



Certificate of Analysis

Dissolved Oxygen QC CRM

Catalog Number: QCI-192

Lot Number: N0422

Manufacture Date: 04/12/22

Certified Date: 04/12/22

Expiration: 04/30/2024

Solvent: Water

Hazards: Irritant

<u>Analyte</u>	<u>Study Mean</u> (mg/L)	<u>Certified Concentration</u> (mg/L)	<u>Acceptance Limits</u> (mg/L)
Dissolved Oxygen (at 7°C)	6.80	6.96 ± 0.065	0.696 - 13.3

This quality control CRM was manufactured by NSI Lab Solutions following quality procedures meeting the requirements of ISO 9001, ISO 17025, and ISO 17034. Acceptance limits are set at current NELAC standards. The study mean is set at the mean of an interlaboratory proficiency testing study with outlier rejection. This CRM is intended to be used to validate analytical methods, for detection limit studies, and analyst proficiency testing.

Storage & Instructions For Use

Store at refrigerated temperature (2-8°C).

Analyze the sample once removed from refrigeration without allowing it to equilibrate to room temperature.

This CRM is provided in whole volume format and is ready for analysis as received.

Gently pour appropriate aliquot into clean plastic or glass vessel minimizing air entrainment. After opening, analyze immediately. Remaining sample in the bottle cannot be saved for later use.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this CRM.

Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs, where available.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our CRMs is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.





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Homogeneity

This quality control CRM was thoroughly mixed in production. Batch homogeneity was established through analyses of samples chosen at random.

Stability/Expiration

The stability of this quality control CRM is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

Ewart Morris

Ewart Morris, Inorganics Technical Manager

Mark Hammersla

Mark Hammersla, President