



Certificate of Analysis.

Conductivity Standard 5000 ± 1% µS/cm @ 25°C, Traceable to NIST.

| | |
|-------------------|---|
| Product Code: | BSCON5K. |
| Description: | Conductivity Standard 5000 ± 1% µS/cm @ 25°C, Traceable to NIST. |
| Pack: | 500 ml. |
| Chemical Name: | NA. |
| CAS No.: | NA. |
| Mol. Weight: | NA. |
| Mol. Formula: | NA. |
| Solubility: | Miscible in water. |
| pH: | NA. |
| Accuracy: | ± 1% µS/cm. |
| Storage: | Store at ambient temperature. |
| LOT NO.: | Sample. |
| Manufacture Date: | Lot specific. |
| Expiry Date: | 1 year. |

| Characteristics | Specification | Measured Values |
|-----------------|--------------------------|----------------------|
| Appearance: | Clear colourless liquid. | Lot specific. |
| Odour: | Odourless. | Lot specific. |
| Conductivity: | 4950-5050 µS/cm @25°C. | Lot specific. |

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**. The uncertainty of the mean specific value does not exceed ±1% at 95% confidence level (k=2).

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.

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 24 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 accredited to the following:

ISO 17034:2016 Accredited: 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 Accredited: 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.

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.



Dr.K.Deepti.
Technical Head.

