

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-10 10:30:18
 Date of Next Testing: 2026-10-09 10:30:18
 Product Name: **D-Sorbitol**
 CAS Number: 50-70-4
 Specifications & Purity: Ultra pure , $\geq 99.5\%$ (HPLC)
 Lot #: I2227137
 SKU #: **S104837**
Analysis: **142116**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Barium(Ba)	0-5 (ppm)	4.23 ppm
Aluminum(Al)	0-5 (ppm)	3.99 ppm
Manganese(Mn)	0-5	1.23
(Pb)Lead	0-5 (ppm)	3.26 ppm
Chromium(Cr)	0-5 (ppm)	4.23 ppm
Sulfate(SO42-)	0-50 (ppm)	48.25 ppm
PH	5-7	5.89
Calcium(Ca)	0-10 (ppm)	8.26 ppm
Potassium(K)	0-50 (ppm)	25.33 ppm
UV Absorbance 280nm	0-0.045	0.04
Lithium(Li)	0-5 (ppm)	2.60 ppm
Cadmium(Cd)	0-5 (ppm)	3.20 ppm
(As)Arsenic	0-0.1 (ppm)	0.06 ppm
Magnesium(Mg)	0-5 (ppm)	3.80 ppm
Purity(HPLC)	99.5-100 (%)	99.78800 %
Cobalt(Co)	0-5 (ppm)	4.23 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Specific Rotation [a] ₂₀ /D(c=10 in H ₂ O)	-1.8--1.2 (°)	-1.60 °
Strontium(Sr)	0-5 (ppm)	3.20 ppm
Copper(Cu)	0-5 (ppm)	2.46 ppm
Loss on drying	0-0.5 (%)	0.04 %
UV Absorbance 260nm	0-0.04	0.03
Molybdenum(Mo)	0-5 (ppm)	1.36 ppm
Bismuth(Bi)	0-5 (ppm)	4.12 ppm
Melting point	98-100 (°C)	99.93000 °C
Zinc(Zn)	0-5 (ppm)	0.82 ppm

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Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	1.96 ppm
Iron(Fe)	0-5 (ppm)	4.01 ppm
Chloride (Cl-)	0-50 (ppm)	12.33 ppm
Sodium(Na)	0-50 (ppm)	35.32 ppm
Appearance (S104837)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
sweetness(sucrose)	0.6x	0.6x
λ,1 M in H ₂ O	Pass	Pass

John Su
QA & QC Manager