

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: Mannitol
Specifications & Purity: ≥99.9999% metals basis
SKU # M108830

Parameter	Limit Values
Bismuth(Bi)	0-0.01 (ppm)
Aurum(Au)	0-0.01 (ppm)
Rb	0-0.01 (ppm)
Yb	0-0.01 (ppm)
Cadmium(Cd)	0-0.01 (ppm)
Gallium(Ga)	0-0.01 (ppm)
Phospate(PO4)	0-1000 (ppb)
Rhodium (Rh)	0-0.01 (ppm)
Silver (Ag)	0-0.01 (ppm)
Germanium (Ge)	0-0.01 (ppb)
Purity(Based On Trace Metals Analysis)	99.9999-100 (%)
Mercury (Hg)	0-0.001 (µg/kg OR ng/g)
Beryllium(Be)	0-0.01 (ppm)
Hafnium(Hf)	0-0.01 (ppm)
Gadolinium (Gd)	0-0.01 (ppm)
Lu	0-0.01 (ppm)
Re	0-0.01 (ppm)
Cerium(Ce)	0-0.01 (ppm)
Osmium(Os)	0-0.01 (ppm)
Dysprosium(Dy)	0-0.01 (ppm)
Stannum(Sn)	0-0.01 (ppm)
Samarium(Sm)	0-0.01 (ppm)
Erbium(Er)	0-0.01 (ppm)
Cesium (Cs)	0-0.01 (ppm)
Lanthanum(La)	0-0.01 (ppm)
Nickel(Ni)	0-0.01 (ppm)
Iron(Fe)	0-0.05 (ppm)
Chloride (Cl-)	0-1000 (ppb)
Titanium(Ti)	0-0.05 (ppm)
assay(total isomers) (HPLC)	99-100 (%)
(Pb)Lead	0-0.01 (ppm)
Sulfate(SO42-)	0-1000 (ppb)

Parameter	Limit Values
Chrome(Cr)	0-0.01 (ppm)
Niobium(Nb)	0-0.01 (ppm)
Indium (In)	0-0.01 (ppm)
Platinum(Pt)	0-0.01 (ppm)
Samarium(Sm)	0-0.01 (ppm)
Calcium(Ca)	0-0.2 (ppm)
Aluminum(Al)	0-0.05 (ppm)
Tungsten(W)	0-0.01 (ppm)
Vanadium(V)	0-0.01 (ppm)
Te	0-0.01 (ppm)
(Br)Bromide	0-1000 (ppb)
(NO2)Nitrate	0-1000 (ppb)
Molybdenum(Mo)	0-0.01 (ppm)
Potassium(K)	0-0.1 (ppm)
Copper(Cu)	0-0.01 (ppm)
Palladium(Pd)	0-0.01 (ppm)
Manganese(Mn)	0-0.01 (ppm)
Magnesium (Mg)	0-0.05 (ppm)
Selenium(Se)	0-0.01 (ppm)
Application test:Suitable as an indicator in complexometry	0-0.01 (ppm)
Barium(Ba)	0-0.05 (ppm)
uranium(U)	0-0.01 (ppm)
Zinc(Zn)	0-0.01 (ppm)
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in } 1\% \text{ acidified Molybdate} \& \text{H}_2\text{SO}_4)$	137-145 (°)
Strontium(Sr)	0-0.01 (ppm)
Praseodymium(Pr)	0-0.01 (ppm)
Niobium(Nb)	0-0.01 (ppm)
Sb	0-0.01 (ppm)
Titanium(Ti)	0-0.05 (ppm)
Lithium(Li)	0-0.01 (ppm)
Th	0-0.01 (ppm)
(NO3)Nitrate	0-1000 (ppb)
Sc	0-0.05 (ppm)
Boron(B)	0-0.05 (ppm)
Europium(Eu)	0-0.01 (ppm)
Iridium(Ir)	0-0.01 (ppm)
Ta	0-0.01 (ppm)
Holmium(Ho)	0-0.01 (ppm)
Sodium(Na)	0-0.5 (ppm)

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Parameter	Limit Values
Ruthenium (Ru)	0-0.01 (ppm)
Terbium(Tb)	0-0.01 (ppm)
(As)Arsenic	0-0.01 (ppm)
Cobalt (Co)	0-0.01 (ppm)
Yttrium(Y)	0-0.01 (ppm)
Fluoride (F-)	0-1000 (ppb)
Appearance (M108830)	White Powder or Crystals
Infrared spectrum	Conforms to Structure