



## Certificate of Analysis.

### Conductivity Standard 16,000 ± 1% µS/cm @25°C, Traceable to NIST.

Product Code:	<b>BSCON16K.</b>
Description:	<b>Conductivity Standard 16,000 ± 1% µS/cm @25°C, Traceable to NIST.</b>
Pack:	<b>500 ml.</b>
Chemical Name:	<b>NA.</b>
CAS No.:	<b>NA.</b>
Mol. Weight:	<b>NA.</b>
Mol. Formula:	<b>NA.</b>
Solubility:	<b>Miscible in water.</b>
pH:	<b>NA.</b>
Accuracy:	<b>± 1% µS/cm.</b>
Storage:	<b>Store at ambient temperature.</b>
Batch No:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>1 year.</b>

Characteristics	Specification	Measured Values
Appearance:	Clear colourless liquid.	<b>Lot specific.</b>
Odour:	Odourless.	<b>Lot specific.</b>
Conductivity:	15,840 – 16,160 µS/cm @25°C.	<b>Lot specific.</b>

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

This product is prepared using high quality salts and deionized water. The results reported are of a sample taken from the above-mentioned lot during manufacture and measurements are in comparison to standard prepared from **NIST SRM 999c**.

#### **Certification & Traceability:**

This product was manufactured, processed and/or certified under a quality management system that is accredited **ISO 17034:2016 and ISO/IEC 17025:2017**. This product was prepared to the certified concentrations shown above by gravimetric methods and analysed using a calibrated conductivity meter protocol and is directly traceable to **NIST SRM**.

The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this product are calibrated regularly, using a calibration provider that is accredited to **ISO/IEC 17025**. All standard components used in the manufacture of this product are pre-qualified and verified before use. All volumetric dilutions are performed in Class A calibrated glassware.



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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 ensures the accuracy of this product for 12 months 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 is 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.

**Homogeneity:**

This product was determined to be homogenous by procedures consistent with the requirements of **ISO 17034** and **ISO Guide 35**. Replicate samples of the finished solution were analysed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability.

**Health and Safety Information:**

Refer to the Safety Data Sheet (SDS), which can be obtained at [www.britisscientific.com](http://www.britisscientific.com).

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**N. Bharathi.**  
Quality Control.

**N.S. Mallika.**  
Quality Assurance.



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