purity: Ultra pure, $\geq 99.5\%$ (HPLC)
SKU #: **L102285**

Parameter	Limit Values
Molybdenum(Mo)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Lithium(Li)	0-5 (ppm)
Nickel(Ni)	0-5 (ppm)
(As)Arsenic	0-0.1 (ppm)
Chloride (Cl-)	0-50 (ppm)
Bismuth(Bi)	0-5 (ppm)
Purity(HPLC)	99.5-100 (%)
Chrome(Cr)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$	52-54 (°)
Sulfate(SO ₄ ²⁻)	0-50 (ppm)
Barium(Ba)	0-5 (ppm)
Ignition Residue	0-0.05 (%)
UV Absorbance 260nm	0-0.02
Manganese(Mn)	0-5 (ppm)
Sodium(Na)	0-50 (ppm)
Copper(Cu)	0-5 (ppm)
Aluminum(Al)	0-5 (ppm)
PH(25 °C, 0.5 M in Water)	3.5-6
Cadmium(Cd)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
Calcium(Ca)	0-10 (ppm)
Appearance (L102285)	White to Off-White Powder or Crystals
Infrared spectrum	Conforms to Structure
Insoluble matter	pass
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass
λ , 0.5 M in H ₂ O	Pass



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Parameter

UV Absorbance 280nm

Limit Values

0-0.02