

Certificate of Analysis

Date of Testing: 2023-11-22 16:02:31

Date of Next Testing: 2027-11-21 16:02:31

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

CAS Number: 50-99-7

Specifications & Purity: Anhydrous grade; Medicinal grade

Lot #: K2316272

SKU # **D639737**

Analysis: **298471**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	99.5-100 (%)	99.71 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O}:\text{NH}_3(2+3) = 99.2:0.8)$	52.6-53.2 (°)	52.61 °
Chloride Content	0-0.01 (%)	0.00 %
Loss on drying	0-1 (%)	0.01 %
Ignition Residue	0-0.1 (%)	0.07 %
Calcium(Ca)	0-0.01 (%)	0.00 %
Iron(Fe)	0-0.001 (%)	0.00 %
Arsenic(As)	0-0.0001 (%)	0.00000 %
Sulfate(SO ₄ ²⁻)	0-0.01 (%)	0.00 %
Total number of anaerobic bacteria	0-1000 (cfu/g)	10.00000 cfu/g
Mold and yeast count	0-100 (cfu/g)	10.00000 cfu/g
Endotoxin limit	0-2.5 (EU/g)	1.00000 EU/g
Heavy metal (as Pb)	0-0.04 (ppm)	0.00 ppm
Appearance(D639737)	White crystalline powder	white crystalline powder
Escherichia Coli	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure



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

John Su
QA & QC Manager