

Certificate of Analysis

Sucrose reference standard, Traceable to NIST, AnStan[®].

Product Code:	BS12531.
Description:	Sucrose reference standard, Traceable to NIST, AnStan[®].
Chemical Name:	D (+)-Saccharose.
Pack:	100 gm.
CAS No.:	57-50-1.
Mol. Weight:	342.3 g/mol.
Mol. Formula:	C₁₂H₂₂O₁₁.
MDL Number:	MFCD00006626.
Melting Point:	186°C.
Boiling Point:	397.76°C.
Density:	1.587 g/cm³.
Solubility:	Miscible in water.
Storage:	Store in a cool and dry place.
Batch No:	BS12531/07.
Manufacture Date:	28/08/2025.
Expiry Date:	27/08/2030.

Characteristics	Specification	Measured Values
Appearance:	White crystalline powder.	White powder.
Odour:	Odourless.	Odourless.
Sulphated ash:	Max 0.10%.	0.031%.
Loss on drying:	Max 0.03%.	0.02%.
Specific Optical Rotation (α):	+65.9° to +67.0° (C=26, H ₂ O)	+66.465° (U = ± 0.138%, k = 2).
Purity by mass balance:	>99.9%.	99.90% (U = ± 0.21%, k = 2).

Note: - This material is only for laboratory purpose and not for human consumption.

Certification & Traceability:

This product was manufactured, processed and/or certified under a quality management system that complies with **ISO 17034:2016** and **ISO/IEC 17025:2017**.

The balances used in the preparation of this product are calibrated regularly, using a calibration provider that complies with **ISO/IEC 17025**. All standard components used in the manufacture of this product are pre-qualified and verified before use. This product was analysed according to protocol developed by NIST and is directly traceable to **NIST SRM 17g**.

Tests were performed for capacity, readability, repeatability and linearity. This product is manufactured, packaged, stored, and shipped in accordance with good manufacturing practices that is certified to **WHO-GMP**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of **k=2**.

Validity Period:

Briti Scientific standards ensure the accuracy of this product for 5 years from the manufacture date given above, provided the instructions for use are followed.

Quality Certifications:

This product was prepared under a quality management system that complies with the following:

ISO 17034:2016: Reference Materials Producer, CGI Certificate No. WGMP/22N2594 – General Requirements for the Competence of Reference Material Producers.

ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35.

ISO/IEC 17025:2017: Chemical Testing, CGI Certificate No. UG/23N256- General Requirements for the Competence of Testing and Calibration Laboratories.

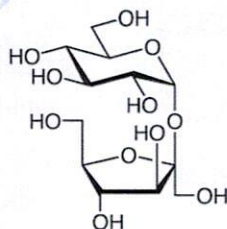
ISO 9001:2015 Certified: Quality Management Systems, CGI Certificate No. QMS/23N258.

WHO-GMP Certified: Good Manufacturing Practices, CGI Certificate No. WGMP/22N2594.


Health and Safety Information:

Refer to the Safety Data Sheet (SDS), which can be obtained at www.britisscientific.com.

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N. Bharathi.
Quality Control.



N.S. Mallika.
Quality Assurance.