EXAXOL Certificate of Analysis

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Product: Conductivity Standard 1,000 µ-mhos **Issue Date:** 01/27/2021

Item Number: C1065-1000 **Lot #:** 210127B **Expires:** (1 yr) 02/2022

Product Description and Intended Use: For calibration of analytical instruments and/or validation of analytical methods

Actual Sample Value and Associated Uncertainty:

1,000 µmhos ± 0.5% (995 µmhos - 1,005 µmhos)*.

*Testing performed on-site at Exaxol's QC laboratory using in-house procedures for all standardized solutions. These results were obtained in an environment of 25°C ± 1°C with an RH of 40%-60% and relate only to the item specified on this certificate.

Homogeneity: Solutions are mixed according to in-house procedures and are guaranteed to be homogeneous.

Storage and Handling: Store in an ambient environment (15°C - 30°C). Keep product capped to avoid evaporation, which could alter the certified value.

NIST Traceability and Measurement Procedure for Defined Measurands:
Traceable to NIST SRM 999b and NIST Class S weights, calibrated via Test #FL-14057, according to NIST Handbook 145: Standard Operating Procedures Number 5: 3-1 Weight Design. Environmental conditions (temperature and humidity) is monitored with a NIST traceable thermometer and hygrometer. Exaxol Reference Materials are also Traceable to NIST Certified SRM's through an unbroken chain of comparisons.

Per ASTM E288 requirements, Exaxol uses strictly Class A pipettes and volumetric glassware, maintained in accordance with ASTM E542-01. Exaxol calibrates their balances using certified Class S NIST weights certified by the State of Florida Metrology Laboratory. Calibration records are maintained on site. All glassware and pipettes are also pre-calibrated and operated using the guidelines set forth by ASTM E542-01.

Exaxol is compliant with ISO 17025 and ISO 17034 standards. Exaxol solutions and standards are made in accordance with Exaxol's documented ISO 9001:2015 Quality Management System. Production records and test results are maintained and secured in the laboratory's Manufacturing Log, according to lot number.

Joseph E Papa, Sr. Chemist