

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-22 16:56:37
 Date of Next Testing: 2029-01-21 16:56:37
 Product Name: **D-(+)-Glucose**
 CAS Number: 50-99-7
 Specifications & Purity: Anhydrous Grade, PharmPure™, USP, BP, Ph.Eur.
 Lot #: GMA2621530
 SKU #: **D774603**
 Version: **9**
 Analysis #: **647639**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Assay (HPLC, calc. on anhydrous substance)	97.5-102 (%)	99.21000 %
Specific Rotation $[\alpha]_{25/D}(c=10 \text{ in H}_2\text{O})$ (dry basis)	52.5-53 (°)	52.86200 °
Conductivity	0-20 (μS/cm)	3.10000 μS/cm
Insoluble matter	0-0.005 (%)	0.00250 %
Loss on drying(105°C)	0-0.2 (%)	0.15000 %
Sulfated ash(600 °C)	0-0.02 (%)	0.01000 %
Titration Acid	0-0.002 (meq/g)	0.00000 meq/g
Chloride (Cl-)	0-0.01 (%)	0.00000 %
Sulfate and sulphite(as SO ₄)	0-0.005 (%)	0.00000 %
Heavy metals(ACS)	0-5 (ppm)	0.00020 ppm
Fe(Iron)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-0.01 (%)	0.00000 %
Ca (Calcium)	≤ 0.01 (%)	0.00000 %
Arsenic(As)	0-1 (ppm)	0.00020 ppm
Total aerobic microbial count (TAMC)	0-1000 (cfu/g)	0.00000 cfu/g
Total yeasts and molds count(TYMC)	0-100 (cfu/g)	0.00000 cfu/g
Soluble starch.sulfite	0-15 (ppm)	0.00000 ppm
Water by Karl Fischer	0-1 (%)	0.13620 %
Related substances [sum of impurities A(maltose)and B(isomaltose)]	≤ 0.4 (%)	0.07000 %
Related substances [Impurity C (maltotriose)]	≤ 0.2 (%)	0.00000 %
Related substances [Impurity D (fructose)]	≤ 0.15 (%)	0.00000 %
Related substances (unspecified impurities)	≤ 0.10 (%)	0.07000 %
Related substances(Sum of all impurities)	≤ 0.5 (%)	0.13800 %
Endotoxins	≤ 10 (IU/g OR u/g)	0.00000 IU/g OR u/g
Appearance(D774603)	white solid	White Solid

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Parameter	Limit Values	Result
Identity (IR)	passes test	Passes test
Identify(TLC)	Pass	Pass
Identity(sediment)	passes test	Passes test
Identity(EP)(D)	conforms	Conforms
Appearance of solution	Conforms	Conforms
Starch	Pass	Pass
Protein	passes test	Passes test
Escherichia coli (absent in 1 g)	passes test	Passes test
Dextrin	Pass	Pass
Identity(spec. rotation calc. on anhydrous substance)	passes test	Passes test
Identity(HPLC)	Passes test	Passes test
Identity(water)	Passes test	Passes test
Pseudomonas aeruginosa absent in 1g	Pass	Pass
Staphylococcus aureus absent in 1g	Pass	Pass
Candida albicans absent in 1g	Pass	Pass
Salmonella ssp(absent in 10 g)	passes test	Passes test
Bile tolerant Gram negative Bacteria(absent in 1 g)	conforms	Conforms
Color and clarity of ethanol solution	Pass	Pass



John Su
QA & QC Manager