

## REPORT OF ANALYSIS

### Conductivity RM

Product #: 160456-18-03-PUG

Matrix: H<sub>2</sub>O

Lot #: 10071173-1

Analyte	Assigned Concentration
Conductivity	150 $\mu$ S/cm at 25 °C

**Intended Use:** This solution is intended for use as a reference material or calibration standard for conductivity.

**Certification & Traceability:** This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **9001 (TUV NORD Certificate No. 44 100 16560231), ISO Guide 34, and ISO/IEC 17025 (certificate number 2848.01) by the American Association of Laboratory Accreditation (A2LA)**. This RM was prepared to the concentration shown above by gravimetric methods and diluted with filtered (0.22  $\mu$ m), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. The uncertainty associated with the certified concentration is  $\pm 0.5\%$  relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of  $k=2$ .

**Instructions for Use:** We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500  $\mu$ L, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

**Period of Validity:** O2Si ensures the accuracy of this solution for **12 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



**Chuck Goudreau, Certifying Officer**

December 6, 2017

**Certification Date**

O2Si waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.