

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: **D-(+)-Glucose**
 Specifications & Purity: GMP, Anhydrous Grade, PharmPure™, USP, BP, Ph.Eur., pharmaceutical grade
 SKU #: **D774603**

Parameter	Limit Values
Appearance(D774603)	white solid
Assay (HPLC, calc. on anhydrous substance)	97.5-102 (%)
Specific Rotation $[\alpha]_{25/D}(c=10 \text{ in H}_2\text{O})(\text{dry basis})$	52.5-53 (°)
Identity (IR)	passes test
Identify(TLC)	Pass
Identity(sediment)	passes test
Identity(EP)(D)	conforms
Appearance of solution	Conforms
Conductivity	0-20 ($\mu\text{S}/\text{cm}$)
Insoluble matter	0-0.005 (%)
Loss on drying(105°C)	0-0.2 (%)
Sulfated ash(600 °C)	0-0.02 (%)
Titration Acid	0-0.002 (meq/g)
Chloride (Cl-)	0-0.01 (%)
Starch	Pass
Sulfate and sulphite(as SO ₄)	0-0.005 (%)
Heavy metals(ACS)	0-5 (ppm)
Fe(Iron)	0-5 (ppm)
Protein	passes test
Barium(Ba)	0-0.01 (%)
Ca (Calcium)	≤ 0.01 (%)
Arsenic(As)	0-1 (ppm)
Total aerobic microbial count (TAMC)	0-1000 (cfu/g)
Total yeasts and molds count(TYMC)	0-100 (cfu/g)
Escherichia coli (absent in 1 g)	passes test
Dextrin	Pass
Soluble starch.sulfite	0-15 (ppm)
Water by Karl Fischer	0-1 (%)
Related substances [sum of impurities A(maltose)and B(isomaltose)]	≤ 0.4 (%)
Related substances [Impurity C (maltotriose)]	≤ 0.2 (%)
Related substances [Impurity D (fructose)]	≤ 0.15 (%)
Related substances (unspecified impurities)	≤ 0.10 (%)

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Parameter**Limit Values**

Related substances(Sum of all impurities)

≤ 0.5 (%)

Identity(spec. rotation calc. on anhydrous substance)

passes test

Identity(HPLC)

Passes test

Identity(water)

Passes test

Pseudomonas aeruginosa absent in 1g

Pass

Staphylococcus aureus absent in 1g

Pass

Candida albicans absent in 1g

Pass

Salmonella ssp(absent in 10 g)

passes test

Endotoxins

≤ 10 (IU/g OR u/g)

Color and clarity of ethanol solution

Pass