

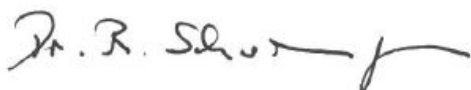
Certificate of Analysis

Product Name: Sucrose
BioXtra, >= 99.5 % GC
Product Number: S7903
Batch Number: BCCF5444
Brand: Sigma
CAS Number: 57-50-1
Formula: C₁₂H₂₂O₁₁
Formula Weight: 342.30
Quality Release Date: 11 MAR 2021
Recommended Retest Date: JAN 2026

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE	WHITE
APPEARANCE (FORM)	CRYSTALS	CRYSTALS
PURITY (GC AREA %)	≥ 99.5 %	100.0 %
SPECIFIC ROTATION (20/D)	65.5 - 67.5 DEGREES	66.5 DEGREES
CONCENTRATION	C=10 IN H ₂ O AT 20 DEG C	C=10 IN H ₂ O AT 20 DEG C
LOSS ON DRYING	≤ 0.2 %	0.0 %
SULFATED ASH	≤ 0.01 %	< 0.01 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
ALUMINIUM (ICP)	≤ 0.0005 %	< 0.0005 %
ARSENIC (ICP)	≤ 0.0001 %	< 0.0001 %
BARIUM (ICP)	≤ 0.0005 %	< 0.0005 %
BISMUTH (ICP)	≤ 0.0005 %	< 0.0005 %
CALCIUM (ICP)	≤ 0.001 %	< 0.001 %
CADMIUM (ICP)	≤ 0.0005 %	< 0.0005 %
COBALT (ICP)	≤ 0.0005 %	< 0.0005 %
CHROMIUM (ICP)	≤ 0.0005 %	< 0.0005 %
COPPER (ICP)	≤ 0.0005 %	< 0.0005 %
IRON (ICP)	≤ 0.0005 %	< 0.0005 %
POTASSIUM (ICP)	≤ 0.005 %	< 0.005 %
LITHIUM (ICP)	≤ 0.0005 %	< 0.0005 %
MAGNESIUM (ICP)	≤ 0.0005 %	< 0.0005 %
MANGANESE (ICP)	≤ 0.0005 %	< 0.0005 %
MOLYBDENUM (ICP)	≤ 0.0005 %	< 0.0005 %
SODIUM (ICP)	≤ 0.005 %	< 0.005 %
NICKEL (ICP)	≤ 0.0005 %	< 0.0005 %

Certificate of Analysis

LEAD (ICP)	≤ 0.0005 %	< 0.0005 %
STRONTIUM (ICP)	≤ 0.0005 %	< 0.0005 %
ZINC (ICP)	≤ 0.0005 %	< 0.0005 %
TOTAL SULFUR AS SO ₄ (ICP)	≤ 0.005 %	< 0.005 %
CHLORIDE (CL)	≤ 0.005 %	< 0.005 %
SOLUBILITY (METHOD)	1M IN H ₂ O	1M IN H ₂ O
APPEARANCE (SOLUTION)	CLEAR COLORLESS	CLEAR COLORLESS
PH (SOLUTION)	5.5 - 7.5	6.6
RESIDUE (FILTER TEST)	NO RESIDUE	NO RESIDUE
UV - ABS. AT 260 NM	≤ 0.09	0.09
UV - ABS. AT 280 NM	≤ 0.07	0.07



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland

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.