

Certificate of Analysis

Sodium Bicarbonate reference standard, Traceable to NIST, AnStan[®].

Product Code:	BS10208.
Description:	Sodium Bicarbonate reference standard, Traceable to NIST, AnStan[®].
Synonym:	Sodium Bicarbonate.
Pack:	100 gm.
CAS No.:	144-55-8.
Mol. Weight:	84.01 g/mol.
Mol. Formula:	NaHCO₃.
MDL Number:	MFCD00003528.
Melting point:	270 °C.
Boiling point:	851 °C.
Density:	2.16 g/ml.
Solubility:	Miscible in water.
Storage:	Store in a cool and dry place.
Batch No:	BS10208/03.
Manufacture Date:	08/05/2025.
Expiry Date:	07/05/2030.

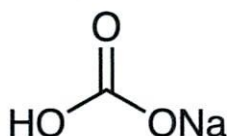
Characteristics	Specification	Measured Values
Appearance:	White powder to crystal.	White powder to crystal.
Odour:	Odourless.	Odourless.
Assay by titration:	≥99%.	99.85%.

pH (0.025 molar solution):

10.73 (U = ±0.01)

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

Note: Revised CoA – updated format (no change in batch data).



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 2191a**.

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.

This certificate shall not be reproduced except in full, without written approval from Briti Scientific. This is a computer generated COA, no stamp or signature is required.



N. Bharathi.
Quality Control.



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Quality Assurance.