

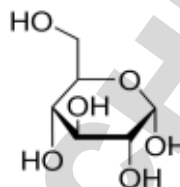
3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:
D-(+)-Glucose - BioXtra, ≥99.5% (GC)

Product Number: **G7528**
 CAS Number: 50-99-7
 MDL: MFCD00063774
 Formula: C₆H₁₂O₆
 Formula Weight: 180.16 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1 M in H ₂ O	
¹ H NMR Spectrum	Conforms to Structure
Purity (GC)	≥ 99.5 %
Loss on Drying	≤ 0.1 %
Residue on ignition (Ash)	≤ 0.1 %
as Sulfate	
Insoluble Matter	Pass
Passes Filter Test	
Chloride Content	≤ 0.005 %
Sulfate (SO ₄)	≤ 0.005 %
Aluminum (Al)	≤ 0.0005 %
Bismuth (Bi)	≤ 0.0005 %
Lead (Pb)	≤ 0.0005 %
Arsenic (As)	Pass
< or = 0.0001%	
Barium (Ba)	≤ 0.0005 %
Cadmium (Cd)	≤ 0.0005 %
Cobalt (Co)	≤ 0.0005 %
Strontium (Sr)	≤ 0.0005 %
Copper (Cu)	≤ 0.0005 %

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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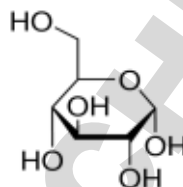
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TEST	Specification
Zinc (Zn)	≤ 0.0005 %
Potassium (K)	≤ 0.005 %
Iron (Fe)	≤ 0.0005 %
Molybdenum (Mo)	≤ 0.0005 %
Nickel (Ni)	≤ 0.0005 %
Lithium (Li)	≤ 0.0005 %
Chromium (Cr)	≤ 0.0005 %
Manganese (Mn)	≤ 0.0005 %
Calcium (Ca)	≤ 0.001 %
Magnesium (Mg)	≤ 0.0005 %
Sodium (Na)	≤ 0.005 %
A260 UV Absorption 1 M in H ₂ O	≤ 0.02
A280 UV Absorption 1 M in H ₂ O	≤ 0.03
Specific Rotation C = 10, in water for 3 hours, and 20 deg C	51 - 55 °
Recommended Retest Period 6 years	-----

Specification: PRD.2.ZQ5.10000010107

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