

SPECIFICATION

D(+)-Glucose
Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ crystalline powder
Assay (C ₆ H ₁₂ O ₆) (GC)	min.98.0%(area/area)
Solubility in water	to pass test
Specific rotation [α] _{D20}	+52.5~+53.3°
Loss on drying at 105°C	max.0.2%(mass/mass)
Residue after ignition (as sulfate)	max.0.03%(mass/mass)
Acidity (as CH ₃ COOH)	max.0.003%(mass/mass)
Chloride (Cl)	max.0.004%(mass/mass)
Sulfate and sulfite (as SO ₄)	max.0.005%(mass/mass)
Calcium (Ca)	max.0.005%(mass/mass)
Lead (Pb)	max.5ppm(mass/mass)
Iron (Fe)	max.5ppm(mass/mass)
Arsenic (As)	max.1ppm(mass/mass)
D(-)-Fructose (C ₆ H ₁₂ O ₆)	max.2.0%(mass/mass)
Dextrin and starch	to pass test

JIS K 8824:2020(*:Additional test performed by Wako but not required by JIS)