



Calibration Solutions

pH - Conductivity - Redox



Calibration and quality

The determination of pH, conductivity and redox potential are routine operations in most laboratories and processes. Reliability and accuracy of the measurements are critical for the quality control.

The XS Solution range suits your needs and guarantees an impeccable calibration.



Traceability and Reliability



Assurance and Accreditation



pH buffer solutions

- 250 ml and 500 ml ergonomic bottle with built-in dosing compartment and value table depending on temperature for an accurate calibration
- Economical, using just the proper amount per calibration
- Coloured for an easier identification

- Immune to micro-organisms
- Actual value and expiration date printed on the bottle
- Life time 24 months
- Actual Value and expiration date reported on the certificate
- Certificates available at our website

XS Professional with DAkkS/DKD certificate

| TAMPONI pH | | | | |
|------------|---------|-----------------|----------|--------|
| Part No. | Package | pH value (25°C) | Accuracy | Colour |
| 51300003 | 250 ml | 4,01 | ± 0,01 | Red |
| 51300013 | 250 ml | 7,00 | ± 0,01 | Green |
| 51300023 | 250 ml | 9,21 | ± 0,02 | Blue |
| 51300033 | 250 ml | 10,01 | ± 0,02 | Yellow |
| 51300103 | 500 ml | 4,01 | ± 0,01 | Red |
| 51300113 | 500 ml | 7,00 | ± 0,01 | Green |
| 51300123 | 500 ml | 9,21 | ± 0,02 | Blue |
| 51300133 | 500 ml | 10,01 | ± 0,02 | Yellow |



Lot number, Actual Value and expiration date reported on the bottle



Value table depending on temperature and QR Code with link to our website

XS Basic with NIST traceability

| pH buffer | | | | |
|-----------|---------|-----------------|----------|------------|
| Part No. | Package | pH value (25°C) | Accuracy | Colour |
| 51100033 | 250 ml | 4,01 | ± 0,01 | Red |
| 51100043 | 250 ml | 7,00 | ± 0,01 | Green |
| 51100053 | 250 ml | 9,00 | ± 0,02 | Blue |
| 51100073 | 250 ml | 9,21 | ± 0,02 | Blue |
| 51100063 | 250 ml | 10,01 | ± 0,02 | Colourless |
| 51100133 | 500 ml | 4,01 | ± 0,01 | Red |
| 51100143 | 500 ml | 7,00 | ± 0,01 | Green |
| 51100153 | 500 ml | 9,00 | ± 0,02 | Blue |
| 51100173 | 500 ml | 9,21 | ± 0,02 | Blue |
| 51100163 | 500 ml | 10,01 | ± 0,02 | Colourless |
| 51100233 | 5 l | 4,01 | ± 0,01 | Red |
| 51100243 | 5 l | 7,00 | ± 0,01 | Green |
| 51100253 | 5 l | 9,00 | ± 0,02 | Blue |
| 51100273 | 5 l | 9,21 | ± 0,02 | Blue |
| 51100263 | 5 l | 10,01 | ± 0,02 | Colourless |

| REDOX STANDARD for ORP verification | | | |
|-------------------------------------|---------|----------------------|----------|
| Part No. | Package | mV value (25°C) | Accuracy |
| 51100303 | 250 ml | Redox/ORP 200mV/25°C | ± 5mV |
| 51100313 | 250 ml | Redox/ORP 475mV/25°C | ± 5mV |
| 51100323 | 500 ml | Redox/ORP 475mV/25°C | ± 5mV |
| 51100333 | 5 l | Redox/ORP 650mV/25°C | ± 5mV |

Conductivity



Conductivity standard 5 µS/cm with DANAK/DFM certificate



Conductivity standard 5 µS/cm with NIST traceability



With DANAK/DFM certificate



With NIST traceability

Conductivity standard

- 500 ml ergonomic bottle with built-in dosing compartment and value table depending on temperature for an accurate calibration
- 1,3 and 5,0 µS/cm in 300 ml glass bottle
- Economical, using just the proper amount per calibration

- Life time 24 months
- **1,3 and 5,0 µS/cm life time 12 months**
- Actual Value and expiration date reported on the certificate
- Certificates available at our website

XS Professional with DANAK/DFM certificate

| Conductivity standard | | | |
|-----------------------|---------|---------------------------|-------------|
| Part No. | Package | Value µS/cm (20°C / 25°C) | Accuracy |
| 51300303 | 300 ml | 1,3 | ± 0.1 µS/cm |
| 51300313 | 300 ml | 5,0 | ± 0.1 µS/cm |
| 51300323 | 500 ml | 76 / 84 | ± 1% |
| 51300333 | 500 ml | 133 / 147 | ± 1% |
| 51300343 | 500 ml | 1278 / 1413 | ± 1% |
| 51300353 | 500 ml | 11670 / 12880 | ± 1% |

XS Basic with NIST traceability

| Conductivity standard | | | |
|-----------------------|---------|---------------------------|-------------|
| Part No. | Package | Value µS/cm (20°C / 25°C) | Accuracy |
| 51100503 | 300 ml | 1,3 | ± 0.1 µS/cm |
| 51100513 | 300 ml | 5,0 | ± 0.1 µS/cm |
| 51100613 | 500 ml | 76 / 84 | ± 1% |
| 51100623 | 500 ml | 133 / 147 | ± 1% |
| 51100633 | 500 ml | 1278 / 1413 | ± 1% |
| 51100643 | 500 ml | 11670 / 12880 | ± 1% |



Fill calibration compartment



Calibrate electrode



Empty calibration compartment



Assurance and Accreditation

The measurements of pH and conductivity are much more accurate the more reliable the standards used for the calibration are. The XS Professional solutions are a guarantee of metrological traceability of your measurement chain, and are ideal for regulated areas. Traceability is ensured by the certification of accredited calibration laboratories according with UNI CEI EN ISO / IEC 17025. The pH buffer solutions are DKD-DAkKS certified by calibration at ZMK Zentrum für Messen und Kalibrieren. The conductivity standards are DANAK certified by calibration at DFM Danish Institute of Fundamental Metrology.

DAkKS and DANAK are accepted by other accreditation bodies within the scope of the European Cooperation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC).



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| | |
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Traceability and Reliability

XS standards are traceable to the IUPAC pH scale, by an unbroken chain of comparisons directly to Standard Reference Materials manufactured by NIST and PTB. Each solution is provided with the Certificate of Analysis of Giorgio Bormac internal Laboratory which guarantees quality, traceability and accuracy. XS Basic solutions are your perfect partner for verification of sensors and your measurement systems.

GUARANTEED BY:
GIORGIO-BORMAC
s.r.l.

