

Certificate of Analysis

Date of Testing: 2025-02-24 10:49:19

Date of Next Testing: 2028-02-24 10:49:19

Product Name: **D-(+)-Glucose**

CAS Number: 50-99-7

Specifications & Purity: BioUltra, anhydrous, ≥99.5%(HPLC), sum of enantiomers

Lot #: B2519087

SKU #: **D755713**

Version: **1**

Analysis #: **475300**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	99.5-100 (%)	99.73600 %
Specific Rotation [α] ₂₀ /D(c=10 in H ₂ O:NH ₃ (2+3) = 99.2:0.8)	52.6-53.2 (°)	52.60°
Loss on drying	0-1 (%)	0.13 %
Ignition residue(as SO ₄)	0-0.1 (%)	0.00000 %
pH(25 °C,1M in H ₂ O)	5.0-7.0	6.50000
UV Absorbance 260nm(at 1M in H ₂ O)	0-0.1	0.08
UV Absorbance 280nm(at 1M in H ₂ O)	0-0.1	0.09
Chloride (Cl ⁻)	0-50 (ppm)	5.20 ppm
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	0.00 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Appearance(D755713)	White crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility(H2O: 1M at 20 °C,Clear,Colorless)	Conforms	Conforms

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager